

# APA O

# 2019

## BANGKOK

THE SCIENCES  
AND ARTS OF  
OPHTHALMOLOGY

**FINAL  
PROGRAM**

**6-9.03.2019**

**THE 34<sup>TH</sup> ASIA-PACIFIC ACADEMY  
OF OPHTHALMOLOGY CONGRESS**  
IN CONJUNCTION WITH  
**THE 43<sup>RD</sup> ANNUAL MEETING  
OF THE ROYAL COLLEGE OF  
OPHTHALMOLOGISTS OF THAILAND**  
CO-SPONSORED BY **EUROPEAN  
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<http://2019.apaophth.org/>

# APAO 2019 MOST POPULAR POSTERS

The APAO Congress will present awards to the top 5 most popular posters as chosen by delegates. Use the stickers below to vote for your 5 favorite posters in the poster display area. Here's how!



## Instructions

1. Remove a sticker from this sheet.
2. Stick it next to the poster of your choice.  
Take care not to cover the content of the poster.
3. Repeat steps 1 & 2 to use all 5 stickers!

The voting period for all posters at APAO 2019 is shown below. Be sure to use all your stickers before voting ends!

	Date	Time
Voting begins	March 6	09:00
Voting ends	March 8	12:00

# APAO 2019 MOST POPULAR E-POSTERS & VIDEOS

The APAO Congress will also present awards to the top 5 e-posters and top 5 videos as chosen by delegates. Here's how to cast your vote!

1. Access the APAO 2019 e-posters at <http://e-poster.apaophth.org/> or the videos at <http://video.apaophth.org>.
2. Browse the submitted e-posters/videos by subspecialty or search for a specific e-poster/video by author name or title.
3. Select the e-poster/video of your choice. Click on the heart (♥) to cast your vote. Change your mind? No worries! Just click the heart (♥) again to withdraw your vote.
4. In order to record your vote, the online voting system will ask you to log in using your last name and registration barcode (printed on the APAO delegate badge).
5. Repeat steps 1–4 to use your remaining 4 votes in each category (e-poster/video).

Remember, the voting period for the APAO 2019 e-posters and videos ends at 12:00 noon on Friday, March 8, 2019. Be sure to vote before the online system closes!

**APAO**  
**2019**  
**BANGKOK**

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# WELCOME MESSAGE

## From Congress President



**Dear Friends and Colleagues,**

The year 2003 was the last time the APAO Congress was held in Bangkok. Many things in science, art, culture, technology and so on have changed considerably since then.

The APAO Congress in 2003 was still in the era when APAO Congresses were held once every two years. It was the most successful APAO Congress ever then with more than 1200 delegates, over 300 submitted abstracts and more than 40 exhibitors. It was, however, surpassed very quickly by the following APAO Congresses. Sixteen years later in 2019, the APAO Congress in Bangkok had nearly 6000 delegates, over 1500 submitted abstracts and more than 250 exhibitors. APAO Congresses have, without a doubt, become an annual global event in ophthalmology.

The Royal College of Ophthalmologists of Thailand is proud to be part of the growing APAO. We are honored to be given this great opportunity to host the APAO Congress one more time after more than 16 years. We welcome ophthalmologists and related personnel from all over the world to the 'Sciences and Arts of Ophthalmology'. While the growing success of APAO is certainly due to the strength of the scientific programs, friendship and the social part or art of academic meetings is also slowly built up through APAO Congresses. I believe if APAO council members, speakers and delegates who attend APAO Congresses regularly through the years count the number of new friends they know from the congresses, they will find the number is enormous, or even countless.

The current President of the Royal College of Ophthalmologists of Thailand, Dr Anuchit Poonyathalang, said in the welcome video for APAO 2019: "When our Thai hospitality meets academic spirit, APAO 2019 will bring the best of sciences and arts that ophthalmology offers." He is certainly correct.

Thank you all for bringing science, art and also friendship to APAO 2019 in Bangkok, Thailand.

With warmest personal regards,



**Paisan RUAMVIBOONSUK**

Congress President, APAO 2019 Congress

# WELCOME MESSAGE

## From Scientific Program Committee Chair



**Dear Friends and Colleagues,**

On behalf of the Scientific Program Committee, it is my honor and pleasure to welcome you to the APAO 2019 Congress in Bangkok, co-hosted by the Royal College of Ophthalmologists of Thailand.

The Scientific Program is the backbone of the Congress. Our Scientific Program Committee strives to engineer a first-class scientific program, covering all major areas of ophthalmology and visual sciences. We have anticipated more than 600 leading experts from 46 countries speaking at the congress, which will help delegates to keep abreast of the latest developments in the science, knowledge and technology of ophthalmology.

As the capital of Thailand, Bangkok is an exciting, vibrant destination with a wide range of tourist attractions and delicious cuisine that make it the perfect gateway to Southeast Asia.

I wish you all find this congress fruitful, abundance with knowledge sharing and opening avenues for future of collaborations, and of course a wonderful stay in Bangkok.

With best regards,

A handwritten signature in black ink, appearing to read 'Dennis LAM', with a stylized flourish at the end.

**Dennis LAM**

Chair, APAO 2019 Scientific Program Committee

# WELCOME MESSAGE

## From President, Asia-Pacific Academy of Ophthalmology



**Dear Friends and Colleagues,**

It is my great honor and pleasure to invite you to the 2019 Congress of the Asia-Pacific Academy of Ophthalmology in Bangkok, co-hosted by the Royal College of Ophthalmologists of Thailand and co-sponsored by the European Society of Ophthalmology (SOE) internationally.

As the region's preeminent meeting for ophthalmologists and visual scientists, the APAO 2019 Congress features more than 600 internationally-renowned speakers presenting the latest discoveries and ideas in all major ophthalmic subspecialties. In addition to acquiring new knowledge and skills the annual Congress also provides delegates with an excellent opportunity to network and collaborate with peers and friends. Furthermore, Congress attendees can enjoy magnificent and historic palaces and temples, along with delicious cuisine and exciting nightlife, in Bangkok, one of Asia's most-loved cities.

It is impossible to have a successful APAO Congress without the hard work of numerous individuals who selflessly devote many hours to its success. These include: the authors who share their expertise and best practices; the reviewers whose industry enables the organizers to craft an intellectually stimulating program; and the many APAO members who staunchly support the Congress in myriad ways. I thank all for their prodigious efforts. Lastly and most importantly, I would like to take this opportunity to thank and compliment the organizing committee for their excellent work and unstinting dedication.

We very much look forward to seeing you at the 34<sup>th</sup> APAO Congress in Bangkok. It is truly an event not to be missed!

With very best regards,

A handwritten signature in dark ink, appearing to read 'Charles McGhee', enclosed within a circular flourish.

**Charles McGHEE**

President, Asia-Pacific Academy of Ophthalmology

# WELCOME MESSAGE

## From Secretary-General and CEO Asia-Pacific Academy of Ophthalmology



**Dear Friends and Colleagues,**

It is both my honor and pleasure to welcome you to the 34<sup>th</sup> Asia-Pacific Academy of Ophthalmology (APAO) Congress in Bangkok, co-hosted by the Royal College of Ophthalmologists of Thailand and co-sponsored by the European Society of Ophthalmology (SOE).

On behalf of APAO and our Member Societies, I would like to express our heartfelt thanks to Dr Paisan Ruamviboonsuk, APAO 2019 Congress President, and our colleagues at the Royal College of Ophthalmologists of Thailand, for bringing us this wonderful and outstanding meeting. At the time of writing, we already have nearly 6000 registered delegates from 86 countries. I would also like to convey our deepest gratitude to Prof Dennis Lam, APAO 2019 Scientific Program Committee Chair, and his 108-member-strong Scientific Program Committee, for their unwavering commitment, without which we would not be able to put together such a fantastic scientific program, with more than 600 distinguished speakers from 46 countries. I am confident this would be one of the most outstanding scientific programs ever presented in our region.

Above all, we are truly grateful to all of you who have chosen to join us here in Bangkok for the 34<sup>th</sup> APAO Congress. It is indeed your participation that has made all the preparatory efforts for this Congress worthwhile.

I very much hope you will enjoy this Congress, as well as all that Bangkok has to offer.

Warmest personal regards,

A handwritten signature in blue ink, appearing to be 'C. Tham'.

**Clement THAM**

Secretary-General and CEO,  
Asia-Pacific Academy of Ophthalmology (APAO)  
Chair, APAO Congress Standing Committee

# WELCOME MESSAGE

## From President, The Royal College of Ophthalmologists of Thailand



**Dear Colleagues and Friends,**

It is a privilege and honor for the Royal College of Ophthalmologists of Thailand (RCOPT) to co-host the 34<sup>th</sup> APAO Congress with the Asia-Pacific Academy of Ophthalmology.

The APAO Congress is certainly an outstanding platform to promote, foster and disseminate our research in a collegial and friendly atmosphere. It is where local meets global. We would like to express our satisfaction at hosting this congress which has a program that condenses the knowledge, dynamics, challenges and relevant contribution of ophthalmological research in the region.

Bangkok has so much to offer our visitors, including friendly people, amazing beaches, international fine dining, diverse night life and shopping and a rich closeness with our beautiful natural environment. A warm welcome from the RCOPT to everybody here at the conference and heartfelt thanks to the APAO who have poured such great effort and competence into making it a success. I am confident that the people of Thailand will do what they do best – to make you feel very welcome.

With very best regards,

A handwritten signature in black ink, reading "Anuchit Poonyathalang".

**Anuchit POONYATHALANG**

President, The Royal College of Ophthalmologists of Thailand

# WELCOME MESSAGE

## From President, European Society of Ophthalmology



**Dear Colleagues and Friends,**

It is with great pleasure that I welcome you to the APAO Congress in Bangkok.

I am very grateful and honored to have served as both guest and co-sponsor of the Congress. The annual congress is a fantastic opportunity to interact with the world's leading professionals and experts from across the ophthalmology field. It is also a time to meet with old friends and share the expertise and best practices with colleagues. I hope that the discussion and presentations taking place over the next four days will lead to greater achievements in the field of ophthalmology both in the Asia-Pacific region and all around the world.

As ophthalmologists, we need to be open-minded to gather and share new insights in our field to let our patients benefit from the cross-fertilization of knowledge. I trust that we shall all enjoy a wonderful Congress for international friendship.

With warmest personal regards,

A handwritten signature in black ink, reading "Jan Tjeerd DE FABER", written over a horizontal line.

**Jan Tjeerd DE FABER**

President, European Society of Ophthalmology



## Asia-Pacific Academy of Ophthalmology ( APAO )

The Asia-Pacific Academy of Ophthalmology (APAO) is a supranational organization that welcomes participation from national, territorial, and subspecialty-based ophthalmic societies in the Asia-Pacific region.

Being the major driving force of ophthalmic development in the Asia-Pacific region, the APAO seeks to promote the science and art of ophthalmology in the Asia-Pacific region, eliminate preventable blindness through teaching, research and service, foster cooperation between various ophthalmological societies in different countries, and encourage collaboration with other international and regional ophthalmological organizations.

Accordingly, the APAO organizes an annual congress, co-organizes scientific meetings and conferences, publishes the *Asia-Pacific Journal of Ophthalmology*, recognizes ophthalmologists' achievements in research, education and blindness prevention, runs a leadership development program and an international fellowship program, offers training and learning opportunities to young ophthalmologists, and provides an online platform on which ophthalmologists from different parts of the world can interact and consult with one another.

### **Guangzhou Headquarters**

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# LOCAL HOST



## The Royal College of Ophthalmologists of Thailand (RCOPT)

The Royal College of Ophthalmologists of Thailand was established in 1978 as the Ophthalmological Society of Thailand and became the Royal College of Ophthalmologists of Thailand under the Royal Patronage of His Majesty King Bhumibol Adulyadej on June 12, 1995. The RCOPT is responsible for Thai ophthalmology resident curriculum and conducts the Thai Board of Ophthalmology examinations. It also organizes scientific meetings and other public eye health-related activities, networks among ophthalmologists, and provides funds and support for academic and research activities in Thailand. The RCOPT also facilitates connections among Thai ophthalmologists, residents, fellows and those from other countries.

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# CO-SPONSOR



## European Society of Ophthalmology (SOE)

SOE website: <http://soevision.org>

Congress website: <http://soe2019.soevision.org>

SOE was founded in 1956 as the Societas Ophthalmologica Europea (SOE), with the aim of promoting ophthalmology in Europe and stimulating co-operation between European Ophthalmologists and their national societies. Today SOE has 44 National Society Members and Associate Members.

The next SOE Congress, SOE 2019, takes place from June 13 - 16, 2019, in Nice, France. SOE 2019, in close collaboration with European subspecialty and educational ophthalmology organizations, offers a plethora of sessions from some of the best lecturers and teachers in the world sharing their knowledge over the whole spectrum of ophthalmology. SOE 2019 offers a world-class scientific program for all Ophthalmologists and a packed YO programme. For the latest session details go to [www.SOE2019.org](http://www.SOE2019.org).

Come and see us at stand G105 to find out more.

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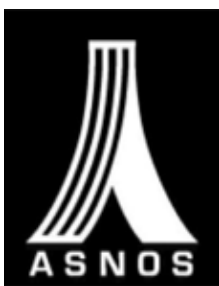


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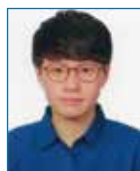
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# Asia-Pacific Vitreo-retina Society (APVRS) Congress 2019

Shanghai International Convention Center, China

November 22-24, 2019



HOSTS:



Asia-Pacific Vitreo-retina Society



Chinese Vitreo-retina Society



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# PROGRAM OVERVIEW

	Mar 5 (Tue) Day 0		Mar 6 (Wed) Day 1		Mar 7 (Thu) Day 2				
06:30-07:00			Registration		Registration				
07:00-07:30									
07:30-08:00									
08:00-08:30				Breakfast Symposia (S)* (08:00-08:45)		Breakfast Symposia (S)* (08:00-08:45)			
08:30-08:45									
08:45-09:00				Break		Break			
09:00-09:30				APAO Standing Committee Meetings (09:00-12:30)		APAO Scientific Sessions (09:00-10:30)	Wetlab Session (09:00 - 11:00)	APAO Scientific Sessions (09:00-10:30)	Wetlab Session (S)* (09:00 - 11:00)
09:30-10:00									
10:00-10:30									
10:30-11:00						Break		Break	
11:00-11:30									
11:30-12:00		APAO Scientific Sessions (11:00-12:30)	Wetlab Session (11:30-13:30)	APAO Scientific Sessions (11:00-12:30)					
12:00-12:30									
12:30-13:00	APAO Council Luncheon		Break		Break				
13:00-13:30	Registration		Registration	Lunch Symposia (S)* (13:00-14:00)	Lunch Symposia (S)* (13:00-14:00)				
13:30-14:00									
14:00-14:30				APAO Council Meeting (13:30-16:00)	Break	Wetlab Session (13:30-15:30)	Break		
14:30-15:00									
15:00-15:30					APAO Plenary Session (14:30-16:30)		APAO Scientific Sessions (14:30-16:00)		
15:30-16:00									
16:00-16:30					Break		Break		
16:30-17:00				APAO General Assembly (16:30-17:30)	APAO Opening Ceremony (16:30-17:30)		APAO Scientific Sessions (16:30-18:00)		
17:00-17:30									
17:30-18:00					Welcome Reception (17:30-18:30)				
18:00-18:30									
18:30-19:00									
19:00-19:30									
19:30-20:00									
20:00-20:30			Presidential Dinner (19:00-21:30)	Cultural Party cum APAO Award Ceremony (18:30-21:30)					
20:30-21:00									
21:00-21:30									
21:30-22:00									

\*Breakfast Symposium: 45 minutes; S=Sponsored Programs with no CME points.



Mar 8 (Fri) Day 3		Mar 9 (Sat) Day 4		
Registration	Charity Run (06:30-08:00)	Registration		06:30-07:00
				07:00-07:30
				07:30-08:00
	Breakfast Symposia (S)* (08:00-08:45)			08:00-08:30
				08:30-08:45
	Break		Break	08:45-09:00
	APAO Scientific Sessions (09:00-10:30)		APAO Scientific Sessions (09:00-10:30)	09:00-09:30
				09:30-10:00
				10:00-10:30
	Break		Break	10:30-11:00
	APAO Scientific Sessions (11:00-12:30)		APAO Scientific Sessions (11:00-12:30)	11:00-11:30
				11:30-12:00
				12:00-12:30
	Break			12:30-13:00
	Lunch Symposia (S)* (13:00-14:00)		APAO LDP Alumni Reception (13:00 - 14:00)	13:00-13:30
				13:30-14:00
	Break			14:00-14:30
	APAO Scientific Sessions (14:30-16:00)			14:30-15:00
				15:00-15:30
				15:30-16:00
	Break			16:00-16:30
	APAO Scientific Sessions (16:30-18:00)			16:30-17:00
				17:00-17:30
				17:30-18:00
				18:00-18:30
				18:30-19:00
	Young Ophthalmologists' Night (18:00-20:00)			19:00-19:30
				19:30-20:00
				20:00-20:30
				20:30-21:00
				21:00-21:30
				21:30-22:00

\*Breakfast Symposium: 45 minutes; S=Sponsored Programs with no CME points.

# SCIENTIFIC SESSIONS

CC = Challenging Cases  
SD = Subspecialty Day

FP = Free Paper  
SYM = Symposium

IC = Instruction Course  
VS = Video Symposium

PD = Panel Discussion  
WS = Workshop

## Day 1 - Mar 6, 2019 (Wednesday)

Time	Venue	Subspecialty	Type	Theme
09:00-10:30	Plenary Hall 1	Glaucoma	SYM	Angle Closure
	Plenary Hall 2	Cataract	SYM	Conquering the Rock-Hard Cataract
	Plenary Hall 3	Retina (Medical)	SYM	The Unmet Need in Retinal Diseases
	Meeting Room 1	Refractive Surgery	SYM	Tips & Tricks for Successful Refractive Surgeries
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	CC	APSPPOS Symposium: Challenging Cases in Pediatric and Strabismus
	Meeting Room 3	Neuro-Ophthalmology	SYM	Anomalous Optic Discs: Not Just Something to be Admired!
	Meeting Room 4	Retina (Surgical)	SYM	Management of Anterior Segment Surgery Complications
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Anterior Lamellar Keratoplasty
	C Ground Meeting Room 1	Ocular Imaging	SD	AI in Ophthalmology Symposium: AI and Latest Developments in Ocular Imaging
	C Ground Meeting Room 2	Visual Sciences	SYM	Refractive Errors and Myopia: From Animal Models to Humans
	Auditorium	Miscellaneous	SYM	APAO Leadership Development Program 2019-20 Orientation Class 1
	Boardroom 2	Cornea, External Eye Diseases & Eye Bank	IC	Pearls and Pitfalls in DMEK Surgery
	Boardroom 3	Ocular Oncology & Pathology	FP	Rapid Fire Ocular Oncology and Pathology Update Session
	Boardroom 4	Academia, Research, Teaching and Education in Ophthalmology	SYM	APAO-ICO Sessions for Educators: How do Trainees Become Competent Surgeons? How It's Done in Different Countries
	Lotus Room	Orbital and Oculoplastic Surgery	VS	2019 APAO Oculoplastic Video Cram Course
11:00-12:30	Plenary Hall 1	Glaucoma	SYM	New Frontiers in Glaucoma: From Bench to Bedside

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## Day 1 - Mar 6, 2019 (Wednesday)

Time	Venue	Subspecialty	Type	Theme
	Plenary Hall 2	Cataract	VS	Cataract Video Complications – You Make the Call
	Plenary Hall 3	Retina (Medical)	SYM	Updates on Diabetic Retinopathy
	Meeting Room 1	Refractive Surgery	SYM	SMILE
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	Dangerous Diplopia in Children
	Meeting Room 3	Ocular Imaging	SYM	What's New in Anterior Segment Imaging?
	Meeting Room 4	Intraocular Inflammation, Uveitis & Scleritis	SYM	Clinical Cases Based Diagnosis and Treatment of Infectious Uveitis Prevalent in Asia-Pacific Region
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Cornea Society Symposium: Evaluation & Treatment of Ectatic Corneal Disease
	C Ground Meeting Room 1	Ophthalmic Epidemiology, Telemedicine, Big Data & AI	SD	AI in Ophthalmology Symposium: Deployment of AI for DR Screening in the Real World
	C Ground Meeting Room 2	Visual Sciences	SYM	Global Eye Genetics Consortium (GEGC) Symposium
	Auditorium	Miscellaneous	SYM	APAO Leadership Development Program 2019-20 Orientation Class 2
	Boardroom 2	Orbital and Oculoplastic Surgery	IC	Lessons Learned in East Asian Eyelid Surgery
	Boardroom 3	Cornea, External Eye Diseases & Eye Bank	FP	Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 1
	Boardroom 4	Prevention of Blindness	SYM	Prevention of Blindness at the Policy Level
	Lotus Room	Ocular Oncology & Pathology	SYM	Uveal Melanoma
14:30-16:30	Plenary Hall 2	Plenary Session	SYM	Plenary Session: In Search of Excellence

## Day 2 - Mar 7, 2019 (Thursday)

Time	Venue	Subspecialty	Type	Theme
09:00-10:30	Plenary Hall 1	Glaucoma	SYM	WGA Symposium: Hot Topic in Glaucoma
	Plenary Hall 2	Cataract	VS	Ophthalmic Premier League
	Plenary Hall 3	Retina (Medical)	SYM	Updates on AMD & Variants Including PCV

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## Day 2 - Mar 7, 2019 (Thursday)

Time	Venue	Subspecialty	Type	Theme
	Meeting Room 1	Refractive Surgery	SYM	APMS Symposium: SMILE
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	APMS Symposium: Prevention of Myopia Progression
	Meeting Room 3	Neuro-Ophthalmology	SYM	What's New in Clinical Neuro-Ophthalmology?
	Meeting Room 4	Intraocular Inflammation, Uveitis & Scleritis	SYM	Current Imaging and Investigation Modalities in the Management of Uveitis
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	All Things Inflammatory of the Anterior Segment
	C Ground Meeting Room 1	Artificial Intelligence	SD	AI in Medicine Symposium: AI in Medicine I
	C Ground Meeting Room 2	Cataract	IC	Conquering Capsule Complications – My Best Teaching Videos
	Boardroom 2	Ocular Oncology & Pathology	IC	Retinoblastoma 2019 – They Live and See
	Boardroom 3	Academia, Research, Teaching and Education in Ophthalmology	SYM	ICO Education Symposium
	Boardroom 4	Ophthalmic Epidemiology, Telemedicine, Big Data & AI	SYM	Big Data and Big Study
	Lotus Room	Orbital and Oculoplastic Surgery	SYM	Oculoplastic Conditions and Techniques You Don't Want to Miss
11:00-12:30	Plenary Hall 1	Glaucoma	PD	Interdisciplinary Discussion: Glaucoma and Myopia
	Plenary Hall 2	Cataract	SYM	New Technologies for Cataract Surgery
	Plenary Hall 3	Retina (Medical)	SYM	Mystery Retinal Cases
	Meeting Room 1	Refractive Surgery	SYM	Corneal Collagen Cross-Linking
	Meeting Room 2	Retina (Surgical)	SYM	Pediatric Retina Surgery Essentials
	Meeting Room 3	Neuro-Ophthalmology	SYM	Neuroimaging for the General Ophthalmologists: A Case-Based Workshop
	Meeting Room 4	Retina (Surgical)	SYM	Controversies in Surgical Retina
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Indications, Techniques & Management of Keratoprosthesis

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## Day 2 - Mar 7, 2019 (Thursday)

Time	Venue	Subspecialty	Type	Theme
	C Ground Meeting Room 1	Translational Research in Ophthalmology	SD	AI in Ophthalmology Symposium: AI in the Future
	Boardroom 2	Cornea, External Eye Diseases & Eye Bank	IC	Advances in Endothelial Keratoplasty
	Boardroom 3	Cataract	FP	Rapid Fire Cataract Update Session 1
	Boardroom 4	Academia, Research, Teaching and Education in Ophthalmology	SYM	APAO-ICO Sessions for Educators: Competencies of a Good 21 <sup>st</sup> Century Teacher
	Lotus Room	Orbital and Oculoplastic Surgery	SYM	Recent Advances in Orbital and Oculoplastics
13:00-14:00	C Ground Meeting Room 1	Artificial Intelligence	SD	AI in Medicine Symposium: Predicting Systemic Disease with AI
14:30-16:00	Plenary Hall 1	Glaucoma	IC	MIGS for Glaucoma
	Plenary Hall 2	Cataract	SYM	Hitting the Refractive Target – Sphere & Cylinder
	Plenary Hall 3	Retina (Surgical)	SYM	Management of Open-Globe Posterior Segment Trauma
	Meeting Room 1	Refractive Surgery	SYM	LASIK and Surface Refractive Treatment
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	SOE Symposium: Where East Meets West
	Meeting Room 3	Ocular Imaging	SYM	What's New in Retinal Imaging?
	Meeting Room 4	Translational Research in Ophthalmology	SYM	Glaucoma: Looking into the Future
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Endothelial Keratoplasty
	C Ground Meeting Room 1	Artificial Intelligence	SD	AI in Medicine Symposium: AI in Medicine II
	C Ground Meeting Room 2	Glaucoma	FP	Rapid Fire Glaucoma Update Session 1
	Boardroom 2	Orbital and Oculoplastic Surgery	IC	Orbital Venolymphatic Malformations: Toolbox for Management
	Boardroom 3	Prevention of Blindness	SYM	Expanding Human Resources to Prevent Blindness
	Boardroom 4	Academia, Research, Teaching and Education in Ophthalmology	IC	AAPPO Clinical and Experimental Ophthalmology Research Course 2019

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## Day 2 - Mar 7, 2019 (Thursday)

Time	Venue	Subspecialty	Type	Theme
	Lotus Room	Ocular Oncology & Pathology	SYM	APSOOP Symposium: Retinoblastoma
16:30-18:00	Plenary Hall 1	Glaucoma	SYM	Secondary Glaucoma and Others
	Plenary Hall 2	Ocular Imaging	SYM	Inaugural APOIS Symposium: Ocular Imaging in 2020 and in 20-Year Time
	Plenary Hall 3	Retina (Surgical)	VS	Surgical Retina Video: State-of-the-Art Tips and Tricks
	Meeting Room 1	Refractive Surgery	SYM	APAO-ISRS Symposium: Controversies in Refractive Surgery
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	SOE Symposium: Where West Meets East
	Meeting Room 3	Neuro-Ophthalmology	SYM	APAO-ASNOS Symposium: Neuro-Ophthalmology in Asia
	Meeting Room 4	Intraocular Inflammation, Uveitis & Scleritis	SYM	Challenges in Chronic Ocular Surface Inflammation
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Eye Banking in 2019: Advances and Challenges
	C Ground Meeting Room 1	Artificial Intelligence	SD	AI in Medicine Symposium: Social Aspects of AI
	C Ground Meeting Room 2	Visual Sciences	SYM	APSEG Symposium: Genetics of Eye Traits and Eye Diseases in Children
	Boardroom 2	Pediatric Ophthalmology & Strabismus	FP	Rapid Fire Pediatric Ophthalmology, Strabismus, and Prevention of Blindness Update Session
	Boardroom 3	Glaucoma	IC	Micro-Invasive Glaucoma Surgery
	Boardroom 4	Prevention of Blindness	SYM	Prevention of Blindness in the Asia Pacific Region
	Lotus Room	Ocular Oncology & Pathology	SYM	Orbit, Eyelid

## Day 3 - Mar 8, 2019 (Friday)

Time	Venue	Subspecialty	Type	Theme
09:00-10:30	Plenary Hall 1	Glaucoma	SYM	Glaucoma Imaging
	Plenary Hall 3	Retina (Medical)	SYM	APVRS Symposium: Myopic Maculopathy



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## Day 3 - Mar 8, 2019 (Friday)

Time	Venue	Subspecialty	Type	Theme
	Meeting Room 1	Refractive Surgery	SYM	Presbyopic Treatment
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	Management of Diplopia and Nystagmus Made Easy
	Meeting Room 3	Neuro-Ophthalmology	SYM	The Most Commonly Asked Questions of Neuro-Ophthalmologists
	Meeting Room 4	Retina (Surgical)	SYM	Management of Rhegmatogenous Retinal Detachment and Complex Retinal Surgery
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Restoring the Disrupted Anterior Segment Following Trauma – Accidental and Surgical
	C Ground Meeting Room 1	Visual Sciences	SYM	Translational Research in Ophthalmology: Emerging Therapies
	C Ground Meeting Room 2	Translational Research in Ophthalmology	SYM	Retinal Diseases: Looking into the Future
	Auditorium	Miscellaneous	SYM	APAO Leadership Development Program 2018-19 Graduating Class 1
	Boardroom 2	Cataract	IC	Mastering Phaco Nightmares and Worst-Case Scenarios – A Video-Based Course
	Boardroom 3	Retina (Surgical)	FP	Rapid Fire Surgical and Medical Retina Update Session
	Boardroom 4	Academia, Research, Teaching and Education in Ophthalmology	SYM	APAO-ICO Sessions for Educators: Voice of Residents
	Lotus Room	Orbital and Oculoplastic Surgery	SYM	Controversies in Orbital Trauma
11:00-12:30	Plenary Hall 1	Glaucoma	SYM	APGS Symposium: Hot Q & A
	Plenary Hall 2	Cataract	SYM	IOL Fixation with Deficient Capsular Support
	Plenary Hall 3	Retina (Medical)	IC	ISCEV Instruction Course: Clinical Usefulness of Electrophysiology
	Meeting Room 1	Ophthalmic Epidemiology, Telemedicine, Big Data & AI	SYM	Predictors of High Myopia and Pathologic Myopia
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	Orbit Related Strabismus – Myths and Facts
	Meeting Room 3	Neuro-Ophthalmology	SYM	APAO-NANOS Symposium: Neuro-Ophthalmologic Emergencies - How to Tell When It is an Emergency and When It is Not

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## Day 3 - Mar 8, 2019 (Friday)

Time	Venue	Subspecialty	Type	Theme
	Meeting Room 4	Retina (Medical)	SYM	WIO Symposium: Unlocking the Doors to Challenges in Medical Retina & Uveitis – A Series of Challenging Cases
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Applied Corneal Laboratory Science
	C Ground Meeting Room 1	Visual Sciences	SYM	Ocular Immunity and Inflammatory Diseases
	C Ground Meeting Room 2	Miscellaneous	SYM	APAO-AAO-SOE Joint Session: Young Ophthalmologists Forum
	Auditorium	Miscellaneous	SYM	APAO Leadership Development Program 2018-19 Graduating Class 2
	Boardroom 2	Cornea, External Eye Diseases & Eye Bank	IC	IEEI Surgical Video Symposium: Innovative Surgical Approaches to Challenging Cases
	Boardroom 3	Retina (Surgical)	IC	Management of RRD in 2019
	Boardroom 4	Academia, Research, Teaching and Education in Ophthalmology	IC	Defending the Ophthalmologist in a Medical Malpractice Lawsuit: Global Comparative Overview of Multiple Legal Systems
	Lotus Room	Ocular Oncology & Pathology	SYM	Basic Science in Ocular Oncology
14:30-16:00	Plenary Hall 1	Glaucoma	VS	Film Festival
	Plenary Hall 2	Cataract	SYM	Refractive Cataract/IOL Surgery – My Top 5 Pearls
	Plenary Hall 3	Retina (Medical)	SYM	Retinal and Choroidal Vascular Disorders
	Meeting Room 1	Refractive Surgery	SYM	Corneal & Intraocular Implants for Refractive Corrections (ICRs, Phakic IOL, etc)
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	Pediatric Retinal Diseases
	Meeting Room 3	Miscellaneous	SYM	AOI Symposium: New Technology in Ophthalmology: Is It Ready for Our Patients? A Perspective from Global Leaders
	Meeting Room 4	Retina (Surgical)	SYM	What's New for Macular Surgery
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Debugging the Cornea

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## Day 3 - Mar 8, 2019 (Friday)

Time	Venue	Subspecialty	Type	Theme
	C Ground Meeting Room 1	Visual Sciences	SYM	Human Retinal Organoids and Disease Modelling
	C Ground Meeting Room 2	Translational Research in Ophthalmology	SYM	Corneal Diseases: Looking into the Future
	Auditorium	Miscellaneous	SYM	APAO Leadership Development Program 2019-20 Orientation Class 3: Insights Discovery Program - Getting Your Message Across
	Boardroom 2	Pediatric Ophthalmology & Strabismus	WS	SOE Symposium: A Presidential Gift from the West to the East
	Boardroom 3	Cataract	FP	Rapid Fire Cataract and Refractive Surgery Update Session
	Boardroom 4	Prevention of Blindness	SYM	Cutting Edge Approaches to the Leading Eye Health Problems in the Asia Pacific
	Lotus Room	Orbital and Oculoplastic Surgery	SYM	Office-Based Oculoplastic Procedures
16:30-18:00	Plenary Hall 1	Glaucoma	CC	Case Presentation and Discussion
	Plenary Hall 2	Cataract	SYM	Master Class: Managing PC Rupture and Vitreous Prolapse
	Plenary Hall 3	Retina (Medical)	SYM	Technology and Innovations in Medical Retina
	Meeting Room 1	Refractive Surgery	SYM	Keratoconus and Refractive Management (Basic Science, Diagnosis, ICRs, Others)
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	Genetics
	Meeting Room 3	Ocular Imaging	SYM	What's New in Glaucoma Imaging?
	Meeting Room 4	Intraocular Inflammation, Uveitis & Scleritis	SYM	Immunomodulatory Intervention in the Treatment of Recalcitrant Non-Infectious Uveitis
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	EVER Symposium: Innovative Strategies for Corneal Regeneration
	C Ground Meeting Room 1	Orbital and Oculoplastic Surgery	IC	Orbit, Oculoplastic Surgery, and Ophthalmic Oncology - What's New
	C Ground Meeting Room 2	Visual Sciences	SYM	Stem Cells to Translation
	Auditorium	Miscellaneous	SYM	APAO Leadership Development Program 2019-20 Orientation Class 4: Insights Discovery Program - Getting Your Message Across

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## Day 3 - Mar 8, 2019 (Friday)

Time	Venue	Subspecialty	Type	Theme
	Boardroom 2	Ocular Imaging	IC	Advanced Interpretation of OCT and OCTA for General Ophthalmologists – Front to the Back of the Eye
	Boardroom 3	Cornea, External Eye Diseases & Eye Bank	IC	Comprehensive Guide to Managing Ocular Complications of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Asians
	Boardroom 4	Academia, Research, Teaching and Education in Ophthalmology	SYM	APAO-ICO Sessions for Educators: Maximizing Productivity and Quality through Eye Care Team Development
	Lotus Room	Ocular Oncology & Pathology	SYM	Pathology Cases

## Day 4 - Mar 9, 2019 (Friday)

Time	Venue	Subspecialty	Type	Theme
09:00-10:30	Plenary Hall 1	Orbital and Oculoplastic Surgery	IC	APOTS Trauma Course: Concepts in Ophthalmic Trauma & Intraocular Complications Mode
	Plenary Hall 2	Cataract	SYM	Update on Cataract Surgery Pharmacology
	Plenary Hall 3	Retina (Medical)	FP	Rapid Fire Retina (Medical) Update Session 1
	Meeting Room 1	Refractive Surgery	SYM	Challenging Cases and Complications: How to Solve Them
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	SYM	What's New in Pediatric Ophthalmology and Strabismus
	Meeting Room 3	Cornea, External Eye Diseases & Eye Bank	FP	Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 2
	Meeting Room 4	Pediatric Ophthalmology & Strabismus	IC	Treatment of Retinopathy of Prematurity: Diagnosis and Management
	Ballroom	Cornea, External Eye Diseases & Eye Bank	SYM	Advances in Corneal/Anterior Segment Imaging
	C Ground Meeting Room 1	Ocular Oncology & Pathology	IC	The Killer 'Pearl' that Masquerade – Retinoblastoma
	C Ground Meeting Room 2	Visual Sciences	SYM	Gene Therapy
	Auditorium	Neuro-Ophthalmology	FP	Rapid Fire Neuro-Ophthalmology and Ocular Imaging Update Session

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## Day 4 - Mar 9, 2019 (Friday)

Time	Venue	Subspecialty	Type	Theme
	Boardroom 2	Translational Research in Ophthalmology	FP	Rapid Fire Translational Research, Visual Sciences and Glaucoma Update Session
	Boardroom 3	Ophthalmic Epidemiology, Telemedicine, Big Data & AI	FP	Rapid Fire Ophthalmic Epidemiology, Telemedicine, Big Data and AI Update Session
	Boardroom 4	Prevention of Blindness	SYM	Epidemiology in Prevention of Blindness
	Lotus Room	Orbital and Oculoplastic Surgery	SYM	How I Manage Patients with Tearing
11:00-12:30	Plenary Hall 1	Cataract	FP	Rapid Fire Cataract Update Session 2
	Plenary Hall 3	Retina (Medical)	FP	Rapid Fire Retina (Medical) Update Session 2
	Meeting Room 1	Refractive Surgery	FP	Rapid Fire Refractive Surgery Update Session
	Meeting Room 2	Pediatric Ophthalmology & Strabismus	IC	Overview of Innovations in Pediatric Cataract Surgery
	Meeting Room 3	Cataract	IC	Biometry – The Way Forward
	Meeting Room 4	Cornea, External Eye Diseases & Eye Bank	IC	Recent Advances in the Diagnosis and Management of Conjunctival Tumors
	Ballroom	Glaucoma	FP	Rapid Fire Glaucoma Update Session 2
	C Ground Meeting Room 1	Orbital and Oculoplastic Surgery	IC	Expanding Horizons in Oculofacial Aesthetic Surgery: Frontiers to Maximise Pearls and Minimise Perils
	C Ground Meeting Room 2	Pediatric Ophthalmology & Strabismus	FP	Rapid Fire Pediatric Ophthalmology and Strabismus Update Session
	Auditorium	Orbital and Oculoplastic Surgery	FP	Rapid Fire Orbital and Oculoplastic Surgery Update Session
	Boardroom 2	Cataract	IC	IOL Implantation in the Absence of Capsular Support
	Boardroom 3	Ocular Imaging	FP	Rapid Fire Ocular Imaging Update Session
	Boardroom 4	Intraocular Inflammation, Uveitis & Scleritis	FP	Rapid Fire Intraocular Inflammation, Uveitis, Scleritis, Ocular Oncology and Academia Update Session
	Lotus Room	Cornea, External Eye Diseases & Eye Bank	FP	Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 3

# CONGRESS INFORMATION

The following information is provided to make your attendance at the 34<sup>th</sup> APAO Congress in Bangkok, Thailand as pleasant as possible. If you have any queries during the Congress or require any assistance, please visit the Registration Desk where our team will be happy to help.

## Event Name

The 34<sup>th</sup> Asia-Pacific Academy of Ophthalmology Congress in conjunction with the 43<sup>rd</sup> Annual Meeting of the Royal College of Ophthalmologists of Thailand

## Congress Venue

Queen Sirikit National Convention Center (QSNCC)  
60 Ratchadaphisek Rd, Khwaeng Khlong Toei  
Khet Khlong Toei, Krung Thep Maha Nakhon 10110,  
Bangkok, Thailand

## Registration and Information Desk

The APAO 2019 Congress Registration and Information Desk is located in Hall A of the QSNCC and will operate during the times listed below:

Mar 5, 2019 (Tue)	16:00 - 18:00
Mar 6, 2019 (Wed)	07:30 - 18:00
Mar 7, 2019 (Thu)	07:30 - 18:00
Mar 8, 2019 (Fri)	07:30 - 18:00
Mar 9, 2019 (Sat)	07:30 - 12:30

## On-Site Payment

On-site payment with cash and credit card can be made at the Registration Desk during opening hours. Cheques are not accepted.

## Name Badges

All delegates registered for the Congress will be issued with a name badge at the Registration Desk.

### Satellite Badge Printing Center

Satellite Badge Printing is available at the lobby of the Marriott Marquis Bangkok Queen's Park. Delegate must settle their registration fees beforehand to print the badge at this Center.

### Opening Dates & Time

Mar 5, 2019 (Tue)	16:00-18:00
Mar 6, 2019 (Wed)	07:30-12:00

A delegate badge entitles you to entry to the following:

- All Scientific Sessions;
- Exhibition Hall; and
- Opening Ceremony of APAO 2019

This badge will be the official pass and must be worn at all times while on-site by the named delegate only.

All badges are nontransferable. Reissuing of name badges for the delegate/accompanying person will be available at the Registration Desk. An administrative fee of USD20 may be incurred for re-issuing a delegate badge.

Accompanying Persons (if any) are entitled to enter only the Exhibition Hall and Opening Ceremony of APAO 2019.

## Delegate Bag and Ribbon Collection

Delegate bags and ribbons are available for pickup at the "Delegate Bag Pick Up" counter in Hall A. Delegates can collect their own delegate bag upon presentation of their name badge.

## Dress Code

Neat casual attire is acceptable for attendance at Congress sessions and social functions.

## APAO Smartphone App

The APAO 2019 mobile app provides easy-to-use interactive capabilities to enhance your Congress experience. The app features all the scientific sessions and instruction courses, posters, e-posters, video abstracts, general information, floor plan, and a city map. With the utilization of the Congress App, you will have access to real-time interaction with the session speakers or panelists by posting questions at the 'Q&A' section in each individual symposium.

The app can be downloaded by scanning the QR code as shown below.



ANDROID APP



IOS APP

Updating the app regularly is recommended. For help on downloading the app and navigating its functions, please ask for assistance at the Registration Desk.

## Speaker Ready Room

All speakers are required to check in and upload their PowerPoint at the respective Speaker Ready Room 24 hours before their scheduled presentation. The computers in the Speaker Ready Room will have the exact same configuration as those in the session rooms. It is imperative that you review your presentation in the Speaker Ready Room where our technicians will help resolve any compatibility and/or formatting issues.

The PowerPoint and video files you have uploaded onto the computer in the Speaker Ready Room will be automatically transmitted to the laptop computer at the podium before your session begins. The Speaker Ready Room will be open during the following times in the Plaza:



Mar 5, 2019 (Tue)	16:00 - 18:00
Mar 6, 2019 (Wed)	07:30 - 18:00
Mar 7, 2019 (Thu)	07:30 - 18:00
Mar 8, 2019 (Fri)	07:30 - 18:00
Mar 9, 2019 (Sat)	07:30 - 11:00

## Abstract Book

A PDF copy of the abstract book is available online at <http://2019.apaophth.org/publications>. No hard copy will be distributed. Please scan the QR code below to access the abstract book:



## Scientific Posters

Paper posters can be found in the Exhibition Hall C-Second. There will be one poster session showcasing over 200 posters.

Session 1: No. 1 - No. 216

Poster sessions will be conducted during the morning and afternoon breaks from March 6 - 9, 2019. Delegates can use the image scanner to scan the poster. They will then be directed to a recording made by the author where applicable.

**Additionally, delegates can vote for 5 of their favorite posters using the stickers found inside the delegate bag. Voting begins on March 6 at 09:00 and ends on March 8 at 12:00.**

## E-Poster & Video Platform

There are over 400 accepted electronic posters and 70 selected videos showcased in APAO 2019. Delegates may visit the E-Poster and Video Platform located in the Exhibition Hall C-Second. They can view e-posters via the smartphone app. They will then be directed to a recording made by the author where applicable.

**In addition, delegates can vote for 5 of their favorite e-posters and videos using the platform in the Exhibition Hall and/or the Congress app. The voting period ends on March 8 at 12:00 noon.**

## VIP Lounge

Delegates with a VIP Pass can use the VIP Lounge located in Hall A.

## Morning and Afternoon Tea

Morning and afternoon tea will be served in the Exhibition Hall.

## Policies

**No Smoking** - Smoking is strictly prohibited in all session rooms, meeting and exhibition areas. Your cooperation is appreciated.

**Mobile Phones** - Please respect the presenter and other delegates by ensuring that your mobile devices are put in silent mode during sessions.

**Photography in the Exhibition Hall** - Attendees wishing to photograph or videotape an exhibit must obtain permission from the relevant company beforehand.

**Photographing or Videotaping Scientific Sessions** - Photographing and/or videotaping the scientific sessions are strictly prohibited. (Permission must be obtained in advance by media representatives.)

## Certificates of Attendance

Certificates of Attendance can be downloaded through the APAO Congress system (<http://congress.apaophth.org/>) after the Congress. Please log in with the same email address that you used to register for the Congress.

## Congress Photography

Some of the Congress sessions taking place will be filmed and recorded. There will also be a photographer present over the course of the Congress who will be capturing images. Any images will be retained and used by APAO (eg, on the APAO website, in publications, etc). If you have any concern with your photograph being taken or session recorded, please contact the APAO office.

## Official Tour Desk

There will be a tour desk next to the Registration Desk to help you with information on Bangkok and booking trips in and around Bangkok while you are here.

## Congress Directory

PLACE	LOCATION
APAO Office	Executive Center 1
Registration Desk	Hall A
Information Desk	Hall A
VIP Lounge	Hall A
Speaker Ready Room	Plaza
Opening Ceremony	Plenary Hall 2
Exhibition Hall	C-Second & Plaza
Scientific Posters & Videos	C-Second
YO Lounge	C-Ground
Wetlab Course	C-Ground

# GENERAL INFORMATION

## Venue Information

**Queen Sirikit National Convention Center**

**60 New Rachadapisek Road, Klongtoey, Bangkok 10110, Thailand**

**General Enquiries: +66 2229 3000**

Queen Sirikit National Convention Center (QSNCC) is recognized as Thailand's first world-class convention and exhibition venue. QSNCC offers state-of-the-art equipment and facilities, with services meeting international standards. With a total floor space of 65,000 m<sup>2</sup>, QSNCC facilities include the Exhibition and Function Area, Plenary Hall, Ballroom and Meeting Room. Every room is fully equipped with amenities and technology, as well as the latest event equipment. Other on-site services include the Business Center, restaurants, coffee shops, and food court and beverage corner.

## Site Map



04

CONGRESS INFORMATION

## Visiting Thailand

**APAO 2019** will be held in Bangkok, the capital and most populous city of Thailand. Its friendly, lively atmosphere is a magnet for visitors from around the globe. Bangkok is a regional center for business, finance and communications. It also has plenty of activities for visitors to enjoy: a wide selection of cuisines including the exotic taste of Thai food; an abundance of shops, malls and markets; and the traditional Thai massage or a pampering treatment in an elegant spa.

For more information about Thailand, please visit the following website:

<https://www.tourismthailand.org/home>

## Climate

The weather in Bangkok is dominated by a tropical monsoon climate. The temperature varies from 38°C to 19°C with the annual average at about 29°C. The humidity is from 66% to 82.8%. For the latest weather forecast, please visit the Thai Meteorological Department website: [https://www.tmd.go.th/en/7-day\\_forecast.php](https://www.tmd.go.th/en/7-day_forecast.php)

## Getting to the Congress Venue

Located on New Rachadapisek Road in central Bangkok, QSNCC is conveniently accessible by car or by public transportation. Suvarnabhumi International Airport is a 45-minutes drive from QSNCC, or can be reached via Airport Rail Link through mass transit connections from QSNCC's MRT Subway station.

### Taxi

Taxi may drop passengers at the entrance of the QSNCC.

### MRT Subway

MRT Queen Sirikit National Convention Center station is right in front of the QSNCC, reached by following Exit No. 3.

### BTS Skytrain

Take the BTS Skytrain to Asok interchange station, where visitors catch the subway to MRT QSNCC station. Follow Exit No. 3 to the venue.

### Bus

Take bus No. 136 and 185.

### Car

QSNCC has its own parking area and an overflow parking lot in the adjacent Thailand Tobacco Monopoly for 1300 vehicles. Alternatively, park-and-ride lots are located at 12 major MRT and BTS stations, while parking buildings are available only on Saturday and Sunday at Chamchuri Square and Jasmine City Building. From these locations, you can catch the MRT Subway or BTS Skytrain (see above).

For more information, please visit the QSNCC website:

<http://www.qsncc.co.th/en/qsncc-venue-information/how-to-get-there.html>

## Telecommunications

You may purchase a pre-paid mobile SIM card at the airport or from a telecommunications shop and most convenience stores in Thailand.

### WiFi

Complimentary WiFi is available in the QSNCC.

## Tipping

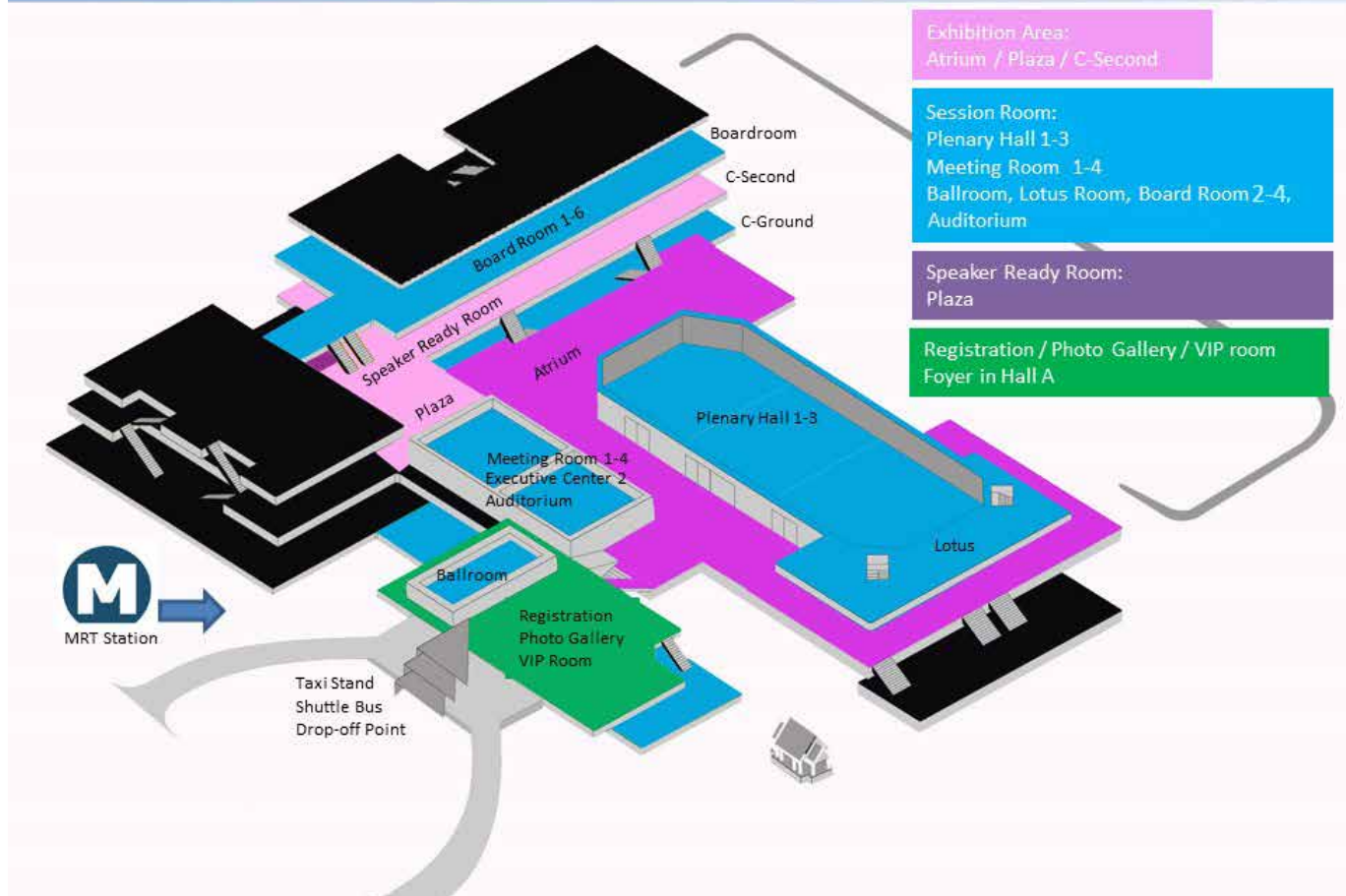
Tipping is not customary in Thailand. Some restaurants, however, levy a 10% service charge and 7% value-added tax (VAT) on your bill.

