Creativity and Technology without Boundaries

APAO 2018
Hong Kong
Feb 8-11•2018

The 33rd Asia-Pacific Academy of Ophthalmology (APAO) Congress

held in conjunction with

The 29th Hong Kong Ophthalmological Symposium

FINAL PROGRAM
For the first time at APAO 2018, 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 (No. 1 - 330) at APAO 2018 is shown below. Be sure to use all your stickers before voting ends!

<table>
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<th>Date</th>
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<tr>
<td>Voting begins</td>
<td>February 8 09:00</td>
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<tr>
<td>Voting ends</td>
<td>February 10 12:00</td>
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**APAO 2018 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!


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 2018 e-posters and videos ends at 12:00 pm on Saturday, February 10, 2018. Be sure to vote before the online system closes!
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Dear Friends and Colleagues,

It is our immense pleasure to welcome you to the 33rd Asia-Pacific Academy of Ophthalmology (APAO) Congress, held in conjunction with the 29th Hong Kong Ophthalmological Symposium and co-hosted by the Hong Kong Ophthalmological Society and the College of Ophthalmologists of Hong Kong, at the Hong Kong Convention and Exhibition Centre, from February 8 – 11, 2018.

We are much honored that Hong Kong has once again been chosen to host the prestigious APAO annual congress, which has now become the premier ophthalmic professional and scientific event. Prof Dennis Lam is leading the star-studded Scientific Program Committee to invite over 600 leading experts from around the world, with an emphasis on the latest cutting-edge scientific innovations, treatments, surgical techniques, and technologies. Our scientific program will be the best showcase for the theme of our APAO 2018 Congress—“Creativity and Technology without Boundaries”—with the clear objective of preparing today’s ophthalmic practitioners for the ever-evolving future of eye care.

Hong Kong is a hugely dynamic city with a unique blend of Eastern and Western cultures. Her panoramic range of tourist attractions caters for all types of visitors and interests. Additionally, the annual Lunar New Year preparations will be in full swing during the congress, including enchanting decorations, vibrant floral arrangements, and much, much more!

We look forward to welcoming you to Hong Kong, Asia’s World City, in February 2018!

Warmest personal regards,

Clement THAM
Congress President, APAO 2018 Congress
Secretary-General & CEO, Asia-Pacific Academy of Ophthalmology
Dear Friends and Colleagues,

On behalf of the Asia-Pacific Academy of Ophthalmology (APAO) and the Scientific Program Committee, it is my honor and pleasure to welcome you to the 2018 APAO Congress in Hong Kong, co-hosted by the Hong Kong Ophthalmological Society and the College of Ophthalmologists of Hong Kong.

With an anticipated number of over 600 leading experts from around the world speaking on all areas of ophthalmology and visual sciences, the APAO 2018 Congress provides an excellent showcase for world-renowned ophthalmic professionals to share their expertise and experience with clinicians, ophthalmic specialists, eye surgeons, and researchers from the Asia-Pacific region and globally.

The Congress venue, Hong Kong Convention and Exhibition Centre, is located in the heart of the Central Business District. Hong Kong is a cosmopolitan and vibrant city with a unique multicultural heritage to discover, along with a wide range of tourist attractions and delicious gourmet offerings that make visiting this Pearl of the Orient worthwhile.

I wish you all a wonderful stay in Hong Kong and I look forward to seeing you in February 2018!

With best regards,

Dennis LAM
Chair, APAO 2018 Scientific Program Committee
Dear Friends and Colleagues,

It is my honour and pleasure to welcome you to the 2018 Congress of the Asia-Pacific Academy of Ophthalmology in Hong Kong, co-hosted by the Hong Kong Ophthalmological Society and the College of Ophthalmologists of Hong Kong.

This year, the APAO Congress will be held in conjunction with the 29th Hong Kong Ophthalmological Symposium. Bringing together ophthalmologists from around the world, APAO 2018 will feature more than 600 internationally recognized speakers presenting their latest work and scientific innovations in the major ophthalmic subspecialties. An attendance figure of around 5,000 delegates is anticipated.

The APAO Congress also provides delegates with an excellent occasion to network and look for collaborative opportunities. Additionally, Congress attendees can enjoy beautiful and historic attractions, along with delicious cuisine and unlimited shopping experiences, in the dynamic city of Hong Kong.

We very much look forward to seeing you in Hong Kong during the 33rd APAO Congress. It is an event not to be missed!

With very best regards,

Charles MCGHEE
President, Asia-Pacific Academy of Ophthalmology
Dear Friends and Colleagues,

We are delighted to serve as your hosts during the 33rd APAO Congress, which is held in conjunction with the 29th Hong Kong Ophthalmological Symposium. Organized jointly by the Hong Kong Ophthalmological Society and the College of Ophthalmologists of Hong Kong, this 4-day APAO meeting is truly a conference not to be missed.

We are honored to have more than 600 renowned specialists in ophthalmology and visual sciences from the Asia-Pacific region and beyond who will share their expertise on new and creative treatments, techniques, and technologies in the field.

In addition to the excellent scientific symposia, instruction courses, free paper presentations, and wet lab sessions, we have also organized exciting social events to make the APAO 2018 Congress unique and memorable:

• APAO 2018 Charity Run. For beautiful views of Hong Kong’s famed Victoria Harbor, walk or run along the Central and Western District Promenade during the early morning APAO Charity Run on Saturday, February 10, 2018. Your participation will support APAO educational programs and other worthy charitable causes.

• APAO 2018 Gala Dinner. Experience the best of Hong Kong cuisine alongside magnificent evening views of the Hong Kong skyline, including the harbor front light show, during the Gala Dinner on Saturday, February 10, 2018.

We hope that you will enjoy your time at the APAO 2018 Congress. Do be sure to take the opportunity to explore Hong Kong and its unique blend of Eastern and Western cultures.

Jeffrey PONG
President
Hong Kong Ophthalmological Society

Jimmy LAI
President
College of Ophthalmologists of Hong Kong
Dear Friends and Colleagues,

On behalf of the Organizing Committee, I would like to welcome you to Hong Kong for the 33rd APAO Congress. We are truly honored to host this prestigious event and we can’t thank APAO enough for giving us the opportunity to do so. We are also grateful to all the Organizing Committee members for voluntarily devoting their precious time and energy to making this meeting a success.

In addition to the impressive scientific program, in 2018, for the first time at an APAO congress, we have wet laboratory instruction courses and prizes for the best submissions. We have also prepared a social program that will provide excellent opportunities for delegates to have fun with old friends and meet new ones, including the Presidential Dinner and the Gala Dinner, which will showcase different aspects of our unique Hong Kong culture, along with the Charity Run and Young Ophthalmologists’ Night.

Hong Kong is a safe and dynamic city, and there is plenty to see and experience, no matter whether you are a seasoned traveler or first-time visitor. Please come and join me in Hong Kong in February 2018!

Carmen CHAN
Chair, APAO 2018 Organizing Committee
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.

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The Hong Kong Ophthalmological Society (HKOS) was formed and registered on August 16, 1954, with Dr Dansey Browning as the first Chairman. The Society was established with the objectives to maintain and upgrade the quality of eye care in Hong Kong and to foster brotherhood among eye care professionals serving the public in Hong Kong. Every year since 1989, the HKOS has organized an annual scientific meeting in ophthalmology, as well as other ad-hoc open lectures by internationally renowned speakers. This tradition has been carried on jointly with the establishment of the College of Ophthalmologists of Hong Kong.

In addition, the Society has strong links with other health-related associations and has supported many public health talks and vision screening programs. There are at present over 300 members registered with the Society.

The College of Ophthalmologists of Hong Kong was incorporated in October 1994 with the following objectives:

1. To promote for public benefit the advancement of knowledge in the field of ophthalmology;
2. To promote for public benefit the standard of ophthalmic care in Hong Kong;
3. To develop and maintain the good practice and to maintain high professional standards of competence in the field of ophthalmology;
4. To act as a consultative body for matters of educational or public interest concerning ophthalmology;
5. To encourage and support training, continuing education and research in ophthalmology.

Membership of the College comprises Fellows (including Founding Fellows and Honorary Fellows), Ordinary Members, and Associate Members.
COUNCILS AND COMMITTEES

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The College of Ophthalmologists of Hong Kong

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Acting Chairman
Department of Ophthalmology,
The University of Hong Kong
President
The College of Ophthalmologists of Hong Kong

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Immediate Past President
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The Chinese University of Hong Kong

Jeffrey PONG
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Alvin YOUNG
Chairman
Coordinating Committee in Ophthalmology,
The Hospital Authority
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Secretary: Shaheeda MOHAMED
Treasurer: Jason YAM
Sponsorship Manager: Simon KO
Timothy LAI
George CHENG

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Ka Hong AU
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Aziz KAM
Emmy LI
Alan TSANG

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Stephen LI
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Isabel LAI
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Angela LAI
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Hong Kong

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India

Kohji NISHIDA
Japan

Se Woong KANG
South Korea

Ki Ho PARK
South Korea

Charles MCGHEE
New Zealand

Tien-Yin WONG
Singapore
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United Kingdom

Eduardo ALFONSO
United States

Jeffrey BOATRIGHT
United States

Julia HALLER
United States

Marian MACSAI
United States

Peter MCDONNELL
United States

Bartly MONDINO
United States

Richard PARRISH II
United States

J Bradley RANDLEMAN
United States

Richard ROSEN
United States

SriniVas SADDA
United States
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- Wai-Ching LAM (Hong Kong)
- Calvin PANG (Hong Kong)
- Pannet PANGPUTHIPONG (Thailand)
- Robert RITCH (USA)
- Christopher LEUNG (Hong Kong)

### Senior Secretary

Clement THAM (Hong Kong)

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- **Host Coordinator:** Wai-Ching LAM (Hong Kong)
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ABSTRACT REVIEWING COMMITTEE

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Ji Eun LEE (South Korea)
Joo Yong LEE (South Korea)
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Sonal FARZAVANDI (Singapore)  
Quan HOANG (Singapore)  
Rahat HUSAIN (Singapore)  
Shu-Yen LEE (Singapore)  
Yu-Chi LIU (Singapore)  
Cheryl NGO (Singapore)  
Chia-Li PANG (Singapore)  
Leopold SCHMETTERER (Singapore)  
Rupal SHAH (Singapore)  
Sunny SHEN (Singapore)  
Chelvin SNG (Singapore)  
Clement TAN (Singapore)  
Livia TEO (Singapore)  
Sharon TOW (Singapore)  
Gary YAM (Singapore)  
Yasuo YANAGI (Singapore)  
Ian YEO (Singapore)  
Chee Chew YIP (Singapore)  
Jorge ALIO (Spain)  
Madhuwanthi DISSANAYAKE (Sri Lanka)  
Dushyantha WARIYAPOLA (Sri Lanka)  
Stefan SEREGARD (Sweden)  
Klara LANDAU (Switzerland)  
Serge RESNIKOFF (Switzerland)  
Prut HANUTSAHA (Thailand)  
Pichit NARIPTHAPHAN (Thailand)  
Pinnita PRABHASAWAT (Thailand)  
Vilavun PUANGSRICHERERN (Thailand)  
Duangnate ROJANAPORN (Thailand)  
Paisan RUAMVIBOONSUK (Thailand)  
Yanin SUWAN (Thailand)  
Rajesh KUMAR (United Arab Emirates)  
Patrick YU-WAI-MAN (United Kingdom)  
Anthony ARNOLD (United States)  
Sally ATHERTON (United States)  
Michael BELIN (United States)  
Jane CHAN (United States)  
Kevin CHAN (United States)  
RV Paul CHAN (United States)  
Robert CHANG (United States)  
Karl GOLNIK (United States)  
Walter JAY (United States)  
Bennie JENG (United States)  
Vishal JHANJI (United States)  
Jessica LEE (United States)  
Marian MACSAI (United States)  
Darby MILLER (United States)  
Sanjay PATEL (United States)  
Narsing RAO (United States)  
Bibiana REISER (United States)  
Robert RITCH (United States)  
Arun SINGH (United States)  
Elliott SOHN (United States)  
Uri SOIBERMAN (United States)  
Michael STEWART (United States)  
Prem SUBRAMANIAN (United States)  
Janey WIGGS (United States)  
Michael YEN (United States)  
Jie ZHENG (United States)  
Phảm DONG (Vietnam)  
Do TAN (Vietnam)
SUPPORTING ORGANIZATIONS

- International Council of Ophthalmology
- American Academy of Ophthalmology
- ARVO
- EVER
- AAPM
- Asia Cornea Society
- Asia-Pacific Glaucoma Society
- APMS
- Asia-Pacific Ophthalmic Trauma Society
- APSEG
- Asia-Pacific Society of Ocular Pathology and Ocular Immunology
- APSPOS
- APTOS
- ISCEV
- International Society of Refractive Surgery
- ISRS
- WPPOS
# APAO COUNCIL