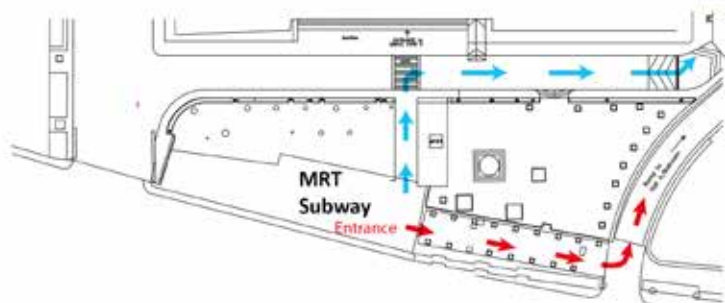
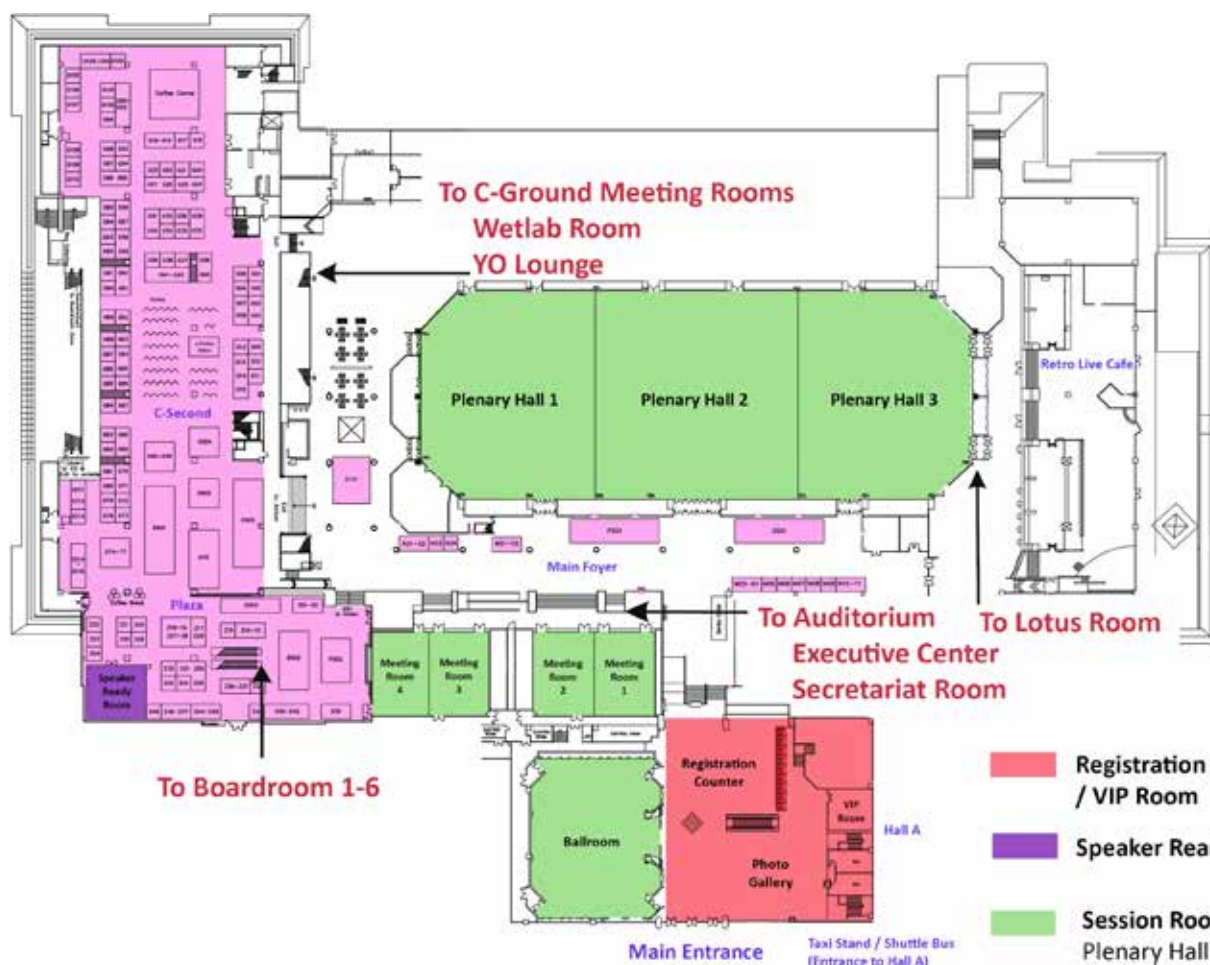
## Tax Refund

Goods purchased in Thailand are VAT inclusive. However, foreign visitors may receive a 7% VAT refund on luxury goods purchased from shops that participate in the 'VAT Refund for Tourists' scheme. A minimum expenditure of 5,000 baht (including VAT) is required and single purchases must have a value of at least 2,000 baht per day. On the day of purchase, present your passport and request the sales assistant at the store to complete the VAT Refund Application for Tourists form (P.P.10) and attach the original tax invoice to the form. At the airport before you check-in, you need to go to the VAT Refund Office to have your forms stamped. After going through immigration, take your stamped forms to the VAT refund windows to receive the refund.

# FLOOR PLAN

## APAO 2019 @ QUEEN SIRIKIT NATIONAL CONVENTION CENTER

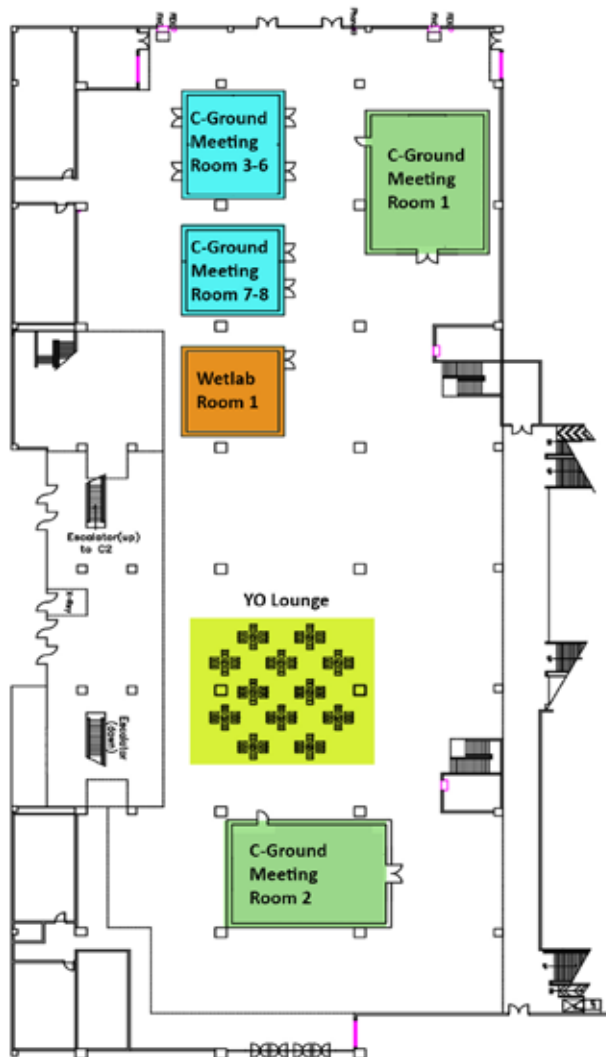




- Registration / Photo Gallery / VIP Room
- Speaker Ready Room
- Session Room  
Plenary Hall 1-3  
Meeting Room 1-4  
Ballroom
- Exhibition Hall / Poster/E-Poster/Video Area  
Plaza & C-Second

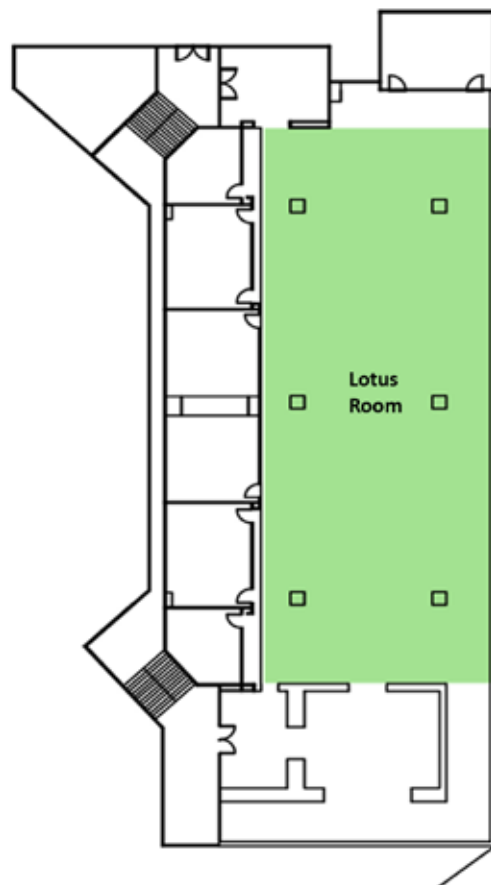


## C-Ground



- Session Room**  
C-Ground Meeting Room 1-2
- Wetlab Room 1**
- YO Lounge / WIO Luncheon / LDP Alumni Luncheon**
- Meeting Room**  
C-Ground Meeting Room 3-8

## Lotus Room



- Session Rooms**  
Lotus Room



The floor plan of the 2nd floor includes the following rooms and areas:

- Boardroom 1** (Green): Located in the top right.
- Boardroom 2** (Green): Located in the top right, adjacent to Boardroom 1.
- Boardroom 3** (Green): Located in the top center.
- Boardroom 4** (Green): Located in the bottom center.
- Boardroom 5** (White): Located in the top left.
- Boardroom 6** (Cyan): Located in the middle left.
- Boardroom Lobby** (White): Located in the middle right.
- Foyer** (White): Located in the middle left, adjacent to Boardroom 6.
- Plaza** (White): Located in the bottom left.
- Session Room** (Green): Boardrooms 2, 3, and 4.
- Meeting Room** (Cyan): Boardrooms 1 and 6.

# SOCIAL PROGRAM

## Opening Ceremony

**Date:** March 6, 2019 (Wednesday)

**Time:** 16:30 - 17:30

**Venue:** Plenary Hall 2, Queen Sirikit National Convention Center

*Open to All Delegates*

## Welcome Reception

**Date:** March 6, 2019 (Wednesday)

**Time:** 17:30 - 18:30

**Venue:** Exhibition Hall, Coffee Corner at C-Second Level, Queen Sirikit National Convention Center

*Open to All Delegates*

## Women in Ophthalmology Lunch

**Date:** March 6, 2019 (Wednesday)

**Time:** 13:00-14:00

**Venue:** C-Ground (near YO Lounge)

*Open to All Delegates*

## Presidential Dinner

**Date:** March 6, 2019 (Wednesday)

**Time:** 19:00 - 21:30

**Venue:** Nai Lert Heritage Home

*By Invitation Only*

## Cultural Party cum APAO Award Ceremony

**Date:** March 7, 2019 (Thursday)

**Time:** 18:30 - 21:30

**Venue:** Sook Siam

**Fee:** USD\$75

*Open to All Delegates*

## Charity Run

**Date:** March 8, 2019 (Friday)

**Time:** 06:30 - 08:00

**Venue:** Benchakiti Park (next to Queen Sirikit National Convention Center)

*Open to All Delegates*

## Leadership Development Program Alumni Reception

**Date:** March 8, 2019 (Friday)

**Time:** 13:00-14:00

**Venue:** C-Ground (near YO Lounge)

*For APAO LDP Alumni*

## Young Ophthalmologists' Night

YO Social Muay Thai & Thai Dessert Cooking Class

**Date:** March 8, 2019 (Friday)

**Time:** 18:00-19:00

**Venue:** Young Ophthalmologists' Lounge, Queen Sirikit National Convention Center

*For Young Ophthalmologists Only*

## YO Networking

**Date:** March 8, 2019 (Friday)

**Time:** 19:00-21:00

**Venue:** Lake n' Park Restaurant, Queen Sirikit National Convention Center

# Asia-Pacific Journal of Ophthalmology



**Indexed in MEDLINE**  
**Open Access**  
**No Publication Fee**

**Editor-in-Chief: Dennis Lam, MD**

The *Asia-Pacific Journal of Ophthalmology (APJO)* is a bimonthly, online-only, peer-reviewed journal for ophthalmologists and visual scientists. It is an **open-access journal without any publication fee or charge** for submitted or accepted articles. With an aim to foster an exchange of expertise and knowledge in the field, the APJO serves as an excellent platform where eye care specialists in the Asia-Pacific region can interact with the world's leading ophthalmologists.

The APJO is **indexed in MEDLINE/Index Medicus, Scopus, and ESCI (Emerging Sources Citation Index)**. It welcomes the submission of original and previously unpublished manuscripts, including clinical and basic scientific research, critical reviews on pertinent topics, perspectives giving personal viewpoints on topics with broad interests, and letters to the editor.

Contact information:

Editorial Office

Email: [apjo-mail@apaophth.org](mailto:apjo-mail@apaophth.org)

To submit manuscripts to the *Asia-Pacific Journal of Ophthalmology*, visit:

<http://www.apjo.org/>



# International Fellowship Program

## Our Vision • Your Education

The APAO International Fellowship Program (IFP) provides selected young ophthalmologists in the Asia-Pacific region with the opportunity to further their education by improving their clinical skills, surgical experience and research skills at internationally renowned training centers around the world.

### Details

- *Up to 5 fellowships are offered per year in any subspecialty area.*
- *Fellowships can last for 3 or 12 months.*
- *Fellows are matched with 1 of 13 internationally renowned training centers in different countries in the Asia-Pacific region and beyond.*
- *Fellows can receive up to US\$1000 for airfare and an allowance of US\$200 per month.*

### Eligibility Requirements

- *Applicants should be from an APAO member nation.*
- *They must have completed basic residency training in ophthalmology.*
- *They should be younger than age 40.*
- *Applicants must also have at least one original scientific publication in an indexed peer-reviewed journal.*



**Dr. Suria Sudhakaran**  
2017 APAO International Glaucoma Fellow  
– Jules Stein Eye Institute, UCLA



Scan the QR Code for more information.  
<http://www.apaophth.org/fellowship-program/>

# APAO NAMED AWARDS & LECTURES

## JOSE RIZAL MEDAL

The Jose Rizal Medal recognizes an outstanding ophthalmologist annually for his/her excellence in ophthalmology in the Asia-Pacific region. This medal was instituted to commemorate Dr Jose Rizal, an ophthalmologist who became a national hero of the Philippines.



**Tien-Yin WONG,**  
MPH, PhD  
Singapore

**Prof Tien-Yin Wong** completed medical school from the National University of Singapore (NUS) as a President's scholar, clinical residency training in ophthalmology at the Singapore National Eye Centre (SNEC), and medical retinal fellowships at the University of Wisconsin, Madison, USA and the University of Sydney, Australia. He obtained his MPH and PhD from the Johns Hopkins University, Baltimore, USA.

He is currently Academic Chair and Medical Director at the SNEC, one of the largest tertiary eye hospitals in Asia, with a faculty of 70 ophthalmologists managing 350,000 outpatient visits and 40,000 surgeries and procedures annually. SNEC's research division, the Singapore Eye Research Institute (SERI), is a leading eye research institute, with 200 research faculty and staff producing more than 3000 peer-reviewed publications since its inception. Prof Wong has served as SERI's Executive Director (2009-2013), and is currently Chairman of its Board. Prior to this, Prof Wong was Chair of the Department of Ophthalmology, NUS, and Chair of Department of Ophthalmology, Royal Victorian Eye and Ear Hospital, University of Melbourne, Australia.

Prof Wong is a retinal specialist, with a clinical and research focus on macular and retinal diseases, particularly on diabetic retinopathy and age-related macular degeneration. He leads a broad-based research program comprising epidemiological, clinical and translational studies of retinal diseases, particularly Asian diseases, and on the application of retinal imaging. He has published over 1200 peer-reviewed papers (h-index of 128), including papers in the *New England Journal of Medicine*, *The Lancet*, *The Journal of the American Medical Association (JAMA)*, and *Nature*. He has given more than 400 invited named, plenary, and symposium lectures globally, and received over US\$50 million in grant funding from multiple national and international agencies. He is a two times recipient of the Singapore Translational Researcher (STaR) Award (2008 and 2014), the highest award for the most senior clinician-scientists in Singapore.

Prof Wong is currently on the editorial boards of *JAMA-Ophthalmology*, *Ophthalmologica*, and the *Journal of Hypertension* and previously on editorial boards of *American Journal of Ophthalmology*, *Diabetes Care*, *Investigative Ophthalmology & Visual Sciences (IOVS)*, and *British Journal of Ophthalmology*. He is a Board or Council member of the International Council of Ophthalmology



(ICO), the Asia-Pacific Academy of Ophthalmology (APAO), the Asia-Pacific Vitreo-retinal Society (APVRS), the Macula Society, the Academy of Medicine Singapore, the National Medical Research Council Singapore, and is currently the President of the College of Ophthalmologists, Singapore and the Asia-Pacific Ocular Imaging Society (APOIS).

For his leadership and contribution, Prof Wong has been recognized with numerous awards. He has been awarded the top researcher from two leading universities: the Outstanding Researcher Award from the NUS (winning it twice, 2004 and 2009) and the Woodward Medal from the University of Melbourne (2005). He has received the Alcon Research Institute Award, USA, the Commonwealth Health Minister's Award for Excellence in Health and Medical Research, the Australian Society of Medical Research AMGEN Medical Research of the Year Award, the Arnall Patz Medal from the Macula Society, USA and the Senior Achievement Awards from both the American and Asia-Pacific Academies of Ophthalmology. He has given numerous named lectures, including the De Ocampo Lecture from APAO, the Tano Lecture from the APVRS, the Euretina Lecture from the European Society of Retina Specialists, the Fred Hollows Lecture from the Australian Ophthalmic and Visual Sciences, and the Sir Runme Shaw Memorial Lecture of the Academy of Medicine Singapore. He has received the National Outstanding Clinician Scientist Award, the President's Science Award and the President's Science and Technology Award, the highest awards for scientific and academic contribution in Singapore.

## **The War on Diabetic Retinopathy: Where are We Now?**

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### **Updates on Diabetic Retinopathy**

**Mar 6, 2019**

**11:00-12:30**

**Plenary Hall 3**

Diabetic retinopathy (DR) is a major complication of diabetes, and the leading cause of blindness among working adult population worldwide. Approximately 600 million will have diabetes by 2040, with a third having DR and 7-10% with diabetic macular edema (DME).

Over the past 3 decades, there have been major developments in tackling DR, with improved understanding of the underlying epidemiology and pathophysiology, with new approaches to prevention, screening and management. First, there is clearer understanding of the major risk factors for DR, paving the way for broad targeted systemic management. Second, there is a shift in management in DR, with increasing recognition that the previous "gold standard" treatment – laser photocoagulation therapy – does not improve vision and a significant proportion of patients continue to have worsening of vision despite laser. In this context, landmark clinical trials have provided the evidence that intravitreal anti-vascular endothelial growth factor (anti-VEGF) therapy is superior to laser and is now standard of care for DME. Third, there is rapid development in ocular imaging, particularly spectral-domain optical coherence tomography (OCT) and OCT-angiography, for risk stratification of patients with DR and DME, allowing better prognosis and management. Finally, DR screening is a universally accepted strategy for the prevention of visual impairment. DR screening technology by fundus photography, usually within a tele-ophthalmology framework, has improved screening reach to communities. Artificial intelligence has substantial potential for DR screening, with new deep learning systems showing superior performance. Despite these major advances, the "war" is not yet won, and there continues to be challenges. Many patients in the community with DR are unaware of their condition, and many countries do not have well-established screening programs. Anti-VEGF therapy continues to be expensive, and new drugs are needed to tackle non-responders and have not shown superior efficacy. This lecture will cover progress made and challenges that remain in our continuing battle with DR.



## APAO ICO MARK TSO GOLDEN APPLE AWARD FOR THE BEST CLINICAL TEACHER IN OPHTHALMOLOGY IN THE ASIA-PACIFIC REGION

Initiated by the International Council of Ophthalmology (ICO) as a token of the ICO's commitment to improving ophthalmic education worldwide, the ICO Mark Tso Golden Apple Award honors the most dedicated teacher of clinical ophthalmology in the Asia-Pacific region. It is named after Prof Mark OM Tso, immediate past ICO Director of Education.



**Ke YAO,**  
MD  
China

**Prof Ke Yao** is the current President of Chinese Ophthalmological Society, Member of Academia Ophthalmologica Internationalis, the Chief of Eye Institute of Zhejiang University, China and the Chief of Eye Center, 2<sup>nd</sup> Affiliated Hospital of Zhejiang University School of Medicine, China. He earned his Medical Degree with honors at Shanghai Second Medical University in 1988. Then he finished his 2-year fellowship at the University Eye Hospital in Basel, Switzerland. He was invited to the United States as visiting scholar twice for a total of 6 months.

Prof Yao has a special interest in anterior segment eye diseases. In the early 1990s, he was the first surgeon to design and use the asphero-iseikonic intraocular lens (IOL) in clinic nationwide in China. In order to recognize Prof Yao's contribution on IOL development, he got the Chinese National Award of Science and Technology Progress in 1990, which is the highest honor in science and technology in China. He was also one of the first surgeons to perform cataract phacoemulsification in China, invented the manual small-incision cataract surgery to lower the surgical cost for patients and improved the technique for combined viscocanalostomy and phacoemulsification surgery.

Besides the President of Chinese Ophthalmological Society, Prof Yao also serves as the Board of Trustees Member of International Council of Ophthalmology (ICO), Vice-President of the Asia-Pacific Association of Cataract & Refractive Surgeons (APACRS), President of the Chinese Cataract Society, Regional Secretary and Council Member of Asia-Pacific Academy of Ophthalmology (APAO), Fellow of Academy of Asia-Pacific Professors of Ophthalmology (AAPPO), and the only ophthalmologist from mainland China nominated as a member of the International Intra-Ocular Implant Club, which is the world-famous organization for top and elite cataract surgeons.

Prof Yao has received a number of awards in recognition of his work. He got the Alfred-Vogt Award, the highest ophthalmology award in Switzerland in 1990, the Chinese National Award of Science and Technology Progress in both 1990 and 2007, the APACRS Gold Award, APACRS Certified Educator Award, US-Sino Ophthalmology Golden Key Award and US-Sino Ophthalmology Golden Apple Award etc. So far, he and his team have received over 30 national and provincial grants.

Prof Yao has published 362 clinical and scientific papers in Chinese and

English with 164 articles published in peer-reviewed international journals. He has also obtained 10 national patents by now. He is the Editor-in-Chief of the Chinese textbooks “Surgeries in Complicated Cases of Cataract” and “Micro and Small Incision Cataract Surgery”, the Editor-in-Chief of *Chinese Journal of Ophthalmology* (Chinese), *Ophthalmology in China* (Chinese) and regional Managing Editor of EyeWorld China, the Deputy Editor-in-Chief of *Chinese Journal of Experimental Ophthalmology* (Chinese), *International Journal of Ophthalmology*, and the Editor of *Asia-Pacific Journal of Ophthalmology* and *Translational Vision Science and Technology*. Besides, Prof Yao was also invited to be the reviewer for *Ophthalmology*, *IOVS*, *Scientific Reports*, *American Journal of Ophthalmology*, *British Journal of Ophthalmology*, *Molecular Vision*, *The Journal of Cataract & Refractive Surgery*, *Journal of Clinical and Experimental Ophthalmology*, *PLOS One*, and so on.

Prof Yao is dedicated to teaching and training thousands of cataract surgeons from 33 provinces throughout China. Meanwhile, he also devoted himself to the successive charity activities. He founded the “Mobile Eye Hospital” in 1996, over 20 years, Prof Yao and his team did more than 11,000 free cataract operations for poor patients. In recognition of his contributions to blindness prevention, in 2016, Prof Yao was awarded the Chinese Physician Prize, which is the highest award of Ministry of Health-approved Chinese Medical Doctor Association.

## Cataract Surgery in China: Femtosecond Laser-Assisted Cataract Surgery (FLACS)

### Conquering the Rock-Hard Cataract

Mar 6, 2019

09:00-10:30

Plenary Hall 2

With the rapid development of China's economy and aging process, China is still one of the countries with the most serious blindness and visual impairment in the world. Therefore, it is a great challenge to cure cataract blindness. In the past 5 years, the volume and cataract surgical rate in China have been steadily improved. In 2017, there were 3.05 million cases of cataract surgery in China, with cataract surgical rate reaching 2205.

The use of femtosecond lasers in cataract surgery has recently become popular. In 2010, LenSx is approved by the Food and Drug Administration in the United States, and in 2013, approved by the China Food and Drug Administration for clinical using in China. There are more than 150 hospitals to practice this new procedure and more than 20,000 cases of femtosecond laser-assisted cataract surgery (FLACS) in China in 2016. In our eye center, there are more than 1000 FLACS cases each year, accounting for 10% of the overall cataract surgeries last year.

Femtosecond laser technology was used to perform lens fragmentation, anterior capsulotomy, and self-sealing corneal incisions in cataract surgery. The FLACS technology offers numerous advantages over current surgical techniques. Two recent meta-analyses found that FLACS was more effective than conventional phacoemulsification in reducing endothelial cell loss and postoperative central corneal thickening and that it achieved better visual outcomes. In addition, a study about hard nucleus cataract showed that, compared with conventional phacoemulsification surgery, FLACS can save phacoemulsification power and reduce corneal edema and endothelial cell loss, which provides faster visual rehabilitation in patients with hard-nucleus cataracts. However, pre-existing dry eye patients who underwent FLACS had more severe ocular surface staining than those with conventional phacoemulsification. Besides, femtosecond laser-created clear corneal incisions (CCIs) caused more surgically induced astigmatism than manually created CCIs, which could have resulted from inaccurate or uncertain corneal incision positioning of the femtosecond machine. Therefore, we should treat FLACS dialectically.

## HOLMES LECTURE

The Holmes Lecture is the highest award for exceptional contributions to preventive ophthalmology, especially in the prevention of blindness in the Asia-Pacific region. The Holmes Lecture is named in memory of Dr William J Holmes, the founding Secretary-General of APAO.



**Nila MOELOEK,**  
MD, PhD  
Indonesia

**Prof Nila Moeloek** is currently serving as the Minister of Health, Republic of Indonesia, a post that she has been holding since 2014. Prior to that, she was Indonesian President's Special Envoy on the Millennium Development Goals (MDGs) from 2010 to 2014. Under her leadership, Office of President's Special Envoy on MDGs designed, developed and implemented Pencerah Nusantara program – an innovative, social movement in the field of health, particularly primary health services (Puskesmas) in a number of remote and underserved areas in Indonesia; Indonesia MDG Awards from 2011 to 2014; and an online Partnership Map for Development which contains data of cross-sector and multi-actor partnerships for achieving the MDGs. Some of these innovative programs continue to be developed and implemented on a larger scale during her current tenure as the Minister of Health.

As a professor at the Faculty of Medicine University of Indonesia, Prof Moeloek has authored more than 250 scientific works in the form of papers and books. Furthermore, she has been active in chairing a number of high-profile organizations in Indonesia, such as Chairperson of Women's Organization Dharma Wanita, President of Indonesian Ophthalmologists Association, and President of Indonesian Cancer Foundation.

Prof Moeloek earned a degree as an ophthalmologist at the Faculty of Medicine University of Indonesia. She then earned a PhD degree in ophthalmology (with cum laude) in 2003. In 2007, she was appointed as professor of the Faculty of Medicine University of Indonesia.

Currently, she is still serving as a board member of the Partnership for Maternal, Newborn and Child Health (PMNCH), an international organization established to implement the United Nations Secretary General's strategic initiatives for promoting maternal and child health across the world. In addition, she is also serving as an advisory board member of EAT Forum – a global initiative focusing on the issues of food, health, and sustainability.

## Tumor of the Eye in Indonesia

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### Recent Advances in Orbital and Oculoplastics

Mar 7, 2019

11:00 -12:30

Lotus Room

The healthy eye is a prerequisite requirement for the better quality of human resources. The Right to Sight, Vision 2020 program is the target and challenge for everyone in the eye health field. The most critical factor is the constant development of knowledge and the practicality of the system which will help to decrease the number of patients with eye disease, whether it is caused by infection, degenerative diseases, congenital, trauma, and tumor.

Tumor of the eye has unknown causes and requires comprehensive management. The ideal situation is early detection to prevent the unwanted result of radical treatment. Unlike cataract, the treatment of an eye tumor on most occasions ends in blindness, aesthetic issues or even worse, death in patients with malignancy. The expectation of patients with eye tumor is the highest among other eye problems.

Blindness from eye tumor is mostly caused by the eyelid and conjunctival tumor (68%). It might look simple as it is easily seen in these 2 areas, yet causes the highest rate. We can only imagine how hard it is for a patient to agree to have their eye taken out, even exenteration. These radical surgeries will permanently change their aesthetic appearance, hence their life.

In Dr. Cipto Mangunkusumo Hospital, an Indonesian national referral hospital, the rate of exenteration is as high as 12-18 eyes/year (2016-2018). We can ask ourselves some questions: Shall we study neoplasms in molecular biology aspect or influence our people's way of thinking to come as early as possible?

## NAKAJIMA AWARD

Aimed at encouraging young ophthalmologists to play a more active role in ophthalmological development, the Nakajima Award honors young individuals for their outstanding international work in ophthalmology. The candidate should preferably be aged 40 years or younger and actively involved in international activities that assist in the development of ophthalmology, particularly in relation to prevention of blindness, ophthalmic service, and research pertinent to major blinding conditions such as cataract, diabetic retinopathy, glaucoma, corneal grafting, keratomalacia, trachoma, and corneal ulcer.



**Jason YAM,**  
FRCS (Edin),  
FCOphth (HK)  
Hong Kong

**Dr Jason Yam** is Head of Paediatric Ophthalmology and Strabismus Services at the Hong Kong Eye Hospital, and Assistant Professor at the Chinese University of Hong Kong. He is well trained in Pediatric Ophthalmology and Strabismus, as well as Pediatric Ocular Genetics. He has completed observerships on Pediatric Ophthalmology and Strabismus in Great Ormond Street Hospital (2011), with Dr David Guyton of Johns Hopkins Hospital (2011), and with Dr Kenneth Wright in Los Angeles (2012); ocular genetics with Dr Janey Wiggs of Harvard Medical School (2016), with Dr Alex Levin of Wills Eye Hospital (2017), and Baylor College of Medicine at Texas Children Hospital (2017); and retinoblastoma with Dr Carol Shields of Wills Eye Hospital (2017).

Dr Yam has contributed enormously to developments in children eye care throughout the Asia-Pacific region, and also globally. In 2016, he was elected the Secretary-General of Asia-Pacific Strabismus and Paediatric Ophthalmology Society (APSPPOS) at the age of 35. In 2017, he has initiated and was subsequently elected as Congress President of the Inaugural APSPPOS Congress held in Hong Kong, with attendance of over 400 delegates from 20 countries. This set up the model of APSPPOS Congresses to be held every 2 years at different Asia-Pacific locations. In 2016, Dr Yam has co-founded the Hong Kong Paediatric Ophthalmology and Strabismus Group, which subsequently became society member of the International Paediatric Ophthalmology and Strabismus Council (IPOSOC) and World Society of Paediatric Ophthalmology and Strabismus (WSPOS). He was also elected the Society Representative of APSPPOS in the International Council of Ophthalmology (ICO), IPOSOC Council Representative (Hong Kong), and WSPOS Non-strabismus Leader, International Committee of American Association for Paediatric Ophthalmology and Strabismus (AAPOS), and Council Member of Chinese Paediatric Ophthalmology Society in China, and Treasurer of Hong Kong Ophthalmological Society.

Dr Yam served as the Pediatric Ophthalmology & Strabismus Subspecialty Liaison of World Ophthalmology Congress (WOC) consecutively in 2016 and 2018, Pediatric Ophthalmology & Strabismus Subspecialty Secretary of Asia-Pacific Academy of Ophthalmology (APAO) Congresses in 2016, 2017, 2019, and Congress Secretary and Pediatric Ophthalmology & Strabismus Subspecialty Host Coordinator of APAO Congress Hong Kong in 2018, Advisory Committee of AsiaARVO Brisbane 2017, one of the organizers of AAPOS/CAPOS Congress

Shanghai 2017, AAPOS/APSPPOS/RANZCO Joint Congress Sydney 2019, JASA/JAPO Congress Japan 2019, and also Convener of Pediatric Ophthalmology & Strabismus Subspecialty Programme of 9<sup>th</sup> and 10<sup>th</sup> International Symposium of Ophthalmology in 2013 and 2014.

Dr Yam also serves in the ICO Society Relations & Leadership Development Committee, actively contributing to global society relations. He is the Secretary of APAO Public Education Committee, in charge of the public education development in the whole Asia-Pacific region. He is committed to teaching and training, serving in the APAO Ophthalmic Education Committee, and is in charge of undergraduate medical student teaching and subspecialty fellowship program in pediatric ophthalmology at his university.

Dr Yam has dedicated himself to pediatric ophthalmology research too. He has received over US\$6.5 million in research funding. Notably, his Low-Concentration Atropine for Myopia Progression (LAMP) trial was the first placebo-controlled randomized controlled trial of 438 subjects to provide evidence for 0.05% atropine on myopia control, which confers clinical impact to millions of children worldwide. He is the Principal Investigator of Hong Kong Children Eye Study, an epidemiological cohort of 30,000 children and their parents for detailed phenotypic and genotypic characterization. He has authored over 40 publications, 1 book, and 3 book chapters in children eye diseases. He has chaired 16 symposia, and has delivered 3 keynote lectures, 30 invited lectures, and presented 45 conference papers. Dr Yam serves as editorial members of 5 international journals, and has been bestowed 10 international awards, including APAO Distinguished Service Award, and Inaugural APSPPOS Young Investigator Award.

## Combating Myopia – From Epidemiology to Clinical Interventions

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### Prevention of Myopia Progression

Mar 7, 2019

09:00-10:30

Meeting Room 2

Myopia is a global health threat. By year 2025, it is predicted approximately 50% and 10% of world's population being myopic and highly myopic, respectively. Notably, high myopia is associated with sight-threatening complications, including presenile cataract, glaucoma, retinal detachment, and choroidal neovascularization etc. A comprehensive approach to study its prevalence, risk factors, and clinical interventions is important for effective myopia control. In this lecture, the author will present his works on myopia, including Hong Kong Children Eye Study (HKCES) and Low-concentration Atropine for Myopia Progression (LAMP) Study.

05

The HKCES is an ongoing population-based cohort of children aged 6-8 years and their parents. Our first phase has determined the prevalence and risk factors of childhood myopia, together with its parental influences. Entering into our second phase, the cohort is recruiting a total of 30,000 families for detailed phenotype and genotype evaluations, and bio-bank establishment.

The LAMP Study is the first placebo-controlled randomized controlled trial of 438 children aged 4 to 12 years on low-concentration atropine of 0.05%, 0.025%, 0.01%, and placebo. Our first phase has proven that low-concentration atropine is effective compared with placebo control, and that 0.05%, 0.025%, and 0.01% atropine reduce myopia progression along a concentration-dependent response, and were all well tolerated. Compared with placebo group at 1 year, 0.05%, 0.025% and 0.01% atropine eye drops confer a respective reduction of 67%, 43%, 27% in spherical equivalent progression, and 51%, 29%, 12% in axial length elongation.

# APAO AWARDS

## DISTINGUISHED SERVICE AWARDS

The Distinguished Service Awards are presented to ophthalmologists of APAO's member organizations for their distinguished service to improving ophthalmology in their countries or tariff territories.



**Mark GILLIES**  
Australia



**Dipak NAG**  
Bangladesh



**Dongmei LI**  
China



**Shih-Jen CHEN**  
Chinese Taipei



**Jeffrey PONG**  
Hong Kong



**Santosh HONAVAR**  
India



**Budu BUDU**  
Indonesia



**Mitsuko YUZAWA**  
Japan



**Sangchul YOON**  
South Korea



**Elias HUSSEIN**  
Malaysia



**Aye TUN**  
Myanmar



**Sudesh SUBEDI**  
Nepal



**Imran SAHAF**  
Pakistan



**Cesar ESPIRITU**  
Philippines



**Dan MILEA**  
Singapore



**Champa BANAGALA**  
Sri Lanka



**Wanicha  
CHUENKONGKAEW**  
Thailand



**Xuan Hiep NGUYEN**  
Vietnam



## OUTSTANDING SERVICE IN PREVENTION OF BLINDNESS AWARDS

The Outstanding Service in Prevention of Blindness Awards are given to individuals or organizations whose contributions are instrumental in prevention of blindness in the Asia-Pacific region.



**Craig DONALDSON**  
Australia



**Golam MOSTAFA**  
Bangladesh



**Chhour LONG**  
Cambodia



**Kanxing ZHAO**  
China



**Chi-Chun LAI**  
Chinese Taipei



**Jason YAM**  
Hong Kong



**Narpat SOLANKI**  
India



**Eunike CAHYANINGSIH**  
Indonesia



**Takeshi NAITO**  
Japan



**Hungwon TCHAH**  
South Korea



**Lee Ling CHIENG**  
Malaysia



**Min THANE**  
Myanmar



**Shree Ram SUBEDI**  
Nepal



**Garry BRIAN**  
New Zealand



**Abdul QAYYUM**  
Pakistan



**Philippine Academy  
of Ophthalmology  
- Retinopathy of  
Prematurity Working  
Group (PAO ROPWG)**  
Philippines



**Marcus ANG**  
Singapore



**Mangala GAMAGE**  
Sri Lanka



**Manthanee  
PAIRACHAVET**  
Thailand

## ACHIEVEMENT AWARDS

The APAO Achievement Award Program was established in 2008 to recognize individuals for their time and contribution to the scientific programs of the APAO Annual Congress.

### SENIOR ACHIEVEMENT AWARDS



**Gerd AUFFARTH**  
Germany



**Timothy LAI**  
Hong Kong



**Jyotirmay BISWAS**  
India



**Vishal JHANJI**  
United States



**Robert RITCH**  
United States

### ACHIEVEMENT AWARDS



**Celia CHEN**  
Australia



**Shuan DAI**  
Australia



**William ASTLE**  
Canada



**Wencan WU**  
China



**Mingzhi ZHANG**  
China



**Xinyuan ZHANG**  
China



**De-Kuang HWANG**  
Chinese Taipei



**Uwe PLEYER**  
Germany



**George CHENG**  
Hong Kong



**Wai-Kit CHU**  
Hong Kong



**Jimmy LAI**  
Hong Kong



**Alex NG**  
Hong Kong



**Vivek DAVE**  
India



**Nilutparna DEORI**  
India



**Rashmin GANDHI**  
India



**Naresh KANNAN**  
India



**Vikas KHETAN**  
India



**Mahesh KUMAR**  
India



**Nivean  
MADHIVANAN**  
India



**Minu MATHEN**  
India



**Diva MISTRA**  
India



**Sonai MUKHERJEE**  
India



**Akshay NAIR**  
India



**Raja NARAYANAN**  
India



**Nishant Vijay RADKE**  
India



**Rengaraj  
VENKATESH**  
India



**Hiroshi GOTO**  
Japan



**Akito HIRAKATA**  
Japan



**Yoshimune  
HIRATSUKA**  
Japan



**Kazuaki  
KADONOSONO**  
Japan



**Ryo KAWASAKI**  
Japan



**Hiroko TERASAKI**  
Japan



**Tsutomu YASUKAWA**  
Japan



**Jae Woo JANG**  
South Korea



**Hyong Gon YU**  
South Korea



**Martine JAGER**  
Netherlands



**Nadeem BUTT**  
Pakistan



**Sherman VALERO**  
Philippines



**Rupesh AGRAWAL**  
Singapore



**Anita CHAN**  
Singapore



**Graham HOLDER**  
Singapore



**Rahat HUSAIN**  
Singapore



**Li KELVIN**  
Singapore



**Yu-Chi LIU**  
Singapore



**Boon Long QUAH**  
Singapore



**Mohamad ROSMAN**  
Singapore



**Chelvin SNG**  
Singapore



**Clement TAN**  
Singapore



**Gavin TAN**  
Singapore



**Jerry TAN**  
Singapore



**Daniel TING**  
Singapore



**Louis TONG**  
Singapore



**Gary YAM**  
Singapore



**Neil BRESSLER**  
United States



**Michael CHIANG**  
United States



**Sophie DENG**  
United States



**Annmarie HIPSLEY**  
United States



**Suber HUANG**  
United States



**Bennie JENG**  
United States



**Sanjay PATEL**  
United States



**Peter ZLOTY**  
United States



## BEST SCIENTIFIC PAPER AWARDS

The Best Scientific Paper Awards are presented to outstanding free paper abstract(s) in each of the clinical subspecialties in the submitted program.

### Academia, Research, Teaching and Education in Ophthalmology



**Gemmy CHEUNG**  
Singapore

### Cataract



**Sudhir RACHAPALLE  
REDDI**  
India

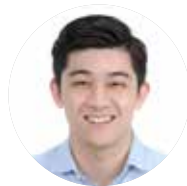


**Jeewan TITIYAL**  
India

### Cornea, External Eye Diseases & Eye Bank



**Shahrina MAHFOOZ**  
Bangladesh



**Tien-En TAN**  
Singapore



**Yu CAI**  
China



**Ki Ho PARK**  
South Korea

### Glaucoma

### Intraocular Inflammation, Uveitis & Scleritis



**Harvey UY**  
Philippines

### Neuro-Ophthalmology



**Honglu SONG**  
China

### Ocular Imaging



**Min WANG**  
China

### Ocular Oncology & Pathology



**Thitiporn  
THONGBORISUTH**  
Thailand

### Ophthalmic Epidemiology, Telemedicine, Big Data & AI



**Kelvin TEO**  
Singapore

### Orbital and Oculoplastic Surgery

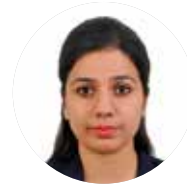


**Kasturi  
BHATTACHARJEE**  
India



**Stephanie YOUNG**  
Singapore

### Pediatric Ophthalmology & Strabismus



**Divya KISHORE**  
India

### Prevention of Blindness



**Watanee JENCHITR**  
Thailand

### Refractive Surgery



**AnnMarie HIPSLEY**  
United States

### Retina (Medical)



**Kiyoun KIM**  
South Korea



**Colin TAN**  
Singapore

### Retina (Surgical)



**Yuou YAO**  
China



**Vivek DAVE**  
India

### Translational Research in Ophthalmology



**Carla LANCA**  
Singapore

### Visual Sciences



**Ann KOSHY**  
India



## APAO YASUO TANO TRAVEL GRANTS

The APAO Yasuo Tano Travel Grants were established in 2010 in memory of the late APAO President Professor Yasuo Tano to offer financial support for young ophthalmologists to attend the APAO Annual Congress.



**Mukti MITRA**  
Bangladesh



**Vinh SUN**  
Cambodia



**Tsz-Kin NG**  
Hong Kong



**Vivek DAVE**  
India



**Kukuh PRASETYO**  
Indonesia



**Puspha RAMAN**  
Malaysia



**Santosh UPADHYAYA**  
**KAFLE**  
Nepal



**Maria MALGAPU**  
Philippines



**Madhuwanthi**  
**DISSANAYAKE**  
Sri Lanka



**Ha Thi Thu HA**  
Vietnam

# ARVO 2019

APRIL 28 – MAY 2 | VANCOUVER, BC



**Make plans to Join ARVO  
in Vancouver!**



[ARVO.org/AM](http://ARVO.org/AM)



**ARVO** | IMAGING IN THE EYE  
CONFERENCE

**April 26 – April 27, 2019**  
**Vancouver Convention Centre**  
**Vancouver, BC**

[ARVO.org/Imaging](http://ARVO.org/Imaging)

**The future of imaging**



*The Asia-Pacific Eye Care Week is an initiative to raise public awareness about eye care and eye health in the region. To that end, member societies are invited to organize various activities, which may include:*

- *Organize a screening event in your local institute / hospital*
- *Give lectures to patient support groups / the general public*
- *Participate in radio and TV shows to talk about any eye diseases and to answer questions*
- *Contact newspapers to publish information about eye care, eye health and/or any eye diseases*



# The official news publication of the APAO



In 2012, the Asia-Pacific Academy of Ophthalmology (APAO) partnered with SLACK Incorporated and OCULAR SURGERY NEWS (OSN) to launch **OCULAR SURGERY NEWS APAO Edition**, an innovative, web-based digital newspaper that is specifically formatted to be mobile-friendly and compatible with nearly any electronic device. Published 10 times a year, this newspaper is distributed to APAO's top organization of more than 50,000 ophthalmologists throughout the Asia-Pacific region, including China, India and Japan.

## FEATURES INCLUDE:

- APAO news
- Meeting highlights
- Commentary
- Ophthalmic business updates

## TOPICS INCLUDE:

- Refractive surgery
  - Cataract surgery
  - Glaucoma
  - Cornea/External disease
- And more!

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# PLENARY SESSIONS



## In Search of Excellence

As a highlight of the scientific program, the plenary session “In Search of Excellence” features some of the world’s leading experts who will present the latest development in their respective fields. In addition to keeping everyone abreast of the latest development regarding the new technologies, surgical techniques and treatment options available for patients, we hope that the plenary session will provide you good perspective on the current and overall ophthalmic development.

14:30 - 16:30 **Venue: Plenary Hall 2**

*Chair(s): Dennis **LAM**, Charles **McGHEE**, Paisan **RUAMVIBOONSUK***

- 14:30 Global Blindness: The Progress We are Making and Still Need to Make  
*Hugh **TAYLOR***
- 14:38 The Seven Myths of Artificial Intelligence in Ophthalmology  
*Tien-Yin **WONG***
- 14:46 The Results of Second Clinical Study Using HLA Matched Allogeneic iPS-RPE  
*Masayo **TAKAHASHI***
- 14:54 Myopia: Anatomic Changes and Consequences for Its Etiology  
*Jost **JONAS***
- 15:02 Is Refractive Blindness a Global Problem Worth Pursuing Surgically?  
*Ronald **KRUEGER***
- 15:10 The Rapid Transformation of Transplantation for Corneal Endothelial Diseases: An Evolution from Penetrating to Lamellar to Cellular Transplants  
*Charles **McGHEE***
- 15:18 Keratoprosthesis: Current Choices and Future Development  
*Christopher **LIU***

- 15:26 Disruptive Innovation & Refractive IOLs – How the Game will Change  
*David **CHANG***
- 15:34 Minimally Invasive Glaucoma Surgery versus Minimally Effective Glaucoma Surgery  
*Richard **PARRISH II***
- 15:42 Controlled Hypotony: New Strategy for Filtering Surgery Success  
*Prin **ROJANAPONGPUN***
- 15:50 Pachychoroid: Evolving Definition  
*Won Ki **LEE***
- 15:58 The Latest Developments on Anti-VEGF Treatment for Diabetic Macular Edema  
*Neil **BRESSLER***
- 16:06 Surgical Advancements in Treating Refractory Macular Hole  
*Dennis **LAM***
- 16:14 The Emerging Role of Molecular Genetics in the Treatment of Optic Nerve Tumors  
*Neil **MILLER***
- 16:22 Progress in Treating Inherited Retinal Diseases Using Gene Therapy  
*Elliott **SOHN***



# SUBSPECIALTY DAY

MAR  
06,  
2019  
(WED)

## Ocular Imaging

### AI in Ophthalmology Symposium: AI and Latest Developments in Ocular Imaging

The real-world application of artificial intelligence (AI), machine learning and deep learning (DL) has generated significant interest throughout the computer science and medical communities in recent years. Deep learning has revolutionized the computer vision field and achieved substantial jumps in diagnostic performance for image recognition, speech recognition, and natural language processing. In ophthalmology, this technique has shown promising diagnostic performance in detection of many ocular conditions, including diabetic retinopathy, glaucoma, and age-related macular degeneration. This session aims to cover the state-of-art AI screening technologies for slit lamp-, fundus- and optical coherence tomography (OCT)-based DL systems, the current challenges and future directions of AI implementations within the clinical practice.

09:00 - 10:30 **Venue: C Ground Meeting Room 1**  
Chair(s): Carol **CHEUNG**, Paisan **RUAMVIBOONSUK**, Daniel **TING**

- 09:00 AI for Detection of CI-DME from Retinal Images  
Paisan **RUAMVIBOONSUK**
- 09:09 AI in Retinal Photography: from Data to Approval of Government Regulator  
Sang Jun **PARK**
- 09:18 AI in OCT: Detection of Early Glaucoma  
Ryo **ASAOKA**
- 09:27 AI in Retinal Photography: Detection of Retinopathy of Prematurity  
Michael **CHIANG**
- 09:36 AI in Slit-Lamp Imaging: Visionome Technique  
Haotian **LIN**

- 09:45 AI in Smartphone Ophthalmoscopy: Screening DR  
Theodore **LENG**
- 09:54 AI in OCT: What is 3D Deep Learning?  
Hao **CHEN**
- 10:03 AI in Retinal Photography: Detection of Retinal Vascular Changes  
Carol **CHEUNG**
- 10:12 AI in Ophthalmology: Where are We Now? What is Next?  
Tien-Yin **WONG**
- 10:21 Panel Discussion

## Ophthalmic Epidemiology, Telemedicine, Big Data & AI

### AI in Ophthalmology Symposium: Deployment of AI for DR screening in the Real World

The emergence of deep learning offers great potential to revolutionise practice patterns in highly image-driven specialities of medicine including ophthalmology. This session aims to discuss how to translate this technology into community benefits in the context of DR screening.

11:00 - 12:30 **Venue: C Ground Meeting Room 1**  
Chair(s): Robert **CHANG**, Mingguang **HE**, Kornwipa **HEMARAT**

- 11:00 AI for DR Screening: Where Are We Now?  
Daniel **TING**
- 11:10 Head-to-Head Comparisons Between Deep Learning Vs. Human Graders in Nation-Wide DR Screening in Thailand  
Kornwipa **HEMARAT**
- 11:20 Deployment of AI for Real-World DR Screening in the Intermediate-Resourced Setting  
Elin **PEDERSEN**
- 11:30 Deployment of AI for Real-World DR Screening in The Low-Resourced Setting  
Jorge **CUADROS**
- 11:40 Deployment of AI for Real-World DR Screening in China  
Mingguang **HE**

06

SCIENTIFIC PROGRAM SCHEDULE



- 11:50 Comparison of Different AI Systems for DR Screening in UK  
*Adnan TUFAIL*
- 12:00 Deployment of AI for Real-World DR Screening in the USA, a Perspective from the FDA  
*Malvina EYDELMAN*
- 12:10 Questions and Answers



## Artificial Intelligence

### AI in Medicine Symposium: AI in Medicine I

Although ophthalmology may be the first field in medicine where artificial intelligence (AI) is shown to be able to detect certain ocular diseases, such as diabetic retinopathy, with very high accuracy. Other medical fields, such as radiology, pathology, dermatology, where imaging also comes to play important roles for screening, diagnosis, and management, also explores how to use AI to assist patient care in their fields. In this infancy stage of AI in medicine and healthcare, many studies in such fields also show promising results and potential to deploy AI in the real world in the near future. It would be very beneficial for patients if AI can bridge the gap and create seamless healthcare among different specialties. Challenges lying ahead would also be societal issues, such as data security, data sharing, approval, and deployment.

09:00 - 10:30 **Venue: C Ground Meeting Room 1**  
*Chair(s): Thanyanuch SANCHAT, Tarit TAERAKUL*

- 09:00 Key Point and Pitfalls for AI Development: Lessons from TB Screening Program  
*Krit PONGPIRUL*
- 09:10 AI for Genetic Study  
*Surakameth MAHASIRIMONGKOL*
- 09:20 Automated Pulmonary TB and Lung Cancer Screening from Chest X-Ray Using Deep Learning  
*Charturong TANTIBUNDHIT*
- 09:30 AI Cancer Recommendation  
*Charles DINNELL*
- 09:40 Application of Deep Learning in Detection of Metastatic Breast Cancer  
*Yun LIU*

- 09:50 Medical Image Synthesis and Analysis with Deep Learning  
*Hwiyoung KIM*
- 10:00 Enable AI in Health Care  
*Fred HERSCH*
- 10:10 AI in Healthcare: Bridging from Ophthalmology to Other Fields of Medicine  
*Dimitri AZAR*
- 10:20 Panel Discussion

### AI in Medicine Symposium: Predicting Systemic Disease with AI

The retina is the only organ of a body where we can actually see the appearance of blood vessels and nerve fibers in real time. Studies in the era before artificial intelligence (AI) had used changes in retinal calibers to assess cardiovascular risks. Recent studies in this era of AI use retinal images as windows to predict the risks of some other systemic diseases, not only cardiovascular. The accuracy of the prediction by AI in some studies is on par with the prediction by risk scores calculated from many risk factors. However, the "Black Box" issue on how AI analyzes retinal images to make the prediction still causes controversy.

13:00 - 14:00 **Venue: C Ground Meeting Room 1**  
*Chair(s): Pannet PANGPUTHIPONG*

- 13:00 Principles of Applying Retinal Images for Detecting Diseases Derived from Other Imaging Modality  
*Pinal BAVISHI*
- 13:10 Retinal Imaging with Artificial Intelligence for Screening Alzheimer's Disease  
*Carol CHEUNG*
- 13:20 Application of AI in Predicting Diabetes  
*Yih-Chung THAM*
- 13:30 Application of AI in Epidemiology in the Era of Big Data  
*Ching-Yu CHENG*
- 13:40 Application of AI for Predicting Cardiovascular Risk Factors  
*Avinash VARADARAJAN*
- 13:50 AI for Screening New Born Infants at Risk of Visual Loss  
*Jochen KUMM*

### AI in Medicine Symposium: AI in Medicine II

Although ophthalmology may be the first field in medicine where artificial intelligence (AI) is shown to be able to detect certain ocular diseases, such as diabetic retinopathy, with very high accuracy. Other medical fields, such as radiology, pathology, dermatology, where imaging also comes to play important roles for screening, diagnosis, and management, also explores how to use AI to assist patient care in their fields. In this infancy stage of AI in medicine and healthcare,

many studies in such fields also show promising results and potential to deploy AI in the real world in the near future. It would be very beneficial for patients if AI can bridge the gap and create seamless healthcare among different specialties. Challenges lying ahead would also be societal issues, such as data security, data sharing, approval, and deployment.

14:30 - 16:00 **Venue: C Ground Meeting Room 1**

*Chair(s):* Prapawan **CHAWAVANICH**, Fujisawa

**YASUHIRO**

14:30 Development and Validation of AI Algorithm  
*Panrasee* **RITTHIPRAVAT**

14:42 AI Assisted in Skin Cancer Screening on Smartphone Application  
*Saroj* **SUVANASUTHI**

14:54 Can Deep-Learning-Based, Computer-Aided Classifier Surpass Board-Certified Dermatologists in Skin Tumour Diagnosis?  
*Fujisawa* **YASUHIRO**

15:06 AI Computing-Accelerate Analysis of DNA Sequencing Data, e.g. Personalized Cancer Medicine, Process  
*Phairoj* **JATANACHAI**

15:18 Deep Learning for Large-Scale Digital Pathology Image Analysis  
*Hao* **CHEN**

15:30 3D Deeply Supervised Network for Automated Segmentation of Volumetric Medical Images  
*Pheng-Ann* **HENG**

15:42 Panel Discussion  
*Lily* **PENG**, *Daniel* **TING**

### AI in Medicine Symposium: Social Aspects of AI

This symposium aims to focus on issues surrounding deployment of artificial intelligence (AI) devices in healthcare systems around the world. Many of these, including security of patient data, are essential but frequently overlooked by many researchers and general public. These, as well as ethical and legal issues surrounding the rapidly evolving nature of Digital Health will be addressed. In addition, regulations instituted in the US and around the globe to foster worldwide Digital Health Innovation will be discussed.

16:30 - 18:00 **Venue: C Ground Meeting Room 1**

*Chair(s):* Malvina **EYDELMAN**, Boonchai **KIJSANAYOTIN**

16:30 Privacy and Data Ownership in the Age of Healthcare AI  
*Jochen* **KUMM**

16:40 Data Sharing and Standardization for AI  
*Boonchai* **KIJSANAYOTIN**

16:50 Blockchain and Data Sharing for AI  
*Robert* **CHANG**

17:00 Ethical & Legal Issues of AI in Medicine  
*Nawanan* **THEERA-AMPORN PUNT**

17:10 AI Approval: US FDA Perspectives  
*Malvina* **EYDELMAN**

17:20 AI Principles: Perspectives from A Tech Company  
*Jarom* **BRITTON**

17:30 The Roles of Open Source Data and AI  
*Jorge* **CUADROS**

17:40 Panel Discussion on Everything AI

## Translational Research in Ophthalmology

### AI in Ophthalmology Symposium: AI in the Future

A paradigm shift in ophthalmology is occurring due to rapid advancements in artificial intelligence. The accuracy of AI is high and steadily increasing in the diagnosis of diabetic retinopathy, glaucoma, and macular degeneration. AI is able to predict cardiovascular risk, blood pressure, gender, age, and refractive error. In the future, AI will become indispensable for the screening, diagnosis, and management planning for personalized medicine.

11:00 - 12:30 **Venue: C Ground Meeting Room 2**

*Chair(s):* Victor **CHONG**, Robert **RITCH**, Boonsong **WANICHWECHARUNGRUANG**

11:00 The Future of Deep Learning in Ophthalmic Imaging  
*Naama* **HAMMEL**

11:12 The Next Generation of Smart High Precision Micro-Therapeutics  
*Tsoncho* **IANCHULEV**

11:24 AI for Detection of Brain and Optic Nerve Conditions  
*Dan* **MILEA**

11:36 Deep Learning Systems for Detection of Glaucoma Using Optic Disc  
*Ningli* **WANG**

11:48 Application of AI for Glaucoma Using OCT  
*Michael* **GIRARD**

12:00 Comparison of the Deep Learning Systems for Detection of Age-Related Macular Degeneration  
*Neil* **BRESSLER**

12:12 AI for Prediction of Cardiovascular Disease Using Retinal Imaging  
*Tien-Yin* **WONG**

# INVITED SYMPOSIUMS

MAR  
06,  
2019  
(WED)

## Academia, Research, Teaching and Education in Ophthalmology

### APAO-ICO Sessions for Educators: How do Trainees Become Competent Surgeons? How It's Done in Different Countries

Training in ophthalmic surgery is an important part of the ophthalmology education. It is also a very complicated process. It is often a challenge to strike a balance between the learning need of the trainee and patient safety. The surgical curriculum usually involved didactic lecture of the surgical principles and practical hands-on session. The use of wet-lab using animal or cadaveric eye, and surgical simulator with simple tool to advance modern virtual reality have greatly improved the efficiency of skill acquisition and patient safety. Different countries in the world have different surgical training incorporating its education curriculum. This education symposium will provide a bird eye view of the global training approach of surgical training in ophthalmology.

09:00 - 10:30 **Venue: Boardroom 4**  
*Chair(s): Andrzej GRZYBOWSKI, Wai-Ching LAM, Manchima MAKORNWATTANA*

- 09:00 Surgical Training in Europe  
*Andrzej GRZYBOWSKI*
- 09:12 Surgical Training in USA  
*Shahzad MIAN*
- 09:24 Surgical Training in Canada and Hong Kong  
*Wai-Ching LAM*
- 09:36 Surgical Training in Australia and New Zealand  
*Charles MCGHEE*
- 09:48 Surgical Training in China  
*Mingzhi ZHANG*
- 10:00 Surgical Training in India  
*Avinash PATHENGAY*
- 10:12 Questions and Answers

## Cataract

### Conquering the Rock-Hard Cataract

Cataracts at the extreme end of the hardness scale are rightly categorized as 'Catarocks'! In this largely video-based symposium, we have put together an international faculty to cover the challenges and ways to overcome these most demanding cases. Newer techniques are also considered.

09:00 - 10:30 **Venue: Plenary Hall 2**  
*Chair(s): Ravindran RAVILLA, Sombat SRISUWANPORN, Ronald YEOH*

- 09:00 The ICO Mark Tso Golden Apple Award Lecture: Cataract Surgery in China: Femtosecond Laser-Assisted Cataract Surgery (FLACS)  
*Ke YAO*
- 09:18 Challenges of the 'Catarock'  
*Ronald YEOH*
- 09:30 Phacoing the Rock-Hard Cataract  
*Abhay VASAVADA*
- 09:42 Corneal Protection — OVD/Viscoelastic  
*Steve ARSHINOFF*
- 09:54 Manual Small Incision Cataract Surgery MICS  
*Haripriya ARAVIND*
- 10:06 Newer Strategies in Managing Hard Cataracts  
*David CHANG*
- 10:18 Strategies in the Developing World  
*Ravindran RAVILLA*

### Cataract Video Complications — You Make the Call

A series of video cases involving cataract & IOL surgical complications will be presented. The videos will be paused at specific points at which the audience will vote (with audience response pads) on management decisions. The options will then be discussed by an expert panel who, like the audience, has not seen the cases. Two different panels of international faculty will rotate halfway through the session.

11:00 - 12:30 **Venue: Plenary Hall 2**  
*Chair(s): David CHANG, Dennis LAM, Pannet PANGPUTHIPONG*

- 11:00 Panel Discussion 1  
*Tetsuro OSHIKA, Richard PACKARD, Seng Ei TI, Patrick VERSACE*

11:45 Panel Discussion 2  
Mahipal **SACHDEV**, Victoria **WONG**, Ke **YAO**,  
Ronald **YEOH**

## Cornea, External Eye Diseases & Eye Bank

### Anterior Lamellar Keratoplasty

Anterior lamellar keratoplasty (ALK) deftly avoids one of the main complications in keratoplasty, namely, endothelial allograft rejection, and as a result, enables longer-term graft survival rates, but brings new surgical challenges and complications. This symposium introduces the evidence for long-term graft success rates in ALK and then focuses on surgical challenges, complications, and their management, as well as alternative or adjunctive surgical technologies to assist in this complex, but ultimately rewarding form of keratoplasty.

09:00 - 10:30 **Venue: Ballroom**  
Chair(s): Rajesh **FOGLA**, Usanee **REINPRAYOON**, Donald **TAN**

- 09:00 Long-term DALK Outcomes in the Singapore Corneal Transplant Registry  
Anshu **ARUNDHATI**
- 09:15 Managing Complications in DALK Surgery  
Rajesh **FOGLA**
- 09:30 B. B. DALK Rescue of Perforations at the Very Beginning of the Operations  
Tarek **KATAMISH**
- 09:45 Repeat DALK in Stromal Dystrophies  
Donald **TAN**
- 10:00 Hemi-Automated Lamellar Keratoplasty  
Jodhbir **MEHTA**
- 10:15 iOCT Guided DALK and DMEK  
Namrata **SHARMA**

### Cornea Society Symposium: Evaluation & Treatment of Ectatic Corneal Disease

Keratoconus and post refractive ectasia have undergone a revolution over the last decade, both in diagnostics and therapeutics. The symposium will address both changes and advances in imaging, and both surgical and non-surgical treatments, with specific emphasis on corneal collagen crosslinking and when to intervene in the pediatric keratoconic patient.

11:00 - 12:30 **Venue: Ballroom**  
Chair(s): Michael **BELIN**, Bennie **JENG**, Woranart **TATTIYAKUL**

- 11:00 Keratoconus is a Non-Inflammatory Thinning Disorder: Maybe Not  
Rohit **SHETTY**

11:10 New Ways to Characterize Ectatic Disease: Out with the Old  
Michael **BELIN**

11:20 Questions and Answers

11:25 Non-Surgical Management of Keratoconus  
Bennie **JENG**

11:35 Pediatric Keratoconus: CXL at Time of Diagnosis is the Best Option  
Pooja **KHAMAR**

11:45 Pediatric Keratoconus: Watchful Waiting is in the Patient's Best Interest  
Juan **ABAD**

11:55 Questions and Answers

12:00 Diagnosis and Management of Post-Refractive Ectasia  
Vishal **JHANJI**

12:10 Beyond DALK: Evolving Surgical Techniques for Ectatic Disease  
Shahzad **MIAN**

12:20 Questions and Answers

## Glaucoma

### Angle Closure

This symposium provides a comprehensive yet practical guide to the management of primary angle closure glaucoma (PACG), presented by experienced clinicians with world-recognized expertise from around the globe. Recent research in PACG will also be featured.

09:00 - 10:30 **Venue: Plenary Hall 1**  
Chair(s): Tin **AUNG**, Seng Kheong **FANG**, Boonsong **WANICHWECHARUNGRUANG**

09:00 Laser PI for Narrow Angles: The ZAAP Trial  
Mingguang **HE**

09:10 Surgical Options for Chronic PACG  
Naris **KITNARONG**

09:20 RCT of Phaco-GSL vs Phaco for PACG  
Rahat **HUSAIN**

09:30 RCT of Location for Laser Iridotomy to Reduce Visual Disturbance  
Rengaraj **VENKATESH**

09:40 Automated Angle Classification Based on Volumetric Parameters of Anterior Chamber: An SS-OCT Study  
Wenbin **HUANG**

09:50 Subtypes of ACG: The Evidence  
Joon Mo **KIM**

10:00 Zonule Weakness in ACG  
Hiroshi **SAKAI**

10:10 Blindness Following Acute Primary Angle Closure In North China  
*Shuning LI*

10:20 TBC  
*Sybil DORAIRAJ*

### New Frontiers in Glaucoma: From Bench to Bedside

This symposium addresses various new aspects in the etiology of glaucomatous optic neuropathy, including a potential role of angiopoietin-1 for the development of Schlemm's canal, a potential role of microglial cells, new forms of glaucoma drug delivery, new aspects in the pathogenesis of glaucomatous optic disc hemorrhages and in the biomechanics of the optic nerve head, and new developments in medical glaucoma therapy.

11:00 - 12:30 **Venue: Plenary Hall 1**  
*Chair(s): Jost JONAS, Claire MITCHELL, Ngamkae RUANGVARAVATE*

11:00 Angiopoietin-1 is Required for Schlemm's Canal Development in Mice and Humans  
*Janey WIGGS*

11:10 Linking Elevated IOP to Inflammatory Signals  
*Claire MITCHELL*

11:20 The Origins of Repopulated Microglia in the Brain and the Retina  
*Bo PENG*

11:30 Drug Delivery Systems for Glaucoma Management  
*Tina WONG*

11:40 The Role of Sleep Apnea and Sleep Position in Glaucoma Progression  
*Robert RITCH*

11:50 New Frontiers in the Biomechanics of the Optic Nerve Head  
*Michael GIRARD*

12:00 New Frontiers in the Etiology of Optic Disc Hemorrhages  
*Ki Ho PARK*

12:10 New Frontiers in the Medical Therapy of Glaucoma  
*Megumi HONJO*

### Intraocular Inflammation, Uveitis & Scleritis

#### Clinical Cases Based Diagnosis and Treatment of Infectious Uveitis Prevalent in Asia-Pacific Region

11:00 - 12:30 **Venue: Meeting Room 4**  
*Chair(s): Somasheila MURTHY, Narsing RAO, Somsiri SUKAVATCHARIN*

11:00 Tuberculous Sclera-Uveitis: Diagnosis and Treatment  
*Somasheila MURTHY*

11:10 Tuberculous Granulomatous Anterior Uveitis Differentiation from Ocular Sarcoidosis  
*Kalpna MURTHY*

11:20 Tuberculous Retinal Vasculitis: Diagnosis and Treatment  
*Somsiri SUKAVATCHARIN*

11:30 Management of Paradoxical Reaction in Tuberculous Choroiditis  
*Narsing RAO*

11:40 Diagnosis and Treatment of Tuberculous Uveitis in HIV Patients  
*Jyotirmay BISWAS*

11:50 Diagnosis and Treatment of Acute Viral Retinal Necrosis and Its Complications  
*Hiroshi GOTO*

12:00 Management Approaches to Syphilitic Uveitis  
*Sutasinee BOONSOPON*

12:10 Diagnosis and Treatment of Atypical Toxoplasmic Retinochoroiditis  
*Wantanee SITTIVARAKUL*

12:20 Panel Discussion

### Miscellaneous

#### APAO Leadership Development Program 2019-20 Orientation Class 1

Open to APAO LDP Class 2019-20 Participants only.

09:00 - 10:30 **Venue: Auditorium**  
*Chair(s): Catherine GREEN, Shaheeda MOHAMED*

09:00 Opening Remarks  
*Catherine GREEN*

09:05 Welcome by APAO President-Elect  
*Ningli WANG*

09:15 Welcome by APAO Secretary-General  
*Clement THAM*

09:25 Introduction of the APAO Leadership Development Program: Faculty, Structure, Learning Objectives, and Requirements  
*Catherine GREEN*

09:45 Participant Introductions and Introduction to Leadership: Group Activity  
*Marcus ANG, Madhuwanthi DISSANAYAKE, Shaheeda MOHAMED, Muhammad MOIN, Sherman VALERO*



## APAO Leadership Development Program 2019-20 Orientation Class 2

Open to APAO LDP Class 2019-20 Participants only.

11:00 - 12:30 **Venue: Auditorium**

*Chair(s): Muhammad MOIN, Sherman VALERO*

- 11:00 Your LDP Project  
*Shaheeda MOHAMED*
- 11:15 Perspectives from a Recent LDP Graduate  
*Vivek DAVE*
- 11:30 Project Planning  
*Madhuwanthi DISSANAYAKE, Shaheeda MOHAMED, Muhammad MOIN, Sherman VALERO*
- 11:50 What Makes a Great LDP Project?  
*Madhuwanthi DISSANAYAKE, Shaheeda MOHAMED, Muhammad MOIN, Sherman VALERO*
- 12:10 SWOT Analysis in Project Planning  
*Madhuwanthi DISSANAYAKE, Shaheeda MOHAMED, Muhammad MOIN, Sherman VALERO*

## Neuro-Ophthalmology

### Anomalous Optic Discs: Not Just Something to be Admired!

In general ophthalmology or neuro-ophthalmology clinics, it is not uncommon to encounter patients with anomalous optic discs, with or without visual loss. In this symposium, the diagnosis and management of various forms of anomalous optic discs (including disc elevations/excavations, hypoplastic and tilted discs) will be discussed.

09:00 - 10:30 **Venue: Meeting Room 3**

*Chair(s): Hyosook AHN, Neil MILLER, Juthamat WITTHAYAWEEERASAK*

- 09:00 Anomalous Disc Elevation 1: Superficial and Deep Drusen  
*Anthony ARNOLD*
- 09:15 Anomalous Disc Elevation 2: Without Drusen  
*Prem SUBRAMANIAN*
- 09:30 Anomalous Disc Excavation 1: The Morning Glory Syndrome  
*Karl GOLNIK*
- 09:45 Anomalous Disc Excavation 2: Colobomas, Pits, and the Papillorenal Syndrome  
*Neil MILLER*
- 10:00 Hypoplastic Discs  
*Mahesh KUMAR*
- 10:15 Tilted Discs  
*Hyosook AHN*

## What's New in Anterior Segment Imaging?

This symposium will provide an overview of recent advances in anterior segment imaging covering a wide spectrum of clinical applications from the ocular surface, cornea to glaucoma diagnosis. This will include an overview of anterior segment imaging technology and interpretation, an update on advances in corneal imaging including meibography, confocal microscopy, aqueous outflow, advances in angle imaging for diagnosis of glaucoma, ultrasound biomicroscopy and optical coherence tomography angiography. Attendees will learn about the recent technological advances in anterior segment and corneal imaging, clinical application, and appropriate imaging modality selection, clinical interpretation of images, advances in image analysis and future developments of imaging tools in clinical practice.

11:00 - 12:30 **Venue: Meeting Room 3**

*Chair(s): Marcus ANG, Leopold SCHMETTERER, Napaporn TANANUVAT*

- 11:00 OCT Angiography of the Anterior Segment  
*Marcus ANG*
- 11:15 UHR OCT of the Aqueous Outflow Pathway  
*Leopold SCHMETTERER*
- 11:30 Meibography  
*Reiko ARITA*
- 11:45 Confocal Microscopy  
*Olan SUWAN-APICHON*
- 12:00 Chamber Angle Imaging — Does It Replace Gonioscopy?  
*Clemens VASS*
- 12:15 Ultrasound Biomicroscopy  
*Alina Popa CHERECHEANU*

## Ocular Oncology & Pathology

### Uveal Melanoma

11:00 - 12:30 **Venue: Lotus Room**

*Chair(s): Tero KIVELA, Bin LI, Jianhong LIANG*

- 11:00 The Case of Ciliary Body Occupied Lesion Manifested as Anterior Chamber Tumor  
*Bin LI*
- 11:15 Uveal Melanoma in Singapore: Diagnosis, Management and Molecular Testing  
*Anita CHAN*
- 11:30 Usefulness of SS-OCT in Differential Diagnosis of Small Uveal Melanoma  
*Bozena ROMANOWSKA-DIXON*
- 11:45 Surgical Resection of Uveal Tumors  
*Jianhong LIANG*



12:00 BAP1 Tumor Disposition Syndrome  
*Tero KIVELA*

12:15 Ophthalmic Manifestations of Acute Leukaemia  
*Nadeem BUTT*

## Orbital and Oculoplastic Surgery

### 2019 APAO Oculoplastic Video Cram Course

This symposium will showcase step-by-step videos from common, challenging to complicated surgical scenarios by oculoplastic experts from around the world. Participants with different surgical experience and interest may find this symposium an intense refresher course.

09:00 - 10:30 **Venue: Lotus Room**  
*Chair(s): Kelvin Kam-Lung CHONG, Raveewan CHOONTANOM, Timothy SULLIVAN*

09:00 Non-Incisional, Small Incisional to Standard Approach Double-Eyelid Operations  
*Jae Woo JANG*

09:05 Surgical Rejuvenation of the Lower Eyelid and Midface  
*Jeremiah TAO*

09:10 Aesthetic Management of the Canthi  
*Juan YE*

09:15 Expanding Armamentarium for Brow Elevation  
*Julian PERRY*

09:20 Graded, Upper and Lower Lid Recession in Thyroid Associated Orbitopathy  
*Huifang ZHOU*

09:25 5 Flaps for Periocular Reconstruction  
*Timothy SULLIVAN*

09:30 Optic Canal Decompression — Different Indications and Different Strategies  
*Wencan WU*

09:35 Optic Nerve Sheath Fenestration  
*Catherine HWANG*

09:40 Palpebral to Extracranial Reconstruction in Orbitotemporal Neurofibromatosis  
*Renbing JIA*

09:45 Orbital Advancement in Craniosynostosis  
*Kasturi BHATTACHARJEE*

09:50 Exenteration — From Operative Variations to Rehabilitation  
*Santosh HONAVAR*

09:55 Managing Orbital Vascular Malformation  
*Honglei LIU*

10:00 Personalising Orbital Decompression  
*Regine Yien-Ching CHAN*

10:05 Staged Vs Combining Surgeries for Paralytic Lagophthalmos  
*Pimkwan JARU-AMPORN PAN*

10:10 Small Incision, Anterior and Posterior Levator Surgeries for Ptosis Correction  
*Darmayanti SISWOYO*

10:15 Questions and Answers

## Pediatric Ophthalmology & Strabismus

### APSPoS Symposium: Challenging Cases in Pediatric and Strabismus

This session comprises a series of case-based presentations by presenters from around the globe highlighting interesting and difficult problems in the fields of pediatric ophthalmology and strabismus.

09:00 - 10:30 **Venue: Meeting Room 2**  
*Chair(s): Justin MORA, Miho SATO, Sorot WUTTHIPHAN*

09:00 NiKo Eye Test: A New Test to Visually Assess Children with Neurodevelopmental Disorders  
*Nikolas KOZEIS*

09:08 Anti-Elevation Syndrome  
*Giovanni MARCON*

09:16 A Lady with Intractable Diplopia After Strabismus Surgery  
*Chong-Bin TSAI*

09:24 Orbital Floor Fracture with Congenital SOP  
*Miho SATO*

09:32 Q & A

09:40 Which Pediatric Glaucoma Surgery in an Only Eye?  
*Justin MORA*

09:48 Congenital Idiopathic Enlargement of an Extraocular Muscle  
*Takashi NEGISHI*

09:56 Sagging Eye Syndrome  
*Narisa RATTANALERT*

10:04 Strabismus in Orbital Myositis  
*Huban ATILLA*

10:12 Questions and Answers

### Dangerous Diplopia in Children

Double vision can be the result of benign or life-threatening aetiologies. This symptom is of significant concern, especially in the pediatric population. In this symposium, we will discuss the practical approaches to assessing diplopia in children. Important life-threatening and sight-threatening conditions will be discussed.

11:00 - 12:30 **Venue: Meeting Room 2**  
*Chair(s): Lekskul **APATSA**, Celia **CHEN**, An-Guor **WANG***

- 11:00 How do We Approach Horizontal Diplopia?  
*Jeong-Min **HWANG***
- 11:10 How do We Approach Vertical Diplopia?  
*Hui-Chen **CHENG***
- 11:20 Differentiating Infantile Onset Strabismus  
 from Cranial Neuropathies  
*Celia **CHEN***
- 11:30 Supranuclear and Nuclear Lesions  
*An-Guor **WANG***
- 11:40 Cavernous Sinus Lesions  
*Sharon **TOW***
- 11:50 Isolated Cranial Nerve Paresis in Children  
*Neil **MILLER***
- 12:00 Orbital Lesion and Myopathies  
*Atchareeya **WIWATWONGWANA***
- 12:10 Childhood Myasthenia  
*Rashmin **GANDHI***

## Prevention of Blindness

### Prevention of Blindness at the Policy Level

11:00 - 12:30 **Venue: Boardroom 4**  
*Chair(s): Prut **HANUTSAHA**, Ivo **KOCUR***

- 11:00 WHO and Cooperation Among Member  
 Countries  
*Ivo **KOCUR***
- 11:12 National Myopia Control Plan in China  
*Ningli **WANG***
- 11:24 Universal Coverage Scheme and National  
 Drug List, Thailand Experience  
*Prut **HANUTSAHA***
- 11:36 Inequality in Eye Care  
*Koichi **ONO***
- 11:48 Mongolia's Progress in Eye Care  
*Chimgee **CHULUUNKHUU***
- 12:00 Fiji-Setting and Implementing National  
 Priorities for Eye Care  
*Luisa **RAUTO***
- 12:12 Nepal Eye Program and the Apex Body for  
 Eye Health  
*Sanduk **RUIT***

## Refractive Surgery

### Tips & Tricks for Successful Refractive Surgeries

The speakers in this session are world leaders in their topic. They will share with us their vast experience and how they achieve their best results as well as avoid problems.

09:00 - 10:30 **Venue: Meeting Room 1**  
*Chair(s): John So Min **CHANG**, Choun-Ki **JOO**, Vilavun **PUANGSRICHARERN***

- 09:00 Tips & Tricks for SMILE  
*Sri **GANESH***
- 09:12 Tips & Tricks for LASIK  
*Sabong **SRIVANNABOON***
- 09:24 Tips & Tricks for Phakic IOL  
*Kimiya **SHIMIZU***
- 09:36 Tips & Tricks for Corneal Implants  
*Minoru **TOMITA***
- 09:48 Tips & Tricks for Refractive Presbyopic  
 Treatment  
*Klaus **DITZEN***
- 10:00 Tips & Tricks for Cross-Linking  
*Ngamjit **KASETSUWAN***
- 10:12 Tips & Tricks for Refractive Lens Exchange  
*Samaresh **SRIVASTAVA***

## SMILE

11:00 - 12:30 **Venue: Meeting Room 1**  
*Chair(s): Ekket **CHANSUE**, Sri **GANESH**, Kishore **PRADHAN***

- 11:00 Comparison of Visual Outcomes of Dissection  
 VS No Dissection Technique in SMILE  
*Sri **GANESH***
- 11:12 Astigmatic Correction Using SMILE  
*Tommy **CHAN***
- 11:24 Gas Bubble Sign — A New Intraoperative  
 Sign to Predict Optical Quality of Vision After  
 SMILE  
*Sheetal **BRAR***
- 11:36 SMILE for Hyperopic Treatment  
*Kishore **PRADHAN***
- 11:48 SMILE Enhancement  
*Ekket **CHANSUE***
- 12:00 Is There Still Room for LASIK/PRK after  
 SMILE?  
*Gaurav **LUTHRA***

- 12:12 Management of SMILE Complications  
Jodhbir **MEHTA**
- 12:24 Questions and Answers

## Retina (Medical)

### The Unmet Need in Retinal Diseases

The effective treatments for retinal diseases are leading to improvement of patient's vision. However, many of them still have unmet medical needs. The repetition of anti-VEGF injection becomes the global burden of retinal disease. Reducing a number of injections by using either extended drug delivery system or longer action anti-VEGF is attractive. Beyond prevention of disease progression in dry AMD, explicit therapies for dry AMD are discovered. Lastly, treatments for desperate diseases such as CRAO and inherited retinal diseases will be discussed in this session.

09:00 - 10:30 **Venue: Plenary Hall 3**  
Chair(s): R.V. Paul **CHAN**, Kazuaki **KADONOSONO**, Somanus **THOONGSUWAN**

- 09:00 CRAO: Retinal Anterior Embolectomy  
Kazuaki **KADONOSONO**
- 09:10 Management of CRAO & CRVO in Neurologist Perspective  
Yongchai **NILANONT**
- 09:20 CRAO & BRAO: From Hyperbaric Physician's Point of View  
Chamchan **CHANCHANG**
- 09:30 Complement and Dry AMD: Where do We Stand with Therapies?  
Don Il **HAM**
- 09:40 Extended Drug Delivery Systems for Anti-VEGF Agents  
Jennifer **KANG-MIELER**
- 09:50 HAWK and HARRIER 2 Year Results: Potential for Better Disease Control  
Adrian **KOH**
- 10:00 Progress in Treating Inherited Retinal Diseases Using Gene and Stem Cell Therapy  
Elliott **SOHN**

### Updates on Diabetic Retinopathy

Blindness from diabetic retinopathy continues to be a major public health issue and is often preventable. This symposium will cover updates in the challenges of diagnosis and treatment of diabetic proliferative retinopathy and maculopathy. Disruptive technology using artificial intelligence in diabetic screening is exciting. In the present era of anti-VEGF therapy, new drugs and strategies in managing treatment-resistant maculopathy will be discussed. The treatment options of macular edema in the context of cataract surgery will be considered.

11:00 - 12:30 **Venue: Plenary Hall 3**  
Chair(s): Andrew **CHANG**, Roy **CHUMDERMPAETSUK**, Pearse **KEANE**

- 11:00 Jose Rizal Medal Lecture: The War on Diabetic Retinopathy: Where are We Now?  
Tien-Yin **WONG**
- 11:11 Epidemiology of Diabetic Retinopathy  
Ryo **KAWASAKI**
- 11:22 Clinically Applicable Deep Learning for OCT — The Moorfields-Deepmind Collaboration  
Pearse **KEANE**
- 11:33 Screening Strategies and AI  
Taraprasad **DAS**
- 11:44 Practical Points for Treatment of DME  
De-Kuang **HWANG**
- 11:55 Conbercept for Management of DME and PDR  
Youxin **CHEN**
- 12:06 Refractory DME to Anti-VEGF  
Andrew **CHANG**
- 12:17 Cataract Surgery in Diabetic Patients: Pre-Operational, Intra-Operation, and Post-Operational Care  
Ravindran **RAVILLA**

## Retina (Surgical)

### Management of Anterior Segment Surgery Complications

Complications of anterior segment surgery are frequently co-managed with the vitreoretinal surgical team. This symposium highlights common complications and surgical management options currently available. It would be suitable for all grades of ophthalmologists especially trainees, vitreoretinal surgery fellows, and general ophthalmologists.

09:00 - 10:30 **Venue: Meeting Room 4**  
Chair(s): Kenneth **FONG**, Rajiv **RAMAN**, Pakitti **TAYANITHI**

- 09:00 Post Surgical Intraocular Inflammation  
Parthoprattim **DUTTA MAJUMDER**
- 09:10 Post Surgical Endophthalmitis  
Hussain **KHAQAN**
- 09:20 Post-Operative Macula Edema  
Pakitti **TAYANITHI**
- 09:30 Tips on Handling Cataract Surgery Complications  
Manoharan **SHUNMUGAM**
- 09:40 Choroidal Haemorrhage and Effusion  
Doric **WONG**

- 09:50 Posterior Capsule Rupture and Dropped Lens  
*Ari DJATIKUSUMO*
- 10:00 Aphakia and Dislocated IOLs  
*Marie Joan LOY*
- 10:10 Combined Phaco and Vitrectomy: Pros and Cons  
*Dipak NAG*
- 10:20 Panel Discussion

## Visual Sciences

### Refractive Errors and Myopia: From Animal Models to Humans

Treatments to slow myopia progression, or even prevent it, are underway: this session reflects on the translation of findings from animal models and basic research to understanding how myopia develops, and the implementation of these findings into clinical research. We aim to explore the most recent science of why people become myopic, what treatments are new, and why are we using them.

09:00 - 10:30 **Venue: C Ground Meeting Room 2**  
*Chair(s): Chris HAMMOND, Wadakarn WUTHISIRI, Xiangtian ZHOU*

- 09:00 Learning Lessons from Large-Scale Genetic Studies of Myopia  
*Chris HAMMOND*
- 09:10 Does Near Work Induce Myopia: From Animal Model to Human  
*Xiangtian ZHOU*
- 09:20 Parental Myopic Status Associated with Myopia in Children  
*Jason YAM*
- 09:30 Prevention of Myopia  
*Audrey CHIA*
- 09:40 Biomarkers of Time Outdoors and Myopia  
*David MACKEY*
- 09:50 Environmental Effects on Development of Myopia  
*Govindasamy KUMARAMANICKAVEL*
- 10:00 Modulation of Eye Growth by Optical Defocus  
*Chi Ho TO*
- 10:10 Questions and Answers

### Global Eye Genetics Consortium (GEGC) Symposium

11:00 - 12:30 **Venue: C Ground Meeting Room 2**  
*Chair(s): La-Ongsri ATCHENEYASAKUL, Li Jia CHEN, Takeshi IWATA*

- 11:00 Novel Genes Identified for Inherited Retinal Diseases in Asian Population  
*Takeshi IWATA*
- 11:11 From Genome-Wide Association Studies to Mendelian Randomization: Opportunities for Understanding Ocular Disease Causality  
*Ching-Yu CHENG*
- 11:22 Can Ophthalmologist Diagnose a Rare Genetic Syndrome of Werner  
*Ahmed REDA*
- 11:33 Leber's Congenital Amaurosis in China  
*Zheng Qin YIN*
- 11:44 Role of GEGC, India Chapter in Promoting Eye Research  
*S NATARAJAN*
- 11:55 Successful Treatment of Secondary Choroidal Neovascularization Associated with Best Vitelliform Dystrophy with Anti-VEGF Therapy  
*Tharikarn SUJIRAKUL*
- 12:06 TBC  
*Amir Hossein MAHMOUDI*
- 12:17 Research as a Tool for Serving Community Eye Health Needs and Building International Collaboration  
*Gyan PRAKASH*

MAR  
07,  
2019  
(THU)

## Academia, Research, Teaching and Education in Ophthalmology

### ICO Education Symposium

09:00 - 10:30 **Venue: Boardroom 3**  
*Chair(s): Clare DAVEY, Prut HANUTSAHA, Berthold SEITZ*

- 09:00 Generational Teaching: Improving Understanding of the Millennial Generation  
*Tim ROBERTS*
- 09:11 Tools for Faculty Assessment  
*Eduardo MAYORGA*
- 09:22 The ICO Face-to-Face Resources for Faculty Development  
*Karl GOLNIK*

- 09:33 The ICO Online Resources for Faculty Development  
*Ana **PALIS***
- 09:44 Scholarship in Teaching (Research and Innovation in Medical Education)  
*Heather **MACK***
- 09:55 ICO Exams  
*Clare **DAVEY***
- 10:06 ICO Fellowships  
*Berthold **SEITZ***
- 10:17 Assessing the Program  
*Prut **HANUTSAHA***

### APAO-ICO Sessions for Educators: Competencies of a Good 21<sup>st</sup> Century Teacher

Aimed at anyone that teaches, the symposia will cover different topics regarding teaching in medicine. From assessing your learners' needs to assessing what they have learned, passing through strategies on how to make a better presentation, changing your strategies when teaching small and big groups and covering how to use technology to be a better teacher and reach more learners.

11:00 - 12:30 **Venue: Boardroom 4**  
*Chair(s): Supharat **JARIYAKOSOL**, Eduardo **MAYORGA**, Ana **PALIS***

- 11:00 Preparing and Giving Lectures  
*Ana **PALIS***
- 11:10 Small Group Teaching  
*Catherine **GREEN***
- 11:20 Teaching Practical Skills  
*Prashant **GARG***
- 11:30 Needs Assessment of Learners  
*Eduardo **MAYORGA***
- 11:40 Assessing Trainees  
*Charles **McGHEE***
- 11:50 Using Social Media  
*Helena **FILIBE***
- 12:00 Technology-Assisted Teaching  
*Chee-Chew **YIP***
- 12:10 Questions and Answers

### AAPPO Clinical and Experimental Ophthalmology Research Course 2019

This course explores the core skills required to undergo successful research; from developing research ideas through to presenting and publishing research outcomes. It will be of interest to all registrars and fellows involved in clinical research or submission of manuscripts to journals — including *Clinical and Experimental Ophthalmology*.

14:30 - 16:00 **Venue: Boardroom 4**  
*Chair(s): Salmaan **AL-QURESHI**, Victoria **CARTWRIGHT**, Charles **McGHEE***

- 14:30 Starting Out in Eye Research: Eureka, or Planning and Preparation  
*Charles **McGHEE***
- 14:45 Top 10 Pearls in Writing a Paper and Getting it Published  
*Tien-Yin **WONG***
- 15:00 How to Present a Talk at a Scientific Meeting  
*Salmaan **AL-QURESHI***
- 15:15 Predatory Publishing: What It is, and Why You Should Avoid It  
*Victoria **CARTWRIGHT***
- 15:30 How to Review a Paper and Why All Ophthalmologists Should Do it  
*Salmaan **AL-QURESHI***
- 15:45 Panel Discussion

### Cataract

#### Ophthalmic Premier League

The Ophthalmic Premier League will cover all there is on cataract surgery and its complications through videos. Various topics will be covered.

09:00 - 10:30 **Venue: Plenary Hall 2**  
*Chair(s): Amar **AGARWAL**, John So Min **CHANG**, Theeratep **TANTAYAKOM***  
*Moderator(s): Bennie **JENG**, Ronald **KRUEGER***

- 09:00 Introduction  
*Amar **AGARWAL**, John So Min **CHANG**, Theeratep **TANTAYAKOM***
- 09:04 PC Rupture Team: Bag in the Lens Implantation  
*Marie-Jose **TASSIGNON***
- 09:08 PC Rupture Team: Flap Motility Sign in PC Rupture  
*Rohit **PARKASH***
- 09:12 PC Rupture Team: IOL Scaffold  
*Mohan **RAJAN***
- 09:16 PC Rupture Team: Preventing PC Rupture in Soft Cataracts  
*Ronald **YEOH***
- 09:20 Panel Discussion  
*Robert **ANG**, Charles **McGHEE**, Tetsuro **OSHIKA***
- 09:24 Glued IOL / Yamane Team: Step by Step Mastering the Glued IOL Technique  
*Mahipal **SACHDEV***



- 09:28 Glued IOL / Yamane Team: Mastering the Beiko/Steinert Technique of Preventing Haptic Slippage  
*George BEIKO*
- 09:32 Glued IOL / Yamane Team: Step by Step Mastering the T Shaped Fixation Technique  
*Toshihiko OHTA*
- 09:36 Glued IOL / Yamane Team: Step by step Mastering the Yamane Technique  
*Shin YAMANE*
- 09:40 Panel Discussion  
*Suber HUANG, Nivean MADHIVANAN, Hungwon TCHAH*
- 09:44 Cornea / Iris Team: Problems and Solutions with Different Pupil Expansion Devices  
*Richard PACKARD*
- 09:48 Cornea / Iris Team: Single Pass 4 Throw Pupilloplasty  
*Gaurav LUTHRA*
- 09:52 Cornea / Iris Team: IFIS — Tips and Tricks to Master  
*Steve ARSHINOFF*
- 09:56 Cornea / Iris Team: Pseudophakic Bullous Keratopathy Managed with PDEK  
*Lional DANIEL RAJ PONNIAH*
- 10:00 Panel Discussion  
*Vishal JHANJI, Shigeru KINOSHITA, Namrata SHARMA*
- 10:04 Devices Team: Trocar AC Maintainer  
*Athiya AGARWAL*
- 10:08 Devices Team: Rings and Segments Used to Manage Subluxated Cataract  
*Soon-Phaik CHEE*
- 10:12 Devices Team: Multi-Purpose Mask in Complex Cataracts  
*Burkhard DICK*
- 10:16 Devices Team: Presbyopia IOL  
*Gerd AUFFARTH*
- 10:20 Panel Discussion  
*S NATARAJAN, Ritika SACHDEV, Hugh TAYLOR*
- 10:24 Conclusion  
*Bennie JENG, Ronald KRUEGER*

### New Technologies for Cataract Surgery

This symposium will update the attendees on the latest in cataract surgery tools and intraocular lens implants. The session includes a debate on the available capsulotomy technologies.

11:00 - 12:30 **Venue: Plenary Hall 2**  
*Chair(s): Soon-Phaik CHEE, Burkhard DICK, Thanapong SOMKIJRUNGROJ*

- 11:00 EDOF IOLs on Trial: Latest Clinical Results  
*Tim SCHULTZ*
- 11:12 New IOL Technology  
*Gerd AUFFARTH*
- 11:24 Update on Latest Trends in Adjustable IOL Technology  
*Burkhard DICK*
- 11:36 New Tools  
*Sumitra KHANDELWAL*
- 11:48 Intraoperative OCT  
*Thanapong SOMKIJRUNGROJ*
- 12:00 Capsulotomy Debate: Pro-Femto  
*Soon-Phaik CHEE*
- 12:10 Capsulotomy Debate: Pro-Zepto  
*David CHANG*
- 12:20 Capsulotomy Debate: Pro-CAPSULaser  
*Richard PACKARD*

### Hitting the Refractive Target — Sphere & Cylinder

14:30 - 16:00 **Venue: Plenary Hall 2**  
*Chair(s): George BEIKO, Sabong SRIVANNABOON, Marie-Jose TASSIGNON*

- 14:30 Indication for Diffractive-Toric IOLs  
*Gerd AUFFARTH*
- 14:38 Hitting the Refractive Target After RK  
*George BEIKO*
- 14:46 Managing Unhappy Patients After Toric IOL Implantation  
*Patrick VERSACE*
- 14:54 Femtosecond Laser Catracat Surgery in Patients with Astigmatism/(Toric Outcomes with FLACS and Barrett Formula)  
*Seng Ei TI*
- 15:02 Preventing Toric IOL Misalignment/Alignment and Repositioning  
*David CHANG*
- 15:10 Role of the Anterior Interface in the Final IOL Position  
*Marie-Jose TASSIGNON*
- 15:18 Hitting the Refractive Target in Combined Cataract and Keratoplasty Surgery  
*Jesper HJORTDAL*



## Cornea, External Eye Diseases & Eye Bank

### All Things Inflammatory of the Anterior Segment

This symposium will provide essential aspects in various anterior segment inflammations that pose both diagnostic and clinical challenges. This will include common problems such as meibomian gland dysfunction, dry eye, and allergic conjunctivitis to diseases with potential visual threatening and associated with systemic illness such as Stevens-Johnson syndrome/toxic epidermal necrolysis, ocular cicatricial pemphigoid, peripheral ulcerative keratitis, and scleritis. Attendees will learn about an overview in diagnosis approach, an update on treatment, new surgical technique, as well as the pitfalls in management and interesting cases sharing.

09:00 - 10:30 **Venue: Ballroom**

Chair(s): Chie **SOTOZONO**, Napaporn **TANANUVAT**, Alvin **YOUNG**

- 09:00 Meibomian Gland Dysfunction  
Shizuka **KOH**
- 09:10 Inflammation You Can See and Measure in Dry Eye  
Louis **TONG**
- 09:20 Allergic Conjunctivitis — Beyond Topical Antihistamines and Steroids  
Colin **CHAN**
- 09:30 Management of Acute Ocular Complications in Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis  
Vilavun **PUANGSRICHARERN**
- 09:40 Epithelial Transplantation for Ocular Cicatricial Pemphogoid  
Chie **SOTOZONO**
- 09:50 Update on the Management of Peripheral Ulcerative Keratitis  
Alvin **YOUNG**
- 10:00 Pitfalls in the Management of Scleritis  
Napaporn **TANANUVAT**
- 10:10 The Unexplained Red Eye  
Srinivas **RAO**
- 10:20 Questions and Answers

### Indications, Techniques & Management of Keratoprosthesis

Keratoprosthesis advances over the last decade have taken a rarely performed procedure and moved it into the mainstream of Ophthalmology. While certain types of KPRO, such as OOKP, are only performed at a few major centers, others, such as the Boston KPRO, are much more commonly performed and within the scope of many corneal surgeons. This session will review the current status of all major available KPROs.

11:00 - 12:30 **Venue: Ballroom**

Chair(s): Michael **BELIN**, Suksri **CHOTIKAVANICH**, Yifei **HUANG**

- 11:00 Evaluation & Patient Selection for Keratoprosthesis  
Kimberly **SIPPEL**
- 11:09 Overview of Available Devices  
Rajesh **FOGLA**
- 11:18 Diagnosis & Management of the Boston KPRO  
Peter **ZLOTY**
- 11:27 Management of Infections after KPRO  
Suksri **CHOTIKAVANICH**
- 11:36 Non-Glaucoma Post-Surgical Complications & Management  
Bennie **JENG**
- 11:45 KPRO vs Limbal Stem Cell Therapy: Which One and When  
Sophie **DENG**
- 11:54 MICO KPRO: Techniques, Results and Complications  
Yifei **HUANG**
- 12:03 OOKP is Just TFH  
Christopher **LIU**
- 12:12 Tibial Bone Keratoprosthesis: Technique and Results  
Victor **CHAROENROOK**

### Endothelial Keratoplasty

Endothelial keratoplasty has transformed the surgical management of corneal endothelial dysfunction, with the advent of DSAEK and DMEK, but surgical challenges still exist. This symposium introduces the indications for performing DSAEK versus DMEK, the evidence to support these newer forms of EK, and various new surgical approaches and challenges relating to performing DMEK in standard and more complex surgical scenarios.

14:30 - 16:00 **Venue: Ballroom**

Chair(s): Somporn **CHANTRA**, Francis **PRICE JR**, Donald **TAN**

- 14:30 Air Bubble Management in Endothelial Keratoplasty  
Somporn **CHANTRA**
- 14:42 Updates on DMEK — Evidence and Outcomes  
Marcus **ANG**
- 14:54 Choosing the Right Keratoplasty Technique for Endothelial Failure. Why, When and How  
Francis **PRICE JR**

- 15:06 DSEK in Eyes with ACIOLs: Outcomes Analysis to Guide ACIOL Management  
*Anthony ALDAVE*
- 15:18 Development of a Donor Tissue Holding Technique for DMEK Using a 25-Gauge Graft Manipulator  
*Akira KOBAYASHI*
- 15:30 Pull-through Endo-In DMEK Using a New DMEK Inserter — E-DMEK  
*Donald TAN*
- 15:42 Reverse Translational Research in Corneal Endothelial Dysfunction  
*Shigeru KINOSHITA*

### Eye Banking in 2019: Advances and Challenges

This symposium brings together global experts in the field to address key international challenges of particular relevance to the Asia-Pacific region. Contemporary advances and challenges to be discussed include regional and international trends in eye banking; changing perspectives on microbial contamination; a reappraisal of donors with systemic infection; Eye Bank preparation of tissue for lamellar surgery; and future opportunities for provision of the corneal endothelium.

16:30 - 18:00 **Venue: Ballroom**

*Chair(s): Charles McGHEE, Chia-Li PANG, Lalida PARIYAKANOK*

- 16:30 Development of the Singapore Eye Bank in the Evolving Healthcare Landscape?  
*Chia-Li PANG*
- 16:40 USA: Microbial Contamination in Eye Banking  
*Elmer TU*
- 16:50 Current Trends in Eye Banking in India  
*Namrata SHARMA*
- 17:00 Aspects of Corneal Transplantation and Eye Banking in Thailand  
*Lalida PARIYAKANOK*
- 17:10 Reappraisal of the Suitability of Corneas from Bacteremic Donors for Use in Corneal Transplants  
*Fung-Rong HU*
- 17:20 Eye Banking in Hong Kong — Recent Developments  
*Victoria WONG*
- 17:30 Eye Bank Preparation of Pre-Cut DSAEK/ DMEK Tissue and Risks of Microbial Contamination  
*Pierre GEORGES*
- 17:40 The Failing Endothelium: Future Alternatives to Endothelial Keratoplasty?  
*Jie ZHANG*
- 17:50 Panel Discussion

## Glaucoma

### WGA Symposium: Hot Topic in Glaucoma

This World Glaucoma Association symposium will focus on the current and emerging trends in glaucoma diagnosis and treatment. In topics that include basic science advances, structure and function of the optic nerve, new and enhanced diagnostics tests and surgical procedures, speakers will demonstrate how we can translate novel scientific advances into improved patient care today.

09:00 - 10:30 **Venue: Plenary Hall 1**

*Chair(s): Neeru GUPTA, Jeffrey LIEBMANN, Chaiwat TEEKHASAENEE*

- 09:00 The Genetic Underpinnings of Glaucoma  
*Tin AUNG*
- 09:10 Is Glaucoma a Brain Disease?  
*Xiulan ZHANG*
- 09:20 Macular Damage in Glaucoma  
*Ki Ho PARK*
- 09:30 Reducing Reliance on Perimetry  
*Jeffrey LIEBMANN*
- 09:40 Use of Anti-VEGF Agents in Glaucoma Surgery  
*Tomasz ZARNOWSKI*
- 09:50 Advances in Childhood Glaucoma  
*Xinghuai SUN*
- 10:00 Are MIGS Useful in Patients with Advanced Glaucoma?  
*Keith BARTON*
- 10:10 Tubes vs Trabeculectomy: Which is the Better Initial Incisional Surgery?  
*Paul CHEW*
- 10:20 Lymphatic Drainage from the Eye: A New Target for Therapy  
*Neeru GUPTA*

### Interdisciplinary Discussion: Glaucoma and Myopia

High myopia is an important risk factor for glaucomatous optic neuropathy, which, due to morphological particularities of highly myopic eyes, can be difficult to be detected and is easily overlooked. The symposium will address potential causes for the association between high myopia and glaucoma, pitfalls in the diagnosis of glaucoma in myopia, aspects of the glaucoma therapy including the target intraocular pressure, corneal refractive surgery in myopic eyes with glaucoma, and a potential association between axial length and intraocular pressure.

11:00 - 12:30 **Venue: Plenary Hall 1**

*Chair(s): Jost JONAS, Xiulan ZHANG*

- 11:00 Introduction  
*Xiulan ZHANG*
- 11:01 What is the Possible Pathogenesis of Glaucoma Combined with Myopia? Is there a Relationship Between Myopic Peripapillary Choroidal Atrophy and Glaucomatous Peripapillary Atrophy?
- 11:06 Panel Discussion  
*Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU*
- 11:19 What are the Challenges to Make Diagnosis on Glaucoma Among Highly Myopic Eyes?
- 11:24 Panel Discussion  
*Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU*
- 11:37 What Level of IOP do You Do Trabeculectomy (Trab) in Myopic Glaucoma with VF Progression? Or Never Do Trab in Myopic Eyes?
- 11:42 Panel Discussion  
*Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU*
- 11:55 What are the Pearls and Pitfalls of Laser Vision Correction in Patients with Glaucoma?
- 12:00 Panel Discussion  
*Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU*
- 12:13 Is Axial Length Enlargement in Myopic Eyes Related to Intraocular Pressure Change? Is It Necessary to Lower the IOP of Children with Increased Ocular Diopter and Axial Length?
- 12:18 Panel Discussion  
*Norman AQUINO, John So Min CHANG, Mingguang HE, Paul HEALEY, Tae Woo KIM, Ronald KRUEGER, Christopher LEUNG, Xiao Xia LI, Ian MORGAN, Prin ROJANAPONGPUN, Seang Mei SAW, Tetsuya YAMAMOTO, Xingtao ZHOU*

## MIGS for Glaucoma

Minimally invasive glaucoma surgery (MIGS) is a new genre of glaucoma surgical devices and procedures that are safer and less invasive than conventional glaucoma surgery. This session will provide an overview of the various types of MIGS devices, highlighting the important considerations in patient selection and surgical techniques. Current data on the efficacy of MIGS will also be discussed.

14:30 - 16:00 **Venue: Plenary Hall 1**  
*Chair(s): Somkiat ASAWAPHUREEKORN, Keith BARTON, Chelvin SNG*

- 14:30 MIGS: An Overview  
*Paul HEALEY*
- 14:40 ABIIC vs GATT  
*Ningli WANG*
- 14:50 Hydrus  
*Shamira PERERA*
- 15:00 Innfocus Microshunt  
*Chelvin SNG*
- 15:10 iStents  
*Nathan KERR*
- 15:20 Xen  
*Jui-Ling LIU*
- 15:30 Can Trab be Replaced by MIGS in Underdeveloped Countries?  
*Syed Imtiaz ALI*
- 15:40 Patient Selection for MIGS: Where It Makes Sense and Where Not?  
*Anton HOMMER*
- 15:50 Questions and Answers

## Secondary Glaucoma and Others

Management of secondary glaucoma is more challenging than that of primary glaucomas because of the diverse underlying causes which usually run a progressive downhill course. Both glaucoma and the underlying eye pathologies are sight-threatening per se. Besides lowering the intraocular pressure, the underlying ocular and systemic diseases also require treatment. Therefore, treatment of secondary glaucomas has to be individualized. In this session, glaucoma experts will discuss the update management of some common secondary glaucomas.

16:30 - 18:00 **Venue: Plenary Hall 1**  
*Chair(s): Ying HAN, Jimmy LAI, Kessara PATHANAPITOON*

- 16:30 Secondary Glaucoma with Keratoplasty  
*Kazuhiko MORI*
- 16:40 The Management of NVG  
*Jimmy LAI*
- 16:50 What We Can Do for the ICE?  
*Xiulan ZHANG*

- 17:00 Exfoliation Syndrome: A Potentially Preventable or Reversible Disease  
*Robert RITCH*
- 17:10 Glaucoma Associated with Sturge-Weber Syndrome  
*Atsuya MIKI*
- 17:20 Secondary Glaucoma with Uveitis  
*Ying HAN*
- 17:30 Real World Study of PSS  
*Chun ZHANG*
- 17:40 Updates on Management of Secondary Glaucoma Related to Silicone Oil  
*Dexter LEUNG*
- 17:50 Micropulse CPC to Treat Refractive Glaucoma  
*Makoto AIHARA*

## Intraocular Inflammation, Uveitis & Scleritis

### Current Imaging and Investigation Modalities in the Management of Uveitis

In this session, speakers from the around the Asia-Pacific region will highlight the importance of various imaging and investigation modalities in the management of uveitis. In particular, recent developments in optical coherence tomography imaging, fundus autofluorescence, choroidal imaging, multimodal imaging, and molecular techniques will be discussed.