## Office Bearers

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Country</th>
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<tbody>
<tr>
<td>President</td>
<td>Charles MCGHEE</td>
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<tr>
<td>President-Elect</td>
<td>Ningli WANG</td>
<td>China</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Tetsuro OSHIKA</td>
<td>Japan</td>
</tr>
<tr>
<td>Deputy Secretary-General</td>
<td>Mingguang HE</td>
<td>China</td>
</tr>
<tr>
<td>Secretary-General &amp; CEO</td>
<td>Clement THAM</td>
<td>Hong Kong</td>
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<tr>
<td>Vice-President</td>
<td>Ava HOSSAIN</td>
<td>Bangladesh</td>
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<tr>
<td>Treasurer</td>
<td>Hyosook AHN</td>
<td>South Korea</td>
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## Ex-Officio Members

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<tr>
<td>Dennis LAM</td>
<td>Immediate Past President</td>
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<td>Dennis LAM</td>
<td>Immediate Past Secretary-General</td>
<td>2021</td>
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<tr>
<td>Tien-Yin WONG</td>
<td>Congress President</td>
<td>2017</td>
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<td>Clement THAM</td>
<td>Congress President</td>
<td>2018</td>
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<td>Paisan RUAMVIBOONSUK</td>
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### Regional Secretaries

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<tr>
<td>David MACKEY</td>
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<td>Ke YAO</td>
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<td>An-Gour WANG</td>
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<td>Dexter LEUNG</td>
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<tr>
<td>Raja NARAYANAN</td>
<td>India</td>
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<td>Astrianda SURYONO</td>
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<td>Siamak ZAREI-GHANAVATI</td>
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<td>Khamphoua SOUTHISOMBATH</td>
<td>Laos, Associate Member</td>
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<td>Seng-Kheong FANG</td>
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<td>Tuvaan BULGAN</td>
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<td>Chaw Chaw KHAING</td>
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<td>Sanjay SINGH</td>
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Elenoa MATOTO-RAIKABAKABA
(Pacific Islands, Associate Member)

Syed Imtiaz ALI
(Pakistan)

Ruben SIONG
(Philippines)

Shu-Yen LEE
(Singapore)

Dushyantha WARIYAPOLA
(Sri Lanka)

Anuchit POONYATHALANG
(Thailand)

Nguyen Xuan HIEP
(Vietnam)

Subspecialty Society Representatives

Donald TAN
(Asia Cornea Society)

Tetsuya YAMAMOTO
(Asia-Pacific Glaucoma Society)

S NATARAJAN
(Asia Pacific Ophthalmic Trauma Society, Associate Member)

Santosh HONAVAR
(Asia-Pacific Society of Ocular Oncology and Pathology)

Reynaldo JAVATE
(Asia-Pacific Society of Ophthalmic Plastic and Reconstructive Surgery)

Kanxing ZHAO
(Asia-Pacific Strabismus and Paediatric Ophthalmology Society)

Taraprasad DAS
(Asia-Pacific Vitreo-retina Society)
### Councilors-at-Large

<table>
<thead>
<tr>
<th>Councilor</th>
<th>Country</th>
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<tr>
<td>Ian CONSTABLE</td>
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<td>Tjahjono GONDHOWIARDJO</td>
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<td>Ashok GROVER</td>
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<td>Gullapalli Nag RAO</td>
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<td>Hugh TAYLOR</td>
<td>Australia</td>
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<td>Lin-Chung WOUNG</td>
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### Standing Committee Chairs

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<tr>
<td>Advisory</td>
<td>Frank MARTIN</td>
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<td>Advocacy</td>
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<td>Awards</td>
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<td>Frank MARTIN</td>
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<td>Gateway Project</td>
<td>Kanxing ZHAO</td>
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<tr>
<td>Journal &amp; Online Education</td>
<td>Dennis LAM</td>
<td>Hong Kong</td>
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<tr>
<td>Leadership Development</td>
<td>Catherine GREEN</td>
<td>Australia</td>
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<td>David MACKEY</td>
<td>Australia</td>
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Ophthalmic Education
Rajvardhan AZAD
(India)

Prevention of Blindness
Ningli WANG
(China)

Research
Tien-Yin WONG
(Singapore)

Women in Ophthalmology
Ava HOSSAIN
(Bangladesh)

Practice Guidelines
Xiaoxin LI
(China)

Public Education
Yizhi LIU
(China)

Subspecialty
Shigeru KINOSHITA
(Japan)

Young Ophthalmologists
Seng-Kheong FANG
(Malaysia)
### APAO MEMBER SOCIETIES

#### NATIONAL MEMBER SOCIETIES

<table>
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<th>Society Name</th>
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Ophthalmological Society of Pakistan

Philippine Academy of Ophthalmology, INC.

Singapore Society of Ophthalmology

The Hong Kong Ophthalmological Society

The Royal Australian and New Zealand College of Ophthalmologists

The Royal College of Ophthalmologists of Thailand

Vietnam Ophthalmological Society
SUBSPECIALTY MEMBER SOCIETIES

Asia Cornea Society
Asia-Pacific Glaucoma Society

Asia-Pacific Society of Ocular Oncology and Pathology
Asia-Pacific Society of Ophthalmic Plastic and Reconstructive Surgery

Asia-Pacific Strabismus and Paediatric Ophthalmology Society
Asia-Pacific Vitreo-retina Society

ASSOCIATE MEMBER SOCIETIES

Asia Pacific Ophthalmic Trauma Society
Lao Ophthalmological Society
Pacific Eye Care Society
APA Secretariat

Congress Manager
Cynthia WONG

Deputizing Society Manager (Finance & HR)
Clare MOK

Executive Officers
Daisy DENG
Winnie HO
Vicky HUI
Sarah LU
Sydney STONNER

Media Officer
Bill WONG

Driving Ophthalmology Forward
HKOS AND COHK COUNCILS

HKOS Council
President: Jeffrey PONG
Vice-President (Internal Affairs): Pui Pui YIP
Vice-President (External Affairs): Ian WONG
Honorable Secretary: Emmy LI
Honorable Treasurer: Jason YAM
Immediate Past President: Dexter LEUNG
Councillors: Tommy CHAN, Andy CHENG, Angie FONG, Jonathan HO, Wing Lau HO, Joy LEUNG, Alex NG, Jane YEUNG

COHK Council
President: Jimmy LAI
Vice-President (Professional Affairs): Clement THAM
Vice-President (General Affairs): Nai Man LAM
Honorary Secretary: Emily YEUNG
Honorary Treasurer: Nancy YUEN
Editor: Ian WONG
Ex-Officio: Pak-Chin CHOW
Council Members: Andy CHENG, George CHENG, Kai Kit HO, Simon KO, Alvin KWAK, Lawrence LAM, Alan NG, Hunter YUEN, Can YUEN, Hon Wah YUNG
## PROGRAM OVERVIEW

<table>
<thead>
<tr>
<th>Feb 7 (Wed)</th>
<th>Feb 8 (Thu)</th>
<th>Feb 9 (Fri)</th>
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*Breakfast Symposium: 45 minutes; S = Sponsored programs with no CME points; for program details refer to Exhibition Directory.*
<table>
<thead>
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*Breakfast Symposium: 45 minutes; S = Sponsored programs with no CME points; for program details refer to Exhibition Directory.
## SCIENTIFIC SESSIONS

SYM = Symposium  
FP = Free Paper  
IC = Instruction Course  
VS = Video Symposium  
PD = Panel Discussion  
WS = Workshop

### Day 1 - Feb 8, 2018 (Thursday)

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<td>Hall 5G</td>
<td>Cataract</td>
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<td>The Role of Antibiotics and Antiseptics in Endophthalmitis Prevention</td>
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<td>What’s New in Retinal Imaging?</td>
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<td>Diabetic Retinopathy and DME</td>
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<td>APAO-ICO Sessions for Educators: Are Your Graduates and Training Programs Good? Models of Accreditation and Certification</td>
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<td>APAO Leadership Development Program 2018-19 Orientation Class 1: Introduction to the APAO Leadership Development Program</td>
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<td>Current and Evolving Interventions in Prevention and Treatment of Uveitis and Related Intraocular Inflammations</td>
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Day 1 - Feb 8, 2018 (Thursday)

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<td>Emerging Ocular Imaging Technologies: From Bench to Bedside</td>
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<td>Regenerative Medicine in Ophthalmology Using Stem Cells</td>
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<td>Strategies to Improve Allied Ophthalmic Personnel Workforce Through Capacity Development Initiatives</td>
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<td>Prevention of Blindness</td>
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<td>Empowering Prevention of Blindness Through Refining Priorities and Policies for Eye Health</td>
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<td>Glaucoma Imaging: From Structure to Function</td>
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<td>The Management of Difficult Strabismus Made Easy</td>
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<td>Orbital &amp; Oculoplastic Surgery</td>
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<td>Welcome to the APAO Oculoplastic Theatre: What I Recently Do Differently</td>
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<td>Artificial Intelligence, Big Data, and Stem Cells in Medical Retina</td>
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<td>APAO-AAPPO Symposium: Lessons, Challenges, and Experience in Conducting Collaborative Multi-Center Studies in Asia</td>
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### Day 3 - Feb 10, 2018 (Saturday)

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<td>Achieving Better Outcomes With Newer Generation Intraocular Lenses</td>
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<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
<td>SYM</td>
<td>Keratoprosthesis: Approaches and Applications</td>
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<td>SYM</td>
<td>Identifying Novel Molecular Mechanisms in the Pathogenesis of Eye Diseases: Moving Forward</td>
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<td>Noninfectious Posterior and Panuveitis</td>
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<td>SYM</td>
<td>Medical, Laser, and Surgical Treatment</td>
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<td>Phaco Nightmares and Worst-Case Scenarios: A Video-Based Symposium</td>
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<td>Updates on Common Orbital Diseases You Don’t Want to Miss</td>
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<td>APSOPRS Symposium: Tips and Tricks in Lacrimal Surgeries—The Asian Experience</td>
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<td>SYM</td>
<td>APVRS Symposium: Diabetic Retinopathy Update 2018</td>
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<td>Academia, Research, Teaching &amp; Education in Ophthalmology</td>
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<td>APAO-ICO Sessions for Educators: Teaching Professionalism in the Busy Clinical Practice: A Global Perspective</td>
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<td>Pathology: Old and New</td>
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<td>SYM</td>
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<td>Gene Modulatory Strategies in Ocular Diseases</td>
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<td>Prevention of Blindness</td>
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<td>Identification and Management of Ocular and Systemic Glaucoma Risk Factors</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
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<td>Retinopathy of Prematurity</td>
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<td>SYM</td>
<td>Tips and Pearls on Fixation of Intraocular Lens</td>
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<td>Clinical Applications of Anterior Segment Imaging</td>
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<td>Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy: Part I</td>
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Day 3 - Feb 10, 2018 (Saturday)

<table>
<thead>
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<td>S223</td>
<td>Academia, Research, Teaching &amp; Education in Ophthalmology</td>
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<td>Recurring Themes in Medico-Legal Complaints and Claims Against Ophthalmologists</td>
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<td>Ocular Imaging</td>
<td>IC</td>
<td>Introduction to OCT Angiography for General Ophthalmologists</td>
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<td>Intraocular Inflammation, Uveitis &amp; Scleritis</td>
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<td>Viral Retinitis: An Asian Perspective</td>
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<td>SYM</td>
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<td>Academia, Research, Teaching &amp; Education in Ophthalmology</td>
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<td>ICO Exams and Fellowships</td>
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<td>S426-S427</td>
<td>Intraocular Inflammation, Uveitis &amp; Scleritis</td>
<td>SYM</td>
<td>Role of Inflammation in Diabetic Retinopathy and Its Management</td>
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<td>Unusual Outcomes After Corneal Collagen Crosslinking: Explanation and Management</td>
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<td>Genetics, Molecular Biology, and Animal Models</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
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<td>APSPOS Symposium: Pediatric Neuro-Ophthalmology Conditions You Should Not Miss</td>
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<td>ISRS Symposium: Top 5 Pearls in Refractive Surgery</td>
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<td>SYM</td>
<td>Cataract Phacoemulsification and Complication Management</td>
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<td>Neuro-Ophthalmology</td>
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<td>Visual Sciences</td>
<td>SYM</td>
<td>ARVO Symposium: Potential Application of Nanotechnology in Eye Disease</td>
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### Day 3 - Feb 10, 2018 (Saturday)

<table>
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<td>SYM</td>
<td>ISCEV Symposium: New Topics in Electrophysiology of Vision</td>
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<td>S223</td>
<td>Academia, Research, Teaching &amp; Education in Ophthalmology</td>
<td>SYM</td>
<td>AOI Symposium: A Potpourri of Ophthalmology Past and Future—Fact and Fiction</td>
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<td>S226-S227</td>
<td>Cataract</td>
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<td>Cataract Surgery in Difficult Eyes</td>
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<td>IC</td>
<td>Black or White Cataract: Phaco Is Our Choice</td>
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<td>Refractive Surgery</td>
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<td>Should I Try SMILE in My Practice?</td>
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<td>Visual Sciences</td>
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<td>Rapid Fire Orbital &amp; Oculoplastic Surgery Update Session</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
<td>SYM</td>
<td>AAPOS Symposium: New Considerations in Pediatric Ophthalmology and Strabismus</td>
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### Day 4 - Feb 11, 2018 (Sunday)