09:00 - 10:30 **Venue: Meeting Room 4**  
*Chair(s): Youxin CHEN, Timothy LAI, Thanapong SOMKIJRUNGROJ*

- 09:00 Systemic Imaging Investigations for Uveitis  
*Thanapong SOMKIJRUNGROJ*
- 09:11 Fundus Autofluorescence in Posterior Uveitis  
*Hyeong Gon YU*
- 09:22 New Findings on Uveitis Using Multimodal Imaging  
*Liu YANG*
- 09:33 Enhanced Depth Imaging OCT of the Choroid in Uveitis  
*Rupesh AGRAWAL*
- 09:44 Multimodal Imaging of White Dot Syndromes: From Technology to Pathology  
*Xuan SHI*
- 09:55 OCT Angiography for the Management of Uveitis  
*Danny NG*

- 10:06 Molecular Techniques in the Diagnosis of Uveitis  
*De-Kuang HWANG*

- 10:17 Questions and Answers

### Challenges in Chronic Ocular Surface Inflammation

16:30 - 18:00 **Venue: Meeting Room 4**  
*Chair(s): Peter McCLUSKEY, Uwe PLEYER, Sukhum SILPA-ARCHA*

- 16:30 Steven-Johnson Syndrome: An Unsolved Issue...  
*Kalpana MURTHY*
- 16:45 Differential Diagnosis: Cicatrising Conjunctivitis and Ocular Pemphigoid: How Do We Sort This Out?  
*Peter McCLUSKEY*
- 17:00 Corneal Involvement in AKC and VKC When "Allergy" Threatens Vision  
*Stephanie WATSON*
- 17:15 Sclera on Fire – 10 Points You Have to Care for...  
*Uwe PLEYER*
- 17:30 Medical Treatment of Immune Mediated Ocular Surface Disorders: From Topical to Systemic  
*Harvey UY*
- 17:45 Panel Discussion

## Neuro-Ophthalmology

### What's New in Clinical Neuro-Ophthalmology?

Advances in basic and clinical research have led to a number of new treatments for the neuro-ophthalmic disease. Minimally invasive procedures, gene therapy strategies, and interventions to prevent ganglion cell death in the setting of ischemia are among the treatments being studied or now put to use for patients with previously intractable conditions. Technological advances are revealing new details of optic nerve structure and function that will help to formulate the treatments of the future as well.

09:00 - 10:30 **Venue: Meeting Room 3**  
*Chair(s): K KITTHAWEESIN, Prem SUBRAMANIAN, Yong ZHONG*

- 09:00 Evolving Concept of NMO VS MOG VS "Routine" Optic Neuritis  
*Dean CESTARI*
- 09:15 Current Status of Venous Sinus Stenting for Idiopathic Intracranial Hypertension  
*Prem SUBRAMANIAN*



- 09:30 The Genetics of Optic Nerve Tumors — Therapeutic Implications  
*Dan MILEA*
- 09:45 Current Status of Leber Hereditary Optic Neuropathy Treatment Trials  
*Wanicha CHUENKONGKAEW*
- 10:00 Current Status of Non-Arteritic Anterior Ischemic Optic Neuropathy Treatment Trials  
*Yong ZHONG*
- 10:15 OCT Angiography and Neuro-Ophthalmologic Disorders  
*Parima HIRUNWIWATKUL*

### Neuroimaging for the General Ophthalmologists: A Case-Based Workshop

Advances in neuroimaging technology over the past decade have dramatically improved our diagnostic capabilities and in the process have changed the paradigms for imaging in common neuro-ophthalmic conditions. This symposium highlights current imaging techniques and indications for their use, with illustrative case examples to demonstrate their value in clinical practice.

11:00 - 12:30 **Venue: Meeting Room 3**  
*Chair(s): Supanut APINYAWASISUK, Anthony ARNOLD, Jeong-Min HWANG*

- 11:00 Proptosis and Eyelid Swelling  
*Jeong-Min HWANG*
- 11:15 Pupil Involving CN3 Palsy  
*Anuchit POONYATHALANG*
- 11:30 Papilledema  
*Anthony ARNOLD*
- 11:45 Cranial Neuropathies  
*An-Guor WANG*
- 12:00 Stroke  
*Celia CHEN*
- 12:15 Optic Neuritis  
*Lynn GORDON*

### APAO–ASNOS Symposium: Neuro-Ophthalmology in Asia

16:30 - 18:00 **Venue: Meeting Room 3**  
*Chair(s): Linda HANSAPINYO, Satoshi KASHII, An-Guor WANG*

- 16:30 Ethambutol Toxic Neuropathy — Our Experience (Indonesia)  
*Syntia NUSANTI*
- 16:41 Neuro-Ophthalmology Training in India: Present and Future  
*Rashmin GANDHI*

- 16:52 Targeted Immunotherapy in Neuromyelitis Optica Spectrum Disorder: Recent Advances  
*Shihui WEI*
- 17:03 “Our Optic Neuritis” — A Different Way to View Asian Optic Neuritis  
*Buenjim MARIANO*
- 17:14 Investigation of Optic Neuritis  
*Clement TAN*
- 17:25 Is There an Association Between Sleep Apnea and Ischemic Optic Neuropathy?  
*Ming-Hui SUN*
- 17:36 Effect of Erythropoietin in the Treatment of Non-Arteritic Anterior Ischemic Optic Neuropathy  
*Hyun Taek LIM*
- 17:47 Challenging Cases in Neuro-Ophthalmology  
*Niphon CHIRAPAPAIAN*

## Ocular Imaging

### What’s New in Retinal Imaging?

Ocular imaging is a fast advancing field. In this session, experts in ocular imaging will summarize the latest developments in retinal imaging, including hardware, image processing methods as well as the impact of artificial intelligence on clinical practice. The application of imaging in specific disease areas common in Asia, such as pachychoroid diseases and myopia will also be discussed.

14:30 - 16:00 **Venue: Meeting Room 3**  
*Chair(s): Gemmy CHEUNG, Janejit CHOOVUTHAYAKORN, Srinivas SADDA*

- 14:30 An Overview of What’s New in Retinal Imaging  
*Srinivas SADDA*
- 14:42 Peripapillary Pachychoroid Syndrome  
*Nopasak PHASUKKIJJATANA*
- 14:54 New Retinal Image Processing Methods  
*Xinjian CHEN*
- 15:06 How is AI Going to Change the Retinal Specialist’s Practice  
*Adnan TUFAIL*
- 15:18 Advances in Imaging in High Myopia  
*Yasushi IKUNO*
- 15:30 A Practical Solution of Home Screening with Portable Retinal Self-Imaging Devices and Cloud Technology  
*Ho Wa LAI*
- 15:42 Multimodal Imaging for Choroidal Diseases  
*Roberto GALLEGÓ-PINAZO*

## Inaugural APOIS Symposium: Ocular Imaging in 2020 and in 20-Year Time

Asia-Pacific Ocular Imaging Society (APOIS) is newly organized and a new Associate Member Society of APAO. We aim to provide a platform in the Asia-Pacific region for ophthalmologists and visual scientists from around the world to meet, exchange and advance knowledge in ocular imaging. In this inaugural ceremony and symposium, our world-renowned speakers with expertise in ocular imaging will share the current update and the future of ocular imaging.

16:30 - 18:30 **Venue: Plenary Hall 2**

*Chair(s): Carol **CHEUNG**, Ki Ho **PARK**, Tien-Yin **WONG***

- 16:30 Welcome Message and Speech by President of APOIS  
*Tien-Yin **WONG***
- 16:35 How will Ocular Imaging Evolve in the Next 20 Years?  
*Srinivas **SADDA***
- 16:55 Ceremony
- 17:00 Wide Field Imaging: Now & Future  
*Ki Ho **PARK***
- 17:07 OCT-Angiography: Now & Future  
*Pearse **KEANE***
- 17:14 Swept-Source OCT: Now & Future  
*Gemmy **CHEUNG***
- 17:21 Choroidal Imaging: Now & Future  
*Jay **CHHABLANI***
- 17:28 Anterior Segment OCT: Now & Future  
*Christopher **LEUNG***
- 17:35 Corneal Imaging: Now & Future  
*Jin **YUAN***
- 17:42 Multi-Functional OCT: Now & Future  
*Yoshiaki **YASUNO***
- 17:49 Major OCT Lessons from DRCR.Net  
*Neil **BRESSLER***
- 17:56 AI in Ocular Imaging: Now & Future  
*Mingguang **HE***
- 18:03 Panel Discussion

## Ocular Oncology & Pathology

### APSOOP Symposium: Retinoblastoma

This symposium sponsored by the Asia Pacific Society of Ophthalmic Oncology & Pathology (APSOOP) brings together Ophthalmic Oncology experts from the Asia-Pacific region and shall provide an update of the regional/global prevalence and presentation

patterns of retinoblastoma, provide a brief review of current practical and international classification, highlighting the role of imaging and pathological considerations. Apart from addressing broad principles of management, challenging aspects of management including late presentation and orbital recurrences and their management shall be covered. Finally, newer pathogenetic observations and therapeutic modalities of intraarterial chemotherapy and intraocular therapy will be compared and contrasted with traditional systemic chemoreduction will be presented.

14:30 - 16:00 **Venue: Lotus Room**

*Chair(s): Ido Didi **FABIAN**, Rita S **SITORUS**, Gangadhara **SUNDAR***

- 14:30 Global Retinoblastoma Presentation 2017  
*Ido Didi **FABIAN***
- 14:41 Current Classification of Retinoblastoma  
*Boon Long **QUAH***
- 14:52 Intravenous vs Intraarterial Chemotherapy for Retinoblastoma  
*Fairooz Puthiyapurayil **MANJANDAVIDA***
- 15:03 Management of Vitreous Seeds and Anterior Chamber Seeds in Retinoblastoma  
*Santosh **HONAVAR***
- 15:14 The Pathogenesis and New Therapeutic Techniques of Retinoblastoma  
*Xianqun **FAN***
- 15:25 MRI Imaging and Pathological Correlation in Retinoblastoma  
*Phanthipha **WONGWAI***
- 15:36 Orbital Recurrence After Enucleation in Retinoblastoma  
*Rita S **SITORUS***
- 15:47 To Exenterate or Not to Exenterate — Some Interesting Cases  
*Gangadhara **SUNDAR***

### Orbit, Eyelid

16:30 - 18:00 **Venue: Lotus Room**

*Chair(s): Minas **CORONEO**, Hiroshi **GOTO**, Santosh **HONAVAR***

- 16:30 Ocular Surface Malignancies  
*Minas **CORONEO***
- 16:42 From Bench to Bed — An Update on Research of Eyelid Sebaceous Carcinoma in China  
*Renbing **JIA***
- 16:54 New Concepts of Ocular Surface Squamous Neoplasia in Indonesia  
*Hendrian **SOEBAGJO***
- 17:06 Sebaceous Gland Carcinoma of the Eyelid  
*Hiroshi **GOTO***



- 17:18 Application of Conjoint Fascial Sheath (CFS) Suspension in Severe Blepharoptosis in Children  
*Rui TIAN*
- 17:30 Flow Cytometry in the Diagnosis of Lymphoma and Lymphoproliferative Disorders  
*Satoru KASE*
- 17:42 What am I Doing for Orbital Tumors This Year?  
*Santosh HONAVAR*

## Ophthalmic Epidemiology, Telemedicine, Big Data & AI

### Big Data and Big Study

- 09:00 - 10:30 **Venue: Boardroom 4**  
*Chair(s): Somkiat ASAWAPHUREEKORN, Ching-Yu CHENG, Yuanbo LIANG*
- 09:00 Data Sharing and Blockchain  
*Robert CHANG*
- 09:10 UK Biobank Cohort: How does the Big Data Contribute to Ophthalmology  
*Chris HAMMOND*
- 09:20 nCRC Tools: Free, Do-It-Yourself Online Tools for Conducting and Managing Research and Epidemiological Project  
*Bandit THINKHAMROP*
- 09:30 Asian Eye Epidemiology Consortium: What did We Learn in the Past One Year  
*Ching-Yu CHENG*
- 09:40 45 and Up Study: From Data to Prediction  
*Mingguang HE*
- 09:50 EHR and Big Data in Ophthalmology  
*Michael CHIANG*
- 10:00 Mobile Apps as a New Way to Collect Big Data  
*Mohamed DIRANI*

## Orbital and Oculoplastic Surgery

### Oculoplastic Conditions and Techniques You Don't Want to Miss

This session will cover oculoplastic conditions like bleeding orbit, sebaceous cell carcinoma, numbness in CN V1, amyloidosis, orbital inflammation and caruncular masses. If these conditions are missed or misdiagnosed, it can result in significant morbidity or even mortality. We will also cover interesting surgical techniques including customized orbital decompression and orbital filler that conference delegates should not miss as well.

- 09:00 - 10:30 **Venue: Lotus Room**  
*Chair(s): Bunyada PUTTHIRANGSIWONG, Lay Leng SEAH, Hunter YUEN*
- 09:00 Customized Orbital Decompression for Exophthalmos and Diplopia In TAO  
*Yi WANG*
- 09:10 Dipping Platelets and Bleeding Orbits  
*Lakshmi MAHESH*
- 09:20 Numbness in CN V1: Signs of Bad Things  
*Daniel ROOTMAN*
- 09:30 Sebaceous Cell Carcinoma: The Big Picture  
*Weerawan CHOKTHAWEEESAK*
- 09:40 Recurrent Conjunctival Hyperemia with Ptosis as Symptoms of Systemic Amyloidosis  
*Dongmei LI*
- 09:50 Challenging Conventions — Do Dermal Fillers Even have a Role in Orbital Diseases?  
*Tomoyuki KASHIMA*
- 10:00 Is this Orbital Inflammation or Something Else?  
*Morgan YANG*
- 10:10 Unusual Caruncular Mass Lesions  
*Rajendra MAURYA - INDIA*
- 10:20 Questions and Answers

### Recent Advances in Orbital and Oculoplastics

Learn about the latest diagnostic modalities, treatment options, and surgical management from world-renowned experts in orbital, lacrimal, oculoplastic surgery and oncology. The symposium will end with the Holmes Award Lecture (the highest award for exceptional contributions in preventive Ophthalmology, especially in the prevention of blindness in the Asia-Pacific region), presented by our honorary speaker from Indonesia, Dr. Nila Moeloek, about orbital tumor and what we know so far.

- 11:00 - 12:30 **Venue: Lotus Room**  
*Chair(s): Peter DOLMAN, Ashok GROVER, Pimkwan JARU-AMPORN PAN*
- 11:00 Recent Advances in Biologic Therapy for Eyelid and Orbital Malignancies  
*Vivian YIN*
- 11:10 Recent Advances in Multimodal Therapy for Lacrimal Malignancies  
*Santosh HONAVAR*
- 11:20 Transnasal Endoscopic Orbital Cavernous Malformation Excisions  
*Rong LU*
- 11:30 Recent Advances in Corneal Neurotization Surgery: A Canadian Experience  
*Ezekiel WEIS*

- 11:40 Recent Advances in Eyelid Surgery  
*Rohit **SAIJU***
- 11:50 Sphenoid Wing Meningioma Resection through a Transorbital Approach  
*Kyung In **WOO***
- 12:00 Recent Advances in Lacrimal Imaging: The MR-DCG  
*Saul **RAJAK***
- 12:10 Holmes Award Lecture: Tumor of the Eye in Indonesia  
*Nila **MOELOEK***

## Pediatric Ophthalmology & Strabismus

### APMS Symposium: Prevention of Myopia Progression

09:00 - 10:30 **Venue: Meeting Room 2**  
*Chair(s): Frank **MARTIN**, Pornchai **SIMAROJ**, Pei-Chang **WU***

- 09:00 Epidemiology & Socioeconomic Implication of Myopia  
*Seang Mei **SAW***
- 09:10 Behavioral Changes that Help Prevention of Myopia  
*Kathryn **ROSE***
- 09:20 OK Lenses in Preventing Myopia Progression  
*Xiao **YANG***
- 09:30 The Role of High and Low Dose of Atropine in Preventing Myopia Progression  
*Pei-Chang **WU***
- 09:40 Applications of Optical Defocus in Clinical Myopia Control  
*Chi Ho **TO***
- 09:50 Posterior Scleral Reinforcement to Prevent Progression of High Myopia  
*Yue **QI***
- 10:00 Nakajima Award Lecture: Combating Myopia — From Epidemiology to Clinical Interventions  
*Jason **YAM***

### SOE Symposium: Where East Meets West

The SOE symposia titled “Where East Meets West” and “Where West meets East” will be given by prominent members of the International Pediatric Ophthalmology and Strabismus community. Each speaker will be representing their country/region and will discuss common and/or unique problems, current status, updates, initiatives related to their topics. The audience will be able to learn more about a variety of pediatric ophthalmology problems and topics through the talks given by the listed eminent experts.

14:30 - 16:00 **Venue: Meeting Room 2**  
*Chair(s): Giovanni **MARCON**, Faruk **ORGE**, Chanet **SUVARNAMANI***

- 14:30 ROP in Turkey  
*Sule **ZIYLAN***
- 14:38 How Small are Small Astigmatism  
*Francisco Reich **DALMEIDA***
- 14:46 Strabismus and Retinoscopy Simulators  
*Faruk **ORGE***
- 14:54 Infantile Esotropia in the United Kingdom  
*Saurabh **JAIN***
- 15:02 Update on Management of Duane Syndrome  
*Mustafa **ALY***
- 15:10 Management of Congenital Fibrosis Syndrome  
*Juthathip **HIRIOTAPPA***
- 15:18 Minimally Invasive Strabismus Surgery Using High Frequency Radiowave Technique and 7-0 Vicryl Sutures  
*Victoria **BALASANYAN***
- 15:26 Varied Approaches to Strabismus Surgery: Colombo vs Toronto  
*Amila **DE ALWIS***
- 15:34 Panel Discussion

### SOE Symposium: Where West Meets East

The SOE Symposium “Where West Meets East” will put together speakers from different parts of the world, bringing in discussion of controversial subjects in Pediatric Ophthalmology and Strabismus or subjects which have different approaches. Innovative techniques, very interesting and challenging cases, subjects less discussed in literature or new ideas will raise debates, building new bridges between western and eastern specialists.

16:30 - 18:00 **Venue: Meeting Room 2**  
*Chair(s): Daniela **CIOPLEAN**, Jan Tjeerd **DE FABER**, Sirinya **SUWANNARAJ***

- 16:30 Management of Congenital Ptosis with Poor Levator Function  
*Wadakarn **WUTHISIRI***
- 16:38 Don'ts (and Do's) in Orthoptic Management: a 21<sup>st</sup>-Century Update  
*Isabel **REICH-D'ALMEIDA***
- 16:46 Multifocal or Bifocal Glasses in Esotropic Children with High Accommodative AC/A Ratio?  
*Daniela **CIOPLEAN***
- 16:54 Results of Esotropia Surgery in Children Operated with Mathematical Computer Program “Strabo”  
*Igor **AZNAURYAN***

- 17:02 Myopic Esotropia — One Size Fits All?  
*Joanne HANCOX*
- 17:10 Large Inferior Rectus Recession Without Lower Lid Retraction  
*Birsen GOKYIGIT*
- 17:18 Amazing Cases from a Collection of 20,000 Videotapes  
*Alain SPIELMANN*
- 17:26 Surgical Treatment of Complete CN 3rd Palsy and Their Long-Term Results  
*Birsen GOKYIGIT*
- 17:34 Panel Discussion

## Prevention of Blindness

### Expanding Human Resources to Prevent Blindness

WHO's Universal Eye Health: A Global Action Plan 2014-2019, sets a global road map for the development of eye care services through a cadre of workers. From the global perspective, there is a need for a common understanding of the eye care team's role, trends and challenges to set an action plan for workforce recruitment, retention, training and assessment. A global education and training model will be presented with case studies from APAO members who are implementing successful education programs to expand human resources and maximize the ophthalmologists' productivity with a highly trained and skilled eye care team.

14:30 - 16:00 **Venue: Boardroom 3**  
*Chair(s): William ASTLE, Prashant GARG, Tharikarn SUJIRAKUL*

- 14:30 WHO's Workforce: Strategic Plan and the Definition of Allied Ophthalmic Personnel (AOP)  
*Ivo KOCUR*
- 14:42 Workforce Resources: Current and Future Trends Facing Us  
*William ASTLE*
- 14:54 A Global Model for Training and Assessing Your Eye Care Team  
*Prashant GARG*
- 15:06 Case Studies and Demonstration of a Training and Assessment Model: China  
*Helen YAN*
- 15:18 Case Studies and Demonstration of a Training and Assessment Model: SNEC  
*Jayabaskar THIYAGARAJAN*
- 15:30 Case Studies and Demonstration of a Training and Assessment Model: Pacific Eye Institute  
*Pawan BARAL*

- 15:42 Establishing Standards, Curriculum, and Capacity Building for Human Resources  
*Karl GOLNIK*

## Prevention of Blindness in the Asia-Pacific Region

16:30 - 18:00 **Venue: Boardroom 4**  
*Chair(s): Ava HOSSAIN, Anukul THAITANUNDR, Ningli WANG*

- 16:30 Eye Care Service Delivery in Southeast Asia  
*Taraprasad DAS*
- 16:40 Responding to the Blindness and Vision Impairment Needs of the Rohingya Refugees and the Affected Host Population  
*Jerry VINCENT*
- 16:50 Extension of Healthy Life Expectancy through the Measures Against Visual Impairment  
*Yoshimune HIRATSUKA*
- 17:00 Achievement of Global Action Plan Initiative for Prevention of Blindness in Asia-Pacific Region  
*Hugh TAYLOR*
- 17:10 Reaching the Underserved and Underprivileged Population through Community Mobilization for Eye Care in Bangladesh  
*Ava HOSSAIN*
- 17:20 Human Resource Development to Screen and Manage DR at All Levels of Healthcare Delivery  
*Nathan CONGDON*
- 17:30 Establishing Guidelines for Screening and Treating ROP to Reduce Childhood Blindness in Developing Countries of Asia-Pacific Region  
*Rajvardhan AZAD*
- 17:40 Panel Discussion

## Refractive Surgery

### APMS Symposium: SMILE

09:00 - 10:30 **Venue: Meeting Room 1**  
*Chair(s): Jodhbir MEHTA, Pornlada SUNLAKAVISET, Xingtao ZHOU*

- 09:00 History & Results; Indications and Contraindications of SMILE  
*Rupal SHAH*
- 09:12 Intraoperative Patient Experience and Postoperative Visual Quality After SMILE and LASIK in a Randomized, Paired-Eye, Controlled Study  
*Jodhbir MEHTA*

- 09:24 Techniques, Tips and Pearls, Preventing and Managing Complications of SMILE  
*Xingtao ZHOU*
- 09:36 Prevention and Management of Postoperative Complication of SMILE  
*Ying LI*
- 09:48 Enhancement Options in SMILE Cases with Suboptimal Refractive Outcomes  
*Jakob SIEDLECKI*
- 10:00 Future Developments in SMILE (Hypermetropia; Higher Degree of Myopia; New Machines)  
*Yang WANG*
- 10:12 Training and Transition to SMILE for Experienced LASIK Surgeons  
*Dennis LAM*

### Corneal Collagen Cross-Linking

Collagen Crosslinking has become the standard of care for progressive keratoconus. Since its first clinical use more than 15 years ago, the procedure continues to develop further. The indications of collagen crosslinking now include secondary ectasia, infectious keratitis and its prophylactic use in refractive procedures. This session will encompass the latest developments in the field of collagen crosslinking. Evidence-based discussion and case studies will be the highlight of this exciting session.

11:00 - 12:30 **Venue: Meeting Room 1**  
Chair(s): Vishal **JHANJI**, Ngamjit **KASETSUWAN**, Lim **LI**

- 11:00 TBC  
*Ioannis PALLIKARIS*
- 11:10 Update in Corneal Crosslinking: Where are We Now?  
*Ngamjit KASETSUWAN*
- 11:20 Choosing Method of Cross Linking, does Accelerated Cross Linking Work?  
*Kavita RAO*
- 11:30 Customised CXL for Keratoconus  
*Mahipal SACHDEV*
- 11:40 Rituals for Perfect Crosslinking  
*Rohit SHETTY*
- 11:50 Laser Vision Correction Combined with Cross-Linking  
*Lim LI*
- 12:00 Complications in CXL  
*Vishal JHANJI*
- 12:10 Optimizing Vision after CXL  
*Anand PARTHASARATHY*

### LASIK and Surface Refractive Treatment

It is always recommended that corneal epithelium

be removed before PRK treatment. It took more than 20 years to develop the single one-step TransPRK Excimer laser treatment. This was because we did not have accurate information on corneal epithelial thickness and epithelial ablation rate. Therefore, it was difficult to design an algorithm for single step laser ablation for both epithelium and stroma. Results from TransPRK treatment in previously untreated eyes and post-refractive surgery complications treated with Customised TransPRK will be presented.

14:30 - 16:00 **Venue: Meeting Room 1**  
Chair(s): Dimitri **AZAR**, Varintorn **CHUCKPAIWONG**, Jerry **TAN**

- 14:30 Wound Healing in Laser Visual Correction  
*Dimitri AZAR*
- 14:38 Refine the Techniques for PRK  
*Olan SUWAN-APICHON*
- 14:46 Transepithelial PRK  
*Jerry TAN*
- 14:54 PRK for High Myopia  
*Vishal JHANJI*
- 15:02 Questions and Answers
- 15:15 Wavefront-Guided LASIK  
*Hungwon TCHAH*
- 15:23 Laser Visual Correction for Astigmatism  
*Varintorn CHUCKPAIWONG*
- 15:31 LASIK Retreatment After 10 Years: What to Do?  
*Jorge ALIÓ DEL BARRIO*
- 15:39 MMC Adjunctive Treatment in Surface Ablation  
*Choun-Ki JOO*
- 15:47 Questions and Answers

### APAO-ISRS Symposium: Controversies in Refractive Surgery

Refractive surgery is a rapidly evolving field with multiple controversies. We believe the best way to understand the relative merit of the divergent views of each controversy is by presenting the opposing views back to back, and then allowing panelist discussion of these views in an open forum. That is what we will do with each of the 4 controversial topic pairs presented.

16:30 - 18:00 **Venue: Meeting Room 1**  
Chair(s): John So Min **CHANG**, Vivat **KOMOLSURADEJ**, Ronald **KRUEGER**

- 16:30 SMILE vs LASIK (SMILE)  
*Sri GANESH*
- 16:38 SMILE vs LASIK (LASIK)  
*Jerry TAN*

16:46	Panel Discussion
16:51	Multifocal IOL vs Monovision (MFIOL) <i>John So Min</i> <b>CHANG</b>
16:59	Multifocal IOL vs Monovision (MONO) <i>Dimitri</i> <b>AZAR</b>
17:07	Panel Discussion
17:12	Total WF vs Topoguided (Total WF) <i>Robert</i> <b>ANG</b>
17:20	Total WF vs Topoguided (Topoguided) <i>Ronald</i> <b>KRUEGER</b>
17:28	Panel Discussion
17:33	Clear Lens Extraction or Not (Yes) <i>George</i> <b>BEIKO</b>
17:41	Clear Lens Extraction or Not (No) <i>Andrzej</i> <b>GRZYBOWSKI</b>
17:49	Panel Discussion

## Retina (Medical)

### Updates on AMD & Variants Including PCV

Given the growing prevalence and potentially blinding effects on vision when left untreated, age-related macular degeneration is a major public health problem worldwide, including the phenotypic appearance of polypoidal choroidal vasculopathy (PCV). This symposium will review current concepts on the classification of its phenotypes across multiple imaging modalities as well as treatment strategies of initiating with monotherapy with anti-VEGF agents versus combining agents with photodynamic therapy. New therapies, masquerade diagnoses, and managing complications of treatment will also be reviewed.

09:00 - 10:30 **Venue: Plenary Hall 3**  
*Chair(s): Neil* **BRESSLER**, *Adrian* **KOH**, *Maytinee* **SIRIMAHARAJ**

09:00	Classification of PCV and Pachychoroid Diseases <i>Shih-Jen</i> <b>CHEN</b>
09:10	Multimodal Imaging of PCV/AMD <i>Seung Young</i> <b>YU</b>
09:20	Combination vs Mono-therapy for PCV <i>Adrian</i> <b>KOH</b>
09:30	Unmet Needs of PCV <i>Ian</i> <b>WONG</b>
09:40	New Therapies and Targets for Wet AMD <i>Neil</i> <b>BRESSLER</b>
09:50	Randomized Controlled Trial Ziv-Aflibercept vs Bevacizumab for Wet AMD and PCV <i>Kornwipa</i> <b>HEMARAT</b>

10:00	Acute Exudative Polymorphous Vitelliform Maculopathy Masquerading AMD <i>Dolz-Marco</i> <b>ROSA</b>
10:10	Managing Endophthalmitis and Other Complications of Intravitreal Injections <i>Maytinee</i> <b>SIRIMAHARAJ</b>
10:20	Questions and Answers

### Mystery Retinal Cases

This Mystery Retinal Cases Symposium will feature interesting medical retina cases presented by leaders in medical retina, which will provide a forum for discussion of these cases and presentation of interesting learning points provided by the cases. The discussion often provides illuminating learning points in regard to diagnosis, pathogenesis, and treatment of retinal diseases.

11:00 - 12:30 **Venue: Plenary Hall 3**  
*Chair(s): Gregg* **KOKAME**, *Hiroko* **TERASAKI**, *Adisak* **TRINAVARAT**

11:00	Mystery Retinal Case 1 <i>William</i> <b>MIELER</b>
11:10	Mystery Retinal Case 2 <i>Adrian</i> <b>FUNG</b>
11:20	Mystery Retinal Case 3 <i>Adrian</i> <b>KOH</b>
11:30	Mystery Retinal Case 4 <i>Lihteh</i> <b>WU</b>
11:40	Mystery Retinal Case 5 <i>Anna</i> <b>TAN</b>
11:50	Mystery Retinal Case 6 <i>Voraporn</i> <b>CHAKITMONGKOL</b>
12:00	Mystery Retinal Case 7 <i>Michael</i> <b>CHILOV</b>
12:10	Mystery Retinal Case 8 <i>Gregg</i> <b>KOKAME</b>
12:20	Mystery Retinal Case 9 <i>Tomohiro</i> <b>IIDA</b>

## Retina (Surgical)

### Pediatric Retina Surgery Essentials

11:00 - 12:30 **Venue: Meeting Room 2**  
*Chair(s): Atchara* **AMPHONPHRUET**, *R.V. Paul* **CHAN**, *Wai-Ching* **LAM**

11:00	Painful Lessons Learned from the Pediatric Retina Surgery <i>Wei-Chi</i> <b>WU</b>
11:12	FEVR <i>Xiaoyan</i> <b>DING</b>



- 11:24 Management of Aggressive Posterior Vitreoretinopathy (APVR) in Neonates  
*R.V. Paul CHAN*
- 11:36 Bilateral Sequential Lens Sparing Vitrectomy for Stage 4 Retinopathy of Prematurity  
*Narendran VENKATAPATHY*
- 11:48 Surgical Treatment of Retinal Detachment Associated with Morning Glory Syndrome  
*Shunji KUSAKA*
- 12:00 Pediatric Ocular Trauma  
*Atchara AMPHONPHRUET*
- 12:12 Management of Juvenile Retinoschisis  
*Wai-Ching LAM*

### Controversies in Surgical Retina

While much has been learned about the role of the vitreoretinal interface in the pathogenesis of vitreoretinal diseases and surgery, there remain controversies about the optimal surgical management of sight-threatening disease. Surgeon-scientists will present a compilation of our field's most challenging conditions, including myopic foveoschisis, macular hole, RD with multiple posterior breaks, and the approach to the vitreoretinal interface in pediatric patients with advanced vitreoretinal disease. This symposium showcases advances in retinal surgery and debates the relative advantages and disadvantages of current and evolving management.

11:00 - 12:30 **Venue: Meeting Room 4**  
*Chair(s): Suber HUANG, Yusuke OSHIMA, Nuttawut RODANANT*

- 11:00 Vitreoretinal Surgical Considerations in High Myopia  
*Wen-Hsiang LEE*
- 11:08 Pathogenesis and Current Treatment for Myopic Foveoschisis  
*Yasushi IKUNO*
- 11:16 Flap-Closure Internal Limiting Membrane Technique to Rationally Approach Myopic Traction Maculopathy/Myopic Macular Hole/Macular Hole Retinal Detachment  
*Tzyy-Chang HO*
- 11:24 Retinal Transplant for Macular Hole in Macular Hole Rd  
*Mahesh Shanmugam PALANIVELU*
- 11:32 Internal Limiting Membrane Peeling and Air Tamponade for Stage III and Stage IV Idiopathic Macular Hole (Large Case Series)  
*Wu LIU*
- 11:40 Panel Discussion
- 11:46 Free Flap in the Management of Rhegmatogenous Retinal Detachment with Posterior Breaks  
*San-Ni CHEN*

- 11:54 Myopic Foveoschisis: A Condition We Still Know Little About  
*Nikolle TAN*
- 12:02 Surgery for Pediatric Retinal Detachment  
*Joo Yong LEE*
- 12:10 Pediatric Epiretinal Membranes with Tips and Tricks for Surgery  
*Lawrence LEE*
- 12:18 Panel Discussion

### Management of Open-Globe Posterior Segment Trauma

In this symposium, controversies in the management of open-globe injuries will be presented and thoroughly discussed. An overview of these types of injuries will be provided, followed by a detailed breakdown of the controversies for which controlled clinical data regarding management is incomplete. Areas to be discussed include the timing of surgical intervention, use of prophylactic antibiotics, placement of a prophylactic scleral buckle, management of IOFBs, choice of intraocular tamponade agents, along with treatment and prevention of PVR. Guidelines for management, based on clinical data and the experience of the presenters, will be provided. Several videos will be shown, and time will be allotted for Q&A.

14:30 - 16:00 **Venue: Plenary Hall 3**  
*Chair(s): William MIELER, S NATARAJAN, Nawat WATANACHAI*

- 14:30 Introduction  
*William MIELER*
- 14:33 Posterior Segment Trauma: Terminology and Classification  
*Iwan SOVANI*
- 14:45 Timing of Vitrectomy in Open-Globe Injuries  
*William MIELER*
- 14:57 Prophylactic Scleral Buckle: Beneficial, Essential, or Harmful  
*Edmund WONG*
- 15:09 Tamponade Agents: Factors to Consider in the Choice of Agents  
*Nawat WATANACHAI*
- 15:21 Management of Intraocular Foreign Bodies  
*Adrian FUNG*
- 15:33 Intravitreal/Systemic Antibiotics: Guidelines to Prevention of Infection, and Treatment of Proven Infection  
*Sherman VALERO*
- 15:45 PVR: Is There Effective Prophylaxis to Reduce the Risk?  
*S NATARAJAN*
- 15:57 Summary  
*William MIELER*



## Surgical Retina Video: State-of-the-Art Tips and Tricks

16:30 - 18:00 **Venue: Plenary Hall 3**

*Chair(s): Chi-Chun LAI, Masahito OHJI, Chirat SAOVAPRUT*

- 16:30 Micro Incision Vitrectomy in Challenging Cases  
*Yusuke OSHIMA*
- 16:40 Surgical Tips in ROP  
*Wei-Chi WU*
- 16:50 Planned Foveal Detachment for Diabetic Macular Edema  
*Yuki MORIZANE*
- 17:00 Implant of Artificial Retina: Taiwan CGMH Experience  
*Yih-Shiou HWANG*
- 17:10 Intraoperative OCT  
*Makoto INOUE*
- 17:20 The Role of Endoscopic Assistant System in Management of Challenging Retinal Detachment Cases  
*Dang Tran DAT*
- 17:30 The Optimal Strategy of Internal Limiting Membrane Peeling for Macular Surgeries  
*Peiquan ZHAO*
- 17:40 Resection or Reconstruction? Options for Managing Iridociliary and Choroidal Melanoma  
*Hany HAMZA*
- 17:50 Management of Dislocation of Intraocular Lens Implant into Sub-Retinal Space  
*Ning (Danny) CHEUNG*

## Glaucoma: Looking into the Future

In this symposium, a world-renowned team of experts in a wide spectrum of glaucoma-related fields will discuss the latest scientific developments of our understanding of glaucoma pathogenesis. The topic ranges from basic molecular biology to cutting edge technology development. The goal of this symposium is to disseminate the bench to bed and back to bench knowledge to the meeting participants and foster opportunity for future collaborative endeavors.

14:30 - 16:00 **Venue: Meeting Room 4**

*Chair(s): Rachel KUCHTEY, Yutao LIU, Chaiwat TEEKHASAENEE*

- 14:30 The Role of Aqueous miRNAs in Exfoliation Glaucoma  
*Yutao LIU*
- 14:40 Nailfold Capillary Microscopy: Novel Blood Flow Evaluation in Glaucoma  
*Clara COUSINS*

- 14:50 Human Lens Capsule in True Exfoliation Syndrome  
*Chaiwat TEEKHASAENEE*
- 15:00 The Role of LOXL1 Gene in Exfoliation Syndrome  
*Ursula SCHLOTZER-SCHREHARDT*
- 15:10 Connective Tissue Disorders in Glaucoma  
*Rachel KUCHTEY*
- 15:20 Mitoprotective and Anti-Oxidant Treatment in Glaucoma  
*Robert RITCH*
- 15:30 Bioengineered Human 3D Trabecular Meshwork  
*Ting XIE*
- 15:40 Novel OCT Imaging for Glaucoma  
*Leopold SCHMETTERER*
- 15:50 Questions and Answers

## Visual Sciences

### APSEG Symposium: Genetics of Eye Traits and Eye Diseases in Children

Nowadays globally, genetic eye diseases patients form a large proportion of pediatric ophthalmic practice. Knowledge of basic sciences would benefit the practicing ophthalmologists and research scientists of the field to update. This symposium will help you to understand the genetics of keratoconus and how ocular quantitative traits could influence health and disease. Besides, the session would also deal in depth about blindness secondary to high myopia/genetic differences between age-related macular degeneration and pachychoroid diseases. You would have the opportunity not only to understand how to deal with childhood glaucoma patients from a genetic point of view but also with a patient and family having a history of retinoblastoma.

16:30 - 18:00 **Venue: C Ground Meeting Room 2**

*Chair(s): Haoyu CHEN, Govindasamy KUMARAMANICKAVEL, Kaewalin LEKHANONT*

- 16:30 Pathogenic Variants of the Keratoconus Genes  
*Kathryn BURDON*
- 16:42 Genetic Investigation of Ocular Quantitative Traits in Chinese Children  
*Li Jia CHEN*
- 16:54 Moving Forward in Keratoconus - The Keratoconus International Consortium  
*Paul BAIRD*
- 17:06 Genetic Background of Blindness Secondary to High Myopia/Genetic Differences Between Age-Related Macular Degeneration and Pachychoroid Diseases  
*Kenji YAMASHIRO*

- 17:18 Genetic Testing for Childhood Glaucoma  
*Janey WIGGS*
- 17:30 "I had Retinoblastoma When I was Young, What are the Risks for My Child?"  
Retinoblastoma — Screening, Surveillance, and Saving Eyes  
*Sandra STAFFIERI*



## Academia, Research, Teaching and Education in Ophthalmology

### APAO-ICO Sessions for Educators: Voice of Residents

During this session reports of various Fellowship programs across the world will be given. The strengths and weaknesses of each program will be discussed. By listening to the key points of different programs the participants will be able to decide how to improve their own programs and bring uniformity in content of programs in the Asia-Pacific Region.

09:00 - 10:30 **Venue: Boardroom 4**  
*Chair(s): Rajvardhan AZAD, Andrzej GRZYBOWSKI, Muhammad MOIN*

- 09:00 Fellowship Program in India: Strength & Pitfalls  
*Bhuvan CHANANA*
- 09:10 Fellowship Program in USA: Strength & Pitfalls  
*Luxmi HARAN*
- 09:20 Fellowship Program in Bangladesh: Strength & Pitfalls  
*Syed KADIR*
- 09:30 Fellowship Program in Hong Kong: Strength & Pitfalls  
*Jason YAM*
- 09:40 Fellowship Program in Sri Lanka: Strength & Pitfalls  
*Madhuwanthi DISSANAYAKE*
- 09:50 Fellowship Program in Nepal: Strength & Pitfalls  
*Meenu CHAUDHARY*
- 10:00 Fellowship Program in Pakistan: Strength & Pitfalls  
*Nasir SAEED*

- 10:10 Fellowship Program in Philippines: Strength & Pitfalls  
*Joseph Anthony TUMBOCON*
- 10:20 Fellowship Program in Malaysia: Strength & Pitfalls  
*Devaraj SUPRAMANIAM*

### Defending the Ophthalmologist in a Medical Malpractice Lawsuit: Global Comparative Overview of Multiple Legal Systems

This course will provide an overview of medical malpractice cases specific to ophthalmology in each speaker's country, as well as to educate and present physicians with effective approaches to minimize liability and maximize an effective defense. Topics include malpractice litigations and terms important to an understanding of malpractice, a review of the malpractice lawsuit process and common theories of liability against ophthalmologists. Informed consent and the importance of preparation will be highlighted.

11:00 - 12:30 **Venue: Boardroom 4**  
*Chair(s): Kenneth LARYWON, Robert RITCH*

- 11:00 Introduction  
*Robert RITCH*
- 11:10 Malpractice in Thailand  
*Paisan RUAMVIBOONSUK*
- 11:30 Malpractice in Japan  
*Kenji MINEMURA*
- 11:50 Malpractice in India  
*Sunil MOREKER*
- 12:10 Malpractice in US  
*Kenneth LARYWON*

### APAO-ICO Sessions for Educators: Maximizing Productivity and Quality Through Eye Care Team Development

An efficient and productive ophthalmologist is key to managing the increasing patient care schedule. An effective eye care team who are well-trained and highly skilled are essential to maximizing our productivity. This course will present educational strategies and practical applications to ensure that residents and your technical eye care team have the competencies needed. These innovative educational strategies include rigorous standards for training program evaluation, knowledge, and skill-based learning, and course and assessment resources ranging from simulations, learning self-assessments to practical workplace-based assessments (rubrics).

16:30 - 18:00 **Venue: Boardroom 4**  
*Chair(s): William ASTLE, Prashant GARG, Anita MANASSAKORN*

- 16:30 Introduction: Maximizing Ophthalmologist Productivity with Education of the Eye Care Team  
*Wanicha CHUENKONGKAEW*

16:40	Accreditation: Residency Programs & AOP <i>Karl <b>GOLNIK</b></i>
16:50	Best Practices in Education: Residents <i>Ana <b>PALIS</b></i>
17:00	Best Practices in Education: AOP <i>William <b>ASTLE</b></i>
17:10	Best Practices in Assessments: Residents <i>Catherine <b>GREEN</b></i>
17:20	Best Practices in Assessments: AOP <i>Prashant <b>GARG</b></i>
17:30	Best Practices in Educational Resources: Residents and Allied Ophthalmic Personnel <i>Michael <b>STEWART</b></i>
17:40	Panel Discussion

## Cataract

### IOL Fixation with Deficient Capsular Support

Every surgeon faces a dilemma of implanting an IOL in an eye with the deficient or absent capsule. This course helps the delegate master the various techniques one can use in such scenarios like sutured IOL, Hoffmann pockets, iris supported IOL, AC IOL, toric IOL in deficient capsules and the glued IOL or Yamane technique. The various problems one can encounter in such tricky IOL implantations will also be covered. Every technique will be showcased through videos for better understanding. Complications like captive iris, IOL tilt, refixing a dislocated IOL will also be taught.

11:00 - 12:30 **Venue: Plenary Hall 2**  
*Chair(s): Amar **AGARWAL**, Sritatath **VONGKULSIRI**, Shin **YAMANE***

11:00	Introduction
11:02	Premium IOLs in the Setting of Capsular Rupture or Instability <i>John So Min <b>CHANG</b></i>
11:09	Sulcus Fixation of 3 Piece IOLs with Severe Zonulopathy <i>David <b>CHANG</b></i>
11:16	Glued IOL's — Tips, Tricks, and Technique <i>Athiya <b>AGARWAL</b></i>
11:23	Glued IOL in Combination with Other Surgeries Including IOL Scaffold, Single-Pass Four Throw Pupilloplasty and Pre-Descemets Endothelial Keratoplasty (PDEK) <i>Amar <b>AGARWAL</b></i>
11:30	Yamane Technique <i>Shin <b>YAMANE</b></i>

11:37	Iris Claw IOL <i>Hungwon <b>TCHAH</b></i>
11:44	Sutured CTR <i>Soon-Phaik <b>CHEE</b></i>
11:51	Scleral Suture Fixation and Understanding with an Endoscope and UBM <i>Takeshi <b>SUGIURA</b></i>
11:58	Pars Plana Refixation of Dislocated IOL <i>Sritatath <b>VONGKULSIRI</b></i>
12:05	Panel Discussion <i>George <b>BEIKO</b>, Burkhard <b>DICK</b>, Gaurav <b>LUTHRA</b>, Tetsuro <b>OSHIKA</b>, Mohan <b>RAJAN</b></i>
12:28	Conclusion

### Refractive Cataract/IOL Surgery — My Top 5 Pearls

Invited faculty each speak for 7 minutes on a practical topic relating to challenging refractive IOL situations. Each speaker will present their "Top 5 Pearls" for dealing with that situation. Instead of a traditional didactic talk, the speakers will present 5 key take-home points as concisely as possible. Panelists will then add their additional pearls. Each 7-minute talk is followed by 5 minutes of panel discussion and audience response polling.

14:30 - 16:00 **Venue: Plenary Hall 2**  
*Chair(s): David **CHANG**, Pichit **NARIPTHAPHAN**, Hungwon **TCHAH***

14:30	Astigmatic Keratotomy <i>George <b>BEIKO</b></i>
14:37	Panel Discussion <i>John So Min <b>CHANG</b>, Burkhard <b>DICK</b>, Hungwon <b>TCHAH</b>, Abhay <b>VASAVADA</b></i>
14:42	Toric IOL Challenges <i>Sumitra <b>KHANDELWAL</b></i>
14:49	Panel Discussion <i>John So Min <b>CHANG</b>, Burkhard <b>DICK</b>, Hungwon <b>TCHAH</b>, Abhay <b>VASAVADA</b></i>
14:54	Patient Selection for Presbyopia-Correcting IOLs <i>Robert <b>ANG</b></i>
15:01	Panel Discussion <i>John So Min <b>CHANG</b>, Burkhard <b>DICK</b>, Hungwon <b>TCHAH</b>, Abhay <b>VASAVADA</b></i>
15:06	Monofocal Monovision <i>Pichit <b>NARIPTHAPHAN</b></i>
15:13	Panel Discussion <i>John So Min <b>CHANG</b>, Burkhard <b>DICK</b>, Hungwon <b>TCHAH</b>, Abhay <b>VASAVADA</b></i>
15:18	Post-LASIK Patients <i>Han Bor <b>FAM</b></i>

- 15:25 Panel Discussion  
*John So Min **CHANG**, Burkhard **DICK**,  
Hungwon **TCHAH**, Abhay **VASAVADA***
- 15:30 Managing Postop Refractive Surprises —  
When & How?  
*Gerard **SUTTON***
- 15:37 Panel Discussion  
*John So Min **CHANG**, Burkhard **DICK**,  
Hungwon **TCHAH**, Abhay **VASAVADA***
- 15:42 Managing Unhappy Refractive IOL Patients  
*Gerd **AUFFARTH***
- 15:49 Panel Discussion  
*John So Min **CHANG**, Burkhard **DICK**,  
Hungwon **TCHAH**, Abhay **VASAVADA***

### Master Class: Managing PC Rupture and Vitreous Prolapse

This symposium will cover essential principles for anterior vitrectomy following posterior capsular rupture. The international faculty includes both the anterior segment and vitreoretinal specialists. Additional topics include the intraoperative management of remaining lens material, IOL implantation with a compromised posterior capsule, and postoperative management.

16:30 - 18:00 **Venue: Plenary Hall 2**  
*Chair(s): David **CHANG**, Thanapong **SOMKIJRUNGROJ**,  
Abhay **VASAVADA***

- 16:30 Limbal Anterior Vitrectomy — Why and How  
*Victoria **WONG***
- 16:37 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***
- 16:41 Pars Plana Anterior Vitrectomy — Why and How  
*Abhay **VASAVADA***
- 16:48 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***
- 16:52 Anterior Vitrectomy Pitfalls for Cataract Surgeons  
*William **MIELER***
- 16:59 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***
- 17:03 Managing the Descending Nucleus  
*Richard **PACKARD***
- 17:10 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***
- 17:14 IOL Scaffold for Nucleus after PCR  
*Amar **AGARWAL***
- 17:21 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***

- 17:25 Converting to ECCE  
*David **CHANG***
- 17:32 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***
- 17:36 IOL Implantation following PCR  
*Thanapong **SOMKIJRUNGROJ***
- 17:43 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***
- 17:47 Reducing Endophthalmitis Risk with PCR  
*Hari Priya **ARAVIND***
- 17:54 Panel Discussion  
*Sumitra **KHANDELWAL**, Direk **PATIKULSILA***

### Cornea, External Eye Diseases & Eye Bank

#### Restoring the Disrupted Anterior Segment Following Trauma — Accidental and Surgical

This session will feature a variety of lectures and surgical videos that focus on a very common scenario in our clinical practice i.e. anterior segment traumas and emergencies. The symposium will be useful for anterior segment surgeons, general ophthalmologists and even residents, with tips on primary repair of corneoscleral injuries, surgical pearls for chemical burns and use of amniotic membrane transplants, as well as techniques for tectonic keratoplasties and repairs of lenticular or iris trauma.

09:00 - 10:30 **Venue: Ballroom**  
*Chair(s): Marcus **ANG**, Charles **McGHEE**, Pinnita **PRABHASAWAT***

- 09:00 Overview of Accidental and Surgical Trauma to the Anterior Segment  
*Jina **HAN***
- 09:12 Primary Surgical Repair of Penetrating Corneal and Scleral Injuries  
*Gerard **SUTTON***
- 09:24 Chemical Burns, How to Restore the Ocular Surface  
*Pinnita **PRABHASAWAT***
- 09:36 Technique and Indication for Amniotic Membrane Transplant  
*Mohammed **ZIAEI***
- 09:48 Techniques and Indications for Tectonic Corneal Transplant  
*Marcus **ANG***
- 10:00 Secondary Repair of Iris and Lenticular Injuries  
*Charles **McGHEE***
- 10:12 Questions and Answers

## Applied Corneal Laboratory Science

This session will showcase a variety of corneal regeneration research using therapeutic modalities such as cultivated cells, stem cells, scaffolds, and ROCK inhibitors, some already in clinical trial. The talks will cover treatments that target all three layers of the cornea.

11:00 - 12:30 **Venue: Ballroom**

*Chair(s): Shigeru KINOSHITA, Jie ZHANG, Kaevalin LEKHANONT*

- 11:00 The iFix Pen: 3D Bioprinting for Corneal Ulcers  
*Gerard SUTTON*
- 11:10 Sex, Self and Stem Cells  
*Trevor SHERWIN*
- 11:20 Trend Strategies of Ocular Surface Regeneration in Thailand  
*Pinnita PRABHASAWAT*
- 11:30 Cultivated Autologous Limbal Stem Cells Using New Method for Mass Production  
*Vilavun PUANGSRICHARERN*
- 11:40 iPS Derived Corneal Epithelial Sheet for the Treatment of Ocular Surface Diseases  
*Kohji NISHIDA*
- 11:50 The Potential of the Transition Zone for Corneal Endothelial Regeneration  
*Jie ZHANG*
- 12:00 Culture of Corneal Endothelial Cell Using a Dual Media Approach — Regulatory Compliance and Beyond  
*Gary PEH*
- 12:10 Use of Rho Kinase Inhibitors as Substitute for Endothelial Transplantation  
*Friedrich KRUSE*

## Debugging the Cornea

This symposium will touch on the essential aspects of various anterior segment infections that pose both diagnostic and management challenges. This will focus on the less typical yet difficult agents such as Mycobacterial & Acanthamoeba. In addition to medical treatment, surgical options “when all else fails” remains an important option.

14:30 - 16:00 **Venue: Ballroom**

*Chair(s): Winai CHAIDAROON, Srinivas RAO, Alvin YOUNG*

- 14:30 Ocular Demodicosis: Myth or Reality  
*Lingyi LIANG*
- 14:40 ACSIKS  
*Savitri SHARMA*

- 14:50 Management of Non-Tuberculous Mycobacterial Keratitis: The Great Masquerade  
*Kendrick SHIH*
- 15:00 Diagnosis and Management of Acanthamoeba Keratitis  
*Elmer TU*
- 15:10 Microsporidia Keratoconjunctivitis: Clinical Features and Management  
*Fung-Rong HU*
- 15:20 Cytomegalovirus Endothelitis  
*Ka Wai KAM*
- 15:30 Treatment of Infectious Scleritis  
*Eun Chul KIM*
- 15:40 Surgical Management of Infective Keratitis  
*Srinivas RAO*
- 15:50 Questions and Answers

## EVER Symposium: Innovative Strategies for Corneal Regeneration

16:30 - 18:00 **Venue: Ballroom**

*Chair(s): Thomas FUCHSLUGER, Shigeru KINOSHITA, Jodhbir MEHTA*

- 16:30 Regeneration of the Ocular Surface Using Biomaterials and Modification of the Cornea  
*Thomas FUCHSLUGER*
- 16:45 Basic Principle of Corneal Endothelial Regeneration  
*Shigeru KINOSHITA*
- 17:00 Towards a Tissue Engineered Endothelial Keratoplasty; Proof of Concept in an In Vivo Sheep Model  
*Mark DANIELL*
- 17:15 The Possibility of Medical Therapy for Fuchs Corneal Dystrophy  
*Keith BARATZ*
- 17:30 Regenerative Medicine for Pediatric Endothelial Disease  
*Jodhbir MEHTA*
- 17:45 Panel Discussion

## Glaucoma

### Glaucoma Imaging

Glaucoma imaging plays an important role in the glaucoma diagnosis which, at times, can be very complex especially in the glaucoma suspect group. These imaging tests can also help detect early progression of glaucoma. At the same time, the tests can sometimes lead to over diagnosis and over treatment in some patients. Every ophthalmologist should understand how to use these



technologies appropriately, and how to correctly apply the obtained information to provide the most benefit for the patients.

09:00 - 10:30 **Venue: Plenary Hall 1**

*Chair(s): Manchima **MAKORNWATTANA**, Ki Ho **PARK**, Kazuhisa **SUGIYAMA***

09:00 Textural Mapping for Defect Detection  
*Christopher **LEUNG***

09:10 Using OCT in Advanced Glaucoma  
*Leopold **SCHMETTERER***

09:20 Artificial Intelligence Assisted Assessment of Morphology of Optic Disc and Visual Field  
*Fei **LI***

09:30 OCTAGON: Optical Coherence Tomography & Artificial Intelligence for Glaucomatous Optic Neuropathy  
*Michael **GIRARD***

09:40 OCT-A Imaging for Glaucoma  
*Kazuhisa **SUGIYAMA***

09:50 Glaucoma Imaging in the Myopic Eye  
*Jost **JONAS***

10:00 Novel Imaging for Glaucoma  
*Toru **NAKAZAWA***

10:10 Age-Related Changes of RNFL and Macular Thickness in Normal Populations: Implications for Glaucoma Evaluation  
*Ching-Yu **CHENG***

10:20 Retinal Nerve Fiber Layer Damage in Pre-Perimetric Glaucoma  
*M Afzal **BODLA***

### APGS Symposium: Hot Q & A

The symposium will discuss 9 selected logical and practical aspects of glaucoma care from diagnosis to surgical treatment. Esteemed international faculty from the Asia-Pacific Glaucoma Society (APGS) will provide the rational answers to these most interesting questions in glaucoma care from the use of the provocative test, NTG, anterior segment imaging, laser treatment, to different types of glaucoma surgeries. Common questions, yet no clear answers, like whether iridotomy is necessary or should SLT be done early will be discussed. When to perform MIGS, clear lens extraction or surgery in early glaucoma and NTG will also be covered in this symposium. Finishing up with a specific issue about tube surgery in post-PK glaucoma.

11:00 - 12:30 **Venue: Plenary Hall 1**

*Chair(s): Ki Ho **PARK**, Prin **ROJANAPONGPUN**, Tetsuya **YAMAMOTO***

11:00 Is There a Place for Provocative Test?  
*Lingam **VIJAYA***

11:10 Is NTG and POAG the Same Disease?  
*Lutz **PILLUNAT***

11:20 Is Anterior Segment Imaging Better Than Gonioscopy?  
*Ching-Lin **HO***

11:30 Is Prophylactic Iridotomy Necessary for Narrow Angle?  
*Makoto **ARAIE***

11:40 Is SLT the Best Option for Early Intervention?  
*Tan **DO***

11:50 Is MIGS Better for Early Intervention in OAG?  
*Ningli **WANG***

12:00 Is Clear Lens Extraction the Best Option for Angle Closure?  
*Clement **THAM***

12:10 Is Early Surgery the Best Option for NTG?  
*Tetsuya **YAMAMOTO***

12:20 Is Tube Surgery a Better Option for Post-PK Glaucoma?  
*Md.Nazrul **ISLAM***

### Film Festival

The Glaucoma Film Festival is a video-based symposium presented by experts around the world, on surgery for glaucoma and cataracts, including tips and pearls on MIGS, glaucoma filtering surgeries and managing its complications.

14:30 - 16:00 **Venue: Plenary Hall 1**

*Chair(s): Norman **AQUINO**, Seng Kheong **FANG**, Wallop **LEMSOMBOON***

14:30 How to Phaco When the ACD < CCT  
*Shamira **PERERA***

14:40 The Value of Ab-Externo Canaloplasty Today  
*Clive **PECKAR***

14:50 Revision of Over-Filtering Blebs Using Scleral Patch Grafts  
*Joseph Anthony **TUMBOCON***

15:00 Repairing Large Leaking Bleb with Conjunctival Advancement  
*Kazuhiko **MORI***

15:10 Laser Assisted Non-penetrating Deep Sclerectomy  
*Noel **CHAN***

15:20 Ab Interno MIGS Trabeculotomy with Microhook  
*Makoto **AIHARA***

15:30 Dealing with Complications of iStent Insertion Part I  
*Bryan **ANG***

15:35 Dealing with Complications of iStent Insertion Part II  
*Vivien **YIP***

15:40 Tips for Tube Surgery  
*Thasarat **VAJARANANT***



## Case Presentation and Discussion

This symposium focuses on what the audience can learn about the interesting aspects of glaucoma case presentation. Experts from various institutes in the Asia-Pacific region will share and discuss their cases in terms of diagnosis, investigations, and management. These will enhance the insights of ophthalmologists on clinical presentation of glaucoma that they may not be ordinary ones.

16:30 - 18:00 **Venue: Plenary Hall 1**

Chair(s): Poemen **CHAN**, Visanee **TANTISEVI**, Tetsuya **YAMAMOTO**

- 16:30 A Complicated Case  
*Liuzhi ZENG*
- 16:40 Traumatic Hyphema  
*Vijaya LINGAM*
- 16:50 Steroid Induced Cataract and Glaucoma in a Child of Nephrotic Syndrome  
*Nadeem BUTT*
- 17:00 Canaloplasty for Iridocorneal Endothelial Syndrome: The Rationale and 4 Cases  
*Yuanbo LIANG*
- 17:10 Glaucoma Suspect Cases Showing Different Rate of Progression  
*Tae Woo KIM*
- 17:20 Nanophthalmos with Primary Angle Closure Glaucoma  
*Ming-Yueh LEE*
- 17:30 Epithelial Downgrowth and UGHS  
*Darin SAKIYALAK*
- 17:40 Acute Corneal Subepithelial Hydrop  
*Poemen CHAN*
- 17:50 Glaucoma or Else?  
*Visanee TANTISEVI*

## Intraocular Inflammation, Uveitis & Scleritis

### Immunomodulatory Intervention in the Treatment of Recalcitrant Non-Infectious Uveitis

Management of ocular inflammatory diseases can be challenging in some patients and the best treatment for each case has to be tailor-made according to both medical and socioeconomic conditions. Various management of recalcitrant ocular inflammatory diseases in different institutes will be described and discussed.

16:30 - 18:00 **Venue: Meeting Room 4**

Chair(s): Ann-Marie **LOBO**, Aniki **ROTHOVA**, Nattaporn **TESAVIBUL**

- 16:30 Dealing with Recalcitrant Non-Infectious Uveitis in Thailand  
*Nattaporn TESAVIBUL*
- 16:40 Current Approach in Selecting Immunomodulatory Agents in Treatment of Intermediate, Posterior and Pan Uveitis  
*John GONZALES*
- 16:50 Immunosuppressive Agents in Behcet's Disease in Thailand  
*Kessara PATHANAPITOON*
- 17:00 Ocular Sarcoidosis and the Best Systemic Options  
*Aniki ROTHOVA*
- 17:10 Immunomodulatory Treatment in Recalcitrant VKH Disease  
*Jyotirmay BISWAS*
- 17:20 Seronegative Spondyloarthropathy Related Uveitis (HLA B27 Associated Uveitis) and Immunomodulatory Treatment  
*Ann-Marie LOBO*
- 17:30 Questions and Answers

## Miscellaneous

### APAO Leadership Development Program 2018-19 Graduating Class 1

09:00 - 10:30 **Venue: Auditorium**

Chair(s): Madhuwanthi **DISSANAYAKE**, Catherine **GREEN**, Sherman **VALERO**

- 09:00 Opening Remarks  
*Catherine GREEN*
- 09:05 Younger Ophthalmologists in Australia: Fast-tracking the Organisation to the 21<sup>st</sup> Century  
*Chameen SAMARAWICKRAMA*
- 09:13 Training in Pediatric Ophthalmology  
*Than Htun AUNG*
- 09:21 Ethics and Professional Development for Residents-in-Training  
*Lorenzo FERNANDEZ*
- 09:29 The Establishment of a Permanent Secretariat for the Asia-Pacific Ophthalmic Plastic and Reconstructive Surgery  
*Raoul Paolo HENSON*
- 09:37 Changes in Teaching Residents How to Perform Cataract Surgery in Korea  
*Jae Yong KIM*
- 09:45 An Establishment of an Eye Bank and Cornea Surgical Training Program in Cambodia  
*Dalin CHEA*

- 09:53 Connection of Multidisciplinary Physicians and Medical Personnel in Ophthalmology -- from Class to Work  
*Youn-Shen BEE*
- 10:01 Connecting Low Vision Patients from Hospital to Organizations Supporting Disabilities  
*Yasuhiko HIRAMI*
- 10:09 GRiP (Glaucoma Risk Indicator Program)  
*Shahzad SAEED*

### APAO-AAO-SOE Joint Session: Young Ophthalmologists Forum

The Young Ophthalmologists symposium is the only dedicated session for YO to attend in APAO, with useful talks on YO activities around the world, how to set up your own YO society, how to hone your surgical skills as a YO, and how to produce an award-winning video. We will also be giving out YO awards for the Best Presentation, and most promising YO nominated by their Society.

11:00 - 12:30 **Venue: C Ground Meeting Room 2**  
*Chair(s): Marcus ANG, Seng Kheong FANG, Ian WONG*

- 11:00 Introduction to YO! An Update on YO Activities in the World and in the Asia-Pacific  
*Sasapin PRAKALAPAKORN*
- 11:08 How to Set Up Your Own YO Chapter  
*Diva MISRA*
- 11:16 How to Master YO(ur) Surgical Skills  
*Naris KITNARONG*
- 11:24 How do I Produce an Award-Winning Video?  
*Simon FUNG*
- 11:32 YO Case Presentation 1
- 11:42 YO Case Presentation 2
- 11:52 YO Case Presentation 3
- 12:02 YO Case Presentation 4
- 12:12 YO Case Presentation 5
- 12:22 Panel Discussion

### APAO Leadership Development Program 2018-19 Graduating Class 2

11:00 - 12:30 **Venue: Auditorium**  
*Chair(s): Marcus ANG, Shaheeda MOHAMED, Muhammad MOIN*

- 11:00 National Ophthalmic Cancer Registry Mobile App  
*Kavin VANIKIETI*

- 11:08 Building a SMART Generation: Increasing the Awareness of Accessibility Features on SMART Devices  
*Anna TAN*
- 11:16 TBC  
*Fairooz Puthiyapurayil MANJANDAVIDA*
- 11:24 Orbital and Ocular Trauma in the Asia Pacific  
*Gangadhara SUNDAR*
- 11:32 Retinal Diseases Awareness Program in Nepal  
*Raba THAPA*
- 11:40 Comparison Between Automated and Manual Grading of Fundus Photographs for Diabetic Retinopathy Screening  
*Amir SAMSUDIN*
- 11:48 Improving the Quality of Donor Cornea to Maximize the Visual Outcome of Patients  
*Kusuma RATNAYAKE*
- 11:56 Promoting Quality and Safety Initiatives in Ophthalmology Practice  
*Jonathan HO*
- 12:04 Conclusion  
*Catherine GREEN*

### APAO Leadership Development Program 2019-20 Orientation Class 3: Insights Discovery Program — Getting Your Message Across

Open to APAO LDP Class 2019-20 Participants only.

14:30 - 16:00 **Venue: Auditorium**

- 14:30 Insights Discovery: Communicating in Color Part I  
*Simon ABBOTT*

### AOI Symposium: New Technology in Ophthalmology: Is It Ready for Our Patients? A Perspective from Global Leaders

This clinically oriented symposium is directed to practicing ophthalmologists and trainees who are faced with the opportunities and challenges in adopting new technology in ophthalmology. How do you know when is the right time to prescribe a new drug or implant a new device? Each speaker is a global leader in their field and will present their personal perspective on the potential use of a newly approved drug or device that can be used in clinical practice and discuss its pros and cons compared to the more established treatment options.

14:30 - 16:00 **Venue: Meeting Room 3**  
*Chair(s): Richard ABBOTT, Marie-Jose TASSIGNON, Clement THAM*

- 14:30 Brief Introduction of AOI  
*Richard ABBOTT*

- 14:34 How to Incorporate New Technology into One's Practice: Ethical and Medicolegal Considerations  
*Richard ABBOTT*
- 14:42 Cataract  
*Marie-Jose TASSIGNON*
- 14:50 Pediatrics  
*Frank MARTIN*
- 14:58 Oncology  
*Martine JAGER*
- 15:06 Cornea (Medical)  
*Shigeru KINOSHITA*
- 15:14 Cornea (Surgical)  
*Charles MCGHEE*
- 15:22 Glaucoma  
*Clement THAM*
- 15:30 Retina (Medical)  
*Masayo TAKAHASHI*
- 15:38 Panel Discussion
- 15:53 Conclusion  
*Richard ABBOTT*

**APAO Leadership Development Program 2019-20 Orientation Class 4: Insights Discovery Program — Getting Your Message Across**  
Open to APAO LDP Class 2019-20 Participants only.

- 16:30 - 18:00 **Venue: Auditorium**
- 16:30 Insights Discovery: Communicating in Color Part II  
*Simon ABBOTT*
- 17:45 Next Steps: Masterclass Queensland, Australia and Graduation in Xiamen, China 2020  
*Catherine GREEN*

## Neuro-Ophthalmology

### The Most Commonly Asked Questions of Neuro-Ophthalmologists

Neuro-ophthalmologists often receive inquiries from colleagues about how to deal with tricky neuro-ophthalmology clinical scenarios they encounter. In this symposium, we have selected 6 most commonly asked questions to share with the audience, including how to distinguish visual loss due to retinal causes from optic neuropathy, normal-tension glaucoma from non-glaucomatous optic neuropathy, papilloedema from pseudo papilledema; as well as the management of optic neuritis, esotropia with abduction weakness and non-organic visual loss.

- 09:00 - 10:30 **Venue: Meeting Room 3**  
*Chair(s): Nipat AUI-AREE, Dean CESTARI, Carmen CHAN*
- 09:00 Is the Visual Loss from Retinal or Optic Nerve Causes?  
*Clare FRASER*
- 09:15 How do I Distinguish Normal-Tension Glaucoma from Non-Glaucomatous Optic Neuropathy?  
*Carmen CHAN*
- 09:30 What are the Best Office and Ancillary Tests for Non-Organic Visual Loss?  
*Celia CHEN*
- 09:45 How do I Distinguish Papilledema from Pseudopapilledema?  
*Fang LU*
- 10:00 What is the Workup for Esotropia with Abduction Weakness?  
*Dean CESTARI*
- 10:15 Do I Give My Patient with Acute Optic Neuritis Steroids?  
*Shaoying TAN*

### APAO-NANOS Symposium: Neuro-Ophthalmologic Emergencies – How to Tell When It is an Emergency and When It is Not

Certain clinical syndromes in neuro-ophthalmology represent life- or vision-threatening situations that require immediate recognition and appropriate and timely intervention. This symposium utilizes a case-based approach to present selected illustrative clinical scenarios, highlight the essential differential diagnostic points between emergencies or not, and review the initial management steps of each neuro-ophthalmologic condition.

- 11:00 - 12:30 **Venue: Meeting Room 3**  
*Chair(s): Lynn GORDON, Busaba SATHORN SUMETEE, Shihui WEI*
- 11:00 A Middle-Aged Patient with Acute Visual Loss and Ophthalmoparesis  
*Lynn GORDON*
- 11:15 A Young Adult with Facial Pain, Anisocoria, Normally Reactive Pupils  
*Dan MILEA*
- 11:30 An Elderly Patient with Acute Severe Unilateral Visual Loss and a Normal Fundus  
*Sharon TOW*
- 11:45 A Patient with Double Vision, Ptosis, and a Slightly Dilated Pupil  
*Satoshi KASHII*
- 12:00 An Older Patient with Transient Monocular Visual Loss  
*Karl GOLNIK*

12:15 A Young Woman with Bilateral Disc Swelling and Tunnel Vision  
*Clare FRASER*

## Ocular Imaging

### What's New in Glaucoma Imaging?

16:30 - 18:00 **Venue: Meeting Room 3**  
*Chair(s): Neeru GUPTA, Christopher LEUNG, Boonsong WANICHWECHARUNGRUANG*

- 16:30 Progression Analysis by Imaging  
*Christopher LEUNG*
- 16:40 OCT Angiography  
*Henry Shen-Lih CHEN*
- 16:50 Imaging Deep Optic Nerve Head Structure  
*Atsuya MIKI*
- 17:00 New Findings in Photoreceptor Change According to Glaucoma Severity  
*Ahnul HA*
- 17:10 Impaired CSF Entry into the Optic Nerve in Glaucoma  
*Neeru GUPTA*
- 17:20 Deep Learning System for Detecting Glaucomatous Optic Neuropathy  
*Mingguang HE*
- 17:30 OCT-A in Myopia  
*Yanin SUWAN*
- 17:40 Does OCTA Play a Role in the Detection of Glaucoma Progression?  
*Kuryseva NATALIA*
- 17:50 Panel Discussion

11:00 Cytokines in the Anterior Chamber in UM  
*Martine JAGER*

11:11 Pigment and Uveal Melanoma  
*Michele MADIGAN*

11:22 NFkB Pathway in Uveal Melanoma  
*Mithalesh SINGH*

11:33 Chinese Medicine and Uveal Melanoma  
*Jinfeng CAO*

11:44 Cigarette Smoking on Human Pterygium Neoplastic Cells: Harmful or Beneficial?  
*Tsz-Kin NG*

11:55 Immunotherapy and Sebaceous Gland Carcinoma  
*Lata SINGH*

12:06 Retinoblastoma Organoids  
*Duangnate ROJANAPORN*

12:17 Retinoblastoma Stem Cells  
*Geeta VEMUGANTI*

### Pathology Cases

Speakers in this oncology/pathology session will, in a rapid-fire session, present a fascinating spectrum of challenging cases from the region and elsewhere with clinicopathologic correlation. The session will provide a great learning experience and a forum for discussion for ophthalmologists and ophthalmologists in training.

16:30 - 18:00 **Venue: Lotus Room**  
*Chair(s): Anita CHAN, Deepak EDWARD, Xianqun FAN*

16:30 TBC  
*Xianqun FAN*

16:38 Orbital Lesion with Brown Spots  
*Deepak EDWARD*

16:46 Sebaceous Cell Carcinoma with Pagetoid Spread  
*Hunter YUEN*

16:54 Cytological Diagnosis of Intraocular Lymphoma Supported by Single Cell Molecular Analysis  
*Anita CHAN*

17:02 TBC  
*Issam AL JAJEH*

17:10 Lentigo Maligna with Spread to Conjunctiva  
*Vivian YIN*

17:18 Malignancy Masquerading as Inflammatory Orbital Disease  
*Nripen GAUR*

17:26 Large Lacrimal Gland Fossa Mass — Keep an Open Mind  
*Jason LEE*

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## Ocular Oncology & Pathology

### Basic Science in Ocular Oncology

Ocular oncology is a quickly developing area. With new knowledge about tumor genetics and the role of immune responses, patient treatment is becoming more scientific instead of one treatment for all. Personalized medicine is becoming reality, and studying differences in inflammatory markers, eye color or using tumor/derived organoids may help in selecting the appropriate treatment for specific cases. Not only do we learn more about the tumors and patients, but also the characteristics of traditional drugs are being elucidated. All this makes ocular oncology an exciting area, in which much progress is expected, as will be shown in this symposium.

11:00 - 12:30 **Venue: Lotus Room**  
*Chair(s): Martine JAGER, Tsz-Kin NG, Duangnate ROJANAPORN*

17:34 Rhabdoid Tumor Mimicking Retinoblastoma  
*Duangnate ROJANAPORN*

17:42 Panel Discussion

## Ophthalmic Epidemiology, Telemedicine, Big Data & AI

### Predictors of High Myopia and Pathologic Myopia

Myopia is a global public health burden particularly prevalent in urban Asian populations. Our focus is on high myopia as adults with high myopia are more likely to develop pathologic myopia changes that can lead to blindness. The identification of the risk factors for high myopia and the natural history of high myopia and pathologic myopia will be discussed. Accordingly, preventive measures and treatment are necessary for each step of myopia progression toward vision loss.

11:00 - 12:30 **Venue: Meeting Room 1**  
*Chair(s): Chris HAMMOND, Ian MORGAN, Seang Mei SAW*

11:00 Worldwide Epidemiology of High Myopia  
*Ian MORGAN*

11:10 Risk Factors for High Myopia and Pathologic Myopia  
*Kathryn ROSE*

11:20 Genetics of Simple, High and Pathological Myopia: Same or Different?  
*Chris HAMMOND*

11:30 Genetic Prediction of High Myopia  
*Pirro HYSI*

11:40 Choroidal Thinning and High Myopia  
*Chee-Wai WONG*

11:50 Scleral Rigidity in Highly Myopic Eyes  
*Donny HOANG*

12:00 Eye Shape and High Myopia  
*Anthony KUO*

12:10 Epidemiology, Risk Factors and Visual Impact of Pathologic Myopia in Singapore  
*Seang Mei SAW*

12:20 Panel Discussion

## Orbital and Oculoplastic Surgery

### Controversies in Orbital Trauma

Ophthalmologists dealing with orbital trauma face challenging issues in obtaining the best clinical outcome which includes restoration of the bony structures and soft tissues functions. Orbital trauma cases include orbital fractures, orbital foreign bodies, globe injuries, as well as optic nerve damages. Basic orbital trauma

care, advanced surgical techniques, the optimal time of repair, preferred orbital implant materials, new modalities of imaging, trend of oculoplastic treatment and its evolving concepts will be discussed in this symposium.

09:00 - 10:30 **Venue: Lotus Room**  
*Chair(s): Orapan ARYASIT, Chaiteck CHOO, Xianqun FAN*

09:00 Orbital Fracture: Not Everyone Takes the Same Path  
*Aree NIMITWONGSAKUL*

09:10 Primary Enucleation in Severe Traumatized Eye  
*Orapan ARYASIT*

09:20 Transcaruncular Orbital Optic Canal Decompression in Traumatic Optic Neuropathy  
*Kasturi BHATTACHARJEE*

09:30 3D Printing-Assisted Reconstruction of Orbital Blowout Fractures — Isn't It Expensive?  
*Ho-Seok SA*

09:40 Implants for Orbital Reconstruction — Is There an Ideal Choice?  
*Gangadhara SUNDAR*

09:50 Orbital Foreign Body  
*Chaiteck CHOO*

10:00 Transantral Endoscopy and 3D-Printing as Operative Adjuncts in Large Orbital Blow-Out Fractures  
*Kelvin Kam-Lung CHONG*

10:10 Next Generation Approach to Orbital Fracture  
*Xianqun FAN*

### Office-Based Oculoplastic Procedures

The office-based oculoplastic procedure is very useful and easy performing procedures. It will be simple, fast, minimal down time, and cost saving. This symposium will cover the common aesthetic technical points, facial rejuvenation with dermal fillers and hyaluronic acid gel, minimal invasive ptosis repair, also functional reconstruction and lacrimal intubation procedures.

14:30 - 16:00 **Venue: Lotus Room**  
*Chair(s): Raoul Paolo HENSON, Dongmei LI, Preamjit SAONANON*

14:30 Form and Finesse in Oculo-Facial Rejuvenation with Dermal Fillers  
*Chee-Chew YIP*

14:40 The Two Minute Ptosis Repair  
*Bobby KORN*

14:50 Comprehensive Repair of Periorbital Soft Tissue with Hyaluronic Acid Gel  
*Wei LU*



- 15:00 Punctoplasty with Insertion of Mini-Monoka Stent  
*Raoul Paolo HENSON*
- 15:10 Lower Blepharoplasty for Young Adult  
*Preamjit SAONANON*
- 15:20 Intralesional Triamcinolone for Vascular Malformations Without Communication  
*Mary Rose YAN*
- 15:30 Lacrimal Intubation for Primary Acquired NLDO  
*Akihide WATANABE*
- 15:40 Management of Exposure Keratopathy  
*Sunny SHEN*
- 15:50 Questions and Answers

## Pediatric Ophthalmology & Strabismus

### Management of Diplopia and Nystagmus Made Easy

This session focuses on treatment options for nystagmus and diplopia. Approach to sudden onset diplopia, assessment and treatment of diplopia in case of superior oblique palsy and thyroid eye disease will be discussed. Additionally, approach to childhood nystagmus, surgical options for nystagmus and newer modalities will be covered. Finally, two interesting cases of diplopia will be presented along with a panel discussion.

09:00 - 10:30 **Venue: Meeting Room 2**  
*Chair(s): Shuan DAI, Ramesh KEKUNNAYA, Penny SINGHA*

- 09:00 Approach to Torsional Diplopia in Patients with Superior Oblique Palsy  
*Wei ZHANG*
- 09:10 Management of Diplopia in Patients with Thyroid Eye Disease  
*Venkateshwar Rao BHOOMPALLY*
- 09:20 Sudden Onset of Painful Diplopia  
*Naz RAOOF*
- 09:30 Clinical Approach to Childhood Nystagmus Diagnosis  
*Shuan DAI*
- 09:40 Extraocular Muscle Stimulator Application in Nystagmus Treatment  
*Lejing WANG*
- 09:50 Strabismus Surgery for Nystagmus  
*Lionel KOWAL*
- 10:00 Interesting Strabismus Case  
*Ramesh KEKUNNAYA*
- 10:10 Questions and Answers

### Orbit Related Strabismus — Myths and Facts

The strabismus surgeon often has to deal with orbital diseases and their effects on extraocular muscles. The symposium addresses some of these major orbit-related challenges. A spectrum of approaches will be discussed. Surgical techniques will be illustrated. Tips and pearls will be offered by expert orbit and strabismus surgeons alike, along with a few case examples. Audience participation and discussion will be encouraged.

11:00 - 12:30 **Venue: Meeting Room 2**  
*Chair(s): Sonal FARZAVANDI, Faruk ORGE, Prapatsorn PATIKULSILA*

- 11:00 Update on Implant Selection for Orbital Floor Fracture Repair  
*Srini IYENGAR*
- 11:10 Tackling Strabismus After Orbital Floor Fractures  
*Faruk ORGE*
- 11:20 Characteristics of Orbital Tumors Leading to Strabismus  
*Peter DOLMAN*
- 11:30 Strabismus with and without Known Tumor in the Orbit  
*Jan Tjeerd DE FABER*
- 11:40 Cicatricial Thyroid Eye Disease  
*Lay Leng SEAH*
- 11:50 Strabismus in Thyroid Eye Disease: What's New?  
*Sonal FARZAVANDI*
- 12:00 Challenging Cases: Unusual Strabismus Related to Unusual Orbital Disorders  
*Alain SPIELMANN*
- 12:10 Questions and Answer

### SOE Symposium: A Presidential Gift from the West to the East

The East gave gunpowder and fireworks to the West many centuries ago. Nowadays consumer firework causes a lot of eye injuries in Western Europe. In the first half of this session the treatment of firework-related eye injuries will be discussed. In the second half of this session I will show my work as a pediatric ophthalmologist in the Rotterdam Zoo in a lecture "Gorilla's out of the mist". It will give you an impression of the variety of eye diseases in a zoo and surgical techniques of cataract removal in Gorilla's, birds, horse and in a cod fish.

14:30 - 16:00 **Venue: Boardroom 2**  
*Chair(s): Jan Tjeerd DE FABER*

- 14:30 Firework Related Eye Injuries  
*Jan Tjeerd DE FABER*

- 15:15 “Gorilla’s Out of the Mist” — Pediatric Ophthalmologist in the Zoo  
*Jan Tjeerd DE FABER*

### Pediatric Retinal Diseases

The session aims to provide the latest development of pediatric retina. The main discussed disease is ROP, the leading cause of childhood blindness. The contents include epidemiology, strategies to prevent visual loss, the application of artificial intelligence, tele-screening, things to watch out after the use of anti-VEGF for ROP, and the challenges in ROP. In addition to that, important pediatric retinal diseases such as retinoblastoma and the surgical technique of retinoschisis will be covered. This information in the session will give you an in-depth understanding of the hottest questions in the field of ROP as well as other pediatric retinal disorders.

#### 14:30 - 16:00 Venue: Meeting Room 2

Chair(s): R.V. Paul **CHAN**, Supaporn **TENGTRISORN**, Wei-Chi **WU**

- 14:30 Cases that are Easily Confused with Retinoblastoma  
*Jianhong LIANG*
- 14:39 Torpedo Maculopathy  
*Wai-Ching LAM*
- 14:48 Vitrectomy for Congenital X-linked Retinoschisis  
*Shunji KUSAKA*
- 14:57 ROP: Challenges Beyond Vascularization  
*Sumita AGARKAR*
- 15:06 Delay Fibrovascular Contraction After Anti-VEGF Injection for ROP  
*Atchara AMPHONPHRUET*
- 15:15 The Epidemiology of ROP and ROP Requiring Treatment in Taiwan  
*Wei-Chi WU*
- 15:24 Strategies for Prevention of ROP Related Visual Loss in Developing & Developed Countries  
*Shuan DAI*
- 15:33 The Application of Artificial Intelligence for ROP Screening  
*Daniel TING*
- 15:42 Training for ROP and Implementation of a ROP Telemedicine Program  
*R. V. Paul CHAN*
- 15:51 Outcome of Telemedicine in ROP Network, 5 Years’ Result  
*Phanthipha WONGWAI*

### Genetics

This symposium provides an update for General Ophthalmologists and Paediatric Ophthalmologists in the rapidly advancing field of genetic eye disease.

The symposium covers advances in inherited retinal diseases as well as an update on the impact in local clinics in the region. In particular the local experience in managing retinitis pigmentosa and Stargardt disease. Understanding the systemic associations of retinal dystrophies is critical to ensure optimal management for these patients. An approach to assessing and managing Joubert syndrome will be discussed. Our understanding of anterior segment dysgenesis has expanded in the genetic era enabling an update in classification with greater connection to the underlying pathophysiology. The science behind the hope that is coming to patients with retinal dystrophies will be discussed with an update on genomic engineering and therapeutic interventions.

#### 16:30 - 18:00 Venue: Meeting Room 2

Chair(s): John **GRIGG**, Govindasamy **KUMARAMANICKAVEL**, Pittaya **PHAMONVAECHAVAN**

- 16:30 Gene Mutations in Thai RP Patients  
*La-Onsri ATCHENEYASAKUL*
- 16:45 Joubert Syndrome  
*Luis OSPINA*
- 17:00 Albinism and Its Allied Disorders: Genetics, Clinical Features and Management  
*Arcot Sadagopan KARTHIKEYAN*
- 17:15 Genomic Testing in Stargardt Disease: The Singapore National Eye Centre Experience  
*Choi Mun CHAN*
- 17:30 Anterior Segment Dysgenesis in the Genomic Era  
*John GRIGG*
- 17:45 Retinal Dystrophies in the Era of Genetic Therapies  
*Robyn JAMIESON*

### Prevention of Blindness

#### Cutting Edge Approaches to the Leading Eye Health Problems in the Asia Pacific

The burden of visual impairment falls unfairly on poorer parts of the world: 90% of global blindness occurs in low- and middle-income countries (LMICs), while 90% of research dollars are spent in rich countries. Nonetheless, the potential exists to do “more with less”, as new innovations such as AI, smartphone apps and cost-effective approaches to glaucoma screening gain ever-wider currency. This session will describe the latest developments in management of the leading blinding diseases in LMIC settings.

#### 14:30 - 16:00 Venue: Boardroom 4

Chair(s): Ving Fai **CHAN**, Nathan **CONGDON**, Kittikul **LEELAWONGS**

- 14:30 Impact of Correcting Presbyopia in the Adult Population: Learning and the Way Forward  
*Ving Fai CHAN*

- 14:40 Glaucoma Screening in Low and Middle Income Countries: Is It Cost-Effective?  
*Yuanbo LIANG*
- 14:50 DR, AI, and Their Implications for Low-Resource Screening  
*Rajiv RAMAN*
- 15:00 New BOOST App and Opportunities to Capture Cataract Surgical Outcomes Where Follow-Up is Poor  
*Nathan CONGDON*
- 15:10 Advocacy and Cooperation with Industry  
*Samuel BRUNDRETT*
- 15:20 Association Between Diabetic Retinopathy and Diabetic Nephropathy  
*Ailian HU*
- 15:30 Panel Discussion

## Refractive Surgery

### Presbyopic Treatment

- 09:00 - 10:30 **Venue: Meeting Room 1**  
*Chair(s): Robert ANG, Klaus DITZEN, Olan SUWAN-APICHON*
- 09:00 Biomechanical Changes and Improved Visual Performance After a New Presbyopia Therapy: Laser Scleral Microporation  
*Sunil SHAH*
- 09:11 Dynamic Accommodative Changes in Macaque Primate Eyes Following Laser Scleral Microporation Assessed with Ray-Tracing Aberrometry  
*Jodhbir MEHTA*
- 09:22 Simulation of Restored Accommodation After Scleral Therapies Using Finite Element Analysis  
*Annmarie HIPSLEY*
- 09:33 Presbylasik and Corneal Inlays: Pros and Cons  
*Robert ANG*
- 09:44 Laser Blended Vision for Presbyopic Treatment  
*Klaus DITZEN*
- 09:55 Presbyond & SMILE Procedures for Correction of Presbyopia  
*Sri GANESH*
- 10:06 Tifocals IOL Versus EDOF  
*John So Min CHANG*
- 10:17 Smart Electronic Lens for Presbyopia  
*Dimitri AZAR*

## Corneal & Intraocular Implants for Refractive Corrections (ICRs, Phakic IOL, etc)

- 14:30 - 16:00 **Venue: Meeting Room 1**  
*Chair(s): Ronald KRUEGER, Wiwan SANSANAYUDH, Kimiya SHIMIZU*
- 14:30 ICL: Does Size Matter?  
*Pichit NARIPTHAPHAN*
- 14:40 Cornea Inlays  
*Ronald KRUEGER*
- 14:50 ICL: History, Development, Advantages, Indications  
*Kimiya SHIMIZU*
- 15:00 Phakic IOLs in Complex Situations  
*Ramamurthy DANDAPANI*
- 15:10 Managing ICL Complications  
*Gaurav LUTHRA*
- 15:20 The New Ferrara HM: A Refractive Alternative for High Myopes Patients with Thin Corneas  
*Leonardo TORQUETTI*
- 15:30 Long Term Results of Tissue Addition Technique for Hyperopia  
*Sri GANESH*
- 15:40 Lamellar Intrastromal Keratoplasty for High Hyperopia  
*Ronald KRUEGER*
- 15:50 Panel Discussion
- Keratoconus and Refractive Management (Basic Science, Diagnosis, ICRs, Others)**
- 16:30 - 18:00 **Venue: Meeting Room 1**  
*Chair(s): Jorge ALIÓ DEL BARRIO, Vannarut SATITPITAKUL, Leonardo TORQUETTI*
- 16:30 Basic Science of Keratoconus  
*Rohit SHETTY*
- 16:41 320-ICRS: Changing Paradigms in Keratoconus  
*Leonardo TORQUETTI*
- 16:52 Diagnosis and Treatment Modalities of Keratoconus  
*Darby MILLER*
- 17:03 Long-Term Effect on Corneal Curvature of Corneal Collagen Crosslinking for Keratoconus  
*Ruben Lim Bon SIONG*
- 17:14 Enhancing Vision with Combination Treatments in Keratoconus  
*Anand PARTHASARATHY*

- 17:25 Keratoconus Treatment by Tissue Addition and Cross-Linking  
*Sheetal BRAR*
- 17:36 Cell Therapy of Keratoconus  
*Jorge ALÍO DEL BARRIO*
- 17:47 Role of Scleral Lens in Keratoconus  
*Vannarut SATITPITAKUL*

## Retina (Medical)

### APVRS Symposium: Myopic Maculopathy

09:00 - 10:30 **Venue: Plenary Hall 3**

*Chair(s): Timothy LAI, Xiaoxin LI, Hiroko TERASAKI*

- 09:00 Epidemiology and Progression of Pathologic Myopia  
*Jost JONAS*
- 09:15 Myopic Traction Maculopathy: Staging and Guidelines to Management  
*Barbara PAROLINI*
- 09:30 Inflammatory Disease Related to Pathological Myopia: Clinical Observation and Thinking  
*Xiaoling LIU*
- 09:45 Myopic CNV: Evidence Based Management  
*Timothy LAI*
- 10:00 Management of Myopic Traction Maculopathy  
*Hiroko TERASAKI*
- 10:15 Complications of Myopic Maculopathy Surgery  
*Andrew CHANG*

### WIO Symposium: Unlocking the Doors to Challenges in Medical Retina & Uveitis — A series of Challenging Cases

11:00 - 12:30 **Venue: Meeting Room 4**

*Chair(s): Shu Yen LEE, Kessara PATHANAPITOON, Seung Young YU*

- 11:00 Case 1  
*Nuzhat CHOUDHURY*
- 11:15 Case 2  
*Mirunalini KUMARADAS*
- 11:30 Case 3  
*Ann-Marie LOBO*
- 11:45 Case 4  
*Nor Fariza NGAH*
- 12:00 Case 5  
*Eli PRADHAN*

- 12:15 Case 6  
*Shwu-Jiuan SHEU*

### ISCEV Instruction Course: Clinical Usefulness of Electrophysiology

The course will address the practical application of clinical electrophysiology of vision. After an introductory lecture on the basics of visual electrophysiology, lectures will demonstrate how the results are used in the diagnosis and management of inherited and acquired retinal disease. A further lecture will address the diagnosis of optic nerve disease and the differentiation from macular dysfunction. The lectures will be followed by some interesting case reports.

11:00 - 12:30 **Venue: Plenary Hall 3**

*Chair(s): Graham HOLDER, Atiporn THUANGTONG, Shuichi YAMAMOTO*

- 11:00 Principles of Electrophysiology  
*Bo LEI*
- 11:18 Diagnosis for Inherited Retinal Diseases  
*Tharikarn SUJIRAKUL*
- 11:36 Diagnosis for Acquired Retinal Diseases  
*Mineo KONDO*
- 11:54 Diagnosis for Optic Nerve and Other Diseases  
*Graham HOLDER*
- 12:12 Clinical Case 1  
*Bo LEI*
- 12:15 Clinical Case 2  
*Tharikarn SUJIRAKUL*
- 12:18 Clinical Case 3  
*Mineo KONDO*
- 12:21 Clinical Case 4  
*Graham HOLDER*

### Retinal and Choroidal Vascular Disorders

This session is divided into 3 parts, starting with presentations on the current management of retinal vein occlusions. Thereafter is an update on the management of pachychoroidal diseases and finally, there will be 3 presentations on the treatment options for central serous chorioretinopathy. The learning aims for the audience are to understand the indications and outcomes when treating retinal and choroidal vascular conditions with different treatment modalities.

14:30 - 16:00 **Venue: Plenary Hall 3**

*Chair(s): Marten BRELEN, Taraprasad DAS, Mansing RATANASUKON*

- 14:30 Current Management of RVO  
*Raja NARAYANAN*
- 14:42 Role of Laser Treatment in RVO  
*Ian MCALLISTER*

- 14:54 Update in Pachychoroid  
*Won Ki LEE*
- 15:06 Imaging Characteristics of Pachychoroid Diseases  
*Xinyuan ZHANG*
- 15:18 Role of Anti-VEGF Therapy in CSC  
*Shu Yen LEE*
- 15:30 Role of Mineralocorticoid Antagonist in CSC  
*Pear PONGSACHAREONNONT*
- 15:42 Role of Laser Treatment in CSC  
*Marten BRELEN*

### Technology and Innovations in Medical Retina

Advances in retinal diagnostics are moving forward at a break-neck pace. These range from the highest-resolution small field imaging using adaptive optics and high-resolution OCT to widefield imaging spanning the entire fundus. In addition to advances in resolution and field of view, imaging breakthroughs are improving image contrast, taking advantage of new imaging spectra. Advances in diagnostics are not limited to optical techniques alone, with new innovations in electrophysiology providing novel insights into retinal function. Finally, to contend with massive amounts of new diagnostic data, big data and artificial intelligence techniques have evolved to facilitate rapid and efficient analysis. This session provides an overview of these exciting advances in retinal diagnostics.

- 16:30 - 18:00 **Venue: Plenary Hall 3**  
*Chair(s): Mark GILLIES, Srinivas SADDA, Yosanan YOSPAIBOON*
- 16:30 Epidemiology and Big Data  
*Rajiv RAMAN*
- 16:40 Registries: Fight Retinal Blindness  
*Mark GILLIES*
- 16:50 Automated Segmentation of Lesions in Neovascular AMD  
*Hyung Chan KIM*
- 17:00 Advances in Electrophysiology for Retinal Disorders  
*Graham HOLDER*
- 17:10 Advances in Autofluorescence  
*Srinivas SADDA*
- 17:20 Advances in Widefield Imaging  
*Yuichiro OGURA*
- 17:30 Where are We Going with OCT?  
*Colin TAN*

## Retina (Surgical)

### Management of Rhegmatogenous Retinal Detachment and Complex Retinal Surgery

09:00 - 10:30 **Venue: Meeting Room 4**  
*Chair(s): Nishant Vijay RADKE, Warapat WONGSAWAD, Doric WONG*

- 09:00 Prognosticating Macula off RD  
*Shu Yen LEE*
- 09:11 Scleral Buckle Revisited  
*Mahesh Shanmugam PALANIVELU*
- 09:22 Conquering PVR Step by Step  
*Nishant Vijay RADKE*
- 09:33 Combined Buckle Vitrectomy  
*Doric WONG*
- 09:44 Step by Step Approach to Giant Retinal Tear RD  
*Warapat WONGSAWAD*
- 09:55 Combined Retinal Detachments in PDR  
*Michael STEWART*
- 10:06 Managing Complex Retinal Detachments in HIV Patients  
*Chetan RAO*
- 10:17 Comparing Ngenuity and Operating Microscope for Complex Vitreoretinal Surgeries: Initial Experience of 19 VR Surgeons  
*Rajiv RAMAN*

### What's New for Macular Surgery

Techniques in macula surgery continue to develop and more refined. This symposium will cover new techniques using artificial intelligence, 3D visualization, and robots in macular surgery. Intraoperative OCT allows a more accurate definition of tissue planes with the aim of achieving better outcomes. Management of challenging pathology including myopic maculopathy and refractory macula holes with innovative techniques including flaps and autologous transplants will be discussed.

14:30 - 16:00 **Venue: Meeting Room 4**  
*Chair(s): Andrew CHANG, Yuichiro OGURA, Wenbin WEI*

- 14:30 What's New on Management of Complicated Macular Hole Associated with Retinal Detachment  
*Chung-May YANG*
- 14:41 What's New on Autologous Retinal Transplantation  
*Barbara PAROLINI*



- 14:52 What's New on Intra-Operative OCT  
*Hiroko* **TERASAKI**
- 15:03 What's New on Robotic Macular Surgery  
*Marc* **DE SMET**
- 15:14 What's New on Myopic Maculopathy Surgery  
*Makoto* **INOUE**
- 15:25 Allogeneic Lens Capsular Flap Transplantation for Refractory Macular Holes  
*Peiquan* **ZHAO**
- 15:36 What's New on AI for Macular Surgery  
*Paisan* **RUAMVIBOONSUK**
- 15:47 What's New in 3D Macular Surgery  
*Nuttawut* **RODANANT**

## Translational Research in Ophthalmology

### Retinal Diseases: Looking into the Future

This session of new translational retinal research covers a very broad range: novel imaging with high tech cameras and smartphone apps for disease detection and monitoring; stem cell therapy; gene therapy; new frontiers in anti-VEGF therapy; monitoring co-morbidities of retinal diseases, glaucoma and blood pressure; and community screening for retinal disease. We welcome an audience with correspondingly wide interests for stimulating Q&A.

09:00 - 10:30 **Venue: C Ground Meeting Room 2**  
*Chair(s): R* **SMITH**, *Tharikarn* **SUJIRAKUL**, *Masayo* **TAKAHASHI**

- 09:00 A Prototype Clinical Hyperspectral AF Camera for Early Detection of Drusen and Drusen Precursors in AMD  
*R* **SMITH**
- 09:11 iPS Stem Cell for Retina Diseases: Where are We Going Next?  
*Masayo* **TAKAHASHI**
- 09:22 Anti-VEGF Therapy for Myopic CNV  
*Tae* **YOKOI**
- 09:33 The Role of Internal Limiting Membrane in Gene Therapy: Results of Studies on Nonhuman Primate  
*Kelvin* **TEO**
- 09:44 Lessons in Development of a National DR Screening Program in Singapore  
*Gavin Siew-Wei* **TAN**
- 09:55 Integrated Smartphone Apps for Monitoring Retinal Diseases  
*Victor* **CHONG**

- 10:06 Continuous 24-Hour Monitoring of IOP Fluctuation, Blood Pressure, and Body Position  
*Ki Ho* **PARK**

### Corneal Diseases: Looking into the Future

Corneal disease is a major cause for visual loss worldwide. Knowledge of new and emerging technologies and procedures for the treatment of corneal diseases have advanced considerably. This symposium will highlight the most recent progress of several exciting new treatment modalities, including nerve growth factor for neurotrophic keratitis, blood components and their role for promoting corneal wound healing, Rho kinase inhibitors for corneal endothelial diseases, and iPS cells technology for severe ocular surface diseases. This session will also cover the future of refractive surgery and tissue engineering. Additionally, the audience will have the opportunity to understand the benefits of OCT angiography for many conditions that affect the cornea.

14:30 - 16:00 **Venue: C Ground Meeting Room 2**  
*Chair(s): Sophie* **DENG**, *Tsutomu* **INATOMI**, *Kaevin* **LEKHANONT**

- 14:30 Nerve Growth Factors in Neurotrophic Keratitis  
*Sophie* **DENG**
- 14:45 Blood Components and Their Potential Role for Corneal Healing  
*Wei Li* **CHEN**
- 15:00 Application of Rho Kinase Inhibitors for the Treatment of Corneal Endothelial Diseases  
*Naoki* **OKUMURA**
- 15:15 iPS Cells Technology: Promising Treatment for Severe Ocular Surface Diseases  
*Kohji* **NISHIDA**
- 15:30 Refractive Surgery 2030 OR Tissue Engineering  
*Jodhbir* **MEHTA**
- 15:45 OCT Angiography for Corneal Diseases  
*Marcus* **ANG**

## Visual Sciences

### Translational Research in Ophthalmology: Emerging Therapies

Translational research is one of the leading areas in ophthalmology. Experimental models using animal models, genetic manipulation and patient-derived cells could help in elucidating the disease mechanisms for corneal and retinal diseases. With the discoveries of new disease mechanisms and pathophysiology, emerging therapies from the benchside are on the way becoming reality to the bedside. All these make translational research an exciting area, and the updated progress will be shown in this symposium.

09:00 - 10:30 **Venue: C Ground Meeting Room 1**  
*Chair(s): Passara JONGKHAJORN PONG, Tsz-Kin NG, Kohji NISHIDA*

- 09:00 Axonal Transport of Mitochondria  
 Masaru **INATANI**
- 09:12 HTRA1 Causes Photoreceptor Cell Death, Leading to AMD Phenotype  
 Motokazu **TSUJIKAWA**
- 09:24 Genetically Uncover Novel Mechanisms for Ocular Surface and Adnexa Abnormalities Using a Mouse Model with Disruption of Prickle 1  
 Chunqiao **LIU**
- 09:36 Micro-Electrical Stimulation to Slow Retinal/Optic Nerve Degeneration  
 Chi **LUU**
- 09:48 Neurobehavioral Modulation in Glaucoma  
 Kevin **CHAN**
- 10:00 Roles of Inflammation in Neural Repair After Optic Nerve Injury  
 Ling-Ping **CEN**
- 10:12 Induction of Non-Integrated iPSCs from Urine Cells of Juvenile X-Linked Retinoschisis and RP Patients  
 Shibo **TANG**

### Ocular Immunity and Inflammatory Diseases

11:00 - 12:30 **Venue: C Ground Meeting Room 1**  
*Chair(s): Paul BAIRD, Wai Kit CHU, Somsiri SUKAVATCHARIN*

- 11:00 Neuroinflammation via HIF-1 $\alpha$ -NLRP12/NLR4 Inflammasome Pathway  
 Wei **CHI**
- 11:12 Roles of GH-Releasing Hormone in Experimental Autoimmune Intraocular Inflammation  
 Wai Kit **CHU**
- 11:24 Imaging Findings of Spectral-Domain Anterior Segment Optical Coherence Tomography in Uveitic Eyes of Various Etiologies  
 Noriyasu **HASHIDA**
- 11:36 TBC  
 Jun **CHEN**
- 11:48 Cancer Immunotherapy-Related Uveitis  
 Ming-Lee **LIN**
- 12:00 Role of Immune Cells in AMD and Role of Immune Cells  
 Yasuo **YANAGI**

- 12:12 Comparison of Changes in Aqueous Inflammation in Low-Energy Femtosecond Laser-Assisted Cataract Surgery Versus Conventional Phacoemulsification  
 Yu-Chi **LIU**

- 12:24 Laser-Assisted Cataract Surgery Versus Conventional Phacoemulsification  
 Yu-Chi **CHIU**

- 12:36 Flow Cytometry of IgG4-Related Ophthalmic Disease  
 Satoru **KASE**

### Human Retinal Organoids and Disease Modelling

14:30 - 16:00 **Venue: C Ground Meeting Room 1**  
*Chair(s): Livia CARVALHO, Calvin PANG, Tharikarn SUJIRAKUL*

- 14:30 Transcriptome Dynamics or Treatment Paradigms for Retinal Disease Using Human Retinal Organoids  
 Rossukon **KAEWKHAW**
- 14:42 RP Patient-Derived Retinal Organoids: A Frankenstein's Disease Model  
 Zi-Bing **JIN**
- 14:54 Modelling Human Retinal Development and Disease Using Retinal Organoids  
 Carla **MELLOUGH**
- 15:06 Animal Models for Human Retinal Diseases  
 Haoyu **CHEN**
- 15:18 Alleviation of Pathologic Features in Rodent Models of Eye Diseases  
 Calvin **PANG**
- 15:30 Engineered Retinal Tissue Grafts  
 Shaomin **PENG**
- 15:42 Cytopathology of Vitreoretinal Lymphoma  
 Kenichi **NAMBA**

### Stem Cells to Translation

16:30 - 18:00 **Venue: C Ground Meeting Room 2**  
*Chair(s): Carla MELLOUGH, Wichai PRASARTRITHA, Motokazu TSUJIKAWA*

- 16:30 Retinal Cell Therapy Using iPSC cells  
 Masayo **TAKAHASHI**
- 16:45 iPSC Cell-Based Therapy for Corneal Diseases  
 Kohji **NISHIDA**
- 17:00 Application of Mesenchymal Stem Cells for Retinal Diseases  
 Tsz-Kin **NG**
- 17:15 Corneal Epithelial Stem Cell Niche: From Basic to Clinic  
 Wei **LI**

- 17:30 Using Induced Pluripotent Stem Cells to Model Primary Open-Angle Glaucoma (POAG)  
*Maciej **DANISZEWSKI***
- 17:45 Multilineage Differentiating Stress-Enduring (Muse) Cells and Their Therapeutic Potential for Corneal Scarring Wound in Mouse and Tree Shrew  
*Jiansu **CHEN***



## Cataract

### Update on Cataract Surgery Pharmacology

This symposium discusses major topics pertaining to pharmacological agents commonly used in cataract surgery which directly influence outcomes. Topics include preoperative ocular antisepsis, intracameral antibiotic endophthalmitis prophylaxis, TASS, intracameral mydriatics, and perioperative use of corticosteroids and their risks and side effects. In addition, the role of NSAIDs and the results of the landmark clinical trial on CME prophylaxis (PREMED) will be presented. All presentations will be followed by a panel discussion by the international faculty of global experts.

09:00 - 10:30 **Venue: Plenary Hall 2**  
*Chair(s): Steve **ARSHINOFF**, Tat Keong **CHAN**, Pipat **KONGSAP***

- 09:00 Risk Factors for Steroid Response among Cataract Patients  
*David **CHANG***
- 09:12 Intracameral Mydriatics  
*John So Min **CHANG***
- 09:24 What's New in Ocular Antisepsis?  
*William **MYERS***
- 09:36 Choosing Your Intracameral Antibiotics  
*Steve **ARSHINOFF***
- 09:48 Intracameral Moxifloxacin for Endophthalmitis Prophylaxis in Cataract Surgery (Aravind Experience)  
*Haripriya **ARAVIND***
- 10:00 Intraocular Drug-Related Complications: Learning from Past Lessons  
*Tat Keong **CHAN***

- 10:12 CME Prophylaxis in Cataract Surgery: The PREMED Study  
*Marie-Jose **TASSIGNON***
- 10:24 Conclusion and Discussion

## Cornea, External Eye Diseases & Eye Bank

### Advances in Corneal/Anterior Segment Imaging

Corneal imaging has advanced rapidly over the last decade. Limited imaging techniques of the past have given way to newer methods that allow for imaging of both the entire corneal surface and the anterior segment. The symposium will discuss the clinical applications of Placido, Scheimpflug, OCT, and confocal imaging and emerging uses for biomechanics.