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<td>9:00-10:30</td>
<td>N201A</td>
<td>Orbital &amp; Oculoplastic Surgery</td>
<td>SYM</td>
<td>My Most Challenging Case(s) in Oculoplastics</td>
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<td>N201B</td>
<td>Academia, Research, Teaching &amp; Education in Ophthalmology</td>
<td>WS</td>
<td>APAO-AAPPO Workshop: Clinical Research Design and Methods Session</td>
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<td>N206-N208</td>
<td>Ocular Oncology &amp; Pathology</td>
<td>IC</td>
<td>Advanced Ocular Malignancy: Challenges and Current Management Strategies</td>
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### Day 4 - Feb 11, 2018 (Sunday)

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<td>9:00-10:30</td>
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<td>Retina (Medical)</td>
<td>SYM</td>
<td>Tumors and Miscellane</td>
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<td>Cornea, External Eye Diseases &amp; Eye Bank</td>
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<td>Comprehensive Management of Ocular Complications of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Asians</td>
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<td>S224-S225</td>
<td>Orbital &amp; Oculoplastic Surgery</td>
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<td>Stereoscopic 3D Oculoplasty Surgery Show</td>
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<td>S226-S227</td>
<td>Retina (Surgical)</td>
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<td>How to Optimize Final Visual Outcomes: A VR Surgeon’s Guide to the Cataract Surgeon</td>
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<td>Cataract</td>
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<td>Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy: Part II</td>
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<td>Rapid Fire Intraocular Inflammation, Uveitis &amp; Scleritis and Prevention of Blindness Update Session</td>
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<td>Pediatric Ophthalmology &amp; Strabismus</td>
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<td>Management of Intermittent Exotropia: From Assessment to Surgical Management</td>
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<td>Retinal Vein Occlusion, Other/Rare Maculopathies, and ROP</td>
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<td>Cataract</td>
<td>IC</td>
<td>Advanced Diagnostics for Cataract Surgeons: Additional Need or Additional Cost</td>
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</table>
The following information is provided to make your attendance at the 33rd APAO Congress in Hong Kong as enjoyable as possible. If you require assistance throughout the Congress, please visit the Registration Desk and we will do everything we can to help you.

**Event Name**
The 33rd Asia-Pacific Academy of Ophthalmology Congress

**Congress Venue**
Hong Kong Convention & Exhibition Centre
1 Expo Drive, Wan Chai, Hong Kong

**Registration and Information Desk**
The APAO 2018 Congress Registration and Information Desk is located on Level 3 of Hong Kong Convention & Exhibition Centre and will operate during the times listed below:

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<td>Feb 7, 2018 (Wed)</td>
<td>16:00 – 18:00</td>
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<tr>
<td>Feb 8, 2018 (Thu)</td>
<td>07:30 – 18:00</td>
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<tr>
<td>Feb 9, 2018 (Fri)</td>
<td>07:30 – 18:00</td>
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<tr>
<td>Feb 10, 2018 (Sat)</td>
<td>07:30 – 18:00</td>
</tr>
<tr>
<td>Feb 11, 2018 (Sun)</td>
<td>07:30 – 12:30</td>
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</tbody>
</table>

**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**
Each delegate registered for the Congress will receive a name badge at the Registration Desk.

All delegate badges entitle you to entry of the following:
- All Scientific Sessions;
- Exhibition Hall; and
- Opening Ceremony of APAO 2018

Accompanying Persons (if any) are entitled to enter only the Exhibition Hall and Opening Ceremony of APAO 2018.

This badge will be your official pass and must be worn during the Congress for identification.

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

**Delegate Bag and Ribbon Collection**
Delegate bags and ribbons are available for pickup at the “Delegate Bag Pick Up” counter in the exhibition hall at level 3. 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 2018 mobile app provides easy-to-use interactive capabilities to enhance your Congress experience. The app features all the scientific sessions and instructions courses, posters, e-posters, video abstracts, general information, floor plan, and a city map.

The app can be downloaded by scanning the QR code on the program book cover or that shown below.

**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 S222 & N204:

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<tr>
<td>Feb 11, 2018 (Sun)</td>
<td>07:30 – 11:00</td>
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Abstract Book
A PDF copy of the abstract book is available online at http://2018.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 on Level 3. There will be one poster session showcasing over 300 posters.

Session 1: No. 1 – No. 330

Poster sessions will be conducted during the morning and afternoon breaks from February 8 – 11, 2018. 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 February 8 at 09:00 and ends on February 10 at 12:00.

E-Poster & Video Platform
There are over 389 accepted electronic posters and 62 selected videos showcased in APAO 2018. Delegates may visit the E-Poster and Video Platform located in the Exhibition Hall. 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 February 10 at 12:00.

VIP Lounge
Delegates with a VIP Pass can use the VIP Lounge located in room S229 on Level 2.

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 phone is on silent while you are in 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 can be generated at http://congress.apaophth.org/ after the Congress. Please log in with the exact same email address that you used to register for the Congress.

WiFi
APAO is offering free connectivity to all delegates. To connect, enable the wireless connection on your device and select “APAO2018” with password “APAO2018”. You will be connected to the internet.

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 Hong Kong and booking trips in and around Hong Kong while you are here.

Congress Directory

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<td>Registration Desk</td>
<td>Level 3</td>
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<td>Information Desk</td>
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<tr>
<td>VIP Lounge</td>
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<tr>
<td>Speaker Ready Room</td>
<td>S222 &amp; N204</td>
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<tr>
<td>Opening Ceremony</td>
<td>Hall 5G</td>
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<tr>
<td>Exhibition Hall</td>
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<tr>
<td>Scientific Posters &amp; Videos</td>
<td>Level 3</td>
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## GENERAL INFORMATION

**Venue Information**

**Hong Kong Convention & Exhibition Centre**  
1 Expo Drive, Wan Chai, Hong Kong  
General Enquiries: +852 2582 8888

The award-winning Hong Kong Convention & Exhibition Centre (HKCEC) is one of the largest purpose-built complexes in Asia. Conveniently located downtown, the HKCEC has rental space totaling over 92,000 sqm, comprising 7 exhibition halls, 2 ballroom-style convention halls, 2 adjacent convention foyers, 52 meeting rooms, and 2 theaters. The spacious atrium and ancillary area can be used for pre-function gathering and supporting amenities.

**Site Map**
Visiting Hong Kong

APAO 2018 will be held in a vibrant cosmopolitan city located on the South China Sea—Hong Kong. Known as Asia’s World City, Hong Kong is a top destination for many international and regional events. With soaring skyscrapers and bustling streets, the city is a modern international hub of finance and trade, with elements of traditional Chinese and British heritage evident through language, food, and culture.

For more information about Hong Kong, please visit the following website: http://www.discoverhongkong.com/eng/index.jsp.

Weather
Hong Kong has a subtropical humid climate. However, winter is a relatively dry and temperate time of year, with a mean maximum temperature of 18.9°C/66°F and a mean minimum temperature of 15°C/59°F in February. For the latest weather forecast, please visit the Hong Kong Observatory’s website: http://www.hko.gov.hk/contente.htm.

Getting to the Congress Venue

Taxi
Taxis may drop passengers at the entrance of Hong Kong Convention & Exhibition Centre.

MTR
Hong Kong Convention & Exhibition Centre is approximately a 10-minute walk from Wan Chai Station on the MTR’s Island Line.

Bus

For bus information, please visit the following websites:
http://www.kmb.hk/en/

For more information, please visit the Hong Kong Convention & Exhibition Centre website: https://www.hkcec.com/en.

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

Tipping
Tipping is not customary in Hong Kong. Some restaurants, however, levy a 10% service charge on your bill.
FLOOR PLAN

- L5
- L4
- L3 Registration Exhibition Hall
- L2
- L1
- G
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<tr>
<td>Hall 5G</td>
<td>Chancellor Room</td>
<td>N201A</td>
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<td>S421</td>
<td>N201B</td>
<td>Theatre 2</td>
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<td>S423-S428</td>
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<td>Prayer Room S430</td>
<td>N211-N212</td>
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SOCIAL PROGRAM

Presidential Dinner
Date: February 7, 2018 (Wednesday)
Pick Up Time: 18:00 – 19:00
Time: 18:30 – 19:30 (Cocktail Reception)
19:30 – 21:30 (Dinner)
Venue: Hong Kong Jockey Club
By Invitation Only

Opening Ceremony
Date: February 8, 2018 (Thursday)
Time: 16:00 – 17:00
Venue: Hall 5G, Hong Kong Convention & Exhibition Centre
Open to All Delegates

Welcome Reception
Date: February 8, 2018 (Thursday)
Time: 17:00 – 17:30
Venue: Exhibition Hall, Hong Kong Convention & Exhibition Centre
Open to All Delegates

Women in Ophthalmology Lunch
Date: February 8, 2018 (Thursday)
Time: 13:00 – 14:00
Venue: N211-N212, Hong Kong Convention & Exhibition Centre
Open to All Delegates

Young Ophthalmologists’ Night
Date: February 9, 2018 (Friday)
Time: 18:00 – 20:00
Venue: FRITES Belgium on Tap
For Young Ophthalmologists and LDP Alumni

Charity Run
Date: February 10, 2018 (Saturday)
Time: 6:30 – 8:00
Venue: Central and Western District Promenade
Open to All Delegates

Leadership Development Program Alumni Reception
Date: February 10, 2018 (Saturday)
Time: 13:00 – 14:00
Venue: N206-N208, Hong Kong Convention & Exhibition Centre
For LDP Alumni

Gala Dinner
Date: February 10, 2018 (Saturday)
Time: 18:30 – 21:30
Venue: Hong Kong Convention & Exhibition Centre
Cost: US$100 per person
Open to All Delegates
JOSE RIZAL INTERNATIONAL MEDAL

The Jose Rizal International Medal recognizes outstanding personalities from outside the Asia-Pacific whose contributions have been exceptionally valuable to ophthalmological developments in the region.

Suber HUANG, MD, MBA
United States

Suber Huang is the president and CEO of the Retina Center of Ohio and assistant clinical professor of ophthalmology at Bascom Palmer/University of Miami. He is chair of the NEI/NIH National Eye Health Education Program. He was previously president of the American Society of Retina Specialists (ASRS), Philip and Elizabeth Searle-Suber Huang MD Professor and Vice-Chair of Ophthalmology at Case Western Reserve University (CWRU), founder of the Retina Diseases Image Analysis Reading Center, American Academy of Ophthalmology (AAO) Associate Secretariat of Federal Affairs, and Chair of the Research, Regulatory, and Scientific Affairs Committee. He is an officer of Retina Global, an organization dedicated to enhancing retina care worldwide and founder of the ASRS Retina Image Bank, the world’s largest and most comprehensive open-access database of “all things retina.” With over 40,000 images contributed, imagebank.asrs.org links experts around the world and since 2014, surpassed 1 million online page views.

Dr. Huang’s current research includes the Argus II retina prosthesis, gene therapy for neovascular age-related macular degeneration (AMD), tissue replacement for atrophic AMD, immunomodulation by stem cells, visual analytics in diabetes, and economic modelling of ophthalmic innovation.

Honors include the “Top Doctors” and “Best Doctors in America” award each year since 2003, AAO Secretariat Award (twice), AAO and ASRS Senior Achievement and Honor Awards, Rainbow Babies and Children’s Hospital Pediatric Innovation Award, Ophthalmic Photographers’ Society J Donald M Gass Memorial Lecture, International Congress of Ophthalmic Photographers Award, National Diversity Council Leadership Excellence, Cleveland Sight Center Person of the Year, and the prestigious CWRU Humanism in Medicine Award conferred on the faculty member who most demonstrates compassion and professionalism in the care of patients and their families. In 2017, Dr. Huang was inducted as a charter member of the Retina Hall of Fame.

Innovation and Collaboration in Ophthalmology: Envisioning the Future

Advancements in Technologies for Treatment
February 9, 2018
14:30 – 16:00
S426-S427

As in many fields, the rate of innovation and discovery is increasing faster than any time in history. This is particularly so in genomics, computer science, and epidemiology where collaboration and shared utilization of resources have resulted in synergistic advances. This lecture will illustrate this phenomenon in ophthalmology and vision science. The development of the Argus II Retina Prosthesis, gene therapy clinical trials, and the success of translational research in the Diabetic Retinopathy Clinical Research Network are explored as 3 exceptionally successful research programs. The role of speed, efficiency, and how the changing economic landscape will direct future inquiry will also be examined. The success of each of these programs yields insight into how leadership, collaboration, shared resources, and common purpose are critical determinants for future research design and continued success in translational medicine.
DE OCAMPO LECTURE

The De Ocampo Lecture is the highest award for excellent academic achievements in clinical and/or basic eye research. Recipients are ophthalmologists from the Asia-Pacific region. The De Ocampo Lecture is named after Dr Geminiano De Ocampo, the founding President of the APAO.

Yizhi LIU, MD, PhD
China

Prof Yizhi Liu is a global leader in the research areas of cataract and stem cell–mediated ocular tissue self-repair. He is professor and director of Zhongshan Ophthalmic Center at Sun Yat-sen University and director of the State Key Laboratory of Ophthalmology. He currently serves as chair of the APAO Public Education Standing Committee, vice president of the Chinese Ophthalmological Society, and president of the Guangdong Ophthalmological Society. He is also co–editor-in-chief of Molecular Vision and associate editor-in-chief of Current Molecular Medicine.

As a clinical ophthalmologist, Prof Liu is recognized as a pioneer in China for performing phacoemulsification and intraocular lens implantation. Thus far, he has carried out approximately 200,000 surgical operations for cataract patients. His innovations in the cataract technology system have brought great improvements. He identified lanosterol as a key molecule in the prevention of lens protein aggregation, which points to a novel strategy for cataract prevention and treatment as published in Nature in 2015.

Prof Liu has also led several landmark stem cell studies. His original article on lens regeneration was published in Nature (2016) and selected as one of the “Notable Advances 2016” by Nature Medicine. His team found a central role of the WNT7A-PAX6 axis in corneal epithelial fate determination leading to a new strategy in treating corneal surface disease, which was published in Nature in 2014.

Overall, Prof Liu has published more than 100 peer-reviewed original papers. He has delivered more than 200 invited lectures around the world and has received over US$20 million in grants as the principal investigator.

Cataracts are the leading cause of blindness in the world, for which the only treatment at present is to extract the cataractous lens and implant an artificial intraocular lens (IOL). Although artificial IOLs are widely used in pediatric cataract surgery, they are not suitable for most pediatric patients within the period of visual development before 2 years of age. In humans and some mammals, the regeneration potential of lens tissues have been observed and reported. However, the successful regeneration of a complete mammalian lens with biological function has yet to be achieved. Here we isolate lens epithelial stem/progenitor cells (LECs) in mice as well as rabbits and show that Pax6 and Bmi1 are required for LEC renewal. We designed a novel minimally invasive surgical method of cataract removal aiming to preserve endogenous LECs and have achieved functional lens regeneration in rabbits and macaques, preserving endogenous LECs, basement membranes, and their natural environment maximally. Furthermore, we have regenerated lenses with visual function in human infants with cataracts clinically. Human lens regeneration using endogenous stem cells with biological function and a subsequent novel treatment strategy for cataracts have been achieved for the first time in our study, which may provide a new paradigm for tissue regeneration using endogenous stem cells.
Pak-Chin CHOW, DO, FCOphthHK
Hong Kong

Dr Pak-Chin Chow is a man with great passion and vision in the prevention of blindness, particularly that caused by cataract. As a prominent practicing ophthalmologist in Hong Kong, Dr Chow often has a very tight schedule but still devotes a great deal of time and effort to community and charity work.

From 2013 to 2017, Dr Chow served as president of the College of Ophthalmologists of Hong Kong. He has been a full-time practicing ophthalmologist for over 35 years in both the public and private sectors. After graduating from the Faculty of Medicine, The University of Hong Kong in 1977, he has since become an honorary associate professor at The University of Hong Kong, clinical associate professor (honorary) at The Chinese University of Hong Kong, and visiting associate professor at Shantou University in China.

Dr Chow is passionate about charity work and contributes continuously and generously, particularly to charity causes relating to cataract surgery in China. As a vice chairman of Project Vision, he puts into action the aim of the organization: to bring self-sustainable cataract extraction programs to the underprivileged rural population in China. Project Vision has now established 28 charity eye centers and a charity eye hospital in 9 provinces across China, which has allowed the successful training of over 140 rural eye doctors who have performed over 130,000 charity cataract surgeries. Dr Chow wholly funded and established a charity eye center in Gansu, China in 2012 and was actively involved in training local doctors, who have performed over 1,000 surgeries to date.

Additionally, Dr Chow is the founding chairman and patron of the Hong Kong Medical Association Charitable Foundation, founding chairman of Eye Care Charitable Foundation, medical director of the Asian Foundation for the Prevention of Blindness, and the Honourable Ophthalmologist Ambassador of “SightFirst China Action,” a blindness eradication campaign that was commended by the World Health Organization as one of the largest and most successful ever. Through this campaign, more than 5 million cataract operations have been performed in China over the past 10 years, and several regions, including Tibet, were projected to successfully become free of cataract blindness.

For his commitment and devotion to the eradication of cataract blindness, Dr Chow was awarded the Outstanding Service in Prevention of Blindness Award and the Distinguished Service Award by the Asia-Pacific Academy of Ophthalmology in 2005 and 2010, respectively. He was awarded the Hong Kong Humanity Award by the Hong Kong Red Cross in 2007, as well as the Hong Kong Loving Hearts Award by Asia Television Ltd in 2012.

Dr Chow has also been recognized for his contributions to advancements in social and national issues. He was appointed the director of the Chinese-Overseas Sodality and a member of the Chinese People’s Political Consultative Conference Gansu Province Committee. He was a member of the Hong Kong Central Policy Unit from 2003 to 2006 and has since been elected twice to be a member of the Election Committee responsible for the election of the Chief Executive of Hong Kong. Dr Chow was appointed a Justice of the Peace by the Hong Kong government in 2013.

In recognition of Dr Chow’s meritorious public and community service, particularly his contributions to the promotion of eye care for the community and the needy, as well as the development of the medical profession, he was awarded the Bronze Bauhinia Star by the government of the Hong Kong Special Administrative Region.
Eradication of Cataract Blindness: An Impossible Dream?

Empowering Prevention of Blindness for Fighting Major Causes of Visual Impairment and Low Vision
February 8, 2018
11:00 – 12:30
S426-S427

Cataract is an incapacitating eye disease known to mankind for more than 2,000 years. Age-related cataracts are responsible for 51% of blindness in the world, that is, about 20 million people. Globally, cataract causes moderate to severe disability in 53.8 million people, 52.2 million of whom are from underdeveloped and developing countries. In many countries including China, cataract remains the leading disease resulting in blindness. There are multiple causes, including huge backlogs, long waits for, and barriers to surgery such as cost, lack of information, and transportation problems.

I am involved in several cataract blindness eradication campaigns in Mainland China. Since 1995, the Asian Foundation for the Prevention of Blindness has performed more than 500,000 cataract surgeries. For 10 years since 1997, SightFirst China Action has conducted more than 5.2 million cataract surgeries. From 2006 onward, Project Vision has also conducted more than 150,000 cataract surgeries. These 3 projects adopt different modes of operation. Each has its strengths and weaknesses.

Has cataract blindness been eradicated in China? No. It is estimated that there are still around 5 million people blinded by cataract in China today.

In this lecture, I shall endeavor to highlight the hurdles and discuss the possible ways to overcome them to solve the problems of cataract blindness in China. Hopefully, this may serve as a point of reference for other countries and regions in their quest to conquer difficulties on their roads to eradicating cataract blindness. Let the blind see. May our dreams come true.
ARTHUR LIM AWARD

The Arthur Lim Award recognizes ophthalmologists who have demonstrated exemplary leadership in the field of ophthalmology and subsequently made substantial improvements in ophthalmic teaching and training in their countries and beyond. It is named after Prof Arthur Lim, former President and Secretary-General of the APAO.

Paisan RUAMVIBOONSUK, MD
Thailand

Dr Paisan Ruamviboonsuk is the immediate past president of the Royal College of Ophthalmologists of Thailand (RCOPT), serving 2 consecutive terms from 2012–2016, and was president of the Thai Retina Society from 2009–2013. He has been a council member of the Asia-Pacific Academy of Ophthalmology (APAO) since 2013 and a council member of the Asia-Pacific Vitreo-retina Society (APVRS) since 2010.

His achievements include the initiative on prevention of blindness from diabetic retinopathy (DR) which encompasses different approaches in eye care, such as research, training, education, service improvement, and policy advocacy. This initiative commenced with his publication in *Ophthalmology* finding high sensitivity and specificity of trained personnel, who were not in ophthalmic services, for detecting DR for referral to ophthalmologists. He deployed these results into national services with classroom and web-based training courses to more than 2,500 local personnel in remote hospitals, enabling them to detect the need for referral with sensitivity and specificity of at least 0.85.

This initiative received the National Service Award from the Office of Public-Sector Development Commission of Thailand. Dr Ruamviboonsuk was awarded “Distinguished Government Officer” from the Prime Minister of Thailand. The proportion of diabetic patients screened for DR has become one of the health indicators monitored regularly by the Ministry of Public Health. This initiative went on to receive the United Nations Public Service Award for the category of Advancing Knowledge Management in Government. It is the only project on eye disease to ever receive this prestigious award.

As chair of the National Committee for Ophthalmic Medication Selection, Dr Ruamviboonsuk advised the government to list bevacizumab on Thailand’s National List of Essential Medication for treating DR and other diseases. This strategy made bevacizumab available for all Thais under the universal coverage insurance scheme, saving more than USD40,000,000 of government budget within 3 years and the sight of countless Thais.

Dr Ruamviboonsuk also serves as a member of the International Council of Ophthalmology Diabetic Eye Care Committee developing guidelines for DR management. He is involved in prevention of blindness in neighboring countries, especially Laos. He has collaborated closely with the APAO Gateway Project and Sight For All Foundation to reduce blindness and improve ophthalmic education in Laos by recruiting Thai ophthalmologists to work there.

Dr Ruamviboonsuk led national colleges/societies of ophthalmologists from 10 countries in Southeast Asia to form a new society of ophthalmologists in the region. This was conducted a year before the 10 countries entered a single economic community. He was the founding president of this Association of Southeast Asian Nations (ASEAN) Ophthalmology Society and president of the Inaugural Congress of the ASEAN Ophthalmology Society (AOS) in 2014. He currently is the secretary general of the society. The objectives of AOS are to narrow the gaps among the 10 countries for prevention of blindness and improve ophthalmic education. Under his guidance, the second congress was organized successfully by the Vietnam National Institute of Ophthalmology, with the third congress held by the Indonesian Association of Ophthalmologists in 2017.

His dedication to ophthalmic education is not limited to ophthalmologists. For the 2016 Asia-Pacific Eye Care Week, he was editor-in-chief of a book on public education for eye care whose contents included education on important, common eye problems. The book was launched during the BookEXPO Thailand and has already sold out.

Dr Ruamviboonsuk is an invited speaker at international meetings in many different countries. He has received the APAO Distinguished Service Award and APAO Achievement Award. He was president of the 10th APVRS Congress in 2016 and is president of the 34th APAO Congress in 2019.
Diabetic retinopathy (DR) screening is essential for reducing the risk of visual loss from diabetes. While the gold standard for diagnosis of DR is still 7-field Early Treatment Diabetic Retinopathy Study (ETDRS) photography proposed in the early 1980s, the latest technology for retinal imaging in each era has always been deployed for DR screening: Polaroid photography in the late 1980s or digital imaging in the late 1990s, for example.

Interpretation of retinal images by trained nonophthalmologist health personnel can be an alternative to retinal examination for DR screening. Nonhuman interpretation of the images has been studied for DR screening since the early 2000s and attempts have been made to make the software sensitive and specific enough. Over the years, the software has reached the plateau of sensitivity at approximately 90% with specificity at only approximately 60%.

The turning point in automated retinal image analysis software is the latest developments in big data and artificial intelligence (AI), especially deep learning (DL). DL has been developed not only to know “what” DR is but also to know “how” to detect DR. This makes its sensitivity and specificity for detection as high as 95%. In ophthalmology, not only analyzing retinal images for DR screening, but also optic disc and optical coherence tomography interpretation, have been developed with DL. Other fields of medicine heavily involved in image interpretation, such as dermatology, may be more advanced than ophthalmology in using DL. AI has come into medicine including ophthalmology. How do we deal with it?
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.

Anne BROOKS  
Australia

Mohammad Zafar KHALED  
Bangladesh

Ouk Sok HEAN  
Cambodia

David MA  
Chinese Taipei

Kenneth LI  
Hong Kong

Namrata SHARMA  
India

Suhardjo PAWIORANU  
Indonesia

Haruki ABE  
Japan

Sang Yeul LEE  
South Korea

Tan Niap MING  
Malaysia

Than AUNG  
Myanmar

Suresh Raj PANT  
Nepal

Muhammad Naqaish SADIQ  
Pakistan

Mario AQUINO  
Philippines

Mohamad ROSMAN  
Singapore

Muditha KULATUNGE  
Sri Lanka

Manchima MAKORNWATTANA  
Thailand
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.