09:00 - 10:30 **Venue: Ballroom**  
*Chair(s): Michael **BELIN**, Chareenun **CHIRAPAPAIAN**, Dipika **PATEL***

- 09:00 Computerized Videokeratocope (Placido) is Still the Gold Standard for Screening Patients  
*Julie **SCHALLHORN***
- 09:12 The Gold Standard was Abandoned 80 Years Ago: So, Should Placido Imaging  
*Michael **BELIN***
- 09:24 Anterior Segment OCT: Clinical Applications and Differences between Machines  
*Chareenun **CHIRAPAPAIAN***
- 09:36 In Vivo Confocal Microscopy of the Inflamed Anterior Segment: Clinical Applications  
*Dipika **PATEL***
- 09:48 Tomographic Classification of Fuchs Dystrophy  
*Sanjay **PATEL***
- 10:00 Bio-Mechanics: Convince Me  
*Akilesh **GOKUL***
- 10:12 Panel Discussion

## Orbital and Oculoplastic Surgery

### APOTS Trauma Course: Concepts in Ophthalmic Trauma & Intraocular Complications Mode

09:00-10:30 **Venue: Plenary Hall 1**  
*Chair(s): Rajvardhan **AZAD**, S **NATARAJAN**, Hua **YAN***  
*Moderator(s): Annette **HOSKIN**, Sunil **MOREKER***

- 09:00 Global Assessment of the Ophthalmic Trauma Pt (Incl OTS, POTS & More)  
*Syed **KADIR***

- 09:08 Sutures & Needles in Ocular and Adnexal Trauma (Incl Dos & Don'ts)  
*Yunia IRAWATI*
- 09:16 Diagnostic Investigations in the Trauma Pt: Ultrasound, UBM, OCT, CT & MRI (When to Do What & How to Interpret?)  
*Eli PRADHAN*
- 09:24 The Good, Bad & Ugly (Examples of Ideal, Suboptimal and Poor Outcomes)  
*Hua YAN*
- 09:32 Life Lessons Learnt in the Management of Ophthalmic Trauma and Need for Asia-Pacific Collaboration in Ophthalmic Trauma  
*Ashok GROVER*
- 09:40 Managing Tissue Loss in Trauma: Corneal and Scleral Patch Graft  
*Kendrick SHIH*
- 09:48 How to Decide: Infection vs Inflammation After Trauma  
*Chetan RAO*
- 09:56 Managing Traumatic Cyclodialysis  
*Lingam VIJAYA*
- 10:04 Nuances of Managing Vegetative Intraocular Foreign Body  
*Hussain KHAQAN*
- 10:12 Managing Suprachoroidal Hem in Trauma  
*Tengku KAMALDEN*
- 10:20 Panel Discussion  
*Maneesh BAPAYE, Lingam GOPAL, Manoj KHATRI, Mohan RAJAN, Moneesh SAXENA*

### How I Manage Patients with Tearing

This session aims to present new concepts in the management of patients with lacrimal problems such as tearing. Techniques such as external DCR, endonasal DCR, and endoscopic transcanalicular DCR will be covered. The anatomy and physiology of the lacrimal system as well as the contemporary management of tearing, different lacrimal surgeries and different lacrimal stents will be discussed in detail.

09:00 - 10:30 **Venue: Lotus Room**  
*Chair(s): Reynaldo JAVATE, Damrong WIWATWONGWANA, Kyung In WOO*

- 09:00 Anatomy and Physiology of the Lacrimal System  
*Suk-Woo YANG*
- 09:10 Lacrimal Stents and Intubation Systems  
*Reynaldo JAVATE*
- 09:20 Non-Endoscopic Endonasal DCR in My Practice  
*Damrong WIWATWONGWANA*

- 09:30 Management of Acute Dacryocystitis  
*Hunter YUEN*
- 09:40 Endonasal DCR Using Radiosurgery  
*Nikolay KRAKHOVETSKIY*
- 09:50 Management of Proximal Lacrimal Obstructions  
*Ashok GROVER*
- 10:00 How to Maximize Result External DCR  
*Sombat TANABOONYAWAT*
- 10:10 Questions and Answers

## Pediatric Ophthalmology & Strabismus

### What's New in Pediatric Ophthalmology and Strabismus

09:00 - 10:30 **Venue: Meeting Room 2**  
*Chair(s): Craig DONALDSON, Kanwal 'Ken' NISCHAL, Nutsuchar WANGTIRAUMNUAY*

- 09:00 Optic Neuritis in Children  
*Prem SUBRAMANIAN*
- 09:12 Integrated Intraoperative OCT for Pediatric Ocular Surgery  
*Kanwal 'Ken' NISCHAL*
- 09:24 In 2019 What are the Newest Techniques for III'd N Palsy, Duane Syndrome I or Sixth Nerve Palsy  
*Craig DONALDSON*
- 09:36 Myopia Control Update  
*Andrzej GRZYBOWSKI*
- 09:48 Refractive Surgery for Children  
*William ASTLE*
- 10:00 Use of a Mobile Application for Home Strabismus Screening and Tele-Ophthalmology  
*Warachaya PHANPHRUK*
- 10:12 Assessing Abnormal Head Posture: A New Paradigm  
*Lionel KOWAL*

## Prevention of Blindness

### Epidemiology in Prevention of Blindness

Audiences will learn from this session the most recent updates, from specific disease level to more comprehensive system management, via Prevention of Blindness epidemiological viewpoint from top internationally experienced instructors, researchers and policymakers. To shape the future of eye care in our diverse Asia Pacific, for the benefit not limited to

individual patients but also facilitate the systematic improvement of service delivery projects, researches and policymaking in local, national and international scale presently and in the future.

09:00 - 10:30 **Venue: Boardroom 4**  
Chair(s): Ava **HOSSAIN**, Warapat **WONGSAWAD**, Ningli **WANG**

- 09:00 Real World Management & Outcome for PCV, Fight Retinal Blindness Cohort  
Kelvin **TEO**
- 09:12 CSC and CSR in China  
Ningli **WANG**
- 09:24 A Nationwide Survey of Pseudoexfoliation and True Exfoliation Syndromes in Thailand  
Chaiwat **TEEKHASAENEE**
- 09:36 Diabetic Retinopathy  
Ecosse **LAMOUREUX**
- 09:48 Myopia  
Seang Mei **SAW**
- 10:00 High-Quality Research — Data Analysis and Publication  
Mingguang **HE**
- 10:12 Prevalence of Visual Impairment in Older Adults in Rural China in 2014 and Comparison with 2006 China Nine-Province Survey  
Jialiang **ZHAO**

## Refractive Surgery

### Challenging Cases and Complications: How To Solve Them

09:00 - 10:30 **Venue: Meeting Room 1**  
Chair(s): Tommy **CHAN**, Jodhbir **MEHTA**, Tarinee **SANGIAMPORNPANIT**

- 09:00 LASIK Complications and Management  
Minoru **TOMITA**
- 09:12 Managing Intraoperative Femto Flap Complications  
Mohamad **ROSMAN**
- 09:24 Management of SMILE Ectasia with Tissue Addition Technique and Pocket C3R  
Sheetal **BRAR**
- 09:36 Haze After Presbyopic in Lay  
Jodhbir **MEHTA**
- 09:48 Infections After SMILE: What, When and Why?  
Vilavun **PUANGSRICHARERN**

- 10:00 Managing the Dislocated Multifocal/Toric IOL  
George **BEIKO**
- 10:12 Management of Infection After ICRs Implantation  
Usanee **REINPRAYOON**

## Visual Sciences

### Gene Therapy

09:00 - 10:30 **Venue: C Ground Meeting Room 2**  
Chair(s): Chi **LUU**, Duangnate **ROJANAPORN**, Xiao **YANG**

- 09:00 Gene Therapy for Glaucoma  
Mark **HASSALL**
- 09:15 Gene Therapy to the Corneal Endothelium  
Thomas **FUCHSLUGER**
- 09:30 Current Developments in Gene Therapy for Retinal Degeneration  
Livia **CARVALHO**
- 09:45 Retained Plasticity at the Visual Cortex and Recovery of Vision in Blind Adult Mice with Retinal Dystrophy Following Gene Therapy  
Koji **NISHIGUCHI**
- 10:00 Uveal Melanoma  
Bin **LI**
- 10:15 Ocular Gene Therapy and Genome Editing  
Guei-Sheung **LIU**



# WET LAB COURSES

**MAR  
06,  
2019  
(WED)**

## APGS-MIGS Interest Group Wetlab Course: XEN Gel Implant

The use of minimally invasive glaucoma surgery (MIGS) is growing in the Asia-Pacific region, with the influx of many new devices. The Asia Pacific Glaucoma Society (APGS)-MIGS Interest Group was established to lead MIGS education and to provide guidance for surgeons on the use of MIGS devices in the Asia-Pacific region. The inaugural APGS-MIGS Interest Group wetlabs cater to beginner surgeons who have no or minimal exposure to MIGS. Experts will practical tips and tricks for implanting the devices, and hands-on experiences with the devices will be provided.

**09:00 - 11:00 Venue: Wetlab Room 1**

- 09:00 Introduction, Patient Selection, and XEN Data  
*Michael COOTE*
- 09:15 Pre-Operative Conjunctival Preparation and Surgical Technique  
*Paul HEALEY*
- 09:30 Intra-Operative Tips and Pearls  
*Prin ROJANAPONGPUN*
- 09:45 Post-Operative Management  
*Leonard YIP*
- 10:00 Hands-On Practice  
*Seng Kheong FANG, Paul HEALEY, Michael COOTE, Jui-ling LIU, Jayant VENKATRAMANI, Prin ROJANAPONGPUN, Chelvin SNG, Visanee TANTISEVI, Leonard YIP*

## APGS-MIGS Interest Group Wetlab Course: iStent Wetlab

The use of minimally invasive glaucoma surgery (MIGS) is growing in the Asia-Pacific region, with the influx of many new devices. The Asia Pacific Glaucoma Society (APGS)-MIGS Interest Group was established to lead MIGS education and to provide guidance for surgeons on the use of MIGS devices in the Asia-Pacific region. The inaugural APGS-MIGS Interest Group wetlabs cater to beginner surgeons who have no or minimal exposure to MIGS. Experts will practical tips and tricks for implanting the devices, and hands-on experiences with the devices will be provided.

**11:30 - 13:30 Venue: Wetlab Room 1**

- 11:30 Introduction, Patient Selection and iStent Data  
*Robert ANG*
- 11:45 iStent Trabecular Micro-Bypass Stent  
*George BEIKO*
- 12:00 iStent Inject Surgical Technique  
*Nathan KERR*
- 12:15 Stent Inject – Tips and Pearls  
*Don PEK*
- 12:30 Hands-On Practice  
*Robert ANG, George BEIKO, Poemen CHAN, Rahat HUSAIN, Md.Nazrul ISLAM, Nathan KERR, Don PEK, Shamira PERERA, Chelvin SNG*

## APGS-MIGS Interest Group Wetlab Course: Hydrus Microstent

The use of minimally invasive glaucoma surgery (MIGS) is growing in the Asia-Pacific region, with the influx of many new devices. The Asia Pacific Glaucoma Society (APGS)-MIGS Interest Group was established to lead MIGS education and to provide guidance for surgeons on the use of MIGS devices in the Asia-Pacific region. The inaugural APGS-MIGS Interest Group wetlabs cater to beginner surgeons who have no or minimal exposure to MIGS. Experts will practical tips and tricks for implanting the devices, and hands-on experiences with the devices will be provided.

**14:00 - 16:00 Venue: Wetlab Room 1**

- 14:00 Introduction, Patient Selection and Hydrus Data  
*Rahat HUSAIN*
- 14:15 Intra-operative Gonioscopy and Implantation Technique  
*Robert ANG*
- 14:30 Management of Intra-Operative and Post-Operative Complications  
*Shamira PERERA*
- 14:45 Optimizing Outcomes and Surgical Pearls  
*Paul HEALEY*
- 15:00 Hands-On Practice  
*Robert ANG, Paul HEALEY, Rahat HUSAIN, Nathan KERR, Shamira PERERA, Chelvin SNG*

06

SUBMITTED PROGRAM

# INSTRUCTION COURSES

MAR  
06,  
2019  
(WED)

## Cornea, External Eye Diseases & Eye Bank

### Pearls and Pitfalls in DMEK surgery

09:00 - 10:30 **Venue: Boardroom 2**  
*Chair(s): Kaevalin LEKHANONT*

09:00 Lecture 1  
*Kaevalin LEKHANONT*

09:05 Lecture 2  
*Alain SAAD*

09:15 Lecture 3  
*Francis PRICE JR*

09:40 Lecture 4  
*Marianne PRICE*

10:00 Lecture 5  
*Marcus ANG*

## Orbital and Oculoplastic Surgery

### Lessons Learned in East Asian Eyelid Surgery

11:00 - 12:30 **Venue: Boardroom 2**  
*Chair(s): Audrey LOOI*

11:00 Understanding Structural Differences in the East Asian Eyelid  
*Gillian TEH*

11:15 True Lifting in Ptosis Surgery  
*Sunny SHEN*

11:30 Understanding the Pitfalls in East Asian Upper Blepharoplasty  
*Audrey LOOI*

11:50 Lower Blepharoplasty — Do it Right and Fix it Right  
*Chaiteck CHOO*

12:05 Filler Augmentation in Lower Blepharoplasty  
*Kasturi BHATTACHARJEE*

MAR  
07,  
2019  
(THU)

## Cataract

### Conquering Capsule Complications — My Best Teaching Videos

09:00 - 10:30 **Venue: C Ground Meeting Room 2**  
*Chair(s): David CHANG*

09:00 Conquering Capsule Complications  
*David CHANG*

## Cornea, External Eye Diseases & Eye Bank

### Advances in Endothelial Keratoplasty

11:00 - 12:30 **Venue: Boardroom 2**  
*Chair(s): Marcus ANG*

11:00 Introduction  
*Marcus ANG*

11:15 DMEK Made Easy  
*Martin DIRISAMER*

11:30 Descemetorrhhexis without EK or DWEK as a Therapy  
*Gregory MOLONEY*

11:45 DMT and Endothelial Cell Therapy  
*Jodhbir MEHTA*

12:00 Advanced DSAEK and Femto EK  
*Jorge ALIÓ DEL BARRIO*

## Glaucoma

### Micro-Invasive Glaucoma Surgery

16:30 - 18:00 **Venue: Boardroom 3**  
*Chair(s): Chelvin SNG*

- 16:30 Overview & Trabecular Bypass Devices  
*Chelvin SNG*
- 17:10 Subconjunctival Devices & Suprachoroidal Devices  
*Keith BARTON*

## Ocular Oncology & Pathology

### Retinoblastoma 2019 — They Live and See

09:00 - 10:30 **Venue: Boardroom 2**  
*Chair(s): Santosh HONAVAR*

- 09:00 Eye and Vision Salvage Therapy in Retinoblastoma  
*Santosh HONAVAR*
- 09:15 Management of Advanced Retinoblastoma  
*Santosh HONAVAR*
- 09:30 Diagnosis of Retinoblastoma and Differential Diagnosis  
*Fairooz Puthiyapurayil MANJANDAVIDA*
- 09:40 Classification of Retinoblastoma  
*Fairooz Puthiyapurayil MANJANDAVIDA*
- 09:50 Histopathology of Retinoblastoma — Standardized Reporting and Prognostic Factors  
*Kaustubh MULAY*

## Orbital and Oculoplastic Surgery

### Orbital Venolymphatic Malformations: Toolbox for Management

14:30 - 16:00 **Venue: Boardroom 2**  
*Chair(s): Daniel ROOTMAN*

- 14:30 Venolymphatic Malformations & Panel Case Discussion  
*Daniel ROOTMAN*
- 14:55 Venous Malformations & Panel Case Discussion  
*Weerawan CHOKTHAWEESEK*
- 15:10 Overview Vascular Malformation Classification & Panel Case Discussion  
*Bunyada PUTTHIRANGSIWONG*

15:25 Lymphatic Malformations & Panel Case Discussion  
*Pornchai MAHAISAVARIYA*

MAR  
08,  
2019  
(FRI)

## Cataract

### Mastering Phaco Nightmares and Worst-Case Scenarios — A Video-Based Course

09:00 - 10:30 **Venue: Boardroom 2**  
*Chair(s): Amar AGARWAL*

- 09:00 Single Pass 4 Throw Pupilloplasty and Phaco Nightmares  
*Amar AGARWAL*
- 09:30 Glued IOL and IOL Scaffold  
*Athiya AGARWAL*
- 09:40 Challenging Phaco Cases  
*David CHANG*
- 10:10 Subluxated Cataracts  
*Soon-Phaik CHEE*

## Cornea, External Eye Diseases & Eye Bank

### IEEI Surgical Video Symposium: Innovative Surgical Approaches to Challenging Cases

11:00 - 12:30 **Venue: Boardroom 2**  
*Chair(s): Maria CORTINA*

- 11:00 Cornea  
*Maria CORTINA*
- 11:15 Oculoplastics  
*Pete SETABUTR*
- 11:30 Retina  
*William MIELER*
- 11:45 Cornea  
*Elmer TU*
- 12:00 Glaucoma  
*Thasarat VAJARANANT*

06

SUBMITTED PROGRAM

## Comprehensive Guide to Managing Ocular Complications of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Asians

16:30 - 18:00 **Venue: Boardroom 3**

Chair(s): Kendrick **SHIH**

- 16:30 Diagnosis and Classification: Prognostic Implications  
Kendrick **SHIH**
- 16:40 Management of Acute Ocular Surface Inflammation: Paradigm Shift Towards Early Amniotic Membrane Transplantation  
Alex Lap Ki **NG**
- 16:55 Ocular Surface Reconstruction — Mucous Membrane Grafting  
Ka Wai **KAM**
- 17:15 Use of Scleral Contact Lenses for Visual and Ocular Surface  
Vanissa **CHOW**
- 17:30 Cataract Management in Cicatrizing Conjunctivitis  
Hon Shing **ONG**

## Ocular Imaging

### Advanced Interpretation of OCT and OCTA for General Ophthalmologists — Front to the Back of the Eye

16:30 - 18:00 **Venue: Boardroom 2**

Chair(s): Anna **TAN**

- 16:30 Introduction to OCT, OCTA and an Approach to OCTA Interpretation  
Anna **TAN**
- 16:40 Common OCT Misdiagnosis  
Anna **TAN**
- 16:50 Challenging OCTA Cases in the Retina and Choroid  
Adnan **TUFAIL**
- 17:05 Pearls and Pitfalls of OCT and OCTA Imaging of the Optic Nerve  
Leopold **SCHMETTERER**
- 17:20 Advanced Interpretation of Anterior Segment OCT and OCTA  
Marcus **ANG**
- 17:35 OCTA of Orbital Diseases  
Yvonne **CHUNG**
- 17:50 Case Discussions  
Dolz-Marco **ROSA**

## Orbital and Oculoplastic Surgery

### Orbit, Oculoplastic Surgery, and Ophthalmic Oncology — What's New

16:30 - 18:00 **Venue: C Ground Meeting Room 1**

Chair(s): Gangadhara **SUNDAR**

- 16:30 Eyelid Retraction — Non Surgical Management  
Kyung In **WOO**
- 16:44 Cone Beam CT in Lacrimal Drainage Disorders  
Toru **SUZUKI**
- 16:58 Challenge of the Cryptophthalmic Socket  
Dongmei **LI**
- 17:12 What's New in Ophthalmic Oncology  
Santosh **HONAVAR**
- 17:26 What's New in Orbital Fractures  
Gangadhara **SUNDAR**

## Retina (Surgical)

### Management of RRD in 2019

11:00 - 12:30 **Venue: Boardroom 3**

Chair(s): Pear **PONGSACHAREONNONT**

- 11:00 Combined Lens Removal with Vitrectomy in RRD  
Pear **PONGSACHAREONNONT**
- 11:15 Classification Schemes and Prognosis of RRD  
Nicola **GAN**
- 11:30 Choice of RRD Treatment in 2019  
Sherman **VALERO**
- 11:45 RRD Surgery in Complicated Situation  
Srinivas **JOSHI**
- 12:00 Latest Advanced in Vitrectomy 2019  
Wai-Ching **LAM**

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(SAT)**

## Cataract

### IOL Implantation in the Absence of Capsular Support

11:00 - 12:30 **Venue: Boardroom 2**  
Chair(s): Mohan **RAJAN**

- 11:00 PCR Ten Commandments  
Mohan **RAJAN**
- 11:15 Glued IOL  
Sujatha **MOHAN**
- 11:30 Dropped IOL  
Manoj **KHATRI**
- 11:45 Nucleus Drop Management  
Niveen **MADHIVANAN**

### Biometry — The Way Forward

11:00 - 12:30 **Venue: Meeting Room 3**  
Chair(s): N.v.Arulmozhi Varman **VARMAN**

- 11:00 Why Optical Biometer, Why Topography  
N.v.Arulmozhi Varman **VARMAN**
- 11:24 Ultrasound Biometer — What We Measure and What We Miss  
Atheek **SHAIK**
- 11:36 Modern Formula for IOL Power Calculation  
Ramesh **DORAIRAJAN**
- 11:48 Keratometry — What We Measure and What We Miss  
Jeyanthan **SOUNDARAPANDIAN**

## Cornea, External Eye Diseases & Eye Bank

### Recent Advances in the Diagnosis and Management of Conjunctival Tumors

11:00 - 12:30 **Venue: Meeting Room 4**  
Chair(s): Santosh **HONAVAR**

- 11:00 An Overview of Conjunctival Tumors  
Santosh **HONAVAR**

- 11:21 Medical Management of Conjunctival Tumors  
Santosh **HONAVAR**
- 11:42 Surgical Management of Conjunctival Tumors  
Fairouz Puthiyapurayil **MANJANDAVIDA**
- 11:54 Interactive cases  
Fairouz Puthiyapurayil **MANJANDAVIDA**
- 12:06 Pathology of Conjunctival Tumors  
Kaustubh **MULAY**

## Ocular Oncology & Pathology

### The Killer 'Pearl' that Masquerade — Retinoblastoma

09:00 - 10:30 **Venue: C Ground Meeting Room 1**  
Chair(s): Manabjyoti **BARMAN**

- 09:00 Retinoblastoma — Diagnostic Dilemma  
Manabjyoti **BARMAN**
- 09:12 Advances on the Local Treatment of Retinoblastoma  
Vikas **KHETAN**
- 09:24 Systemic Treatment of Retinoblastoma and Follow Up  
Santosh **HONAVAR**
- 09:36 Unusual Presentations of Retinoblastoma  
Pukhraj **RISHI**
- 09:48 Enucleation and Orbital Management in Retinoblastoma  
Kasturi **BHATTACHARJEE**

## Orbital and Oculoplastic Surgery

### Expanding Horizons in Oculofacial Aesthetic Surgery: Frontiers to Maximise Pearls and Minimise Perils

11:00 - 12:30 **Venue: C Ground Meeting Room 1**  
Chair(s): Kasturi **BHATTACHARJEE**

- 11:00 Anatomical Paradigms: What is the Current Understanding in Facial Aging and Aesthetic Surgery  
Akshay **NAIR**
- 11:15 Surgical Nuances of Browlift and Upper Eyelid Blepharoplasty  
Yip **CHEE CHEW**
- 11:30 Revision Upper Lid Blepharoplasty — 'Revise or Correct, in Managing Unrealistic Patient Expectations'  
Hunter **YUEN**

06

SUBMITTED PROGRAM



- 11:45 Lower Lid Blepharoplasty with Lateral Canthopexy  
*Kasturi BHATTACHARJEE*
- 12:05 Pearls in Fat Reposition with Midface Lift Surgery  
*Shu-Lang LIAO*

## Pediatric Ophthalmology & Strabismus

### Treatment of Retinopathy of Prematurity: Diagnosis and Management

09:00 - 10:30 **Venue: Meeting Room 4**  
*Chair(s): Anna ELLS*

- 09:00 Instructional Course  
*Anna ELLS*
- 09:20 Instructional Course  
*Atchara AMPHONPHRUET*
- 09:40 Instructional Course  
*Wai-Ching LAM*
- 10:00 Instructional Course  
*Wei-Chi WU*

### Overview of Innovations in Pediatric Cataract Surgery

11:00 - 12:30 **Venue: Meeting Room 2**  
*Chair(s): Harsha BHATTACHARJEE*

- 11:00 Newer Approaches to Management of Neonatal Cataract  
*Harsha BHATTACHARJEE*
- 11:15 Role of Intra-operative OCT in Pediatric Cataract Surgery  
*Kanwal 'Ken' NISCHAL*
- 11:30 Optic Capture and Femtosecond Laser in Pediatric Surgeries  
*Abhay VASAVADA*
- 11:45 Advances in Pediatric IOL Power Calculation  
*Phanthipha WONGWAI*
- 12:00 Updates in Neuro-Developmental Assessment Following Pediatric Cataract Surgery  
*Nilutparna DEORI*

# FREE PAPERS

MAR  
06,  
2019  
(WED)

## Cornea, External Eye Diseases & Eye Bank

### Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 1

11:00 - 12:30 **Venue: Boardroom 3**  
*Chair(s): Francis PRICE JR, Wimolwan TANGOAGASIT*

- 11:00 The Outcomes of Corneal Cross-Linking for Keratoconus from Routine Clinical Practice across Australia and New Zealand: Results from the Save Sight Keratoconus Registry  
*Stephanie WATSON*
- 11:08 Can We Quantify Corneal Stiffening Post Accelerated Corneal Cross Linking (CXL)?  
*Himali KAPANIA*
- 11:16 Clinical Outcomes of OCT Guided Intra Corneal Ring Segment Implantation and Corneal Collagen Cross Linking Surgery  
*Minoru TOMITA*
- 11:24 Topo-Guided Removal of Epithelium in Keratoconus (TREK) and Accelerated Cross Linking — Novel Tissue Sparing Customized Treatment of Keratoconic Eyes  
*Pavitra PATEL*
- 11:32 Femtosecond Laser Assisted Anterior Lamellar Keratoplasty (FALK) in Anterior Corneal Opacities  
*Ruchita MANAKTALA*
- 11:40 Rejection after Deep Anterior Lamellar Keratoplasty (DALK) — Nothing is Lost!  
*Rishi SWARUP*
- 11:48 Descemet Membrane Endothelial Keratoplasty for Failed Penetrating Keratoplasty: Visual Outcomes and Graft Survival  
*Anand PASARI*

- 11:56 Outcome of Therapeutic Penetrating Keratoplasty in Tertiary Eye Care Center, Thailand  
*Rungravee SAJJANUKOOL*
- 12:04 Ocular Surface Immune Trafficking and Eye Rubbing in Keratoconus, and Its Impact on Treatment Outcomes  
*Pooja KHAMAR*

## Ocular Oncology & Pathology

### Rapid Fire Ocular Oncology and Pathology Update Session

09:00 - 10:30 **Venue: Boardroom 3**  
*Chair(s): Martine JAGER, Kaustubh MULAY, Chanet SUVARNAMANI*

- 09:00 A 10-Year Retrospective Analysis of Clinical Profile and Survival Rates in Retinoblastoma from North Eastern India  
*Pushkar DHIR*
- 09:06 Conjunctival Melanoma in Asian Indian Patients: A Study of 40 Cases  
*Varshitha VASANTHAPURAM*
- 09:12 Mutational Screening Of Germline *RB1* Gene in Vietnamese Patients with Retinoblastoma  
*Chau PHAM*
- 09:18 Characteristics, Treatments, and Outcomes of Uveal Melanoma in Thailand: Analysis of 46 Consecutive Patients from a Tertiary Referral Center  
*Parin HUNTRAKOOL*
- 09:24 Characteristics, Treatments, and Outcomes of Retinoblastoma in Thailand: Ten Years Analysis of 92 Eyes of 61 Consecutive Patients from a Tertiary Referral Center.  
*Atasit ROJANASAKUL*
- 09:30 Is Neoadjuvant Chemotherapy (NAC) with Deferred Enucleation Safe in Patients with Advanced Retinoblastoma (Rb) Unsafe or Unwilling for Primary Enucleation?  
*Ankit TOMAR*
- 09:36 Clinical Profile of Retinoblastoma in a Tertiary Public Hospital of Bangladesh  
*Md.Ashiqur Rahman AKANDA*

- 09:42 Management of Giant Ocular Surface Squamous Neoplasia: Our Experience  
*Rajendra MAURYA - INDIA*
- 09:48 Characteristics and Treatment Outcomes of Patients with Primary Ocular Adnexal Lymphoma: A Multicenter Study in Tertiary Hospitals  
*Sirima TANGCHITTAM*
- 09:54 Transpupillary Thermotherapy in Circumscribed Choroidal Hemangioma  
*Harshit VAIDYA*
- 10:00 Endocrine, Mucin-Producing, Sweat Gland Carcinoma: Clinicopathological and Immunohistochemical Features  
*Kaustubh MULAY*
- 10:06 Ruthenium-106 Plaque Brachytherapy for Intraocular Tumors in Thailand: The First Report from South East Asia  
*Thitiporn THONGBORISUTH*
- 10:12 Prognostic Significance of Loss of NEMO Protein in Uveal Melanoma  
*Mithalesh SINGH*
- 10:18 ATM as a DNA Damage Response Protein in Uveal Melanoma: Association with Clinicopathological Factors and Prognostic Outcome  
*Jayanti JHA*
- 11:12 Influence of Pupil Dilation on Predicted Postoperative Refraction and Recommended IOL Power Calculated by Barrett Universal II IOL Power Calculation Formula  
*Takeshi TESHIGAWARA*
- 11:18 Incidence and Outcomes of Toric IOL Repositioning Surgery  
*Haripriya ARAVIND*
- 11:24 Comparison of Intraocular Lens Calculation Formulas for Phacoemulsification after Corneal Refractive Surgery at a Single Eye Center in the Philippines  
*Cris Martin JACOBA*
- 11:30 Clinical Outcomes with an Extended Range of Vision Intraocular Lens with and without Toxicity. Australian Results of the CRESCENDO Multicentre Study  
*Frank HOWES*
- 11:36 Evaluating the Role of Chamber Depth and Lens Thickness on the Choice of Intraocular Lens Calculation  
*Khanh TRAN*
- 11:42 Refractive Outcome after Clear Lens Extraction with Posterior Chamber Intraocular Lens (PCIOL) Implantation for Anterior Lenticonus in a Patient of Alport Syndrome  
*Shifat TOUFIQUE*
- 11:48 Ray-Tracing Biometry Formula in Intraocular Lens Calculation in Post-LASIK Eyes Using a Double Scheimpflug Intferferometry Biometer  
*Daphne HAN*
- 11:54 How Good is American Society of Cataract and Refractive Surgery (ASCRS) Online Calculator in Predicting Cataract Surgery Outcomes in Patients Post Lasik and Post Radial Keratotomy?  
*Sudhir RACHAPALLE REDDI*
- 12:00 Visual Quality and Stereoacuity after Binocular Implantation of Extended Range of Vision Intraocular Lens  
*Jeewan TITIYAL*
- 12:06 Associated Factors Influencing the Full-Distance Visual Acuity after Refractive Rotationally Asymmetric Multifocal Intraocular Lens Implantation  
*Yong WANG*
- 12:12 Alignment of Toric IOL via Automated Femtosecond Laser-Assisted Capsular Marks  
*Detlev BREYER*
- 12:18 Vector Analysis of Anticipated Residual Astigmatism and Actual Residual Astigmatism in Toric IOL Implantation Using Callisto-Eye™  
*Kukuh PRASETYO*

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## Cataract

### Rapid Fire Cataract Update Session 1

11:00 - 12:30 **Venue: Boardroom 3**

*Chair(s): George BEIKO, Patchima CHANTAREN, Ramamurthy DANDAPANI*

- 11:00 Silicon IOLs ... Breaking the Superstition  
*Jeyanthan SOUNDARAPANDIAN*
- 11:06 Results of Astigmatism Correction after Phacoemulsification with Implantation of AT TORBI 709 M Toric IOL  
*Khanh TRAN*

## Glaucoma

### Rapid Fire Glaucoma Update Session 1

14:30 - 16:00 **Venue: C Ground Meeting Room 2**

*Chair(s): Da-Wen LU, Sang-Woo PARK, Pitipong SURAMETHAKUL*

- 14:30 Four- and Five-Year Results of the MicroShunt in Patients with Primary Open-Angle Glaucoma  
*Juan F. BATLLE*
- 14:36 Clinical Results of Ultrasound Cyclo Plasty Using High Intensity Focused Ultrasound (HIFU) to Treat Refractory Glaucoma  
*Jian GE*
- 14:42 Comparison of Omidenepag Isopropyl 0.002% with Latanoprost 0.005% in Primary Open-Angle Glaucoma and Ocular Hypertension: The Phase III AYAME Study  
*Makoto AIHARA*
- 14:48 Interim Results of a Prospective Feasibility Study to Evaluate Safety and Efficacy of Ultrasound Cyclo Plasty Using High Intensity Focused Ultrasound (HIFU) in Refractory Open Angle Glaucoma Patients  
*Reena CHOUDHRY*
- 14:54 5-Year Outcomes of a Prospective Study of Two Trabecular Micro-Bypass Stents Versus Prostaglandin in Newly Diagnosed Open-Angle Glaucoma  
*Florian KRETZ*
- 15:00 Continuous 24-Hour Intraocular Pressure Profile in Progressive and Non-Progressive Primary Open Angle Glaucoma Patients  
*Wei Loon NG*
- 15:06 Microvascular Changes in Peripapillary and Optic Nerve Head Tissues after Trabeculectomy in Primary Open-Angle Glaucoma  
*Ji-Ah KIM*
- 15:12 Prospective Evaluation of a Schlemm's Canal Microstent for Treatment of Primary Angle Closure Glaucoma in Combination with Phacoemulsification  
*Robert ANG*
- 15:18 Analysis on the Trend of the Development of Acute Primary Angle Closure  
*Sang-Woo PARK*
- 15:24 Primary Congenital Glaucoma: Baseline Features and Short Term Surgical Outcome  
*Rakshya PANTA SITOUOLA*

- 15:30 MIGS (Microinvasive Glaucoma Surgery) with Second-Generation Trabecular Micro-bypass Stents Combined with Topical Prostaglandin in Eyes with OAG on 2 Preoperative Medications: 42-month Outcomes  
*Robert ANG*
- 15:36 Induced Ocular Hypertension in Rats: Anterior Chamber Injection of 0.5% Carbomer Suspension  
*Jingkang ZHAO*
- 15:42 The SPECTRUM Registry: 12- and 24-Months Results from a Global Real-World Study of 2400 Glaucoma Eyes Treated with Micro Invasive Glaucoma Surgery Using the Hydrus Microstent  
*Rahat HUSAIN*
- 15:48 Trabecular Peeling Technique for Ab-Interno Trabeculectomy  
*Ankush MAHAJAN*
- 15:54 Surgical Outcomes of Trabecular Micro-Bypass Stent and Gonioscopy Assisted Transluminal Trabeculotomy Through Retrospective Analysis  
*Helen CHUNG*

## Pediatric Ophthalmology, Strabismus & Prevention of Blindness

### Rapid Fire Pediatric Ophthalmology, Strabismus, and Prevention of Blindness Update Session

16:30 - 18:00 **Venue: Boardroom 2**

*Chair(s): Subhash DADEYA, Justin MORA, Suntaree THITIWICHIENTERT*

- 16:30 Strabismus and Depression: a Systematic Review and Meta-analysis  
*Rachel Wing Yan TSUI*
- 16:36 Refractive Outcome in Preterm Neonate with Severe Retinopathy of Prematurity (ROP) following Treatment with Retinal Laser Photocoagulation and Intravitreal Ranibizumab Injection Compared to Usage of Only Laser Photocoagulation  
*Rudra GHOSH*
- 16:42 A Novel Algorithm to Predict the Development of Retinopathy of Prematurity (ROP) in Hong Kong  
*Connie LAI*
- 16:48 The Current Picture of Cerebral Visual Impairment in New Zealand  
*Samantha SIMKIN*

- 16:54 Single Sweep Retinoscopy (SSR) — Pre-School Eye Screening Made Easy  
*Lakshmi SREEDHARAMURTHY*
- 17:00 Computed Tomography for Guidance in the Diagnosis and Surgical Correction of Recurrent Dacryocystitis In Children  
*Chengyue ZHANG*
- 17:06 Optic Nerve Head Morphology Changes over Time in Premature Infants  
*Samantha SIMKIN*
- 17:12 Retrospective Study of Trends in Contact Lens Prescribing in Pediatric Aphakes  
*Thandalam SURENDRAN*
- 17:18 Synergistic Divergence with Vertical Vectors, Absent Kidney and Cryptorchidism: A Novel Congenital Cranial Dysinnervation Disorder (CCDD) Betraying Footprints of Atavistic Dorsal Light Reflex  
*Divya KISHORE*
- 17:24 Comparison of Myopia Progression in New and Established Myopia Control Treatment (MiSight®) Groups  
*Cheryl NGO*
- 17:30 Effectiveness of Using a Nonabsorbable Suture for Tendon Lengthening in Brown Syndrome  
*Shilpa RAO*
- 17:36 Clinical Research on the Common Pediatric Eye Diseases Presenting with Inner Canthus Mass  
*Wen LIU*
- 17:42 Ocular Disorders in Children with Hearing Impairment and Speech Disability  
*Watanee JENCHITR*
- 17:48 Burden of Blindness due to Glaucoma in a Teaching Hospital in Southern India  
*Elfride SANJANA*
- 17:54 Analysis of Prescription Glasses in the First Grade Thai Students  
*Nutsuchar WANGTIRAUMNUAY*



## Cataract & Refractive Surgery

### Rapid Fire Cataract and Refractive Surgery Update Session

14:30 - 16:00 **Venue: Boardroom 3**

**Chair(s):** Colin **CHAN**, Bharkbhum **KHAMBHIPHANT**

- 14:30 A Prospective Comparative Study on Endothelial Cell Loss and Morphology after Femtosecond Laser Assisted Cataract Surgery and Phacoemulsification Surgery  
*Aditya KELKAR*
- 14:38 Comparison and Evaluation of Biometers Using Swept-Source Optical Coherence Tomography Compared to Partial-Coherence Interferometry and Optical Low-Coherence Interferometry  
*Xueting LI*
- 14:46 A Comparative Study to Assess Three Biometric Measurements in Different Axial Length  
*Xueting LI*
- 14:54 Comparison of Different Methods for Photopic and Scotopic Pupil Diameter Measurement and Clinical Analysis on the Pupil Diameter Changes of Cataract Patients  
*Yong WANG*
- 15:02 Study of Demographic Effects on Intraocular Lens Attributes Preference  
*Shu-Wen CHANG*
- 15:10 To Report the Outcomes of Cionni-Modified Capsule Tension Ring (CTR) Implantation in Eyes with Subluxated Lenses  
*Mohsin KHAN*
- 15:18 Retreatment in Laser in Situ Keratomileusis (LASIK): Flap Lift or Surface Ablation?  
*Colin CHAN*
- 15:26 Scleral Wound Healing Profiles and Stability following Laser Scleral Microporation for Presbyopia Correction  
*Yu-Chi LIU*
- 15:34 What Causes Reduction in Biomechanical Strength-Flap/Cap/Laser?  
*Pavitra PATEL*



- 15:42 Biomechanical Changes and Improved Visual Performance after a New Presbyopia Therapy: Laser Scleral Microporation  
*Sunil **SHAH***
- 15:50 Punchorhexis  
*Mohan **RAJAN***

## Retina (Medical & Surgical)

### Rapid Fire Surgical and Medical Retina Update Session

09:00 - 10:30 **Venue: Boardroom 3**

*Chair(s): R.V. Paul **CHAN**, Chakrapong **NAMATRA**, Xinyuan **ZHANG***

- 09:00 Double Nonpeeling of Foveolar Posterior Hyaloid and Internal Limiting Membrane in Early Stage 2 Idiopathic Macular Hole Surgery  
*Tzyy-Chang **HO***
- 09:06 Visual Outcome and Complications of Diabetic Vitrectomy: Does It Vary with Preoperative Interventions?  
*Dipak **NAG***
- 09:12 Anatomical and Visual Outcome of 27 Gauge Transconjunctival Pars Plant Vitrectomy without Scleral Buckling in Primary Rhegmatogenous Retinal Detachment (RRD)  
*Ramya **APPANRAJ***
- 09:18 Cystoid Macular Edema after Repair of Primary Retinal Detachment: Incidence, Predictors and Outcomes  
*Yodpong **CHANTARASON***
- 09:24 An Innovative Versatile Cannula for Vitreoretinal Surgery  
*Maneesh **BAPAYE***
- 09:30 Clinical Presentations and Comparative Outcomes of Primary Versus Deferred Intraocular Lens Explantation in Delayed-Onset Endophthalmitis  
*Vivek **DAVE***
- 09:36 Chronic Retinal Injury Induced by White Light-Emitting Diodes (LEDs) Light with Different Correlated Color Temperatures and Micro-Array Analysis of Genome-Wide Expression Pattern in Mice  
*Chen **XIE***
- 09:42 Result of Inverted ILM Peeling in Treatment for Large Macular Hole (MH) in Vietnam National Institute of Ophthalmology (VNIO)  
*Hung **BUI***

- 09:48 The Stepwise Non-Sclerotomy Approach to Prevent Inadvertent Perfusion in Eyes with Extensive Choroidal Detachment and Suprachoroidal Fluid during 25-Gauge Pars Plana Vitrectomy  
*Zhaotian **ZHANG***
- 09:54 Endoscopic Vitrectomy in Endophthalmitis: Initial Experience of 33 Cases at a Tertiary Eye Care Center  
*Vivek **DAVE***
- 10:00 Mitochondrial Morphology Change and the Expression of Mitochondrial Fission/Fusion Genes in RPE Cells under Oxidative Stress  
*Xu **LIU***
- 10:06 The Protection of Mitochondria-Targeted Antioxidant Peptide on ARPE-19 Cells under Oxidative Damage  
*Yun **XU***
- 10:12 The Association between Central Serous Chorioretinopathy and Risk of Depression: A Population-Based Cohort Study  
*Yu-Yen **CHEN***
- 10:18 Prevalence of Maculopathy as Occupational Hazard in Arc Welders  
*Praveena **TANDON***
- 10:24 Increased Levels of Dickkopf-1 in Vitreous of Patients with Pathologic Myopia and Its Correlation with Axial Length, Subfoveal Choroidal Thickness and Inflammatory Cytokines  
*Manjuan **PENG***

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## Cataract

### Rapid Fire Cataract Update Session 2

11:00 - 12:30 **Venue: Plenary Hall 1**

*Chair(s): Richard **PACKARD**, Suwich **RATANASIRINTRAWOOT***

- 11:00 To Study the Surgical Outcomes of Precision Pulse Capsulotomy (PPC) in Phacoemulsification Surgery and Its Comparison with Manual (Needle Assisted) and Femtosecond Laser Assisted Capsulorhexis  
*Aditya **KELKAR***

## Cornea, External Eye Diseases & Eye Bank

### Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 2

09:00 - 10:30 **Venue: Meeting Room 3**

*Chair(s): Teeravee HONGYOK*

- 09:00 Involvement of Anterior and Posterior Corneal Surface Area Imbalance to Detect Forme Fruste Keratoconus  
*Koji KITAZAWA*
- 09:07 Nature and Nurture Model of Keratoconus (KC): from Genetics to Gene Expression  
*Anjana KARUNAKARAN*
- 09:14 Prevalence of Meibomian Gland Dysfunction, Dry Eye, and Posterior Blepharitis Based on a Population-Based Study (Hirado-Takushima Study) in Takushima Island in Japan  
*Reiko ARITA*
- 09:21 Quantification of Endothelial Cell Loss with a Pull-Through Inserter for Descemet's Membrane Endothelial Keratoplasty  
*Tien-En TAN*
- 09:28 Functional Evaluation of Two Corneal Endothelial Cell-Based Therapies for Corneal Endothelial Dysfunction: Tissue-Engineered Construct and Cell-Injection Therapy  
*Hon Shing ONG*
- 09:35 The Expression of Prostaglandin E2 Receptor 3 in the Eyelid Epidermis of Patients with Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis  
*Hiroki MIENO*
- 09:42 Long-Term Outcome of Mucous Membrane Grafting for Lid Margin Keratinization in Stevens-Johnson Syndrome (SJS)  
*Pavani PENUGONDLA*
- 09:49 Corneal Nerve Morphology Analysis in Healthy and Diseased Cornea Using a Novel Software in Confocal Microscopy  
*Anjana KARUNAKARAN*
- 09:56 Clinical Features and Cytokine Profile in Patient's with Recalcitrant SJS  
*Bhaskar SRINIVASAN*
- 10:03 Expansive Mortar — A New Ocular Hazard  
*Sanjiv DESAI*
- 10:10 Cytokine and Matrix Metalloproteinase — 9 Profile in the Keratoconus Patients Tear Fluid  
*Jana GERTNERE*

- 11:06 A Novel Technique for Safe Phacoemulsification in Posterior Polar Cataracts  
*Minu MATHEN*
- 11:12 RAPID, an Enmasse Technique, for Soft Cataract Phacoemulsification  
*Tushya OM PARKASH*
- 11:18 Terminator a Wedge Tool: Modified Classical Simple Machine, to Crack and Break the Hard Cataract  
*Rajendra PRASAD*
- 11:24 T Soft: New Technique for Soft Cataract  
*Rajendra PRASAD*
- 11:30 Endocapsular Ring Implantation for Subluxated Cataract: Modified Techniques  
*Basant KUMAR SINGH*
- 11:36 Changes in Aqueous Oxidative Stress, Prostaglandin, and Cytokines: Comparisons of Low-Energy Femtosecond Laser-Assisted Cataract Surgery Versus Conventional Phacoemulsification  
*Yu-Chi LIU*
- 11:42 Assessment of Corneal Thickness after Manual Small Incision Cataract Surgery  
*Arjun SHRESTHA*
- 11:48 Endophthalmitis Reduction with Intracameral Moxifloxacin following Posterior Capsule Rupture  
*Haripriya ARAVIND*
- 11:54 Post-Operative Complications after Cataract Surgery in Patients with Sjögren's Syndrome  
*Sepehr SADEGHI*
- 12:00 To Study Visual Outcome, Endothelial Cell Loss and Complications after Retropupillary IRIS Claw Lens Implantation in Patients with Deficient Posterior Capsule  
*Satya SINGH*
- 12:06 Hyadex — A Slow-Release Anti-Inflammatory Treatment following Cataract Surgery  
*Amir SAMADI*
- 12:12 An Outbreak of Multidrug-Resistant *Pseudomonas aeruginosa* Endophthalmitis after Cataract Surgery Caused by Contaminated Trypan Blue Ophthalmic Solution  
*Chintan DESAI*
- 12:18 Should Macular SD-OCT be Included as a Screening Tool Prior to Routine Cataract Surgeries?  
*Himali KAPANIA*

10:17 Outcomes of Descemet Membrane Endothelial Keratoplasty in Patients With Pseudophakic Bullous Keratopathy  
*Anahita KATE*

### Rapid Fire Cornea, External Eye Diseases & Eye Banking Update Session 3

11:00 - 12:30 **Venue: Lotus Room**  
*Chair(s): Rajesh FOGLA, Kanaspana KLANARONGRAN*

11:00 Donor and Tissue Profiling at the Time of Eye Donation at a Tertiary Care Hospital in Western India  
*Aditi PAI*

11:06 Study on Factors Affecting Serological Testing of Cadaveric Donor Cornea in a Tertiary Hospital in Western India  
*Atul KAMATH*

11:12 Routine Donor Tomography in the Eye Bank as Sterile Screening Method for Improved Graft Selection in Corneal Transplantation  
*Berthold SEITZ*

11:18 Diagnosis of Bacterial Ocular Infectious Disease by Nested-PCR  
*Keisuke NAKAYAMA*

11:24 Freeze-Dried Human Amniotic Membrane Transplant in Treating Bacterial Corneal Ulcer: A Randomized Trial  
*Made SUSIYANTI*

11:30 Safety and Efficacy of Frequency Doubled Nd-Yag Laser Photocoagulation of Corneal Vascularisation (NLPC)  
*Keerti WALI*

11:36 Corneal Sustained Release Antimicrobial Implants: A Novel Therapy for Posterior Corneal Infection  
*Lional DANIEL RAJ PONNIAH*

11:42 Clinical Severity Grading Tool for Cicatrizing Conjunctivitis: A Validation Study  
*Hon Shing ONG*

11:48 Fifteen-Year Results of a Randomized Controlled Trial Comparing 0.02% Mitomycin-C, Limbal Conjunctival Autograft, Versus Combined Mitomycin C and Limbal Conjunctival Autograft in Recurrent Pterygium Surgery  
*Ka Wai KAM*

11:54 Efficacy of Gancyclovir in Treatment of Adenoviral Keratitis  
*Shahrina MAHFOOZ*

12:00 Intraocular Pressure Elevation and Glaucoma in Cases with Cytomegalovirus-Related Corneal Endothelitis  
*Toshihide IKEDA*

12:06 Negative Impact of Dextran in Organ Culture Media for Pre-Stripped Tissue Preservation on DMEK (Descemet Membrane Endothelial Keratoplasty) Outcome  
*Berthold SEITZ*

12:12 Efficacy of Autologous Blood Clot in Primary Pterygium Excision Compared with Suture Technique  
*Md.Iftekher IQBAL*

12:18 Pellucid Marginal Degeneration and Keratoconus — A Structural, Molecular and Biomechanical Study  
*Gairik KUNDU*

## Glaucoma

### Rapid Fire Glaucoma Update Session 2

11:00 - 12:30 **Venue: Ballroom**  
*Chair(s): Fei LI, Anita MANASSAKORN, Shamira PERERA*

11:00 Differentiating Age-Related Optic-Nerve-Head Change from Early Glaucoma in Elderly Patients  
*Ahnul HA*

11:06 Double-Masked, Randomized, Dose-Response of Phase 2 Study of PHP — 201 in Patients with Normal Tension Glaucoma  
*Ki Ho PARK*

11:12 Incidence of Normal Tension Glaucoma Among Chinese Patients with Treatment Naïve Obstructive Sleep Apnea Syndrome  
*Kendrick SHIH*

11:18 Efficacy and Safety of Intravitreal Aflibercept Injection in Japanese Patients with Neovascular Glaucoma: The VEGA Study  
*Kenji MATSUSHITA*

11:24 Outcomes of Two Second-Generation Trabecular Micro-Bypass Stents in Subjects with Open-Angle Glaucoma (OAG) on One Preoperative Ocular Hypotensive Medication  
*Shamira PERERA*

11:30 Phacocanaloplasty in Patients with Pseudoexfoliation Glaucoma — Six-Year Results  
*Jamil HASANOV*

11:36 A Novel Method for the Localization and Management of Large and Deep Traumatic Cyclodialysis Cleft by Using Endocamera for Direct Suturing  
*Tham Truong Khanh VAN*

- 11:42 Can Toric IOL Option be Given to Patients Undergoing Phacotrabeculectomy? Visual and Refractive Outcome Especially Surgically Induced Astigmatism following Single-Site Versus Twin-Site Phacotrabeculectomy  
*Pankaj BENDALE*
- 11:48 Post Keratoplasty Glaucoma in Perforated Fungal Keratitis  
*Charudutt KALAMKAR*
- 11:54 Selective Mitochondrial Autophagy in Retinal Ganglion Cells following Short-Term Intracranial Pressure Reduction — Beijing iCOP Study  
*Xiao Xia LI*
- 12:00 Using Subconjunctival Anesthesia as an Alternate Anesthetic Technique for MicroPulse Cyclophotocoagulation  
*Helen CHUNG*
- 12:06 A Prospective, Randomized Pivotal Study of Second-Generation Trabecular Micro-Bypass Stents Implanted in Conjunction with Cataract Surgery  
*David LUBECK*
- 12:12 Hemi-GATT as a Novel 180-Degree Approach to Gonioscopy Assisted Transluminal Trabeculotomy  
*Helen CHUNG*
- 12:18 Long-Term Intraocular Pressure Fluctuation as a Risk Factor for Visual Field Progression — Results from the Singapore 5-Fluorouracil Study  
*Bryan ANG*
- 12:24 Efficacy and Safety of Crosslinking on Leaking Cystic Bleb: A Prospective Study  
*Yu CAI*
- 11:16 Retinal Complications in Uveitis Patients in Taiwan — A Population-Based Study  
*De-Kuang HWANG*
- 11:24 Improvement in Vitreous Haze in Active Non-Infectious Uveitis of the Posterior Segment with Intravitreal Sirolimus  
*Harvey UY*
- 11:32 Antagonist of GH-Releasing Hormone Receptor Alleviates Experimental Autoimmune Intraocular Inflammation  
*Jian LI*
- 11:40 The Effect of SS31 on ARPE-19 Cells during Oxidative Stress  
*Zejun CHEN*
- 11:48 Uveitis is a Predictive Factor for Acute Myocardial Infarction among Patients with Behcet's Disease: A Nationwide Cohort Study  
*Yu-Yen CHEN*
- 11:56 Vitreous Body Change: How It Looked in Tumours?  
*Suklengmung BURAGOHAIN*
- 12:04 Establishing "Retinoblastoma Center" in a Tertiary Eye Care Center of Bangladesh — A New Hope for Retinoblastoma Patients  
*Soma ROY*
- 12:12 Unilateral Squamous Papilloma in the Setting of Bilateral Ocular Cicatricial Pemphigoid  
*Leo MANUEL*
- 12:20 Progesterone Receptor and Neurofibromatosis-2 Expression, the Use of Exogenous Progesterone, and Their Association with Risk of Orbitocranial Meningioma in Females  
*Agus SUPARTOTO*

## Intraocular Inflammation, Uveitis, Scleritis, Ocular Oncology & Academia

### Rapid Fire Intraocular Inflammation, Uveitis, Scleritis, Ocular Oncology and Academia Update Session

11:00 - 12:30 **Venue: Boardroom 4**  
*Chair(s): Jyotirmay BISWAS, Sutasinee BOONSOPON*

- 11:00 Performance of an Ocularfluorometer Equipped with a Lock-In Amplifier for Measurement of Aqueous Flare: Data from Uveitis and Post-Cataract Patients  
*Sudhir RACHAPALLE REDDI*
- 11:08 Triggering Factors Associated with Attack of Recurrent Acute Anterior Uveitis  
*Anchisa PIMSRI*

## Neuro-Ophthalmology

### Rapid Fire Neuro-Ophthalmology and Ocular Imaging Update Session

09:00 - 10:30 **Venue: Auditorium**  
*Chair(s): Parima HIRUNWIWATKUL, Sharon TOW*

- 09:00 The Comparison of Autoimmune Antibody Positive Autoimmune Optic Neuropathy between AQP4-Ab Positive and Negative Patients  
*Teng DA*
- 09:07 Different Characteristics of Aquaporin-4 or Myelin Oligodendrocyte Glycoprotein Antibody-Seropositive Male Optic Neuritis in China  
*Huanfen ZHOU*

09:14	Effectiveness of Plasma Exchange in Acute Neuromyelitis Optica Related Optic Neuritis <i>Shaoying TAN</i>	11:07	Evaluation of Peripapillary Vessel Flow Change after Vitrectomy Using OCT-A <i>Sungrae NOH</i>
09:21	Characteristics and Risk Factors of Bilateral Nonarteritic Anterior Ischemic Optic Neuropathy <i>Shaoying TAN</i>	11:14	Optical Coherence Tomography Angiography Analysis of Changes in the Retina and the Choroid after Haemodialysis <i>Hee Yoon CHO</i>
09:28	Diagnostic Value of Antibodies to Myelin Oligodendrocyte Glycoprotein in Chronic Relapsing Inflammatory Optic Neuropathy <i>Hongjuan LIU</i>	11:21	Clinical Observation of Intrinsic Feeder Vessels and Secondary Choroidal Neovascularization in Choroidal Osteoma Using OCT Angiography <i>Min WANG</i>
09:35	Clinical Characteristics and Outcomes of Myelin Oligodendrocyte Glycoprotein Antibody-Seropositive Optic Neuritis at Different Ages: A Cohort Study in China <i>Shihui WEI</i>	11:28	Quantitative Microvascular Changes in Surgically Repaired Rhegmatogenous Retinal Detachment by OCT Angiography <i>Sanghyu NAM</i>
09:42	The Prevalence and Prognostic Value of Myelin Oligodendrocyte Glycoprotein Antibody in Adult Optic Neuritis <i>Shihui WEI</i>	11:35	Associations between the Retinal Vascular Topography and the Disc Parameters In Myopic Eyes <i>Kunliang QIU</i>
09:49	In Vivo Confocal Microscopic Analysis of Corneal Subbasal Nerve in Thai Population <i>Sittiphong THONGSUWAN</i>	11:42	OCTA Findings in Retinal Vein Occlusion Treated with Anti-VEGF <i>Eung-Suk KIM</i>
09:56	Next Generation Bowman's Topography and Its Application in Refractive Surgery <i>Deeksha LOCHAB</i>	11:49	Characteristics of Subretinal Neovascular Membrane on Optical Coherence Tomography Angiography in Macular Telangiectasia Type 2 <i>Komal AGARWAL</i>
10:03	Central Corneal Thickness in Highly Myopic Eyes: Inter-Device Agreement of Ultrasonic Pachymetry, Pentacam and Orbscan II before and after Photorefractive Keratectomy <i>Nader NASSIRI</i>	11:56	The Real-World Application of Artificial Intelligence Using Deep Learning to Screen for Diabetic Retinopathy in a Low-Income Country <i>Valentina BELLEMO</i>
10:10	Effect of Cornea Curvature on Retinal Thickness Measured Using Spectral Domain Optical Coherence Tomography <i>Kelvin LI</i>	12:03	Regional Growth of Geographic Atrophy and Visual Acuity: A Longitudinal Analysis <i>Jong In YOU</i>
10:17	Multimodal Imaging-Based Phenotyping of a Newly Established Cohort of High Myopia Patients <i>Quan (Donny) HOANG</i>	12:10	Application of OCTA in Optic Neuritis <i>Shihui WEI</i>
10:24	Early Postnatal Development in Normal and Injured Eyes Using Magnetic Resonance Imaging <i>Kevin CHAN</i>	12:17	Underdiagnosed Optic Disc Pit Maculopathy — Spectral Domain Optical Coherence Tomography Features for Accurate Diagnosis <i>Adrian FUNG</i>

## Ocular Imaging

### Rapid Fire Ocular Imaging Update Session

11:00 - 12:30 **Venue: Boardroom 3**  
Chair(s): Paradee **KUNAVISARUT**

11:00 PCV Lesion on OCTA following Treatment  
Eung-Suk **KIM**

## Ophthalmic Epidemiology, Telemedicine, Big Data & AI

### Rapid Fire Ophthalmic Epidemiology, Telemedicine, Big Data and AI Update Session

09:00 - 10:30 **Venue: Boardroom 3**  
Chair(s): Michael **CHIANG**, Prut **HANUTSAHA**



## Orbital and Oculoplastic Surgery

### Rapid Fire Orbital and Oculoplastic Surgery Update Session

11:00 - 12:30 **Venue: Auditorium**

*Chair(s): Raoul Paolo HENSON, Dongmei LI, Sunisa SINTUWONG*

- 09:00 Risk Factors for Severe Dry Eye Disease: Large-Scale Crowdsourced Research Using iPhone Application DryEyeRhythm  
*Takenori INOMATA*
- 09:07 Is Kidney Function Associated with Primary Open-Angle Glaucoma? Meta-Analysis from the Asian Eye Epidemiology Consortium  
*Yih-Chung THAM*
- 09:14 Efficacy of Trash To Treasure (T3) Retcam among Diabetic Patients with Retinopathy  
*Prithvi CHANDRAKANTH*
- 09:21 Survey of Primary Healthcare Physicians on Tele-Ophthalmology Practice in Singapore  
*Preethi JEYABAL*
- 09:28 Increasing the Size of Training Samples for Lesion-Based Diabetic Retinopathy Diagnosis  
*Kangrok OH*
- 09:35 Population Prevalence and Pattern of Retinal Diseases in Nepal: The Bhaktapur Retina Study  
*Raba THAPA*
- 09:42 Application of Deep Learning Image Assessment Software VeriSee™ for Diabetic Retinopathy Screening  
*Yi-Ting HSIEH*
- 09:49 Epidemiology of Astigmatism in Hong Kong Children and Their Parents  
*Ka Wai KAM*
- 09:56 Identification of Serum Metabolites Associated with Intraocular Pressure: The Singapore Epidemiology of Eye Diseases (SEED) Study  
*Sahil THAKUR*
- 10:03 Prevalence and Severity of Smartphone Addiction and Dry Eye Disease in University Students  
*Kendrick SHIH*
- 10:10 Factors Associated with Presbyopia Progression in Asians: The Singapore Epidemiology of Eye Diseases Study  
*Shivani MAJITHIA*
- 10:17 Community Outreach: An Indicator for Assessment of the Prevalence of Amblyopia  
*Saurabh DESHMUKH*
- 10:24 Prevalence, Risk factors and Vision Association with OCT Diagnosed Epiretinal Membrane in the SEED Cohort  
*Kelvin TEO*

- 11:00 A Novel Technique of Ultrasound Guided Intralesional Injection of Bleomycin for Orbital Lymphangioma  
*Kirthi KOKA*
- 11:07 Outcomes of Low-Dose Intravenous Methyl Prednisolone Pulse Therapy and Immunomodulation in Orbital Inflammatory Disorders  
*Ankita AISHWARYA*
- 11:14 Fornix Reconstruction: External Bolster vs Internal Fixation  
*Syed KADIR*
- 11:21 Congenital Nasolacrimal Duct Obstruction — A Case Series  
*Md. ISLAM*
- 11:28 Orbital Implant Migration — Are We Thinking Correctly?  
*Tarjani DAVE*
- 11:35 Correlation between Ocular Surface Disease Index and Clinical Activity Score in Thyroid Eye Patients  
*Christopher LO*
- 11:42 Clinoid Process as a Surrogate Landmark for Proptosis Measurement in Thyroid Eye Disease Post Decompression  
*Stephanie YOUNG*
- 11:49 Age-Related Changes in Anthropometric Measurements in the Ocular Region from Childhood to Adulthood in Chinese Han Population  
*Huan MA*
- 11:56 Is the Non-Endoscopic Endonasal Dacryocystorhinostomy (NEED Procedure) the Gold Standard?  
*Bayasgalan PUREVDORJ*
- 12:03 Volumetric Analysis of Extraocular Muscles in Thyroid Eye Disease  
*Stephanie YOUNG*
- 12:10 Per Operative Adjustment of Levator Surgery in Neurofibromatosis Induced Ptosis  
*Golam HAIDER*
- 12:17 In Vivo Periocular Tissue Response of Thai Silk Fibroin Based Biomaterial  
*Seechompoo THANGSATTAYATISATHAN*

12:24 Surgical Outcome of Navigation Guided Transcaruncular Orbital Optic Canal Decompression in Direct and Indirect Traumatic Optic Neuropathy  
*Kasturi BHATTACHARJEE*

12:10 Retinoblastoma in Older Children: A Case Report and Review  
*Dianita GINTING*

12:17 Inferior Oblique Muscle Adherence following Unilateral Inferior Oblique Anteriorization  
*Shilpa RAO*

## Pediatric Ophthalmology & Strabismus

### Rapid Fire Pediatric Ophthalmology and Strabismus Update Session

11:00 - 12:30 **Venue: C Ground Meeting Room 2**  
*Chair(s): Thandalam SURENDRAN, Piangporn SAKSIRIWUTTO*

11:00 Predicting Factors of Long Term Successful Outcome for Childhood Esotropic Strabismus Surgery  
*Techat ARIYANONT*

11:07 Prevalence & Causes of Amblyopia in Children 6 Months to 16 Years in Kamrup Metro (Urban) District  
*Anshul SINGH*

11:14 Electroretinography, a Reliable Tool in the Exclusion Criteria For Amblyopia  
*Krati GUPTA*

11:21 Macular and Paripapillary Retinal Nerve Fibre Layer Thickness In Amblyopia  
*Sonia PHULKE*

11:28 Use of Conjunctival Autograft for Prophylaxis of Postoperative Diastase of Superficial Tissues in Surgery of Great Angles of Squint  
*Konstantin NAUMOV*

11:35 Managing Traumatic Pediatric Cataract: A Review  
*Aditya SETHI*

11:42 Role of Ultrasound Biomicroscopy (UBM) in Management of Pediatric Cataract  
*Yogita GUPTA*

11:49 Oral Propranolol in the Treatment of Infantile Eyelid Haemangioma  
*Riffat RASHID*

11:56 Simultaneous Weakening of Both Obliques with Horizontal Recti Surgery for Large Sensory Exotropias  
*Divya KISHORE*

12:03 Evaluation of the Therapeutic Effect of Patching in Intermittent Exotropia  
*Rimsha SAROSH*

## Refractive Surgery

### Rapid Fire Refractive Surgery Update Session

11:00 - 12:30 **Venue: Meeting Room 1**  
*Chair(s): Robert ANG, Patchima CHANTAREN, Minoru TOMITA*

11:00 Early Clinical Observation of Intraoperative Corneal Stromal Pocket Irrigation by Dexamethasone in Small Incision Lenticule Extraction  
*Gang LIANG*

11:08 Outcomes of Photorefractive Keratectomy for the Treatment of Irregular Astigmatism following Deep Anterior Lamellar Keratoplasty or Penetrating Keratoplasty  
*Mubashir PARKAR*

11:16 The Results after Implantation of Multifocal LentisM Plus Toric in the Amblyopic Eyes  
*Magda RAU*

11:24 Comparison of Visual Outcomes and Safety of Trans-Epithelial Photorefractive Keratectomy Using Alcon Wavelight EX500 with Conventional Photorefractive Keratectomy  
*Mubashir PARKAR*

11:32 Breastfeeding and Photorefractive Keratectomy: A Retrospective Cohort Study  
*Siamak ZAREI-GHANAVATI*

11:40 Vector Analysis of High ( $\geq 3$  Diopters) Astigmatism Correction Using Small-Incision Lenticule Extraction and Laser In-Situ Keratomileusis  
*Tommy CHAN*

11:48 Comparison of Visual and Aberration Outcomes between Trans-Epithelial Photorefractive Keratectomy (Trans PRK), Wavefront Guided Laser In Situ Keratomileusis (WFG LASIK) and Small Incision Lenticule Extraction (SMILE)  
*Zelda DADACHANJI*

11:56 Translational Impact of Lysyl Oxidase (LOX) on Cross-Linking/Refractive Surgery and Allied Novel Point-Of-Care Diagnostic Kit  
*Pooja KHAMAR*

- 12:04 Analysis of Corneal Stroma and Corneal Nerve Changes following Lasik Using In Vivo Confocal Microscopy (IVCM)  
*Isha AGARWALLA*
- 12:12 Tissue Addition Combined with Collagen Cross Linking — A New Treatment Modality for SMILE Ectasia  
*Sheetal BRAR*
- 12:20 First Direct Comparison of Surface Ablation Versus CIRCLE for Enhancement after Myopic SMILE  
*Martin DIRISAMER*

## Retina (Medical)

### Rapid Fire Retina (Medical) Update Session 1

09:00 - 10:30 **Venue: Plenary Hall 3**

*Chair(s): Kittisak KULVICHIT, Timothy LAI, Colin TAN*

- 09:00 Progressive Retinal Neurodegeneration and Microvascular Change in Diabetic Retinopathy: A Longitudinal Study Using Optical Coherence Tomography Angiography  
*Kiyoung KIM*
- 09:06 Anti-Vascular Endothelial Growth factor A/ Anti-Angiopoietin-2 Bispecific Antibody Faricimab in Diabetic Macular Edema: Efficacy and Safety Results from the Phase 2 BOULEVARD Randomised Clinical Trial  
*Gemmy CHEUNG*
- 09:12 RGC-IPL Thickness and Choroidal Thickness in SD-OCT as a Tool for Early Prediction of Hydroxychloroquine Retinal Toxicity  
*Remya PAULOSE*
- 09:18 Relation between Mean Platelet Volume and Central Retinal Vein Occlusion in Hypertensive Patients  
*Awaneesh UPADHYAY*
- 09:24 Evaluation of Indocyanine Green Angiographic Features in Symptomatic Macular Polypoidal Choroidal Vasculopathy over 24 Months: Results from the EVEREST II Study  
*Colin TAN*
- 09:30 Screening Failure Rates in the EVEREST II Clinical Trial Reveal the Challenges in the Diagnosis of Symptomatic Macular Polypoidal Choroidal Vasculopathy  
*Colin TAN*
- 09:36 Patterns of Hydroxychloroquine and Chloroquine Retinopathy in Thai Patients  
*Nantinee VILAINERUN*

- 09:42 Central Serous Choroidopathy: Epidemiology, Clinical Characteristics, and Influence of Systemic Conditions  
*Devesh KUMAWAT*
- 09:48 Clinical Features of Poor Responders in Half-Dose Photodynamic Therapy for Central Serous Chorioretinopathy  
*Natsuki KUSADA*
- 09:54 Eplerenone for Chronic Central Serous Chorioretinopathy with Cystoid Macular Edema  
*Vignesh T P*
- 10:00 Dexamethasone Implant for Diabetic Macular Edema in Naive Compared to Refractory Eyes. The International Retina Group Real-Life 24 Month Multicentre (IRGRel-DEX) Study  
*Adrian FUNG*
- 10:06 Anti-Vascular Endothelial Growth Factor-A/ Anti-Angiopoietin-2 Bispecific Antibody Faricimab in Neovascular Age-Related Macular Degeneration: Results of Phase 2 Trials  
*Timothy LAI*
- 10:12 Patterns of Hydroxychloroquine and Chloroquine Retinopathy in Thai Patients  
*Nantinee VILAINERUN*
- 10:18 Global Assessment of Retinal Arteriolar and Capillary Microcirculations Using Fundus Photographs and Optical Coherence Tomography Angiography in Diabetic Retinopathy  
*Tien-En TAN*
- 10:24 Phase I/II Study: Safety and Bioactivity of Carotuximab (DE-122) for Refractory Wet Age-Related Macular Degeneration  
*Harvey UY*

### Rapid Fire Retina (Medical) Update Session 2

11:00 - 12:30 **Venue: Plenary Hall 3**

*Chair(s): Gemmy CHEUNG, Paul MITCHELL, Thitiporn RATANAPOJNARD*

- 11:00 Short-Term Real-World Outcomes in Patients Undergoing Intravitreal Conbercept for Neovascular Age-Related Macular Degeneration  
*Xinxiao GAO*
- 11:06 The Short-Term Efficacy and Safety of Intravitreal Aflibercept (IVT-AFL) in Korean Wet Age-Related Macular Degeneration (wAMD) Patients: Based on 2014-2017 Korean Aflibercept Post Marketing Surveillance (PMS)  
*Min SAGONG*

- 11:12 Aqueous Levels of Cytokines in Eyes with Myopic Macular Degeneration  
*Chee Wai WONG*
- 11:18 PLANET Study: Two-Year Anatomical and Morphological Outcomes with Intravitreal Aflibercept Monotherapy Versus Aflibercept Plus Rescue Photodynamic Therapy Assessed by Optical Coherence Tomography  
*Gemmy CHEUNG*
- 11:24 Safety and Bioavailability of Complete and Half Dose Intravitreal Ziv-Aflibercept Injection in an Experimental Model: Contralateral Eye Study  
*Mojtaba ABRISHAMI*
- 11:30 Real-World Data of Intravitreal Aflibercept for Myopic Choroidal Neovascularization: 6-Month Outcomes of Japan Post-Marketing Surveillance  
*Tae YOKOI*
- 11:36 Intravitreal Aflibercept Treat-and-Extend Dosing for Wet Age-Related Macular Degeneration: ALTAIR 96-Week Results  
*Yoshimi NAGAI*
- 11:42 Efficacy of Intravitreal Aflibercept Administered Using Treat-and-Extend Regimen over 2 Years in Patients with Neovascular Age-Related Macular Degeneration: Baseline Characteristics of ARIES  
*Paul MITCHELL*
- 11:48 Timing of Complete Absence of Polypoidal Lesions following Fixed Dosing Aflibercept Treatments in Polypoidal Choroidal Vasculopathy  
*Phit UPAPHONG*
- 11:54 Real-World Data of Intravitreal Aflibercept for Diabetic Macular Edema: 6-Month Outcomes of Japan Post-Marketing Surveillance  
*Masahiko SUGIMOTO*
- 12:00 PLANET Study: Year 2 Treat-and-Extend Intravitreal Aflibercept Use in Patients with Polypoidal Choroidal Vasculopathy  
*Won Ki LEE*
- 12:06 Efficacy of Adjuvant Topical Timolol-Dorzolamide with Intravitreal Bevacizumab Injection in Diabetic Macular Edema: Contralateral Eye Pilot Study  
*Mojtaba ABRISHAMI*
- 12:12 A 10-year Retrospective Review of the Real-life Use of Anti-VEGF in Patients with Age Related Macular Degeneration in Hong Kong  
*Raymond WONG*

- 12:18 Comparison of Treatment Outcomes among Subtypes of Polypoidal Choroidal Vasculopathy in a Multicenter Randomized Controlled Study (EVEREST Study)  
*Wei Kiong NGO*
- 12:24 The Impact of Extent of Internal Limiting Membrane Peeling on Anatomical Outcomes of Macular Hole Surgery: Results of a 54-Week Randomized Clinical Trial  
*Yuou YAO*

## Translational Research in Ophthalmology, Visual Sciences & Glaucoma

### Rapid Fire Translational Research, Visual Sciences and Glaucoma Update Session

09:00 - 10:30 **Venue: Boardroom 2**  
*Chair(s): Kevin CHAN, Tsoncho IANCHULEV, Yanin SUWAN*

- 09:00 Comparison of Central Corneal Thickness Measurements Using Optical and Ultrasound Pachymetry in Glaucoma Patients and Elderly and Young Controls  
*Karin PILLUNAT*
- 09:06 Comparison of New Head Mount Perimeter, Virtual Reality Based C3 Visual Field Analyser (CFA) with Standard Humphrey's Field Analyser (HFA) in Patients With and Without Glaucoma  
*Pavan KUMAR*
- 09:12 The Influence of the Retinal Vascular Topography on the Diagnostic Performance of Retinal Nerve Fiber Layer Thickness Measurements Determined by SD-OCT  
*Mingzhi ZHANG*
- 09:18 FitSight Watch: A Novel Approach to Measure Outdoor Light Patterns in 7-Year-Old Singapore Children  
*Carla LANCA*
- 09:24 Spatiotemporal Expression Changes of PACAP and Its Receptors in Retinal Ganglion Cells after Optic Nerve Crush  
*Dan YE*
- 09:30 Simulation of Restored Accommodation after Scleral Therapies Using Finite Element Analysis  
*Annmarie HIPSLEY*
- 09:36 Regional Biomechanics and Its Correlation with Molecular Signatures In Keratoconus  
*Nikhil BALAKRISHNAN*

- 09:42 Enhancement of a Deep Learning System Using Newer Convolutional Neural Networks and Transfer Learning for Detection of Referable Diabetic Retinopathy  
*Michelle YIP*
- 09:48 New Era of Lens Biophysical Quantification with High Speed Swept Source OCT  
*Pooja KHAMAR*
- 09:54 Mathematical Modelling: A Novel Computational Method to Predict the Future of Refractive Surgery Using Corneal Biomechanics  
*Ann KOSHY*
- 10:00 Casein Kinase-II Inhibition Promotes Retinal Ganglion Cell Survival and Axonal Regeneration  
*Tsz-Kin NG*
- 10:06 Comparison of Amplitude of Accommodation Difference after Continuous Near Work and with Periodic Breaks Using Rule 20-20-20  
*Rahmat FITRA*
- 10:12 Role of Retinal Eccentricity in Dark Adaptation of the Eye  
*Akshay NARAYAN*
- 10:18 Corneal Rim and Tackdriver as Innovative Minimally Invasive Glaucoma Surgery Training Models  
*Helen CHUNG*



# POSTERS

## Academia, Research, Teaching and Education in Ophthalmology

Poster No.: EX1-001

### Multimodal Imaging of an Experimental Retinal Vein Occlusion Mouse Model

First Author: Norihiro **SUZUKI**

Co-Author(s): Yoshio **HIRANO**, Yuichiro **OGURA**, Tsutomu **YASUKAWA**, Munenori **YOSHIDA**

Poster No.: EX1-002

### Resident Assessment Tools for Nd:YAG Laser Peripheral Iridotomy and Selective Laser Trabeculoplasty

First Author: Danielle **WENTZELL**

Co-Author(s): Helen **CHUNG**, Patrick **GOOI**, Chris **HANSON**, Matt **SCHLENKER**

Poster No.: EX1-003

### Evaluation Tool for Resident Performance of Nd:YAG Laser Capsulotomy

First Author: Danielle **WENTZELL**

Co-Author(s): Helen **CHUNG**, Patrick **GOOI**, Chris **HANSON**, Matt **SCHLENKER**

Poster No.: EX1-004

### A Review of Competency-Based Medical Education in Ophthalmology Residency Training

First Author: Danielle **WENTZELL**

Co-Author(s): Helen **CHUNG**, Patrick **GOOI**, Chris **HANSON**, Matt **SCHLENKER**, Kevin **WARRIAN**

Poster No.: EX1-005

### Medical Student Perception of Various Small Group Teaching and Learning Techniques During Ophthalmology Clinical Posting

First Author: Prabhu **VENKATESAN**

Co-Author(s): Rajiv **GUPTA**, Soumendra **SAHOO**, Saurab **SRIVATSAV**

Poster No.: EX1-006

### Impact of Training Model for Primary Care Physicians in Reducing Diabetic Complications in India: A Systematic Review

First Author: Pushkar **KUMAR**

Co-Author(s): Gudlavalleti Venkata Satyanarayana **MURTHY**, Dorairaj **PRABHAKARAN**, Ramachandran **RAJALAKSHMI**, Kim **RAMASAMY**, Ranjit **UNNIKRISHNAN**

Poster No.: EX1-007

### The Use of an E-Learning Model to Enhance Skills of Primary Care Physicians in Diabetic Retinopathy Management at a Primary Care Level in India

First Author: Manoj **JOSHI**

Co-Author(s): Gudlavalleti Venkata Satyanarayana **MURTHY**, Dorairaj **PRABHAKARAN**, Ramachandran **RAJALAKSHMI**, Kim **RAMASAMY**, Ranjit **UNNIKRISHNAN**

Poster No.: EX1-008

### A Unique Education Program on Diabetic Retinopathy for Primary Care Physicians in India: An Eye Toward the Future

First Author: Sandeep **BHALLA**

Co-Author(s): Gudlavalleti Venkata Satyanarayana **MURTHY**, Dorairaj **PRABHAKARAN**, Ramachandran **RAJALAKSHMI**, Kim **RAMASAMY**, Ranjit **UNNIKRISHNAN**

## Cataract

Poster No.: EX1-009

### Prevalence of Corneal Astigmatism Before Cataract Surgery in Cambodian Population

First Author: Vinh **SUN**

Co-Author(s): Ponndara **ITH**, Piseth **KONG**, Bunsocheat **MAM**, Amarin **MAR**, Meng **NGY**

Poster No.: EX1-010

### IOL Opacification Years After Uncomplicated Cataract Surgery: An Upcoming Challenge

First Author: Remya **PAULOSE**

Co-Author(s): Jyotirmay **BISWAS**, Thomas Cherian **CHERIAN**, Reesha **KARINGATTIL**

Poster No.: EX1-011

### IOL Scaffold in Phacoemulsification to Prevent Posterior Capsule Tear

First Author: Ashraf **RIDOY**

Co-Author(s): Niaz **ABDUR RAHMAN**, Mahbubur Rahman **CHOWDHURY**, Mahziba **CHOWDHURY**, Syeed **KADIR**

Poster No.: EX1-012

### Final Visual Outcomes Following Cataract Surgery at Outreach Camps in Remote Areas in Timor-Leste

First Author: Frenky **DE JESUS**

Poster No.: EX1-013

### Assessment of Visual Acuity Using Tablet and Smartphone Applications

First Author: Wimwipa **DIEOSUTHICHAT**

Co-Author(s): Sarayut **NIJVIPAKUL**, Wichai **PRASARTRITHA**

## Poster No.: EX1-014

## Repair of Corneal Laceration with Removal of Traumatic Cataract and Subsequent Posterior Chamber Intraocular Lens Implantation and Membranectomy in a 15-Year-Old Female: A Case Report

First Author: Cristina **TAN**Co-Author(s): Victor **CAPARAS**, Corinna Elise **SAMANIEGO**

## Poster No.: EX1-015

## Cataract in an Underdeveloped Region of Indonesia: Visual Outcome of Cataract Surgery and Influencing Factors

First Author: Cynthia **VIRYAWAN**Co-Author(s): Michael **HARTONO**, Nur Azizah **JUZMI**

## Poster No.: EX1-016

## Outcome of Scleral Fixation Intraocular Lens in Absent Posterior Capsule Support

First Author: Arjun **SHRESTHA**

## Poster No.: EX1-017

## Multimodal Imaging in an Idiopathic Spontaneously Absorbed Cataractous Lens

First Author: Saurabh **DESHMUKH**Co-Author(s): Harsha **BHATTACHARJEE**, Krati **GUPTA**, Diva **MISRA**

## Poster No.: EX1-018

## Comparison of Anterior Chamber Depth, Axial Length, and Keratometry Using 5 Biometric Measurements

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## Poster No.: EX1-019

## Surgical Outcomes of Cataract Surgery in Very Elderly Patients

First Author: Yusuke **KOGA**Co-Author(s): Koji **KITAZAWA**, Kentaro **KOJIMA**, Natsuki **KUSADA**, Chie **SOTOZONO**, Kazuhito **YONEDA**

## Poster No.: EX1-020

## Comparison of the Accuracy of Barrett Universal II and 4 Intraocular Lens Formulas Optimized by Wang-Koch Formula in Eyes Above 25 mm with a Trifocal IOL

First Author: Yong **WANG**Co-Author(s): Bichao **CHEN**, Xueting **LI**, Tan **QIAN**

## Poster No.: EX1-021

## Soft Shell Technique: Outcome of Phacoemulsification Surgery for Hard Cataract

First Author: Sharifa **MITU**Co-Author(s): Rahima **BHUIYA**, Ahsanul **HUQ**, Syeed **KADIR**, Zahangir **MUKUT**

## Poster No.: EX1-022

## Efficacy and Safety of Ketorolac Tromethamine 0.45% for Treatment of Anterior Segment Inflammation and Pain After Phacoemulsification in Type 2 Diabetic Patients

First Author: Ainal **NAFFI**Co-Author(s): Jemaima **CHE HAMZAH**, Norshamsiah **MD DIN**, Safinaz **MOHD KHALDIN**, Othmaliza **OTHTMAN**

## Poster No.: EX1-023

## Preliminary Clinical Observation on Vision Quality of Implantation with Refractive Rotationally Asymmetric Multifocal Intraocular Lens

First Author: Yong **WANG**Co-Author(s): Xiao **WANG**

## Poster No.: EX1-024

## Modified Iris Repair in Traumatic Iris

First Author: Siska **SUMANJAYA**Co-Author(s): Ariesanti **HANDAYANI**, Gede **JAYANEGARA**, Gita **SARASWATI**

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## Intraoperative Difficulties, Complications, and Patient-Reported Visual Function in Cataract Surgery

First Author: Magnus **GRIMFORS**Co-Author(s): Jonas **HÖIJER**, Maria **KUGELBERG**, Mats **LUNDSTRÖM**

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## Evaluation of the Effect of Higher-Order Aberrations on Visual Performance in Patients Implanted with Rotationally Asymmetric Multifocal Intraocular Lens

First Author: Yong **WANG**Co-Author(s): Xiao **WANG**

## Poster No.: EX1-027

## Comparative Analysis of Postoperative Optical Performance in Different Pupil Diameters with 3 Intraocular Lenses: Bifocal, Trifocal, and Extended Range of Vision

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## Cornea, External Eye Diseases &amp; Eye Bank

## Poster No.: EX1-028

## Screening for MIR184 Mutations in Iranian Patients with Keratoconus

First Author: Nader **NASSIRI**Co-Author(s): Kourosh **SHEIBANI**

## Poster No.: EX1-029

## Prognosis and Risk Factors for Treatment Failure of Secondary Infectious Keratitis in Patients with Herpetic Keratitis

First Author: Kyung Chul **YOON**Co-Author(s): Won **CHOI**, Rujun **JIN**, Dong Kyu **LEE**, Ying **LI**

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## Continuous Exposure of Nicotine and Cotinine Retards Human Primary Pterygium Cell Proliferation and Migration

First Author: Tsz-Kin **NG**Co-Author(s): Vishal **JHANJI**, Calvin **PANG**, Qichen **YANG**

## Poster No.: EX1-031

## Annular Conjunctival Autograft: A Novel Approach for Ocular Surface Reconstruction

First Author: Sujit **BISWAS**Co-Author(s): Soma **ROY**

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Effect of Outdoor Environmental Pollution on the Ocular Surface

First Author: Tripti **JOHRI**

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Poster No.: EX1-033

Upregulation of Teneurin-2 Transcript in the Conjunctival Epithelium of Stevens-Johnson Syndrome Patients in the Chronic Stage

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Poster No.: EX1-034

Femtosecond Laser-Assisted Conjunctival Autograft Preparation for Pterygium Surgery

First Author: Yu-Chi **LIU**

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Clinical Evaluation of a New Enhanced Viscosity Eye Drop for Moderate to Severe Dry Eye Disease: A Multicenter, Double-Masked, Randomized 30-Day Study

First Author: Sameena **HAQUE**

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Poster No.: EX1-036

Clinical Evaluation of a Novel Lipid-Containing Lubricant Eye Drop with Omega-3 Oil and Trehalose

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Poster No.: EX1-037

Effect of 3 Common Ophthalmic Solutions on Silicone Hydrogel Lens Material Senofilcon A Investigated In Vivo and In Vitro

First Author: Sara **DE LIMA**

Poster No.: EX1-038

Minor Ipsilateral Simple Limbal Epithelial Transplantation Technique for Pterygium

First Author: Karan **BHATIA**

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Poster No.: EX1-039

Keratoconus in Down Syndrome: More Common Than Anticipated

First Author: Joyce **MATHAN**

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Poster No.: EX1-040

Long-Term Outcomes of the Combined Therapy of COMET and Keratoplasty

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Poster No.: EX1-041

Anti-Inflammatory Effects of Flavones-Derived Material Isolated from *Glycyrrhiza uralensis* in Dry Eye Diseases

First Author: Hong **KIM**

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Poster No.: EX1-042

Bilateral Pthiriasis Palpebrarum: A Case Report

First Author: Kristine **PORMIDA**

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Poster No.: EX1-043

Medical Management of Extraocular Cysticercosis: Promising Results of Topical Cyclosporine. A Case Report

First Author: Manmeet **SINGH**

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Poster No.: EX1-044

Alteration of Ocular Higher-Order Aberrations After Orthokeratology Lens Wear

First Author: Jae Yong **KIM**

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Poster No.: EX1-045

HSV-1 Detection in Primary Keratoplasty and Failed Graft Corneal Buttons

First Author: Shahzan **ANJUM**

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Poster No.: EX1-046

The Role of Rigid Gas Permeable Contact Lens in Improving Visual Acuity in a Patient with Bilateral Corneal Scars

First Author: Veda **PUTRI**

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Poster No.: EX1-047

Tenon Patch Graft: An Eye-Saving Procedure

First Author: Muhammad **RAHMAN**

Poster No.: EX1-048

Effectiveness of Topical Olopatadine 0.1% and Sodium Cromoglycate 2% in Vernal Keratoconjunctivitis

First Author: Sabina **BIJUKACHHE**

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Poster No.: EX1-049

Allergic Conjunctivitis in Children of Hong Kong: Association with Environmental and Socioeconomic Factors

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Poster No.: EX1-050

Peripheral Ulcerative Keratitis Caused by Suspected Relapsing Polychondritis

First Author: Aryatika **ALAM**

Poster No.: EX1-051

### Outcome of Deep Anterior Lamellar Keratoplasty for Infectious Keratitis

First Author: Pham **NGOC DONG**

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First Author: Miratasya **KASIM**

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Poster No.: EX1-053

### Accuracy and Reliability of the Ocular Surface Index in Thai for Identifying Dry Eyes Among the Thai Population

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Poster No.: EX1-054

### Comparative Study of Culture of Mammalian Corneal Epithelial Cells on Indigenous Developed Biodegradable Polymer Membrane vs Human Amniotic Membrane

First Author: Tushar **AGARWAL**

Poster No.: EX1-217

### Clinical Characteristics and Associated Risk Factors of Mycotic Keratitis Resulting in Evisceration and Enucleation

First Author: Wanpiya **SRIPATTHANGKURA**

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## Glaucoma

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### Anterior and Posterior Segment Structural Features of Acute Primary Angle-Closure Eyes

First Author: Wenbin **HUANG**

Co-Author(s): Fei **LI**, Xiulan **ZHANG**

Poster No.: EX1-056

### Decreased Orbital Fat and Enophthalmos Due to Bimatoprost: Quantitative Analysis Using Magnetic Resonance Imaging

First Author: Tomoaki **HIGASHIYAMA**

Co-Author(s): Masashi **KAKINOKI**, Takayuki **MINAMIKAWA**, Masahito **OHJI**, Osamu **SAWADA**

Poster No.: EX1-057

### Progression of Primary Glaucoma in Malays: Survival Analysis Outcome

First Author: Diana Toh **SHI JIN**

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Poster No.: EX1-058

### Central Retinal Venous Pressure in Asymmetric Primary Open Angle Glaucoma

First Author: Lutz **PILLUNAT**

Co-Author(s): Clemens **CARL**, Karin **PILLUNAT**

Poster No.: EX1-059

### Incidence of Glaucoma Among Healthy People in Lampang Province (Northern Thailand)

First Author: Lerprat **MANGKORNKANOKPONG**

Poster No.: EX1-060

### Automatic Differentiation of Glaucoma Visual Field from Nonglaucoma Visual Field Using Deep Convolutional Neural Network

First Author: Fei **LI**

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Poster No.: EX1-061

### Evaluation of the iPad "Visual Fields Easy" as Mobile Visual Field Test for Glaucoma Patients

First Author: Jingjing **HUANG**

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### Prediction for Effectiveness of Unilateral Selective Laser Trabeculoplasty for the Untreated Fellow Eye of Primary Open-Angle Glaucoma Patients

First Author: Xiang **FAN**

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Poster No.: EX1-063

### Factors Associated with the Risk of Obstructive Sleep Apnea in Patients with Open-Angle Glaucoma

First Author: Dhashani **SIVARATNAM**

Co-Author(s): Nur Fattin **ABDUL KHANI**, Vanessa Mei Yi **CHEN**, Alistair Chen Yin **CHEW**, Navin Kumar **DEVARAJ**, A.r **ROSNIZA**

Poster No.: EX1-064

### Effect of Phacoemulsification with Intraocular Lens Implantation on Long-Term Intraocular Pressure Fluctuation in Patients with and without Glaucoma

First Author: Yarnarin **PAPASSORNSIRI**

Co-Author(s): Anita **MANASSAKORN**, Prin **ROJANAPONGPUN**, Visanee **TANTISEVI**

Poster No.: EX1-065

### Optic Disc Pit Presenting as Visual Field Scotoma and Macular Retinoschisis

First Author: Ju **CHENG**

Poster No.: EX1-066

### A New Outlook in Detection of Glaucoma Progression: RNFL in Trend-Based Progression Analysis of Glaucoma

First Author: Leo Ka Yu **CHAN**

Co-Author(s): Alexander Ka Ngai **LAM**, Christopher **LEUNG**, Ken **WU**



Poster No.: EX1-067

**Safety and Efficacy of Combined iStent Trabecular Microbypass Stent Implantation and Cataract Surgery in Eyes with Primary Angle Closure Glaucoma: 12-Month Results**

First Author: David **HERNSTADT**

Co-Author(s): Jason **CHENG**, Tiakumzuk **SANGTAM**, Chelvin **SNG**, Anoop **THOMAS**

Poster No.: EX1-068

**Structural and Functional Evaluation of Normal Tension Glaucoma in Obstructive Sleep Apnea Syndrome**

First Author: Lan-Hsin **CHUANG**

Poster No.: EX1-069

**Juvenile Open Angle Glaucoma: The Clinical Profile and Success Rate of Trabeculectomy in 2 Major Eye Hospitals in Yogyakarta**

First Author: Theresia **SIDABUTAR**

Co-Author(s): Retno **EKANTINI**, Widya **RAMANIA**, Tatang **TALKA GANI**, Krisna **PURNOMO JATI**

Poster No.: EX1-070

**Correlation Analysis Between Acute Primary Angle-Closure Attack and Meteorological Factors**

First Author: Yuqiang **HUANG**

Co-Author(s): Chor Kai **HUANG**, Yan **LI**, Mingzhi **ZHANG**, Xin **ZHONG**

Poster No.: EX1-071

**The Effects of Pirfenidone on the Expression of Genes in Human Tenon Fibroblasts**

First Author: Yangfan **YANG**

Co-Author(s): Caiqing **WU**, Minbin **YU**

Poster No.: EX1-072

**A Phase IV, Randomized Study to Evaluate the Additive IOP-Lowering Effect of Brinzolamide 1%/Brimonidine 0.2% Fixed-Dose Combination as an Adjunct to Prostaglandin Analog in Open-Angle Glaucoma or Ocular Hypertension**

First Author: Doug **HUBATSCH**

Co-Author(s): Ivan **GOLDBERG**, Fabian **LERNER**, Marcelo **NICOLELA**, Antonia **RIDOLFI**, Fotis **TOPOUZIS**

Poster No.: EX1-073

**Subluxation of an Acrylic Intraocular Lens During Nd:YAG Laser Capsulotomy on an Eye with Congenital Glaucoma**

First Author: Corrina **AZARCON**

Poster No.: EX1-074

**Volumetric Parameter-Based Differentiation of Narrow Angle from Open Angle: An SS-OCT Study**

First Author: Fei **LI**

Co-Author(s): Xiulan **ZHANG**

Poster No.: EX1-075

**Quality of Life and Related Factors in Glaucoma Patients in the Glaucoma Department at Vietnam National Institute of Ophthalmology**

First Author: Le **THAO**

## Intraocular Inflammation, Uveitis & Scleritis

Poster No.: EX1-076

**An Unusual Case of Varicella Zoster Virus Retinitis After Herpes Zoster Infection in an Immune-Competent Patient**

First Author: Caius **GOH**

Poster No.: EX1-077

**Inflammatory Choroidal Neovascular Membrane Associated with Vogt-Koyanagi-Harada Disease in Active and Chronic Stage: A Retrospective Study**

First Author: Hitesh **AGRAWAL**

Co-Author(s): Rajeev **REDDY**, Mudit **TYAGI**

Poster No.: EX1-078

**Reactivation of Bilateral Acute Retinal Necrosis on Systemic Antiviral Therapy in a Post Kidney Transplant Patient**

First Author: Natcha **JINTAGANON**

Co-Author(s): Thanapong **SOMKIJRUNGROJ**, Budsarat **SULEESATHIRA**

Poster No.: EX1-079

**Overlap Syndrome as a Cause of Posterior Uveitis: A Rare Case Presentation**

First Author: Krishnima **RAGHU**

Co-Author(s): Radha K. Annamalai **ANNAMALAI**, Debolina **DEB**, Ansu **JOHN**, Meera **MOHANAKUMAR**, M **MUTHIAH**

Poster No.: EX1-080

**Ocular Morbidity with the Help of CD4 Cell Count in HIV Patients**

First Author: Vinod **SINGH**

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Poster No.: EX1-081

**Vasculitic Vein Occlusion with Central Serous Choroiretinopathy**

First Author: Awaneesh **UPADHYAY**

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Poster No.: EX1-082

**Clinical Profile of Bilateral Acute Retinal Necrosis: 20 Years' Consecutive Data**

First Author: Parthoprattim **DUTTA MAJUMDER**

Co-Author(s): Jyotirmay **BISWAS**, Sudha **GANESH**, Kowsigan **MAGESAN**

## Neuro-Ophthalmology

Poster No.: EX1-083

**Visual Acuity Recovery in Bilateral Optic Neuritis and Epileptic Seizure Associated with Japanese Encephalitis Vaccination**

First Author: Luh **MAHARANI**

Co-Author(s): Ign **SUWARBA**, Anak Agung Mas **TRININGRAT**, Dian **MEGA**



Poster No.: EX1-084

### Ophthalmic Manifestation of Vein of Galen Malformation: A Rare Presentation

First Author: Priyadharshini **PALANIYAPPAN**

Co-Author(s): Debolina **DEB**, Mary Santhosh **JOSEPH**, Ansu **JOHN**, Santhosh **JOSEPH**, Baghya **LAKSHMI**

Poster No.: EX1-085

### Nasopharyngeal Carcinoma Presenting with Sudden Vision Loss

First Author: Melita **DJAJA**

Poster No.: EX1-086

### Proptosis in Cavernous Sinus Thrombosis Masquerading as Orbital Cellulitis

First Author: Ni Luh **NATALIA**

Co-Author(s): Juliari I **GUSTI AYU MADE**, Ia Sri **INDRAYANI**, Anak Agung Mas **TRININGRAT**, Kumara **TINI**

Poster No.: EX1-087

### A Rare Case Report of Bilateral Traumatic Carotid Cavernous Fistula

First Author: Fadli **RAFIKA**

Co-Author(s): Syntia **NUSANTI**, Mohamad **SIDIK**

Poster No.: EX1-088

### A Clinical Study of Various Ocular Manifestations and Their Co-Relation in Intracranial Space Occupying Lesions

First Author: Deepa **MUGALI**

Co-Author(s): Kavita Salagar **SALAGAR**

Poster No.: EX1-089

### Bilateral Lagophthalmos of Borderline Tuberculoid Leprosy: A Case Report

First Author: Meera **MOHANAKUMAR**

Co-Author(s): Debolina **DEB**, Ansu **JOHN**, Priyadharshini **PALANIYAPPAN**, Krishnima **RAGHU**, Saranya **DEVI K**

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### Clinical Features of Nonarteritic Anterior Ischemic Optic Neuropathy Patients Attending the Neuro-Ophthalmology Department of a Tertiary Eye-Care Hospital in Bangladesh

First Author: Tanimia **ROY**

Poster No.: EX1-091

### A Unique Presentation of Atypical Optic Neuritis: Challenge in Diagnosis and Management

First Author: Joshua **LUMBANTOBING**

Co-Author(s): Syntia **NUSANTI**, Emil **SJAHREZA**

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### Efficacy of Adding Erythropoietin to Intravenous Methylprednisolone as a Treatment for Optic Neuritis: A Systematic Review

First Author: Nur **RAHMAWATI**

Co-Author(s): Syntia **NUSANTI**, Nizma **PERMAISUARI**, Fabianto **SANTOSO**

Poster No.: EX1-093

### Endovascular Coiling Emnolization in Direct Carotid-Cavernous Fistula: A Literature Review

First Author: Yulika **HARNIZA**

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## Ocular Imaging

Poster No.: EX1-094

### Innovative Use of Android App to Measure Lesions on Slitlamp, Fundus, and Gross Ophthalmic Smartphone Photographs

First Author: John **AKKARA**

Co-Author(s): Davis **AKKARA**, Ethamma **DAVIS**, Anju **KURIAKOSE**

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### Comparison of Repeatability of Swept-Source and Spectral-Domain Optical Coherence Tomography for Measuring Inner Retinal Thickness in Retinal Disease

First Author: So Jung **RYU**

Co-Author(s): Hee Yoon **CHO**, Eun Hee **HONG**, Yong Un **SHIN**

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### Comparison of Accuracy of Measured Values in Sitting Position OCT and Supine Position OCT Under General Anesthesia in the Same Child

First Author: Kinei **RA**

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### A Tale of Two 3D-Printed Smartphone Fundus Cameras: How to Make and Use Them

First Author: John **AKKARA**

Co-Author(s): Davis **AKKARA**, Ethamma **DAVIS**, Anju **KURIAKOSE**, Prasanth **GIREESH**

Poster No.: EX1-098

### Enabling Choroidal Neovascularization to be Visible: OCT Angiography Imaging of Neovascular AMD

First Author: Paul **MITCHELL**

Co-Author(s): Gemmy Chui Ming **CHEUNG**, Gerald **LIEW**, Tien-Yin **WONG**

Poster No.: EX1-099

### A Novel Technique to Assess Severity of Diabetic Retinopathy Using Optical Coherence Tomography Angiography

First Author: Li **KELVIN**

Co-Author(s): Colin **TAN**, Darren **WONG**

Poster No.: EX1-100

### Three Cases of Taxane-Induced Macular Edema: Multimodal Imaging and Treatment Outcomes

First Author: Joel **PEREZ**

Co-Author(s): Kb **FREUND**, Anna Cs **TAN**, Maiko **INOUE**

Poster No.: EX1-101

### Choroidal Thickness Measurements Using Enhanced Depth Imaging on Optical Coherence Tomography in Retinal Vein Occlusion

First Author: Chintan **DESAI**

Co-Author(s): Manabjyoti **BARMAN**, Diva **MISRA**, Ronel **SOIBAM**, Awaneesh **UPADHYAY**, Hemlata **DEKA**

## Ocular Oncology & Pathology

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### Taming the Masquerader: A Rare Case of Sebaceous Gland Carcinoma

First Author: Abhishek **ONKAR**

Co-Author(s): Pooja **CHOUDHARY**, Arvind **MORYA**, Meenakshi **RAO**, Hemant **RATHOD**, Saurabh **SAMDARIYA**

Poster No.: EX1-103

### Outcomes of Intravitreal Melphalan for Vitreous Seeding Resistant to Systemic Chemotherapy or Intra-Arterial Chemotherapy in Retinoblastoma

First Author: Hussain **KHAQAN**

Poster No.: EX1-104

### Management and Outcome of Extensive Periocular Basal Cell Carcinoma: A 5-Year Case Series

First Author: Syeed **KADIR**

Co-Author(s): Nilutparna **DEORI**, Rajendra **MAURYA**, Mahendra Kumar Singh **SINGH**, Virendra P **SINGH**, Tanmay **SRIVASTAV**

Poster No.: EX1-105

### Unusual Site of Orbital Kaposi Sarcoma in an HIV-Positive Patient

First Author: Neni **ANGGRAINI**

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Poster No.: EX1-106

### Analysis of Cellular and Molecular Features of Primary Retinoblastoma Cells

First Author: Huan **MA**

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### Exenteration Following an Internal Carotid Artery Ligation in Cavernous Hemangioma: A Case Report

First Author: Melvina **SANDRA**

Co-Author(s): Banu **DIBYASAKTI**, Wiryawan **MANUSUBROTO**, Agus **SUPARTOTO**, Purjanto **UTOMO**

Poster No.: EX1-108

### Iris Metastasis from Primary Squamous Cell Carcinoma of the Esophagus: A Case Report

First Author: Krati **GUPTA**

Co-Author(s): Dipankar **DAS**, Saurabh **DESHMUKH**, Henal **JAVERI**, Diva **MISRA**

Poster No.: EX1-109

### Study of the Histopathological Characteristics of Ciliary Body from the Enucleated/Eviscerated Human Eye and Comparison of Histopathological Features of Ciliary Body in Various Etiologies

First Author: Hitesh **AGRAWAL**

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Poster No.: EX1-110

### Myeloid Sarcoma Masquerading as Neuroblastoma

First Author: Dhashani **SIVARATNAM**

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Poster No.: EX1-111

### Practice Patterns in the Management of Sebaceous Cell Carcinoma of the Eyelid in Asia-Pacific Region

First Author: Janice Jing Chee **CHEUNG**

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Poster No.: EX1-112

### Reliability of Impression Cytology in the Diagnosis of Ocular Surface Squamous Neoplasia

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### A Mysterious Case of Transient Proptosis: A Rare Case Report

First Author: Debolina **DEB**

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### Efficacy and Safety Outcome Comparison of Endoresection and Proton Beam Therapy as Primary Treatment for Choroidal Melanoma

First Author: Kurnia **DENISA**

Co-Author(s): Neni **ANGGRAINI**

Poster No.: EX1-115

### A Rare Case of Orbital Schwannoma in a 14-Year-Old Boy

First Author: Patricia Ann **LEE**

Co-Author(s): Jo Anne **HERNANDEZ-TAN**, Aprille June **RAPISTA**, Alex **SUA**

Poster No.: EX1-116

### Retinoblastoma and Inflammation: What is New in Ophthalmology?

First Author: Suklengmung **BURAGOHAIN**

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Poster No.: EX1-117

### Involution of Endophytic Optic Nerve Head Angioma with a Single Session of Photodynamic Therapy

First Author: Pritam **BAWANKAR**

Co-Author(s): Pushkar **DHIR**, Diva **MISRA**, Preetam **SAWANT**, Awaneesh **UPADHYAY**

Poster No.: EX1-118

**Pathogenesis of Sporadic Orbitocranial Meningioma: Neurofibromatosis Type 2 Gene Mutation and Its Relation to Progesterone Receptor Expression**

First Author: Datu **RESPATIKA**

Co-Author(s): Banu **DIBYASAKTI**, Indra **MAHAYANA**, Agus **SUPARTOTO**, Purjanto **UTOMO**

## Ophthalmic Epidemiology, Telemedicine, Big Data & AI

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**Clinical Study of Retinal Vein Occlusions: Risk Factors and Clinical Features. A Rural Hospital-Based Study**

First Author: Anshul **SINGH**

Poster No.: EX1-120

**Correlation Between Modifiable Risk Factors and Age-Related Macular Degeneration: A Case-Control Study**

First Author: Krati **GUPTA**

Co-Author(s): Harsha **BHATTACHARJEE**, Saurabh **DESHMUKH**, Diva **MISRA**, Dhaval **PATEL**

Poster No.: EX1-121

**Deep Learning for Diabetic Retinopathy with OCT Angiography**

First Author: Toshihiko **NAGASAWA**

Co-Author(s): Hiroki **MASUMOTO**, Hitoshi **TABUCHI**

Poster No.: EX1-122

**Dilated Smartphone Imaging for the Detection and Grading of Diabetic Retinopathy**

First Author: Kaye Lani Rea **LOCAYLOCAY**

Co-Author(s): Milagros **ARROYO**, Victor **CAPARAS**, Keshia Lourdes **DUYONGCO**, Paolo **SILVA**

Poster No.: EX1-123

**Association Between Estimated Retinal Ganglion Cell Counts and Visual Acuity: The Singapore Chinese Eye Study**

First Author: Yijin **TAO**

Co-Author(s): Miao Li **CHEE**, Ching-Yu **CHENG**, Yih-Chung **THAM**, Tien **WONG**, Hua **ZHONG**

Poster No.: EX1-124

**Diabetic Retinopathy Screening Program in a Southern Part of Bangladesh: Our Experience and Key Findings**

First Author: Md.shafiqul **ISLAM**

Poster No.: EX1-125

**A Paradigm Shift in the Evaluation of Pediatric Myopia Using Corneal Tomography and Biomechanical Indices: The Present and the Future**

First Author: Ann **KOSHY**

Co-Author(s): Mathew **FRANCIS**, Jyoti **MATALIA**, Abhijit **SINHA ROY**, Rohit **SHETTY**

## Orbital and Oculoplastic Surgery

Poster No.: EX1-126

**Sight-Threatening Extraocular Cysticercosis Cyst**

First Author: Hiranmoyee **DAS**

Poster No.: EX1-128

**Endoscopic Transnasal Canaliculorhinostomy for the Treatment of Refractory Common Canalicular Obstruction with an Unidentifiable Lacrimal Sac**