Richard LE MESURIER
Australia

Anisur RAHMAN
Bangladesh

Kheng SOK
Cambodia

Ailian HU
China

An-Guor WANG
Chinese Taipei

Dexter LEUNG
Hong Kong

Gudimetla REDDY
India

Aldiana HALIM
Indonesia

Manabu MOCHIZUKI
Japan

Junetaek YOON
South Korea

Chin Pik KEE
Malaysia

Mya AUNG
Myanmar

Hukum Prasad POKHREL
Nepal

Nasir SAEED
Pakistan

Pearl Tamesis VILLALON
Philippines

Lalitha SENARATH
Sri Lanka

Chaiyasit THEPCHATRI
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

- **Jost JONAS**
  - Germany
- **Dennis LAM**
  - Hong Kong
- **Calvin PANG**
  - Hong Kong
- **Clement THAM**
  - Hong Kong
- **Rajvardhan AZAD**
  - India
- **Ki Ho PARK**
  - South Korea
- **Harvey UY**
  - Philippines
- **Gangadhara SUNDAR**
  - Singapore
- **Tin AUNG**
  - Singapore
ACHIEVEMENT AWARDS

Craig DONALDSON
Australia

Catherine GREEN
Australia

Heather MACK
Australia

Rasik VAJPAYEE
Australia

Syeed KADIR
Bangladesh

Peter DOLMAN
Canada

Youxin CHEN
China

Karthikeyan Arcot
SADAGOPAN
China

Shaoying TAN
China

Ke YAO
China

Shu-Wen CHANG
Chinese Taipei

San-Ni CHEN
Chinese Taipei

Henry CHEN
Chinese Taipei

Shih-Hwa CHIOU
Chinese Taipei

Yih-Shiou HWANG
Chinese Taipei

Chi-Chin SUN
Chinese Taipei
AWARDS & LECTURES

Tzu-Hsun TSAI
Chinese Taipei

Tommy CHAN
Hong Kong

Simon KO
Hong Kong

Tsz-Kin NG
Hong Kong

Danny NG
Hong Kong

Kendrick SHIH
Hong Kong

Ian WONG
Hong Kong

Tarun ARORA
India

Bhavna CHAWLA
India

Jay CHHABLANI
India

Sonu GOEL
India

Swathi KALIKI
India

Sunil MOREKER
India

Kalpana MURTHY
India

Kim RAMASAMY
India

Raksha RAO
India
AWARDS & LECTURES

Marcus ANG
Singapore

Caroline CHEE
Singapore

Chai-Teck CHOO
Singapore

Seng-Ei TI
Singapore

Hin-Fai YAM
Singapore

Serge RESNIKOFF
Switzerland

Duangnate ROJANAPORN
Thailand

Keith BARTON
United Kingdom

Lynn ANDERSON
United States

Kevin CHAN
United States

Syril DORAIRAJ
United States

Jennifer KANG-MIELER
United States

Neil MILLER
United States

Prem SUBRAMANIAN
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.

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<td><strong>Academia, Research, Teaching &amp; Education in Ophthalmology</strong></td>
<td>Shaochun CHEN Chinese Taipei, Aditya KELKAR India, Helena FILIPE Portugal</td>
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<td><strong>Cataract</strong></td>
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<tr>
<td><strong>Cornea, External Eye Diseases &amp; Eye Bank</strong></td>
<td>Mayumi UETA Japan, Gaurav PRAKASH United Arab Emirates, Joshua HOU United States</td>
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<td><strong>Glaucoma</strong></td>
<td>Xiao Yang LUO China, Yu-Yen CHEN Chinese Taipei, Bo LEI China</td>
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<tr>
<td><strong>Intraocular Inflammation, Uveitis &amp; Scleritis</strong></td>
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<td><strong>Neuro-Ophthalmology</strong></td>
<td>Honglu SONG China, Victor CHAN Hong Kong</td>
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<td><strong>Ocular Imaging</strong></td>
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<td><strong>Ocular Oncology &amp; Pathology</strong></td>
<td>Preethi JEYABAL Singapore, Jia-Wei LIN Chinese Taipei</td>
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<td><strong>Ophthalmic Epidemiology</strong></td>
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### Orbital & Oculoplastic Surgery

- Emily WONG  
  Hong Kong
- Stephanie YOUNG  
  Singapore

### Pediatric Ophthalmology & Strabismus

- Ritika DALAL  
  India
- Samantha SIMKIN  
  New Zealand
- Mukti MITRA  
  Bangladesh

### Refractive Surgery

- Michael ASSOULINE  
  France
- Ashima BAJAJ  
  India

### Retina (Medical)

- Timothy LAI  
  Hong Kong
- Adrian KOH  
  Singapore
- Colin TAN  
  Singapore

### Retina (Surgical)

- Kunho BAE  
  South Korea
- Jian GE  
  China

### Prevention of Blindness

- Ritika DALAL  
  India
- Samantha SIMKIN  
  New Zealand
- Mukti MITRA  
  Bangladesh

### Translational Research in Ophthalmology

- Kunho BAE  
  South Korea
- Jian GE  
  China

### Visual Sciences

- Chang-Jun ZHANG  
  China
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.

Khairun NESA
Bangladesh

Fei LI
China

Xiaogang WANG
China

Bhuvan CHANANA
India

Zulvikar ULHAQ
Indonesia

Kabindra BAJRACHARYA
Nepal

Irum RAZA
Pakistan

Eleonore IGUBAN
Philippines

Vishal JHANJI
United States

Nguyễn Thị Thu HIEN
Vietnam
AAO 2018
ART + SCIENCE

Call for Abstracts
Papers/Posters and Videos
March 8, 2018 – April 10, 2018

Join Your Colleagues in Chicago

Like Chicago, ophthalmology is a global community of innovators in art and science. Join us at AAO 2018, where you can contemplate the finer points of cross-linking, intraocular knot-tying and lenticule extraction — or Monet, van der Rohe and Chagall.

In conjunction with the Pan-American Association of Ophthalmology

AAO 2018
October 27 – 30

Subspecialty Day
October 26 – 27

AAOE Program
October 27 – 30

aao.org/2018

Where All of Ophthalmology Meets®

Feb 08, 2018 (Thu)

Academia, Research, Teaching & Education in Ophthalmology

APAO-ICO Sessions for Educators: Are Your Graduates and Training Programs Good? Models of Accreditation and Certification
Certification is used for verifying that one has adequate credentials to practice certain disciplines. Accreditation is used to verify that institutes/hospitals have an appropriate quality management system and can properly perform according to their scopes of accreditation. A certificate of accreditation should be renewed periodically, though this is not mandatory in many countries. An overview of certification and accreditation practices will be provided in this symposium.

09:00 - 10:30 Venue: S223
Chair(s): William ASTLE, Bipasha MUKHERJEE

09:00 Why Accreditation and Certification?
Bruce SPIVEY

09:08 ICO Accreditation
Karl GOLNIK

09:16 ICO Examinations
Clare DAVEY

09:24 Fellowship Program Accreditation in India
Rajvardhan AZAD

09:32 Certification and Accreditation in Australia
David ANDREWS

09:40 Certification and Accreditation in India
Bipasha MUKHERJEE

09:48 Certification and Accreditation in Canada
Kathy CAO

09:56 Certification of Allied Ophthalmic Personnel
Lynn ANDERSON

10:04 Accreditation of Allied Ophthalmic Personnel Training Programs
William ASTLE

10:12 Panel Discussion

APAO-ICO Sessions for Educators: Teaching Does Not Equal Learning: How Do We Know if They Have Learned?
The goal of resident education is to create a competent ophthalmologist. Multiple assessment methods are needed to prove competence in the many skills required to be a good physician. This symposium will describe principles of assessment and essential competency assessment tools including MCQs, OSCE, surgical skill and observed patient care rubrics, and the 360-degree evaluation.

11:00 - 12:30 Venue: S223
Chair(s): Rajvardhan AZAD, Karl GOLNIK, Srikanth RAMASUBRAMANIAN

11:00 Assessment Principles
Karl GOLNIK

11:15 MCQs
Arvind SINGH

11:30 OSCE
Clement TAN

11:45 Surgical Skill Rubrics
Meena SWAMINATHAN

12:00 Patient Care Workplace-Based Assessment
Chee Chew YIP

12:15 360-Degree Tool (Multisource Feedback)
Ana PALIS

Cataract

The Role of Antibiotics and Antiseptics in Endophthalmitis Prevention
Postoperative endophthalmitis is an uncommon but potentially serious complication of intraocular surgery. Different risk factors have been shown to be related to this entity. In an attempt to decrease the rates of endophthalmitis antibiotics are used in the perioperative period, and they are delivered by various routes, including topical, subconjunctival, in the irrigating solution, or by bolus intracameral injection. There is no uniform standard of form and type of antibiotic use accepted worldwide. This session will present the rationale behind different practice patterns in endophthalmitis prophylaxis.

09:00 - 10:30 Venue: Hall 5G
Chair(s): Tat Keong CHAN, John CHANG, Andrzej GRZYBOWSKI

09:00 Why Do I Use IC Moxifloxacin to Prevent Endophthalmitis?
John CHANG

09:08 Why Do I Use IC Cefuroxime to Prevent Endophthalmitis?
Andrzej GRZYBOWSKI

09:16 Why Do I Use IC Levofloxacin to Prevent Endophthalmitis?
Tetsuro OSHIKA

09:24 Why Do I Use IC Cefazolin to Prevent Endophthalmitis?
Colin TAN
09:32 Why Do I NOT Use IC Antibiotics to Prevent Endophthalmitis? George BEIKO

09:40 Multipronged Strategy for Antimicrobial Prophylaxis in Cataract Surgery Tat Keong CHAN

09:48 PVI: Between Small and High Concentrations and How to Use It Hiroyuki SHIMADA

09:56 Why Preoperative Topical Antibiotics Should Not Be Used Anymore Andrzej GRZYBOWSKI

10:04 Panel Discussion

Management of Difficult and Challenging Situations in Cataract Surgery
During this session the most extreme and difficult situations with an adequate and successful solution will be shown by prominent experts and master surgeons in anterior segment surgery. Alternative solutions will also be described during the panel discussion.

11:00 - 12:30 Venue: Hall 5G Chair(s): Amar AGARWAL, Jorge ALIO

11:00 Management of Glaucoma in Cataract Patients George BEIKO

11:13 Glued IOL in Sticky Situations Amar AGARWAL

11:26 Small Pupil Cataract Surgery Andrzej GRZYBOWSKI

11:39 Management of Posterior Capsule Rupture Toshihiko OHTA

11:52 Management of Cataract With Iris Defects Soon-Phaik CHEE

12:05 Subluxated Traumatic Brown Cataract in a 1-Eyed Patient Mohan RAJAN

12:18 Black and White Pearls: Tips and Techniques for Dense Cataracts Jay MEYER

09:00 - 10:30 Venue: S421 Chair(s): Teifi JAMES, Bennie JENG, Alvin YOUNG

09:00 Evidence-Based Management of Dry Eye Disease in Sjogren Syndrome Kendrick SHIH

09:10 Immunomodulatory Drugs in Dry Eye Disease Marc LABETOLLE

09:20 Dry Eye (Sjogren, GVHD) Sihem LAZREG

09:30 Biologic Products for Treating Dry Eyes Bennie JENG

09:40 Blepharitis, Rosacea, and Demodex: An Awkward Relationship Teifi JAMES

09:50 Diagnosis and Treatment of Recurrent Corneal Erosion Darby MILLER

10:00 In Vivo Confocal Microscopy of the Corneal Subbasal Plexus in Systemic Disease Stuti MISRA

10:10 Treatment for Ocular Surface Squamous Neoplasia, Mitomycin C or Interferon? Sophie DENG

10:20 Panel Discussion

The Inflamed Ocular Surface
11:00 - 12:30 Venue: S421 Chair(s): Vishal JHANJI, Shigeru KINOSHITA, Zuguo LIU

11:00 Management of Ocular Surface Diseases Vishal JHANJI

11:10 Treatment of Mooren Ulcer Shigeru KINOSHITA

11:20 Ocular Inflammation in Severe Dry Eye Zuguo LIU

11:30 Ocular Surface Wound Healing Choun-Ki JOO

11:40 Management of Stevens-Johnson Syndrome Chie SOTOZONO

11:50 Recurrent Pterygium: Conquering the Battle Tarun ARORA

12:00 Mastering Pterygium Surgery Vilavun PUANGSRICHARERN

12:10 Nerve Transplant and Nerve Transfer for Corneal Reinnervation Surgery Sunil MOREKER

Cornea, External Eye Diseases & Eye Bank

Dry Eye and Ocular Surface Disease
The ocular surface is complex and its health is vital for good quality vision. This session will feature a series of presentations ranging from laboratory science, clinical diagnosis, investigation, and management of a variety of ocular surface conditions.
12:20   Panel Discussion

**NEW FRONTIERS IN GLAUCOMA DIAGNOSIS AND TREATMENT**

The development of ophthalmology relies on advances in other basic science fields. Introduction and utilization of new techniques into ophthalmology leads to great leaps in the diagnosis and treatment of ocular diseases. Glaucoma is a challenging disease in ophthalmology, which still has many mysteries to discover. In this symposium, we will show you the latest advances in glaucoma research, bringing the most cutting edge concepts and technologies to glaucoma diagnosis and treatment.