First Author: Jason **LEE**

Co-Author(s): Yunhai **TU**, Wencan **WU**

Poster No.: EX1-129

**Outcome of Reconstruction of Blowout Orbital Floor Fracture with Corticocancellous Iliac Bone**

First Author: Golam **HAIDER**

Co-Author(s): Sharmin **AHMED**, Md. Ismail **HOSSAIN**, Hasan **JAWAD**, Syeed **KADIR**, Mukti **MITRA**

Poster No.: EX1-130

**Langerhans Cell Histiocytosis of the Orbit (Histiocytosis X) vs Extrapulmonary Tuberculosis**

First Author: Michelle Marie **ARANETA**

Co-Author(s): Alex **SUA**

Poster No.: EX1-131

**Extrascleral Extension of Choroidal Melanoma After Brachytherapy Treatment**

First Author: Christopher **LO**

Co-Author(s): Juliet **ESSILFIE**, Hamzah **MUSTAK**, Daniel **ROOTMAN**, Annie **TRAN**, Tara **YOUNG**

Poster No.: EX1-132

**Powered Endoscopic Dacrycystorhinostomy, Raising the Bar**

First Author: Roopa **HIREMATH**

Poster No.: EX1-133

**Revision of Failed External Dacryocystorhinostomies: Efficacy and Safety of Adjunctive Intranasal Mitomycin-C and Triamcinolone**

First Author: Sombat **TANABOONYAWAT**

Co-Author(s): Vagefi M. **REZA**, Idowu **OLUWATOBI**, Kersten **ROBERT**, Copperman **THOMAS**

Poster No.: EX1-135

**Endoscopic Transnasal Approach for Resection of Orbital Apex Tumor**

First Author: Rong **LU**

Co-Author(s): Rongxin **CHEN**, Yang **GAO**, Huan **MA**

Poster No.: EX1-136

### Orbital Foreign Bodies: An Analysis of 42 Cases

First Author: Khairun **NESA**

Co-Author(s): Sharmin **AHMED**, Syeed **KADIR**, Rajendra **MAURYA**, Sharifa **MITU**, Ashraful **RIDOY**

Poster No.: EX1-137

### Ethnicity, Age, and Gender Variations in Orbital Volumes and Optic Nerve Lengths in a Southeast Asian Population

First Author: Trisha **ZHANG**

Poster No.: EX1-138

### Management of Huge Blowout Fracture with Total Displacement of an Intact Globe into the Maxillary Sinus: A Case Report

First Author: Brenda **HAYATULHAYA**

Co-Author(s): Yunia **IRAWATI**

Poster No.: EX1-139

### Clinico-Radiological-Pathological Correlation of Nonneoplastic Lacrimal Gland Enlargement/Dacryoadenitis in a Chinese Cohort

First Author: Ka Hei Kenneth **LAI**

Co-Author(s): Kelvin Kam-Lung **CHONG**, Simon **KO**, Julie **LOK**, Alvin **YOUNG**

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### A Rare Case of Bilateral Severe Microphthalmia with Orbital Cyst with Massive Retinal Gliosis

First Author: Shweta **RAGHAV**

Co-Author(s): Ruchi **GOEL**, Apoorva **SEHGAL**

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### Rare Pediatric Unilateral Idiopathic Orbital Inflammatory Disease

First Author: Arwinderjit **WALIA**

Co-Author(s): Radzlian **BIN OTHMAN**, Dhashani **SIVARATNAM**

Poster No.: EX1-142

### Intralesional Bleomycin Injection in the Management of Orbital Lymphangiomas

First Author: Ankit **TOMAR**

Co-Author(s): Sonal **CHAUGULE**, Santosh **HONAVAR**, Sameeksha **TADEPALLI**

Poster No.: EX1-143

### Reversed Probing and Silicone Intubation for Acquired or Congenital Complete Stenosis of Punctum

First Author: Pham **NGOC DONG**

Co-Author(s): Thi Thuy Hang **DO**, Do **TUYET NHUNG**

Poster No.: EX1-144

### A Rare Case of Multicentric Castleman Disease with Bilateral Orbital Involvement

First Author: Kirthi **KOKA**

Co-Author(s): Bipasha **MUKHERJEE**

Poster No.: EX1-218

### Kimura Disease of the Eyelid

First Author: Putu **YULIAWATI**

Co-Author(s): Sukartini **DJELANTIK**, Prichilia **PERMADI**, Ni Made **UTARI**

## Pediatric Ophthalmology & Strabismus

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First Author: Usa **THITIRATSANONT**

Co-Author(s): Kunlayanut **KANJANABURA**, Piyaat **SIMTHAMNIMIT**, Chalernpol **SRICHAROEN**, Nattapong **THITIRATSANONT**

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### The Effects of Using Handheld Information Devices on Visual Function in Japanese School Children

First Author: Kanako **MATSUI**

Co-Author(s): Yasuko **HAYASHI**, Hiroko **TAKASAKI**, Michiko **YONESHIMA**

Poster No.: EX1-147

### Outcomes of Cataract Surgery in Pediatric Uveitis

First Author: Chirakshi **DHULL**

Co-Author(s): Jyothi **BALAKRISHNAN**, Yogita **GUPTA**, Sudarshan **KHOKHAR**, Manish **MAHABIR**

Poster No.: EX1-148

### Comparison of Plusoptix S12R Photoscreener with Cycloplegic Retinoscopy and Autorefractor in the Pediatric Age Group

First Author: Varun **SAINI**

Co-Author(s): Raffat **ANJUM**, Jawahar **GOYAL**, Anika Gupta **GUPTA**, Usha **RAINA**, Pallavi **SAINI**

Poster No.: EX1-149

### Long-Term Results of Slanted Recession of Bilateral Lateral Rectus Muscle for Intermittent Exotropia with Convergence Insufficiency

First Author: Soo Jung **LEE**

Co-Author(s): Ji Min **KWON**, Jung Min **PARK**

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### Evaluation of the Spot Vision Screener for Vision Screening in 3-Year-Old Children in Japan

First Author: Shion **HAYASHI**

Co-Author(s): Yaoko **IINO**, Akira **INAMURA**, Issaku **SUZUKI**, Hidetoshi **YAMASHITA**

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### Clinical Characteristics of Patients with Ocular Motility Limitation Caused by Injuries

First Author: Le **LIEU**

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### Visual Outcome of Horizontal Strabismus After Occlusion Therapy and Strabismus Surgery: A Hospital-Based Study

First Author: Sidratul **NAZNIN**

Co-Author(s): Mohammad **MOSTAFA HOSSAIN**

Poster No.: EX1-153

### Crouzon Syndrome with Anterior Segment Dysgenesis: A New Syndromic Association

First Author: Isha **AGARWALLA**

Co-Author(s): Nilutparna **DEORI**, Henal **JAVERI**, Fazil **KHURRUM**, Pranjal **MISHRA**, Shahinur **TAYAB**



Poster No.: EX1-154

### Outcomes of Harada Ito Procedure for Acquired Torsional Diplopia

First Author: Almas **ABDUL AZIZ**

Co-Author(s): Sandra **CHANDRAMOULI**

Poster No.: EX1-155

### Outcome of Retinopathy of Prematurity Networking by Using Telemedicine

First Author: Prangchanok **SAWETWONG**

Co-Author(s): Phanthipha **WONGWAI**

Poster No.: EX1-156

### The Facial Twist of Goldenhar: A Rare Case Report

First Author: Meera **MOHANAKUMAR**

Co-Author(s): Mary Santhosh **JOSEPH**, Ansu **JOHN**, Uma **MAHESHWARI**, Krishnima **RAGHU**

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### Congenital Iris Stromal Cyst with Recurrence After Excision

First Author: Stephanie Suzanne **GARCIA**

Co-Author(s): Mario Jr. **AQUINO**, Dina **PERALTA**

Poster No.: EX1-158

### Visual Outcome and Surgical Outcome Following Extraocular Muscle Surgery for Nystagmus, Anomalous Head Posture, and Strabismus in Patients with Oculocutaneous Albinism

First Author: Arcot Sadagopan **KARTHIKEYAN**

Co-Author(s): Gong **HUI**, Dennis **LAM**

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### Ocular Associations and Complication of Anterior Megalophthalmos

First Author: Devesh **KUMAWAT**

Co-Author(s): Pranita **SAHAY**

Poster No.: EX1-160

### Effects of Serum Ferritin Level on Visual Functions and Ocular Manifestations Between Transfusion-Dependent Thalassemia and Nontransfusion-Dependent Thalassemia Patients in Phayao Hospital, Thailand

First Author: Tosaporn **YODMUANG**

Poster No.: EX1-161

### Long-Term Observation of Eye Complications in Fukuyama Congenital Muscular Dystrophy

First Author: Kazumi **SHINOZAKI**

Co-Author(s): Tomohiro **IIDA**, Yuriiko **MIKAMI**, Makiko **OSAWA**, Mei **SASAMOTO**

Poster No.: EX1-162

### Characteristics of Birth-Related Retinal Hemorrhages in Newborns

First Author: So Young **KIM**

Co-Author(s): Moon Sun **JUNG**, Hoon Dong **KIM**, Eungsuk **LEE**

Poster No.: EX1-163

### Findings of Universal Newborn Eye Screening Examination in South Korea

First Author: So Young **KIM**

Co-Author(s): Moon Sun **JUNG**, Hoon Dong **KIM**, Eungsuk **LEE**

Poster No.: EX1-164

### V Pattern Esotropia with Inferior Oblique Overaction: What to Do?

First Author: Yulinda **LAKSMITA**

Co-Author(s): Gusti **SUARDANA**

Poster No.: EX1-165

### Retinopathy of Prematurity Among Premature Infants in Bali and Its Association with Neonatal Factors

First Author: A.a. **CITRADEWI**

Poster No.: EX1-166

### Rubinstein-Taybi Syndrome: A Case Report

First Author: Sidratul **NAZNIN**

Poster No.: EX1-167

### Clinical Analysis and Curative Effect of Congenital Nasolacrimal Duct Obstruction in Children After Incision of Lacrimal Sac Abscess

First Author: Wen **LIU**

Co-Author(s): Chengyue **ZHANG**

Poster No.: EX1-168

### Ocular Complications of a Delayed Diagnosis of Incontinentia Pigmenti in a Female Filipino Infant: A Case Report

First Author: Kaye Lani Rea **LOCAYLOCAY**

Co-Author(s): Gary **MERCADO**

Poster No.: EX1-169

### Cataract Profiles in Congenital Rubella Syndrome with Bilateral Pigmentary Retinopathy: A Case Series

First Author: Eka **BUDININGTYAS**

Co-Author(s): Rita S **SITORUS**

Poster No.: EX1-170

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First Author: Corrina **AZARCON**

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### Histopathologic Features of Strabismus Fixus Convergens

First Author: Bonifacio **BUNO**

Co-Author(s): Alvina **SANTIAGO**

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### Risk Factors for Consecutive Exotropia and Hyperopic Changes After Bilateral Medial Rectus Recession

First Author: Hae Jung **PAIK**

## Prevention of Blindness

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### Analysis of Avoidable Blindness: Free Villages Under Hospital-Based Community Eye Health Program

First Author: Anshul **SINGH**

Co-Author(s): Harsha **BHATTACHARJEE**



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### Boom and Blast! Firecracker Eye Injuries During a Festive Season in Malaysia

First Author: Kee **RONGSHENG**

Co-Author(s): Zabri **BIN KAMARUDIN**, Jane **FOO**

Poster No.: EX1-174

### Ocular Injuries from Fireworks: The 5-Year Experience of a Tertiary Eye Care Center in India

First Author: Saurabh **DESHMUKH**

Co-Author(s): Harsha **BHATTACHARJEE**, Debajit **DEKA**, Krati **GUPTA**, Henal **JAVERI**

## Refractive Surgery

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### Refractive Outcomes, Contrast Sensitivity, HOAs, and Patient Satisfaction in Moderate Myopia: Wavefront-Optimized Versus Tissue-Saving PRK

First Author: Nader **NASSIRI**

Co-Author(s): Farinaz **MAHMOODI KHOSRAVI**, Kourosh **SHEIBANI**

Poster No.: EX1-176

### Surgical Management of Lenticular Astigmatism

First Author: Dilruwani **ARYASINGHA**

Co-Author(s): Don Saliya **PATHIRANA**

Poster No.: EX1-177

### Tetracaine-Assisted Debridement in PRK with Intraoperative Mitomycin-C

First Author: Kourosh **SHEIBANI**

Co-Author(s): Nader **NASSIRI**

Poster No.: EX1-178

### Comparing Phakic Intraocular Lenses: Hybrid Hydrophilic Acrylic vs Collamer

First Author: Karan **BHATIA**

Co-Author(s): K V Satyamurthy **KODUR**, Ruchita **MANAKTALA**, Renuka Rati **RATI**, Aniket **SHASTRI**

Poster No.: EX1-179

### Comparative Evaluation of Visual Quality, Ocular Surface, and Corneal Biomechanics with Small Incision Lenticule Extraction and Femtosecond-Laser Assisted In Situ Keratomileusis

First Author: Jeewan **TITIYAL**

Co-Author(s): Anand **BRAR**, Manpreet **KAUR**, Namrata **SHARMA**

## Retina (Medical)

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### Intraocular Sustained Release of Antibody Using a Gas-Filled Hollow Core Device

First Author: Noriaki **TAKASE**

Co-Author(s): Aki **KATO**, Soichiro **KUWAYAMA**, Yuichiro **OGURA**, Hideaki **USUI**, Tsutomu **YASUKAWA**

Poster No.: EX1-181

### Clinical Trial of Dexamethasone Intravitreal Implant and Intravitreal Bevacizumab vs Intravitreal Bevacizumab for Diabetic Macular Edema

First Author: Kuidong **KANG**

Co-Author(s): Su Ah **KIM**

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### Combined Central Retinal Vein, Central Retinal Artery, and Cilioretinal Artery Occlusion with Ischemic Macular Hole Secondary to Severe Orbital Cellulitis After Black Fly Bite

First Author: Narumon **KEOROCHANA**

Co-Author(s): Raveewan **CHOONTANOM**, Sritatath **VONGKULSIRI**

Poster No.: EX1-183

### Association Between Intravitreal Ranibizumab Therapy and Serum Cytokine Concentrations in Patients with Diabetic Macular Edema

First Author: Sanjeewa **WICKREMASINGHE**

Co-Author(s): Esther **BANDALA-SANCHEZ**, Leonid **CHURILOV**, Lyndell **LIM**, Sukhpal Singh **SANDHU**

Poster No.: EX1-184

### Sigmoid Sinus Dural Arteriovenous Fistula: The Culprit for Central Retinal Vein Occlusion and Neovascular Glaucoma. A Case Study and Review of Literature

First Author: Hayatulrizal **MUHAMMAD**

Co-Author(s): Martina Vendargon **FRANCESCA**, Gayathri **GOVINDASAMY**, Nagamuthu **PRAGALATH**

Poster No.: EX1-185

### Evaluation of the Visual Function Test of Central Serous Chorioretinopathy After Intravitreal Bevacizumab

First Author: Chunu **SHRESTHA**

Co-Author(s): Sabina **BIJUKACHHE**

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### Radiation-Induced Cystoid Macula Edema: Experience in Managing Challenging Cases

First Author: Siti Zaitihani **HAMDAN**

Co-Author(s): Hanizasurana **HASHIM**, NorAin **RAWI**

Poster No.: EX1-187

### Going Green: Treatment Outcome and Safety Profile of Chronic Central Serous Chorioretinopathy Treated with Subthreshold Green Laser

First Author: Anadi **KHATRI K C**

Poster No.: EX1-188

### Macular Star in Nonarteritic Anterior Ischemic Optic Neuropathy Mimicking Neuroretinitis Treated with Intravitreal Aflibercept

First Author: Yin-Yang **LEE**

Poster No.: EX1-189

### Uncommon Presentation of Central Serous Chorioretinopathy with Branch Retinal Vein Occlusion

First Author: Awaneesh **UPADHYAY**

Co-Author(s): Pritam **BAWANKAR**, Chintan **DESAI**, Pushkar **DHIR**, Diva **MISRA**, Ronel **SOIBAM**

Poster No.: EX1-190

### Correlation Between Total Number of Bevacizumab Intravitreal Injections and Treatment Duration with Intraocular Pressure Changes in Neovascular Age-Related Macular Degeneration Patients

First Author: Eka **SETYARINI**

Co-Author(s): Tri Wahyu **WIDAYANTI**

Poster No.: EX1-191

### Assessing Relationship Between Plasma 25-Hydroxyvitamin D Levels and Age-Related Macular Degeneration in Yogyakarta, Indonesia: Final Result

First Author: Supanji **SUPANJI**

Co-Author(s): Angela **AGNI**, Muhammad **SASONGKO**, Dian Caturini **SULISTYONINGRUM**, Firman **WARDHANA**, Tri Wahyu **WIDAYANTI**

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### Bartonella Neuroretinitis Mimicking Central Serous Chorioretinopathy

First Author: Alex **YEE**

Co-Author(s): Goh **CHON HAN**, Seng Fai **TANG**

Poster No.: EX1-219

### Effect of Intravitreal Dexamethasone Implantation in Diabetic Macular Edema Refractory to Intravitreal Anti-Vascular Endothelial Growth Factor Treatment

First Author: Sungrae **NOH**

Co-Author(s): Eung-Suk **KIM**, Kiyoungh **KIM**, Jong In **YOU**, Seung Young **YU**

## Retina (Surgical)

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### Posterior Segment Complications Following Valve Surgery in Vitrectomized Eyes

First Author: Bhuvan **CHANANA**

Co-Author(s): Sudhank **BHARTI**

Poster No.: EX1-194

### Intravitreal Gas Injection for Management of Tractional Diabetic Macular Edema with Central Foveal Cysts

First Author: Roshija **KHANAL RIJAL**

Co-Author(s): Anadi **KHATRI K C**, Deepesh **MOURYA**

Poster No.: EX1-195

### Comparison of Temporal Inverted Internal Limiting Membrane Flap Technique with Classic Inverted Internal Limiting Membrane Flap Technique in Large Macular Holes

First Author: Diva **MISRA**

Co-Author(s): Pushkar **DHIR**, Ronel **SOIBAM**, Awaneesh **UPADHYAY**

Poster No.: EX1-196

### Anatomical Closure and Visual Outcomes of Large Idiopathic Macular Holes (Diameter >1000 µm) Surgery Following Inverted Internal Limiting Membrane Flap Technique with Short-Term Follow-Up

First Author: Kiran **SHAKYA**

Poster No.: EX1-197

### Preretinal Glial Membrane with Rock Activation After Internal Limiting Membrane Peeling

First Author: Hideaki **USUI**

Co-Author(s): Aki **KATO**, Yuichiro **OGURA**, Hideyuki **SHIMIZU**, Hiroko **TERASAKI**, Tsutomu **YASUKAWA**

Poster No.: EX1-198

### Treatment of Large Macular Holes Using a Multilayered Inverted Internal Limiting Membrane Flap Technique

First Author: Jung Min **PARK**

Co-Author(s): Soo-Jung **LEE**, Song **DONG HUN**

Poster No.: EX1-199

### Improved 27-Gauge Flow Performance of Dual-Pneumatic 10,000 cpm Cutters

First Author: Ishaq **MOHAMEDY**

Co-Author(s): Dina Joy **ABULON**, Helaine **GARIEPY**

Poster No.: EX1-200

### Influence of Macular Condition on the Outcome After Vitrectomy for Diabetic Macular Edema

First Author: Atsuhide **TAKESUE**

Co-Author(s): Toshiyuki **YOKOTAMA**

Poster No.: EX1-201

### Vitreoretinal Intervention for Submacular Hemorrhage: Experience at Department of Ophthalmology, Hospital Selayang

First Author: Seng Hong **YEOH**

Co-Author(s): Norlelawati **ZAINOL**

Poster No.: EX1-202

### Postoperative Endophthalmitis: Intravitreal Antibiotics vs Early Vitrectomy

First Author: Vinod **SINGH**

Co-Author(s): Basant **KUMAR SINGH**, Arun **SINGH**, Satya **SINGH**

Poster No.: EX1-203

### Efficacy of Pars Plana Vitrectomy with Conventional Internal Limiting Membrane for Large Macular Hole

First Author: Sukita **JUMPAWONG**

Co-Author(s): Tanapat **RATANAPAKORN**, Supat **SINAWAT**, Suthasinee **SINAWAT**, Yosanan **YOSPAIBOON**

Poster No.: EX1-204

### Effectiveness of Prophylactic 360° Laser Retinopexy in Complicated Rhegmatogenous Retinal Detachment

First Author: Putthigorn **PROMMAJAREE**

Co-Author(s): Chavakij **BHOOMIBUNCHOO**, Supat **SINAWAT**, Thuss **SANGUANSAK**, Suthasinee **SINAWAT**, Yosanan **YOSPAIBOON**

Poster No.: EX1-205

### Comparison of Surgical Performance of Internal Limiting Membrane Peeling Using 3D Visualization System with Conventional Microscope

First Author: Naresh **KANNAN**

Co-Author(s): Piyush **KOHLI**, Obuli **N**

Poster No.: EX1-206

### Unraveling the Macular Mysteries Using Intraoperative Optical Coherence Tomography

First Author: Srinivas **JOSHI**

Co-Author(s): Guruprasad **AYACHIT**, Apoorva **AYACHIT**, Amit **RAJAN**, Pavan **SHROFF**

Poster No.: EX1-207

### Scleral Buckle Implant Mimicking Orbital Tumor in a Patient Post-Retinal Detachment Surgery

First Author: Lee Jerome Iii **BRIONES**, Mark Anthony T **IMPERIAL**

Poster No.: EX1-208

### Eight-Year Review of Culture-Proven Cases of Endophthalmitis at a Sydney Tertiary Hospital

First Author: Adrian **FUNG**

Co-Author(s): Samantha **BOBBA**, Jay **CHANDRA**, Jane **FOO**, Christopher **GO**

Poster No.: EX1-220

### Endophthalmitis After Pars Plana Vitrectomy in a Thai Population: A 13-Year Retrospective Study

First Author: Sukhum **SILPA-ARCHA**

Co-Author(s): Kwanchanoke **KUMSIANG**

## Translational Research in Ophthalmology

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### Application of TeraHertz Scanning System as a Quantitative Tool in the Evaluation of Corneal Edema

First Author: Yu-Chi **LIU**

Co-Author(s): Lin **KE**, Jodhbir **MEHTA**, Ercia **TEO**

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### Improved Arterial Stiffness After Sleep Apnea Treatment Depended on Ocular Microcirculation Shown by Laser Speckle Flowgraphy

First Author: Mao **TAKAHASHI**

Co-Author(s): Tomoaki **SHIBA**

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### Pumping Function of Corneal Endothelial Cells can be Enhanced by Novel Ca<sup>2+</sup>/Nucleotide Nanocomplex by Increasing the Activity of Na<sup>+</sup>/K<sup>+</sup> Dependent ATPase

First Author: Kuidong **KANG**

Co-Author(s): Su Ah **KIM**, Byung-Su **LIM**

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### Flavonoid, Anthocyanin Oligomer is Effective at Blunting the Negative Influence of Ischemia/Reperfusion to the Rat Retina In Situ

First Author: Su Ah **KIM**

Co-Author(s): Kuidong **KANG**

Poster No.: EX1-213

### Usability and Safety of Innovative Eye Shield Devices for Gas-Filled Eyes

First Author: Sopit **PRAIWATTANA**

Co-Author(s): Pear **PONGSACHAREONNONT**, Chusak **THANAWATTANO**, Adisai **VARADISAI**

## Visual Sciences

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### Change of Neutralizing Antibodies Against AAV After AAV Intravitreal Injection in Cynomolgus Monkeys

First Author: Kazuhiro **TAKAO**

Co-Author(s): Tsutomu **IGARASHI**, Maika **KOBAYASHI**, Takashi **OKADA**, H **TAKAHASHI**, Kazuhisa **TAKAHASHI**

Poster No.: EX1-215

### Glucose Exposure Affects Expression of Brain Aromatase and Retina Regeneration

First Author: Zulvikar **ULHAQ**

Poster No.: EX1-216

### Factors Associated with Poor Eye Drop Administration Technique and the Role of Patient Education Among a Local Elderly Population

First Author: Bonnie Nga Kwan **CHOY**

Co-Author(s): Joseph **KWAN**, Jimmy **LAI**, Chun Sum **PANG**, Mingming **ZHU**

# E-POSTERS

## Academia, Research, Teaching and Education in Ophthalmology

### Accuracy Evaluation of Diabetic Retinopathy Grading by Final-Year Medical Students

First Author: Saksakul **ENGCHUAN**

Co-Author(s): Charaspong **UBOLSING**

### Cultural Competence as a Driver of Good Quality Care

First Author: Noela **PRASAD**

### Development of a Retinal Vascular Occlusion Model in Mice and Analysis of the Pathophysiological Roles of Adrenomedullin

First Author: Kazutaka **HIRABAYASHI**

Co-Author(s): Akira **IMAI**, Toshinori **MURATA**, Takayuki **SHINDO**, Masaaki **TANAKA**

### Intraocular Oxidative Stress and Accumulation of Advanced Glycation End Products in Diabetic Eyes

First Author: Yuichi **TORIYAMA**

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### Retinal Detachment Due to Paravascular Abnormality-Associated Breaks in Highly Myopic Eyes

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### Retropulsion and Mass Flow of 27-Gauge Vitrectomy Probes: Comparison of Dual-Blade/Flat-Tipped Probes and Single-Blade/Beveled Probes

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### Intravitreal Injection of Hydrogen Peroxide Induces Acute Retinal Degeneration, Apoptosis, and Oxidative Stress in Mice

First Author: Haoyu **CHEN**

Co-Author(s): Bing **HUANG**, Jiajian **LIANG**, Tsz-Kin **NG**, Xin **ZHONG**

### Laser Spectroscopic Study on Getting Best Results with Trypan Blue Dye Staining of Anterior Lens Capsule

First Author: Minu **MATHEN**

### PEDF Protects Human Retinal Pigment Epithelial Cells Against Oxidative Stress by Upregulating Expression of UCP2

First Author: Xia **WANG**

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### Antimicrobial Effect of Silicone Oil on Bacterial and Fungal Pathogens: A Prospective In Vitro Study

First Author: Vivek **DAVE**

Co-Author(s): Joveeta **JOSEPH**

### Carbon Emission in Eye Care Delivery

First Author: Bulbul **ISLAM**

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### Effects of Blue Light Filtration on Light-Induced Retinal Damage in Rats

First Author: Fumihito **HIKAGE**

Co-Author(s): Haruka **IDA**, Yosuke **IDA**, Yayoi **MARUMO**, Hiroshi **OHGURO**

### Evaluation of the Psychometric Properties Between the Thai Version of the Low Vision Quality of Life Questionnaire and the World Health Organization Quality of Life Questionnaire

First Author: Penpimol **YINGYONG**

### Hydrogen Promotes M2 Macrophage Polarization Through Activation of Cu, Zn Superoxide Dismutase Enzyme

First Author: Yutaro **TOBITA**

Co-Author(s): Takeshi **ARIMA**, Tsutomu **IGARASHI**, H **TAKAHASHI**, Masaaki **UCHIYAMA**

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First Author: Li Jia **CHEN**

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### Induction of Autophagy After Ethanol Exposure Through the Inhibition of Caspase-2

First Author: Chun-Chen **CHEN**

### The Effectiveness of Eye-Hand Coordination on Quality of Life Among Children with Visual Impairment: Experiences at the Mettapracharak (Wattraikhing) Low Vision Rehabilitation Center

First Author: Penpimol **YINGYONG**

### The Relationship Between Presbyopia and Near Stereoacuity in Refractive Errors

First Author: Olly **CONGGA**

# VIDEOS

## Academia, Research, Teaching and Education in Ophthalmology

### Battle Royale Glaucoma! Angle Surgery Training Models for Segmental and Circumferential MIGS

First Author: Malcolm **GOOI**

Co-Author(s): Helen **CHUNG**, Patrick **GOOI**, Danielle **WENTZELL**

### Making and Evaluating Regional Language Translator Apps for Ophthalmologists

First Author: John **AKKARA**

Co-Author(s): Davis **AKKARA**, Devika **BHATTACHARYA**, Ethamma **DAVIS**, Anju **KURIAKOSE**

### Simulation of Yamane Technique of Intraocular Lens Fixation and Variations

First Author: Patrick **GOOI**

Co-Author(s): Helen **CHUNG**, Kevin **WARRIAN**, Danielle **WENTZELL**

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### 4-Point Fixation of Scleral Sutured Foldable Intraocular Lens Using Hoffman Pocket

First Author: Puspha **RAMAN**

### Anterior Segment Reconstruction After Complicated Small Incision Cataract Surgery

First Author: Maneesh **BAPAYE**

### Coring to Conquer Posterior Polar Cataract

First Author: Minu **MATHEN**

### Excellent Visual Outcome After Manual Small Incision Cataract Surgery for Phacolytic Glaucoma

First Author: Shams **NOMAN**

### Intraocular Lens Implantation: Complexity in Simplicity

First Author: Lakshmi **SREEDHARAMURTHY**

Co-Author(s): Deepti **JOSHI**, Krishnaprasad **R**

### Misty Phacoemulsification

First Author: Namrata **SHARMA**

### Modification of Technique for Performing Manual Small Incision Cataract Surgery by Left-Handed Surgeons: It's Different

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Co-Author(s): Amrita **MUKHERJEE**, Jaideep **POPLI**, Rohit **RAO**

### Needle-Assisted Haptic Externalization and Sutureless Transconjunctival Fixation of AcrySof Multi-piece Lens

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First Author: Charudutt **KALAMKAR**

Co-Author(s): Amrita **MUKHERJEE**, Rohit **RAO**

### Posterior Capsular Rent: Pearls of Early Diagnosis and Systematic Management for Trainees

First Author: Amrita **MUKHERJEE**

Co-Author(s): Jaideep **POPLI**, Rohit **RAO**, Charudutt **KALAMKAR**

### Posterior Polar Cataract: The Bugbear

First Author: Mohan **RAJAN**

Co-Author(s): Sujatha **MOHAN**

### Pupilloplasty for Traumatic Mydriasis

First Author: Michelle **FAN**

Co-Author(s): Lawrence **IU**

### Small Eye, Big Problems

First Author: Nivean **MADHIVANAN**

Co-Author(s): Sridhar **BARATAN**, Siva Mohan **HALAHARVI**, Nishanth **M**, Pratheeba Devi **NIVEAN**, Abhiyan Kumar **PATNAYAK**

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First Author: Mukesh **PARYANI**

### Soft Cataract: How to Emulsify Safely?

First Author: Amarendra **DEKA**

Co-Author(s): Lobsang **T**

### T Soft: New Technique for Soft Cataract

First Author: Rajendra **PRASAD**

### Unclip, Tuck, and Stitch: Bring It All Together

First Author: Nivean **MADHIVANAN**

Co-Author(s): Siva Mohan **HALAHARVI**, Manoj **KHATRI**, Pratheeba Devi **NIVEAN**, Abhiyan Kumar **PATNAYAK**, Mohan **RAJAN**

### Use of Temporary Safety Suture During Intrasceral Fixation of Intraocular Lens for Beginners

First Author: Tommy **CHAN**

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First Author: Bhupesh **SINGH**

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First Author: Piyush **BAJAJ**

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First Author: Piyush **BAJAJ**

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First Author: Bhaskar **SRINIVASAN**

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### Large Conjunctival Cyst Excision

First Author: Jianhao **CAI**

### Nature and Nurture

First Author: Pooja **KHAMAR**

Co-Author(s): Arkasubhra **GHOSH**, Swaminathan **SETHU**, Rohit **SHETTY**

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First Author: Lionel **DANIEL RAJ PONNIAH**

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First Author: Julia **WIENS**

Co-Author(s): Helen **CHUNG**, Patrick **GOOI**, Danielle **WENTZELL**

### Ahmed Valve Implantation for Beginners

First Author: Pankaj **BENDALE**

### Family Screening: An Effective Way to Combat Glaucoma Blindness

First Author: Pavan **KUMAR**

Co-Author(s): Srinivasan **KAVITHA**, Rengaraj **VENKATESH**

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First Author: Malcolm **GOOI**

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First Author: Danielle **WENTZELL**

Co-Author(s): Gabriela **CAMPOS-BANIAK**, Helen **CHUNG**, Patrick **GOOI**

### Hemi-GATT Techniques: Walk the Dog and Ripcord

First Author: Patrick **GOOI**

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### Just Beneath the Surface: Subconjunctival Anesthesia for Transscleral Cyclophotocoagulation

First Author: Kevin **WARRIAN**

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### Long-Term Outcomes of Ex-Press Glaucoma Filtration Device Implant in Glaucoma Patients

First Author: Swyambhu **GHOSH**

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### Outcomes of Trabeculectomy with Ologen Implant vs Trabeculectomy with Mitomycin C

First Author: Pankaj **BENDALE**

### Phacomorphic Glaucoma After Therapeutic Penetrating Keratoplasty: Management Challenges

First Author: Pawan **PRASHER**

### Smartphone Slitlamp Photography and Videography in Glaucoma: Gonioscopy, Fundus by 90D, and Slit Lamp Imaging

First Author: John **AKKARA**

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### Technique of Innfocus Microshunt (Glaucoma Drainage Device)

First Author: Suria **SUDHAKARAN**

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First Author: Hamid **SAJJADI**

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### Common Misdiagnoses of Polypoidal Choroidal Vasculopathy and Their Distinguishing Imaging Features

First Author: Colin **TAN**

Co-Author(s): Isaac **CHAY**, Li **KELVIN**, Tock-Han **LIM**, Louis **LIM**, Wei Kiong **NGO**



## Ocular Oncology & Pathology

Managing Cases of Aggressive Periocular Basal Cell Carcinoma Complicated by Larvae of Human Botfly: A Video Presentation

First Author: Virendra P **SINGH**

Co-Author(s): Jayanta **DAS**, Syeed **KADIR**, Rajendra **MAURYA**, Mahendra Kumar Singh **SINGH**

Ocular Surface Squamous Neoplasia Management Options: Not "One Size Fits All"

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## Orbital and Oculoplastic Surgery

An Eye Opener: Marcus Gunn Jaw Winking Ptosis

First Author: Akshay **NAIR**

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Evisceration Techniques: From Known Skills to Emerging Caveats

First Author: Tarjani **DAVE**

LeFort II/III and Orbital Floor Fracture Management: A Success Story

First Author: Joshua **LUMBANTOBING**

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Orbital Decompression for Thyroid Eye Disease

First Author: Tarjani **DAVE**

Outcome of Transcanalicular Laser DCR

First Author: Syeed **KADIR**

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Powered Endoscopic Dacrycystorhinostomy: Raising the Bar

First Author: Roopa **HIEMATH**

Pretarsal Orbicularis Oculi Muscle Tightening Plus Skin Flap Excision in the Treatment of Lower Eyelid Involuntary Entropion

First Author: Jianhao **CAI**

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First Author: King **KURNIA**

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## Pediatric Ophthalmology & Strabismus

Pseudoconvergence Refraction Nystagmus in Congenital Fibrosis of the Extraocular Muscles Type 1

First Author: Fong Yee **FOO**

Surgical Approach and Principles for Pediatric Cataract with Persistent Hyperplastic Primary Vitreous

First Author: Nilutparna **DEORI**

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## Refractive Surgery

Biomarkers of Happiness

First Author: Nimrata **DHAMI**

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Management of Difficult Lenticule Extraction in Learning SMILE

First Author: Jeewan **TITIYAL**

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Mathematics and the Eye: The Real Future

First Author: Zeldia **DADACHANJI**

Co-Author(s): Mathew **FRANCIS**, Abhijit **SINHA ROY**, Neeraj **ISRANI**, Rohit **SHETTY**

## Retina (Medical)

Chorioretinitis Sclopetaria: A Case Series

First Author: Ramya **APPANRAJ**

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Retinopathy of Prematurity: Quick Guide

First Author: Pushkar **DHIR**

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Sham Injection: Fake It the Best Way

First Author: Tarun **GUPTA**

Co-Author(s): Piyush **BAJAJ**, Pushkar **DHIR**, Parikshit **DHIR**, Ekta **GARG**, Ruchika **GARG**

## Retina (Surgical)

Two Faces of the Internal Limiting Membrane: The Culpit and the Unsung Hero

First Author: Srinivas **JOSHI**

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### 23 G PPV for Funnel Retinal Detachment and Marked PVR

First Author: Kashif **IQBAL**

### 23 G Vitrectomy for Removal of Subretinal Metallic Intraocular Foreign Body

First Author: Hussain **KHAQAN**

### Adapting Yamane Double Needle Flanged IOL Fixation (Sutureless and Glueless)

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Co-Author(s): Siva Mohan **HALAHARVI**, Nivean **MADHIVANAN**, Abhiyan Kumar **PATNAYAK**

### Combined RD with Posterior Closed Funnel Type and a Hidden Giant Retinal Tear in PDR

First Author: Venkatesh **KADRI**

### Complex Diabetic Vitrectomy: Tips and Tricks

First Author: Vishal **GOVINDHARI**

Co-Author(s): Jay **CHHABLANI**, Sumit **SINGH**

### Conquest of the Choroidals

First Author: Aditya **KELKAR**

Co-Author(s): Jai **KELKAR**, Pankaj **BENDALE**, Swyambhu **GHOSH**

### Internal Tamponade Combining Light and Heavy Silicone Oil for Complicated Rhegmatogenous Retinal Detachment

First Author: Huma **SAIGOL**

### Inverted Internal Limiting Membrane Flap Technique for the Treatment of Large Idiopathic Macular Hole

First Author: Saurabh **DESHMUKH**

Co-Author(s): Pushkar **DHIR**, Krati **GUPTA**, Surpriya **HAWAIBAM**, Diva **MISRA**, Ronel **SOIBAM**

### Management of Giant Retinal Tear with Submacular Hemorrhage: A Novel Technique

First Author: Bhuvan **CHANANA**

### Managing Vitreoretinal Interface in Diabetic Vitrectomy

First Author: Bhuvan **CHANANA**

### Novel and Easy Techniques for 27-Gauge Silicone Oil Infusion and Removal

First Author: Zhaotian **ZHANG**

Co-Author(s): Shaochong **ZHANG**

### Reoperation for Failed Giant Retinal Tear Surgery

First Author: Li **WANG**

Co-Author(s): Shaochong **ZHANG**, Zhaotian **ZHANG**

### Repositioning of Inadvertent Intralenticular Ozurdex: A Vitreoretinal Approach

First Author: Naresh **KANNAN**

Co-Author(s): Piyush **KOHLI**, Roshni **MOHAN**, Madhu **SEKHAR**

### Traumatic Cataract, Intraocular Foreign Body Removal with Intraocular Lens Implantation in 1 Go

First Author: Huma **SAIGOL**

## Translational Research in Ophthalmology

### Many Moods of Ectasia

First Author: Anjana **KARUNAKARAN**

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# APAO

## Leadership Development Program



The APAO Leadership Development Program (LDP) has been conducted annually since 2009. Through training sessions, master classes and independent projects, the LDP aims to provide systematic orientation and professional development skills for future leaders in ophthalmology in the Asia-Pacific region.

### Program Elements

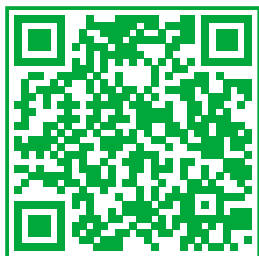
- Induction and Orientation
- Self-Initiated Project
- Mid-term Master Class
- Graduation

### Eligibility Criteria

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- A qualified eye doctor
- Highly proficient in English
- Preferably under the age of 50

## Application

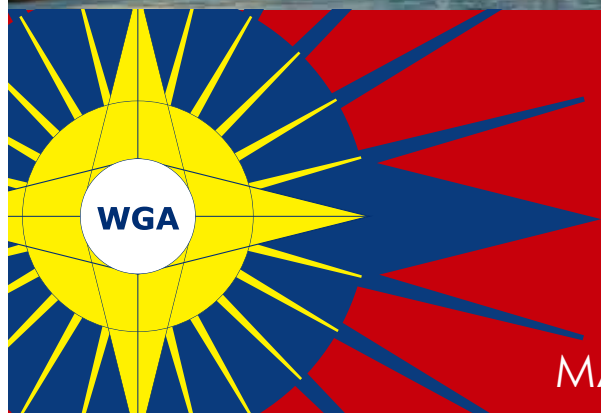
Application for the APAO LDP will be opened at the end of each year. Ophthalmologists interested in the Program should submit their applications to their respective [APAO member societies](#) for consideration. Individual applications will not be accepted. For up-to-date information, please stay connected via Facebook/Twitter/Wechat.



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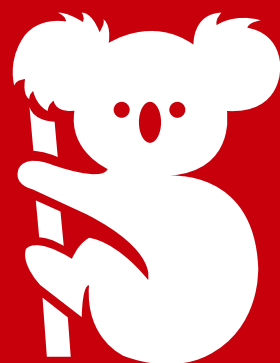


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A	<b>Abu ABRAHAM</b> Santen Inc; E	H	<b>Alimera, Valeant, Santen, Iconic Therapeutics, Allegro Ophthalmics, Eyegate Pharma, DRCR NET, Clearside Biomedical, Boehringer Ingelheim, Teijin, Opternative, Insite Vision Inc; F Genentech, Regeneron, Thrombogenics, Inc, Alcon/Novartis, Allergan, Alimera, Valeant, Bayer, Bausch and Lomb, Panoptica, Santen, Topcon, Beaver-Visitec International Inc, Abbvie; C</b>	L	<b>Bayer Pharmaceutical Co; F Senju Pharmaceutical Co; F Masato KOBAYASHI</b> Bayer Yakuhin, Ltd; E	P	<b>Allergan; R Aaron OSBORNE</b> Genentech; E, I	R	<b>Hitoshi TABUCHI</b> J&J Vision / Senju, Alcon, Kowa, Santen; R Tapcon; C
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	<b>Makoto AIHARA</b> Santen Pharmaceutical Co Ltd; F, R				<b>Florian KRETZ</b> Carl Zeiss Meditec; C, R		<b>Ki Ho PARK</b> PH Pharma; C, F		<b>Sonalee TAMBAT</b> Alcon Research, Ltd; E
	<b>Marcus ANG</b> Nidek; C Zeiss; C				<b>Glaukos; C, R LensAR; C, R Oculentis; C, R PhysiOL; C Polytech; C, R</b>		<b>Sang-Woo PARK</b> PH Pharma; F		<b>Anna TAN</b> Bayer; R Nidek; R Zeiss; R
	<b>Robert ANG</b> Glaukos; F, R Ivantis; F, R						<b>Direk PATIKULSILA</b> Bayer; R		<b>Colin TAN</b> Bayer; R
B	<b>Robert Edward Ty ANG</b> Ace Vision Group Inc; C	I	<b>Brad HALL</b> Ace Vision Group Inc; C	M	<b>Timothy LAI</b> Allergan; C	R	<b>Melke PAULY-EVERS</b> F. Hoffmann-La Roche Ltd; E	U	<b>Heidelberg Engineering; R Novartis; R</b>
	<b>Raymund ANGELES</b> Santen; E		<b>Sameena HAQUE</b> Allergan plc; E		<b>Wolfgang LEMKE</b> Boehringer Ingelheim; C		<b>Shamira PERERA</b> Alcon Novartis; C		<b>Donald TAN</b> Donald Tan Tiang Hwee; P
			<b>Tomoaki HIGASHIYAMA</b> Alcon Japan; F		<b>Novartis; C, F Roche; C, F</b>		<b>Antonía RIDOLFI</b> Novartis; E		<b>Yasuhiro TERANO</b> Bayer Yakuhin, Ltd; E
			<b>Annmarie HIPSEY</b> Ace Vision Group Inc; E		<b>Sergio LEAL</b> Bayer; E		<b>Shamira PERERA</b> Alcon Novartis; C		<b>Daniel TING</b> Automated Retinal Image Analysis Software for Referable Diabetic Retinopathy, Glaucoma Suspect and Age-Related Macular Degeneration; P
			<b>Takao HIRANO</b> Bayer; F		<b>Wolfgang LEMKE</b> Boehringer Ingelheim; C		<b>Shamira PERERA</b> Alcon Novartis; C		<b>Fotis TOPOUZIS</b> Alcon, Bayer, Allergan, Pfizer, Thea; C
C	<b>Karen BASU</b> Genentech; E, I		<b>Detlef HOLLAND</b> LensAR; C	N	<b>Lyndell LIM</b> Allergan; R	S	<b>Osamu SAWADA</b> Alcon Japan; F	V	<b>Joseph VEHIGE</b> Allergan plc; P
	<b>Juan BATLLE</b> Camras, Inc; C		<b>Frank HOLZ</b> Alcon and Allergan; C		<b>Tock-Han LIM</b> Heidelberg Engineering; R		<b>Osamu SAWADA</b> Alcon Japan; F		<b>Harvey UY</b> Santen; F
	<b>Pankaj BENDALE</b> National Institute of Ophthalmology, Pune India; P		<b>Yi-Ting HSIEH</b> Acer; F		<b>Anat LOEWENSTEIN</b> Allergan; C, R		<b>Osamu SAWADA</b> Alcon Japan; F		<b>Joseph VEHIGE</b> Allergan plc; P
	<b>Neil BRESSLER</b> Bayer; F		<b>Douglas HUBATSCH</b> Novartis; E		<b>N S LOGAN</b> Cooper Vision; C		<b>Osamu SAWADA</b> Alcon Japan; F		<b>Robert WEIKERT</b> F. Hoffmann-La Roche Ltd; E
	<b>Detlef BREYER</b> Alcon; C		<b>Philip HYKIN</b> Alcon; F, R		<b>Fenghe LU</b> Santen Inc; E		<b>Osamu SAWADA</b> Alcon Japan; F		<b>Sanjeeva WICKREMASINGHE</b> Allergan; R
D	<b>Carl Zeiss Meditec; C, R Carl Zeiss Meditec; C J &amp; J; C</b>	O	<b>Matias IGLICKI</b> Allergan; R		<b>David LUBECK</b> Ellex; C	T	<b>Eric SOUJED</b> Allergan; C	Y	<b>Sebastian WOLF</b> Allergan; F
	<b>Johnson &amp; Johnson; C LensAR; C</b>		<b>Tomohiro IIDA</b> Alcon Pharma; C		<b>Sirin LUEANGARAM</b> Government Budget; F		<b>Eric SOUJED</b> Allergan; C		<b>Kwanjai WONGKITTIRUX</b> Government budget; F
	<b>Topcon; C</b>		<b>Masaru INATANI</b> Bayer; R				<b>Eric SOUJED</b> Allergan; C		<b>Hidetoshi YAMASHITA</b> Senju; P
	<b>Catharina BUSCH</b> Allergan; R		<b>Alessandro INVERNIZZI</b> Allergan; R		<b>Ishaq MOHAMEDY</b> Alcon; F		<b>Eric SOUJED</b> Allergan; C		<b>Chang-Hao YANG</b> Acer; F
			<b>Abolfazi IRANNEJAD</b> Alcon Research, Ltd; E				<b>Eric SOUJED</b> Allergan; C		<b>Chung-May YANG</b> Acer; F
E	<b>Cindy CARLISLE-WILCOX</b> Allergan plc; E	P	<b>Tatsuro ISHIBASHI</b> Alcon Pharma; C	Q	<b>Wei Loon NG</b> Sensimed; I	U	<b>Eric SOUJED</b> Allergan; C	Z	<b>Graeme YOUNG</b> Cooper Vision; E
	<b>Voraporn CHAIKITMONGKOL</b> Allergan; R		<b>Tomohiro IIDA</b> Alcon Pharma; C		<b>Cheryl NGO</b> Cooper Vision; R		<b>Eric SOUJED</b> Allergan; C		<b>Seung Young YU</b> Bayer; F
	<b>Paul CHAMBERLAIN</b> Cooper Vision; E		<b>Masaru INATANI</b> Bayer; R		<b>Marcelo NICOLELA</b> Allergan, Novartis/Alcon; C		<b>Eric SOUJED</b> Allergan; C		<b>Novartis; F</b>
	<b>David CHANG</b> Carl Zeiss; R		<b>Susumu ISHIDA</b> Bayer Yakuhin, Ltd; F		<b>Kousuke NODA</b> Cooper Vision; F		<b>Eric SOUJED</b> Allergan; C		
	<b>Eyenovia; I lantech; C iDrops; I</b>		<b>Yuji IWAMOTO</b> Bayer Yakuhin; E		<b>Novartis; C Roche; C</b>		<b>Eric SOUJED</b> Allergan; C		
F	<b>Shih-Jen CHEN</b> Allergo; C	R	<b>Akihiro IWATA</b> Santen Pharmaceutical Co Ltd; E	S	<b>Noriko ODANI-KAWABATA</b> Santen Pharmaceutical Co Ltd; E	V	<b>Eric SOUJED</b> Allergan; C	Z	
	<b>Bayer; C</b>				<b>Yulchiro OGURA</b> Alcon Pharma and Alcon Japan; C		<b>Eric SOUJED</b> Allergan; C		
	<b>Medimaging Integration Solution; C Novartis; C</b>				<b>Bayer; C</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Roche; C</b>				<b>Graybug; C</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Gemmy CHEUNG</b> Allergan and Boehringer-Ingelheim; C				<b>Hoya and Kowa; C</b>		<b>Eric SOUJED</b> Allergan; C		
G	<b>Bayer; C</b>	T		V	<b>Masahito OHJI</b> Alcon Japan; F	W	<b>Eric SOUJED</b> Allergan; C	Z	
	<b>Novartis; C</b>				<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Roche; C</b>				<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Roche, Novartis, Bayer, Boehringer Ingelheim, Allergan, Topcon, Samsung; C, F</b>				<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Janejit CHOOVUTHAYAKORN</b> Bayer; R				<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
H	<b>Kb FREUND</b> Heidelberg; C	U		X	<b>Noriko ODANI-KAWABATA</b> Santen Pharmaceutical Co Ltd; E	Y	<b>Eric SOUJED</b> Allergan; C	Z	
	<b>Optovue; C</b>				<b>Yulchiro OGURA</b> Alcon Pharma and Alcon Japan; C		<b>Eric SOUJED</b> Allergan; C		
	<b>Zeiss; C</b>				<b>Bayer; C</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Adrian FUNG</b> Allergan; C, R				<b>Graybug; C</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Bayer; C</b>				<b>Hoya and Kowa; C</b>		<b>Eric SOUJED</b> Allergan; C		
I	<b>Helaine GARIEPY</b> Alcon; F	V		Z	<b>Masahito OHJI</b> Alcon Japan; F	W	<b>Eric SOUJED</b> Allergan; C	Z	
	<b>Matthias GERL</b> Carl Zeiss Meditec; R				<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
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	<b>Oculentis; R</b>				<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
J	<b>PhysiOL; R</b>	W		X	<b>Noriko ODANI-KAWABATA</b> Santen Pharmaceutical Co Ltd; E	Y	<b>Eric SOUJED</b> Allergan; C	Z	
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	<b>Ivan GOLDBERG</b> Novartis, Allergan, Mundipharma; C				<b>Bayer; C</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Novartis, Allergan, Mundipharma, Pfizer; R</b>				<b>Graybug; C</b>		<b>Eric SOUJED</b> Allergan; C		
	<b>Victor GONZALEZ</b> Alimera, Panoptica; I				<b>Hoya and Kowa; C</b>		<b>Eric SOUJED</b> Allergan; C		
K	<b>Genentech, Regeneron, Thrombogenics Inc, Alcon/Novartis, Allergan,</b>	X		Z	<b>Masahito OHJI</b> Alcon Japan; F	Y	<b>Eric SOUJED</b> Allergan; C	Z	
					<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
					<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
					<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		
					<b>Alcon Japan, Otsuka Pharmaceutical Company; R</b>		<b>Eric SOUJED</b> Allergan; C		



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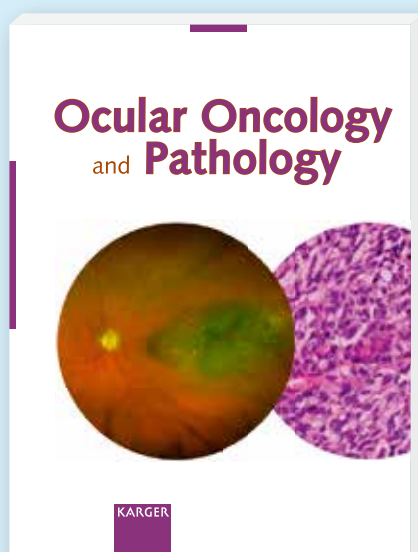


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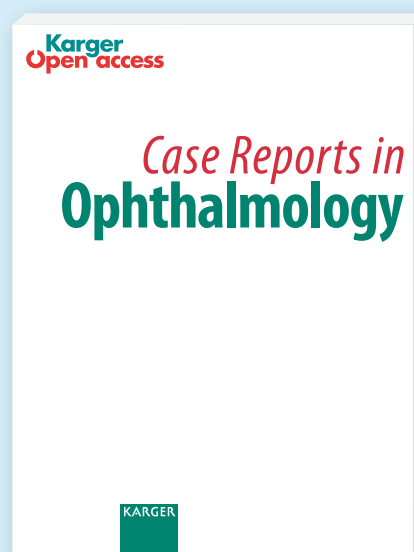
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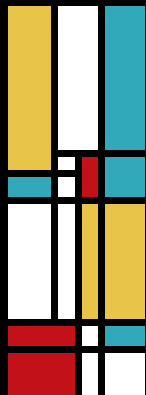
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