09:00 - 10:30 **Venue: Theatre 1**
**Chair(s): Christopher LEUNG, Ki Ho PARK, Xiulan ZHANG**

- 09:00 Intraocular Pressure Monitoring With Smart Contact Lens Based on Photonic Crystal  
  Xuemin DU
- 09:11 Central Retinal Venous Pressure in Glaucoma. An Important Diagnostic Marker  
  Lutz PILLUNAT
  Yu QIAO
- 09:33 Brain as the Diagnostic and Therapeutic Target for Glaucoma  
  Muneeb FAIQ
- 09:44 Iris Surface Features as a Novel Marker for Angle-Closure Glaucoma  
  Ching-Yu CHENG
- 09:55 Slow Release Meds for Glaucoma: Slow and Steady Wins the Race  
  Shamira PERERA
- 10:06 Latest Advances in OCT Imaging Technology: Clinical Applications in Glaucoma Diagnosis  
  Jin Wook JEOUNG
- 10:17 New Glaucoma Medications: How New and How Effective?  
  Richard PARRISH

**WGA SYMPOSIUM: HOT DEBATES IN GLAUCOMA**

Our understanding of glaucoma pathophysiology is rapidly changing. This symposium will explore the impact, controversies, and application of new knowledge on glaucoma detection, diagnosis, and treatment and will emphasize the importance of emerging techniques and technologies on disease management paradigms and their implications for the delivery of glaucoma care.

11:00 - 12:30 **Venue: Theatre 1**
**Chair(s): Tin AUNG, Jeffrey LIEBMANN, Keith MARTIN**

- 11:00 Within 10 Years, In Vivo RGC Imaging will Revolutionize Glaucoma Diagnosis and Management  
  Christopher LEUNG
- 11:06 Within 20 Years, Precision Medicine Will Revolutionize Glaucoma Diagnosis and Management  
  Janey WIGGS
- 11:12 Normal Tension Glaucoma Is Not Different Than Primary Open Glaucoma and Should Be Evaluated and Managed in a Similar Way  
  Tetsuya YAMAMOTO
- 11:18 Normal Tension Glaucoma Is Different Than Primary Open Glaucoma and Should Be Evaluated and Managed Differently  
  Neeru GUPTA
- 11:24 For Uncontrolled Primary Angle-Closure Glaucoma Our First Choice of Incisional Surgical Treatment Is Filtering Surgery  
  Prin ROJANAPONGPUN
- 11:30 For Uncontrolled Primary Angle-Closure Glaucoma Our First Choice of Incisional Surgical Treatment Is Lens Extraction Alone  
  Clement THAM
- 11:36 MIGS Is a Valuable Tool for the Management of Glaucoma  
  Paul HEALEY
- 11:42 MIGS Is Just a Fad  
  Michael KOOK
- 11:48 Blood Pressure Manipulation and Nutritional Supplements are Modifiable Risk Factors in Glaucoma  
  Robert RITCH
- 11:54 The Use of Alternative Medicines and Unproven Interventions May Be Deleterious to Glaucoma Patients and Their Management  
  Kaweh MANSOURI
- 12:00 Artificial Intelligence Will Become More Powerful Than Humans in Glaucoma Diagnosis  
  Xiulan ZHANG
- 12:06 Artificial Intelligence Is Unlikely to Replace the Physician in Glaucoma Diagnosis and Management  
  Arthur SIT
- 12:12 Panel Discussion
Intraocular Inflammation, Uveitis & Scleritis

Current and Evolving Interventions in Prevention and Treatment of Uveitis and Related Intraocular Inflammations

09:00 - 10:30  Venue: S426-S427
Chair(s): Shaheeda MOHAMED, Kalpana MURTHY, Narsing RAO

09:00  Management of Ocular Sarcoidosis in the Asia-Pacific Region
Kalpana MURTHY

09:10  Diagnosis and Treatment of Evolving Infectious Uveitis in Developing Countries
Padmamalini MAHENDRADAS

09:20  Management of Herpetic Anterior Uveitis
Soon-Phaik CHEE

09:30  Treatment of Acute Retinal Necrosis and Its Prevention in the Opposite Eye
Shishir NARAIN

09:40  Prevention and Treatment of Recurrent Ocular Toxoplasmosis
Manohar BABU

09:50  Prevention and Therapeutic Intervention in Tuberculous Paradoxical Reaction
Vishali GUPTA

10:00  Treatment of Ocular Syphilis in HIV and Nonimmunocompromised Persons
Peter MCCLUSKEY

10:10  Therapeutic Interventions in Immune Recovery Uveitis
Jyotirmay BISWAS

10:20  Questions and Answers

Miscellaneous

APAO Leadership Development Program 2018-19 Orientation Class 1: Introduction to the APAO Leadership Development Program
Closed Session for APAO Leadership Development Program Class 2018-19 Participants
09:00 - 10:30  Venue: S425
Chair(s): Catherine Green

09:00  Welcome to the APAO Leadership Development Program: Opening Remarks
Catherine GREEN

09:05  Welcome by APAO President
Charles MCGHEE

09:15  Welcome by APAO Secretary General
Clement THAM
15:02  The Past, Present, and Future Development of Big Data and AI in Ophthalmology  
*Mingguang HE*

15:10  Treating Myopia: the Past, Present and Future  
*Ronald KRUEGER*

15:18  Treating Presbyopia: The Past, Present, and Future  
*Jorge ALIO*

15:26  Gene-Based Therapies for Leber Hereditary Optic Neuropathy. Hype or Hope?  
*David MACKEY*

15:34  Transplantation of Induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelium Cells for Age-Related Macular Degeneration  
*Yasuo KURIMOTO*

15:42  ASRS Retina Image Bank: An Ophthalmic Resource for the World  
*Suber HUANG*

15:50  Grooming Future Leaders in Ophthalmology in the Asia-Pacific Region  
*Dennis LAM*

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**Neuro-Ophthalmology**

This symposium utilizes a case-based approach to review the diagnosis and management of neuro-ophthalmic conditions affecting the afferent visual pathway. Experts in the field will present selected illustrative clinical scenarios as unknowns, and the pertinent clinical findings and ancillary tests will be highlighted in the formulation of a differential and a final diagnosis. Current standards for management of each case will be summarized.

09:00 - 10:30  **Venue: N201A**  
*Chair(s): Anthony ARNOLD, Satoshi KASHII, Yong ZHONG*

09:00  Chasing Shadows  
*Shaoying TAN*

09:12  Sometimes Those Other Blood Tests Are Positive  
*Clement TAN*

09:24  Variation on a Theme by BK ...  
*François-Xavier BORRUAT*

09:36  In the Dark  
*Clare FRASER*

09:48  Behind the Scenes  
*Hyosook AHN*

10:00  Silent Killer  
*Yong ZHONG*

10:12  Panel Discussion

**New Concepts in Neuro-Ophthalmology**
This session will review emerging pathophysiological, neuroimaging, and therapeutic concepts in neuro-ophthalmology, including gene therapy and stem cells. The management of inherited optic neuropathies remains challenging and clinicians need to be aware of the potential diagnostic pitfalls. The triggering factors that initiate the inflammatory process in giant cell arteritis (GCA) still remain unclear. The discovery of varicella zoster virus (VZV) antigens in the temporal arteries of patients with GCA is therefore intriguing and its relevance in disease pathogenesis will be critically appraised. Lastly, the disease mechanisms that underpin retinal ganglion cell loss in glaucoma and MOG-related optic neuropathy will be discussed in the light of recently published experimental data.

11:00 - 12:30  **Venue: N201A**  
*Chair(s): Celia CHEN, Shihui WEI, Patrick YU-WAI-MAN*

11:00  Principles and Application of Gene Therapy and Stem Cells  
*Patrick YU-WAI-MAN*

11:12  Managing Hereditary Optic Nerve Disorders  
*David MACKEY*

11:24  The Role of VZV in Giant Cell Arteritis  
*Prem SUBRAMANIAN*

11:36  Glaucoma as a Neurodegenerative Disorder  
*Jane CHAN*

11:48  Updates on MOG-Related Optic Neuropathy  
*Shihui WEI*

12:00  New Paradigms in Neuroimaging  
*Anthony ARNOLD*

12:12  Panel Discussion

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**Ocular Imaging**

**What’s New in Retinal Imaging?**

09:00 - 10:30  **Venue: N201B**  
*Chair(s): Gemmy CHEUNG, Jay CHHABLANI, Wai-Ching LAM*

09:00  Artificial Intelligence in Ocular Imaging  
*Robert CHANG*

09:11  The Use of Ultra Wide Field Imaging for Screening of Sickle Cell  
*Wai-Ching LAM*

09:22  OCTA of the Choroid in High Myopes  
*Gemmy CHEUNG*
Ocular Oncology & Pathology

**New Treatments of Intraocular Tumors**
Ocular malignancies offer a challenging subject for ophthalmologists as patients are often diagnosed quite late and tumors can be unresponsive to treatment. This session analyzes the current treatments of several malignancies and discusses how to optimize them. It furthermore shows new genetic findings and new medical approaches that may reach the clinic in years to come.

09:00 - 10:30  **Venue: S226-S227**  
*Chair(s): Martine JAGER, Duangnate ROJANAPORN, Stefan SEREGARD*

09:00  BAP1 and Uveal Melanoma  
Gregorius LUYTEN

09:11  Current Management Options for Uveal Melanoma  
Duangnate ROJANAPORN

09:22  Update on Uveal Melanoma in India  
Swathi KALIKI

09:33  Dose Rate in Ruthenium Plaque Radiotherapy for Uveal Melanoma  
Stefan SEREGARD

09:44  Traditional Chinese Medicine in Ocular Melanoma  
Jinfeng CAO

09:55  Increase in Hyaluronic Acid and EZH-2 in Aggressive RB  
Hendrian SOEBAGJO

10:06  Biology of Growth Hormone-Releasing Hormone in Retinoblastoma  
Wai Kit CHU

10:17  Treatment of Choroidal Metastasis  
Joo Yong LEE

AOI Symposium: Novel Treatments in Ocular Oncology. Beyond the Horizon
In the past 2 decades there have been many changes in the management of ophthalmic tumors. This symposium will focus on new prognostication methods of uveal melanoma and methods of treating the primary tumor and its metastasis; on the expanding use of local chemotherapy for ocular tumors; and on modern approaches in treating orbital tumors.

11:00 - 12:30  **Venue: S226-S227**  
*Chair(s): Martine JAGER, Jacob PE’ER, Stefan SEREGARD*

11:00  Prognostication in Uveal Melanoma: Size and Genetics  
Martine JAGER

11:15  Small Incision for Excision and Biopsy of Iris Melanoma  
Charles MCGHEE

11:30  Selective Internal Radiation Therapy: Alternative Approach to Control Metastatic Uveal Melanoma  
Tero KIVELA

11:45  Current Treatment of Vitreoretinal Lymphoma  
Jacob PE’ER

12:00  Conjunctival Neoplasia. Today, Tomorrow, and the Day After Tomorrow  
Santosh HONAVAR

Ophthalmic Epidemiology

**New Data on Ophthalmic Epidemiology in the Asia-Pacific Region**

11:00 - 12:30  **Venue: S423-S424**  
*Chair(s): Mingguang HE, Danny NG, Nasir SAEED*

11:00  Abusive Head Trauma in Taiwan: Clinical Characteristics and Risk Factors for Mortality  
Wei-Chi WU

11:10  Epidemiology of Blinding Eye Diseases  
Rohit KHANNA

11:20  Australian National Eye Health Survey  
Stuart KEEL

11:30  Epidemiology of Ocular Trauma  
Tengku KAMALDEN
SCIENCET PROGRAM SCHEDULE
INVITED SYMPOSIUMS
FEB 8

11:40 Association of Myopia and Vitamin D: Epidemiology
Seyhan YAZAR

11:50 Epidemiology Updates on Diabetic Retinopathy and Refractive Errors in Pakistan
Muhammad JADOON

12:00 Panel Discussion

Orbital & Oculoplastic Surgery

WIO Symposium: Aesthetic Surgeries in Asia
Anatomy is different between East Asians and Caucasians. Hence, aesthetic procedures for the orbital region for East Asians should be individualized. This symposium will cover common aesthetic technical points, as well as the management of complications of double eyelid, eye bag, and periorcular rejuvenation in Asian patients.

11:00 - 12:30 Venue: N201B
Chair(s): Yoon-Duck KIM, Dongmei LI, Carol YU

11:00 Double Eyelid Operation: Suture Technique or Incision Technique
Carol YU

11:10 Upper Lid Blepharoplasty: Surgical Pitfalls
Mukti MITRA

11:20 Lower Lid Blepharoplasty: Fat Removal or Fat Reposition
Juan YE

11:30 Epicanthoplasty: What Is the Best?
Kyang In WOO

11:40 Ptosis Surgery for Cosmetic Patients
Lay Leng SEAH

11:50 Management of Suboptimal Results of Upper Lid Blepharoplasty
Yoon-Duck KIM

12:00 Periocular Rejuvenation With Fillers
Audrey LOOI

12:10 Complications of Lower Lid Blepharoplasty: Prevention and Management
Dongmei LI

12:20 Panel Discussion

Pediatric Ophthalmology & Strabismus

Ocular Genetics for the Pediatric Ophthalmologist
This symposium will examine rapid advances in genomic medicine, their application in genetic eye diseases, and the role of the pediatric ophthalmologist. The introduction of next generation sequencing, including whole exome and whole genome sequencing, has provided tremendous opportunities for molecular diagnosis for patients and families with genetic eye diseases. In this symposium, the clinical utility of this technology will be highlighted. The critical role of the pediatric ophthalmologist in accurate ocular phenotypic characterization will be discussed. Clinical cases illustrating management challenges that may arise will be presented.

09:00 - 10:30 Venue: S224-S225
Chair(s): John GRIGG, Robyn JAMIESON, Jason YAM

09:00 Retinoblastoma Genetics in the Clinic
Wai Kit CHU

09:12 Genetics in Retinal Dystrophies
Robyn JAMIESON

09:24 Genetics of Myopia
Lijia CHEN

09:36 Genetics in Congenital Glaucoma and Anterior Segment: Recent Updates
Viney GUPTA

09:48 Genetics of Congenital Miswiring Syndromes
Flaherty MARRE

10:00 Genetics of Congenital Cataract
John GRIGG

10:12 Approach to a Child With Macular Dystrophy
Choi Mun CHAN

APSPS-APMS Symposium: Myopia—Epidemiology, Prevention, and Treatment

11:00 - 12:30 Venue: S224-S225
Chair(s): Ian MORGAN, Calvin PANG, Jason YAM

11:00 The Biological Basis of Myopic Refractive Error
Ian MORGAN

11:10 TBC
Regan ASHY

11:20 Precision Medicine for Myopia
Seang Mei SAW

11:30 Clinical Imaging in Myopia
Anthony KUO

11:40 The Biological Basis of Myopic Refractive Error
Audrey CHIA

11:50 Orthokeratology Versus Atropine for Myopia Control: Comparing Pros and Cons
Helen SWARBRICK
Prevention of Blindness

Empowering Prevention of Blindness for Fighting Major Causes of Visual Impairment and Low Vision

11:00 - 12:30  Venue: S426-S427  
Chair(s): Nathan CONGDON, Ailian HU, Emmy LI

11:00  Eradication of Cataract Blindness: An Impossible Dream?  
Pak-Chin CHOW

11:15  Improving Urgent Ophthalmic Care: Triaging Ophthalmic Emergencies With a 4-Parameter Tool Embedded in an Emergency Department’s Electronic Health Record System  
Farhan MERALI

11:25  Tribal Odisha Eye Disease Study. Vitamin A Deficiency in Children in Rayagada District  
Taraprasad DAS

11:35  The Progress of Eye Health in China  
Jialiang ZHAO

11:45  Creating Eye Care Access Through Vision Centers  
Usha KIM

11:55  Family-Based Group Evaluation of Vision in Promoting Eye Care Utilization  
Yuanbo LIANG

12:05  Children’s Eye Health in China  
Ailian HU

12:15  New Model of Remote DM Eye Care  
Yih-Shiou HWANG

12:25  Panel Discussion

Refractive Surgery

Treatment and Detection of Ectasia and Keratoconus
This symposium will deal with the treatment and detection of ectasia. The earliest diagnostic evidence to confirm corneal ectasia and keratoconus, together with the most innovative emerging ways to solve this important and frequent problem in refractive and corneal surgery, will be outlined. The discussion following the symposium will highlight the most relevant aspects of this topic.

09:00 - 10:30  Venue: Theatre 2  
Chair(s): Jorge ALIO, Arthur CHENG, Vishal JHANJI

09:00  Stiffness Parameters in Corneal Ectasia  
Yan WANG

09:10  Keratoconus Screening With Corvis Index  
Vishal JHANJI

09:20  Planning the Topo-Guided Ablation in Keratoconus  
Arthur CHENG

09:30  IOL Implantation in Keratoconus  
Johnny MOORE

09:40  Tissue Addition to Treat Ectasia  
Xingtao ZHOU

09:50  Post-LASIK Ectasia: Risk Factors  
Shahzad MIAN

10:00  Corneal Topography and Other LASIK Risk Assessment Systems: How Reliable Are They?  
Gaurav PRAKASH

10:10  Tissue Addition for Treatment of Keratoconus  
Alejandro NAVAS

10:20  Corneal Stromal Regeneration With Cell Therapy in Advanced Keratoconus Patients  
Jorge ALIO

Presbyopia Treatment: What Is on the Horizon
In this symposium, presentations will be focused on various approaches to presbyopic correction. Both corneal and lenticular approaches will be discussed. Handling of unhappy Prelex patients will also be covered.

11:00 - 12:30  Venue: Theatre 2  
Chair(s): Robert ANG, Arthur CHENG, Ronald KRUEGER

11:00  Supracor Presbyopic LASIK: Should We Go Monolateral or Bilateral?  
Robert ANG

11:12  Scleral and Intralenticular Solutions for Presbyopia Correction  
Ronald KRUEGER

11:24  The Unhappy Prelex Patient  
Arulmozhi VARMAN

11:36  Presby-LASIK  
Klaus DITZEN

11:48  Presbyopia Treatment by LASIK  
Minoru TOMITA

12:00  Lenticules Derived From Small Incision Lenticule Extraction for Presbyopia Correction  
Yu-Chi LIU

12:12  Multifocal IOL in Presbyopia Treatment  
John CHANG
**Retina (Medical)**

**Diabetic Retinopathy and DME**

09:00 - 10:30  **Venue: S221**

*Chair(s): Ava HOSSAIN, Danny NG, Mingzhi ZHANG*

09:00  Arthur Lim Lecture: Deep Learning for Diabetic Retinopathy Screening: Just the Tip of an Artificial Intelligence Iceberg in Ophthalmology and Medicine

*Paisan RUAMVIBOONSUK*

09:15  Comparison of Panretinal Photocoagulation to Anti-VEGF Therapy for Proliferative Diabetic Retinopathy

*Neil BRESSLER*

09:25  Spectrum of Eye Disease in Diabetes: The SPEED Study

*Taraprasad DAS*

09:35  Circulating miRNA in Diabetic Retinopathy

*Tengku KAMALDEN*

09:45  Diabetic Maculopathy: Macular Edema, Ischemic Maculopathy, and DM RPE-Pathy

*Suk Ho BYEON*

09:55  Macular Vascular Density in Diabetic Retinopathy (Measured by OCT Angiography)

*Hiroko TERASAKI*

10:05  Segmentation for Tractional Retinal Detachment in Advanced Diabetic Eye Disease

*Hussain KHAQAN*

10:15  Panel Discussion

**Retina (Surgical)**

**Surgical Video Case Conference**

This surgical video case conference will be informational and fun. It takes time, effort, and pain to accumulate surgical expertise. Useful tips during surgery could be a game-changer and could dramatically enhance managing capabilities for your patients. Do not miss this opportunity to learn from the experts in the various clinical scenarios. You will enjoy the cutting-edge videos in this session.

11:00 - 12:30  **Venue: S221**

*Chair(s): Yuichiro OGURA, Ian WONG, Wei-Chi WU*

11:00  Advanced Internal Limiting Membrane Flap Techniques in Macular Surgery

*Tzyy-Chang HO*

11:10  Macular Buckling Surgery

*Chairat SAOVAPRUT*

11:20  Scleral Tunnel Fixation of Dropped IOL

*Nicholas FUNG*

11:30  Challenging Diabetic Vitrectomies

*Yuichiro OGURA*

11:40  Surgical Techniques and Outcomes of 27-Gauge Vitrectomy for Primary Retinal Detachment

*Makoto INOUE*

11:50  Management of Complicated Retinopathy of Prematurity

*Wei-Chi WU*

12:00  Surgical Treatment for High Myopic Retinopathy

*Andrew CHANG*

12:10  Retinal Cannulation in Eyes With Retinal Vein Occlusion

*Kazuaki KADONOSONO*

12:20  Panel Discussion

**Visual Sciences**

**APSEG Symposium on Glaucoma Genetics**

09:00 - 10:30  **Venue: S228**

*Chair(s): Subhabrata CHAKRABARTI, Carol CHEUNG, Janey WIGGS*

09:00  Glaucoma PheWAS

*Janey WIGGS*

09:11  Pharmacogenetics of Glaucoma

*Pirro HYSI*

09:22  Oxidative Stress Markers and Glaucoma: Is There a Link?

*Liza Sharmini TAJUDIN*

09:33  The Heritability of Phenotypes Related to Primary Angle Closure Glaucoma

*Chunyan QIAO*

09:44  Molecular Genetics of POAG, Especially SIX6 Gene Involvement in the Pathogenesis

*PSUNDARESAN*

09:55  Role of Gene-Gene Interactions in the Pathogenesis of Primary Open Angle Glaucoma

*Subhabrata CHAKRABARTI*

10:06  TBC

*Jamie CRAIG*

10:17  Molecular Genetics of POAG

*Zhenglin YANG*
APSEG Symposium on Retinal Diseases

11:00 - 12:30  Venue: S228
Chair(s): Li Jia CHEN, Chunqiao LIU

11:00  TBC
Chunqiao LIU

11:15  New Genes for Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy
Li Jia CHEN

11:30  High-Fat Diet and Retinal Pathogenesis
Yoko OZAWA

11:45  Identifying Biomarkers for Retinal Vascular Disease by Vitreous Protein Profiling
Inderjeet KAUR

12:00  GUCA1A Mutation Causes Central Areolar Choroidal Dystrophy
Chen ZHAO

12:15  Genetics and Biology of HTRA1 in Age-Related Macular Degeneration
Tsz-Kin NG

11:25  Creating Goals and Objectives
Efren LAXAMANA

11:35  Matching Delivery Formats
Eduardo MAYORGA

11:45  Assessing Effectively
Ana PALIS

11:55  The 3 Learning Golden Questions
Helena FILIPE

12:05  Concluding Comments
Karl GOLNIK

Feb 09, 2018 (Fri)

Academia, Research, Teaching & Education in Ophthalmology

ICO Continuing Professional Development Course: Creating Learning Experiences With Impact
Rapid developments in medicine, increasing medical professional scrutiny, public demands, and heavy professional workload have increased the need for effective continuing professional development (CPD). This symposium will focus on the learning cycle and how it promotes effective learning by addressing designing, implementing, and assessing learning experiences to successfully bridge learning gaps. Participants shall be able to select which methods of needs assessment, instructional design, and assessment strategies will fit best their educational practice. This session will be conducted in Putonghua.

11:00 - 12:30  Venue: S223
Chair(s): Helena FILIPE, Karl GOLNIK, Ana PALIS

11:00  Opening, Agenda, Goals, and Objectives
Karl GOLNIK

11:05  Describing the Effective CPD Activity
Ching-Yao TSAI

11:15  Conducting a Needs Assessment
Heather MACK

11:25  Creating Goals and Objectives
Efren LAXAMANA

11:35  Matching Delivery Formats
Eduardo MAYORGA

11:45  Assessing Effectively
Ana PALIS

11:55  The 3 Learning Golden Questions
Helena FILIPE

12:05  Concluding Comments
Karl GOLNIK

APA-AAPPO Symposium: Lessons, Challenges and Experience in Conducting Collaborative Multi-Center Studies in Asia

14:30 - 16:00  Venue: S224-S225
Chair(s): Timothy LAI, Charles MCGHEE

14:30  Multicenter Trial on PCV
Gemmy CHEUNG, Timothy LAI

14:42  Fight Retinal Blindness Project
TBC

14:54  Deep Eye Learning Study
Daniel TING

15:06  Asian Eye Epidemiology Consortium
Ching-Yu CHENG, Jost JONAS

15:18  Angle-Closure Glaucoma Genetic Consortium
Tin AUNG, Ningli WANG

15:30  Asian Eye Genetics Consortium
Paul BAIRD, Takeshi IWATA

15:42  International Ocular Sarcoidosis Working Group
Manabu MOCHIZUKI

APA-ICO Sessions for Educators: E-Learning Principles and Resources
This course will introduce participants to general principles of e-learning and will provide them with useful and practical e-learning resources for teaching and learning.

16:30 - 18:00  Venue: S223
Chair(s): Eduardo MAYORGA, Ana PALIS

16:30  General Principles of E-Learning (Benefits and Disadvantages of Online vs In-Person Activities, Asynchronous vs Synchronous, Evidence of Efficiency of E-Learning)
Eduardo MAYORGA
16:42 The ICO E-Resources for Teaching, Learning, and Assessing  
*Ana PALIS*

16:54 The American Academy of Ophthalmology  
ONE Network  
*Kelvin CHONG*

17:06 Other Online Resources for CME  
*Helena FILIPE*

17:18 Mobile Learning: Useful Apps for Ophthalmologists  
*Dexter LEUNG*

17:30 How to Create an E-Portfolio for Teaching and Learning  
*Heather MACK*

17:42 The Flipped Classroom  
*Karl GOLNIK*

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**Cataract**

**COS Symposium: New Advances in Technology for Cataract Surgery**

In China, as is the trend all over the world, many cataract surgeons are interested in the application of new technology, accuracy and safety, and the treatment of complicated cases or complications of cataract surgery, and so on. In this session, Chinese professors will introduce their clinical studies on FLACS, complicated refractive cataract surgery, biomechanical characteristics of incisions, diabetic cataract, and pediatric cataract. This session will be conducted in Putonghua.

09:00 - 10:30  
**Venue: S421**  
**Chair(s): Weirong CHEN, Yi LU**

09:00 Large Sample Clinical Study on FLACS  
*Ke YAO*

09:15 The Treatment of Complicated Refractive Cataract Surgery  
*Jinsong ZHANG*

09:30 The Study of Corneal Biomechanical Characteristics of Cataract Surgical Incisions  
*Xin TANG*

09:45 Diabetic Cataract  
*Hongsheng BI*

10:00 The Identification and Treatment of High IOP During Cataract Surgery  
*Yi LU*

10:15 Fighting Pediatric Cataract: The 8-Year Experience of CCPMOH  
*Weirong CHEN*

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**Ophthalmic Premier League**

The Ophthalmic Premier League (OPL) symposium is akin to the American football league games but with a difference as the OPL is connected to ophthalmology. There will be 4 teams with 4 captains. Each team will sport their team jersey. Each team will have totally 4 members. Each team member will be given 4 minutes to show his/her most challenging cataract/complicated cataract case through videos. An automatic response system, if present, will allow the audience to vote for their favorite team. The judges will also be deciding on the winners. The categories are best entertainer, best video, and best team. The winning team will be awarded the APAO-OPL trophy.

11:00 - 12:30  
**Venue: Hall 5G**  
**Chair(s): Amar AGARWAL, Ke YAO**  
**Chairman: John CHANG**  
**Chairman: Charles MCGHEE**  
**Judge: Ronald KRUEGER**  
**Judge: Hugh TAYLOR**  
**Match Referee: Pichit NARIPTHAPHAN**  
**Match Referee: Bennie JENG**  
**Umpire: Vishal JHANJI**  
**Umpire: Victoria WONG**

11:00 Challenging Cataract/Complicated Cataract Case 1 (Accommodators Team)  
*George BEIKO*

11:04 Challenging Cataract/Complicated Cataract Case 2 (Accommodators Team)  
*Ronald YEOH*

11:08 Challenging Cataract/Complicated Cataract Case 3 (Accommodators Team)  
*Hungwon TCHAH*

11:12 Challenging Cataract/Complicated Cataract Case 4 (Accommodators Team)  
*Toshihiko OHTA*

11:16 Challenging Cataract/Complicated Cataract Case 1 (Multifocal Team)  
*Jorge ALIO*

11:20 Challenging Cataract/Complicated Cataract Case 2 (Multifocal Team)  
*Burckhard DICK*

11:24 Challenging Cataract/Complicated Cataract Case 3 (Multifocal Team)  
*Robert ANG*

11:28 Challenging Cataract/Complicated Cataract Case 4 (Multifocal Team)  
*Tetsuro OSHIKA*

11:32 Challenging Cataract/Complicated Cataract Case 1 (Divide and Conquer Team)  
*Mohan RAJAN*
SCIENTIFIC PROGRAM SCHEDULE
INVITED SYMPOSIUMS
FEB 9

11:36 Challenging Cataract/Complicated Cataract Case 2 (Divide and Conquer Team) 
Gaurav LUTHRA

11:40 Challenging Cataract/Complicated Cataract Case 3 (Divide and Conquer Team) 
Athiya AGARWAL

11:44 Challenging Cataract/Complicated Cataract Case 4 (Divide and Conquer Team) 
Yassine DAOUD

11:48 Challenging Cataract/Complicated Cataract Case 1 (Capsular Bag Team) 
Samaresh SRIVASTAVA

11:52 Challenging Cataract/Complicated Cataract Case 2 (Capsular Bag Team) 
Soon-Phaik CHEE

11:56 Challenging Cataract/Complicated Cataract Case 3 (Capsular Bag Team) 
Rohit OM PARKASH

12:00 Challenging Cataract/Complicated Cataract Case 4 (Capsular Bag Team) 
Mun Wai LEE

Thinking Out of the Bag

14:30 - 16:00 Venue: Hall 5G 
Chair(s): George BEIKO, Soon-Phaik CHEE

14:30 Performing a Primary Posterior Continuous Curvilinear Capsulorhexis With Femtosecond Laser 
Burckhard DICK

14:45 Optic Capture to Manage Dysphotopsia 
George BEIKO

15:00 Indications for Primary Posterior Continuous Curvilinear Capsulorhexis 
Soon-Phaik CHEE

15:15 Perfect Anterior Capsulorhexis for a Perfect Posterior Capsulorhexis 
Gaurav LUTHRA

15:30 Is Posterior Polar Cataract a Posterior Capsule Malformation? 
Bryan LIN

15:45 Management of Posterior Capsule Troubles 
Tetsuro OSHIKA

Femtosecond Laser in Cataract Surgery

16:30 - 18:00 Venue: Hall 5G 
Chair(s): Tommy CHAN, Tim ROBERTS

16:30 Femtosecond Lasers in Cataract Surgery 
Tim ROBERTS

16:43 OCT-Guided Femtosecond Technology for Cataract, Corneal Ring, LASIK, and Corneal Pocket 
Minoru TOMITA

16:56 Challenging Moments on the LRCS Platform 
Chitra RAMAMURTHY

17:09 Femtosecond Laser Cataract Surgery: Is There Any Benefit? 
Colin CHAN

17:22 Femtosecond Laser-Assisted Arcuate Keratotomy and Cataract Surgery 
Tommy CHAN

17:35 Femto Phaco 
Marcus ANG

17:48 Femtosecond Laser-Assisted Cataract Surgery 
Darby MILLER

Cornea, External Eye Diseases & Eye Bank

ACS Symposium: Endothelial Keratoplasty in 2018
Endothelial keratoplasty, the current gold standard for endothelial replacement, continues to evolve. This symposium examines current surgical challenges in Descemet stripping automated keratoplasty (DSEK) and the newer iteration of EK, Descemet membrane endothelial keratoplasty (DMEK), with emphasis on the management of complex cases, new approaches to intraoperative imaging, and novel surgical techniques of DSEK, DMEK, and Descemet transplantation on the horizon for 2018.

09:00 - 10:30 Venue: Hall 5G 
Chair(s): Sanjay PATEL, Donald TAN, Evan YIU

09:00 Avoiding and Dealing With Endothelial Transplant Surgical “Disasters” 
Charles MCGHEE

09:10 DMEK or DSEK, That is the Question 
Sanjay PATEL

09:20 Hybrid DMEK for Complicated Cases 
Donald TAN

09:30 DSEK in Glaucoma Patients 
Ming-Cheng TAI

09:40 Intraoperative OCT (RESCAN700) for DSAEK/DMEK 
Akira KOBAYASHI

09:50 Advances in Intrasurgical OCT 
Anthony KUO

10:00 Descemet Transplantation for Fuchs Dystrophy 
Jodhibir MEHTA
Anterior Lamellar Keratoplasty: Managing Complex Cases and Complications

11:00 - 12:30  Venue: S421
Chair(s): Gordon CHAU, Wei CHEN, Srinivas RAO

11:00  DALK in Keratoconus  
Jagadesh REDDY

11:12  Managing Perforation in DALK Surgery  
Rajesh FOGLA

11:24  DALK Complications  
Srinivas RAO

11:36  DALK in Difficult Clinical Situations  
Namrata SHARMA

11:48  Long-Term Preserved Corneas for DALK  
Wei CHEN

12:00  Phototherapeutic Keratectomy for Superficial Corneal Dystrophies  
Rupal SHAH

12:12  Panel Discussion

Penetrating and Tectonic Corneal Transplantation
Penetrating keratoplasty remains the main surgical method of corneal transplantation for restoring integrity of the eye after corneal or ocular insult. Tectonic keratoplasty may be challenging in eyes with abnormally thinned or perforated corneas, with changes to clinical management to be made other than modifications to surgical technique. This symposium will highlight various surgical considerations for tectonic keratoplasty and complex penetrating keratoplasty scenarios.

14:30 - 16:00  Venue: S421  
Chair(s): Marcus ANG, Charles MCGHEE

14:30  Tectonic Corneal Transplant Overview  
Charles MCGHEE

14:40  Surgical Options for Management of Corneal Perforation  
Rasik VAJPAYEE

14:50  Peripheral Ulcerative Keratitis: Diagnosis and Management  
Somasheila MURTHY

15:00  Combination Penetrating Keratoplasty With Pars Plana Vitrectomy Surgery  
William MIELER

15:10  Pediatric Considerations in Corneal Transplant  
Rasha AL-TAIE

15:20  Indications, Outcomes, and Risk Factors for Failure in Tectonic Keratoplasty  
Marcus ANG

15:30  Femtosecond Keratoplasty  
Bhupesh SINGH

15:40  Panel Discussion

Glaucoma Imaging: From Structure to Function

09:00 - 10:30  Venue: Theatre 1  
Chair(s): Tin AUNG, Ki Ho PARK, Kazuhisa SUGIYAMA

09:00  How to Improve the Structure-Function Relationship in Glaucoma?  
Ryo ASAOKA

09:10  How Does Ganglion Cell Analysis Help You in Glaucoma Clinic?  
Ki Ho PARK

09:20  OCT Angiography in Glaucoma  
Kazuhisa SUGIYAMA

09:30  Clinical Evaluation of Retinal Blood Flow in Glaucoma by OCTA  
Xinghuai SUN

09:40  Evaluation of Bleb Fluid After Baerveldt Glaucoma Implantation Using Magnetic Resonance Imaging  
Masaru INATANI

09:50  Anatomical Changes in the Glaucomatous Optic Nerve Head  
Jost JONAS

10:00  Contrast Sensitivity in Glaucoma  
David EVANS

10:10  An Exponential Regression Model to Measure Perimetric Rates of Decay in Glaucoma  
Suria SUDHAKARAN

10:20  Visual Evoked Potentials in Glaucoma Assessment  
Tania TAI

Interdisciplinary Discussion: Glaucoma and Retinal Diseases
As we all know, glaucoma and retinal diseases are closely related. On one hand, we often see glaucoma secondary to retinal diseases in clinical practice. On the other hand, we may encounter glaucoma cases whose treatment needs the help of retinal surgeons. This symposium will discuss the most controversial topics in cases involving both glaucoma and retinal diseases, hoping to provide new inspirations.
11:00 - 12:30  Venue: Theatre 1
Chair(s): Suber HUANG, Xiulan ZHANG

11:00 How to Protect Conjunctiva During Vitreo-Retinal Surgeries? How to Suture Conjunctiva Following Scleral Buckling (For Future Glaucoma Surgery)? Would 23G/25G PPV Provide More Benefit for Future Glaucoma Surgery?

11:02 Panel Discussion
Tin AUNG
Keith BARTON
Andrew CHANG
Kenneth FONG
Christopher LEUNG
Jeffrey LIEBMANN
William MIELER
Ki Ho PARK
Nishant RADKE
Paisan RUAMVIBOONSUK
Ningli WANG
Ian WONG


11:24 Panel Discussion
Tin AUNG
Keith BARTON
Andrew CHANG
Kenneth FONG
Christopher LEUNG
Jeffrey LIEBMANN
William MIELER
Ki Ho PARK
Nishant RADKE
Paisan RUAMVIBOONSUK
Ningli WANG
Ian WONG

11:44 Do We Still Need to Perform Anti-Glaucoma Surgery to NVG Patients Who Had Decreased IOP Following Anti-VEGF Treatment or Retinal Photocoagulation? When Is the Best Timing for Surgical Intervention Following Anti-VEGF Treatment? For Ocular Ischemic Syndrome Secondary to NVG, What Should We Do if Anti-Glaucoma Surgery Is Needed?

11:46 Panel Discussion
Tin AUNG
Keith BARTON
Andrew CHANG
Kenneth FONG
Christopher LEUNG
Jeffrey LIEBMANN
William MIELER
Ki Ho PARK
Nishant RADKE
Paisan RUAMVIBOONSUK
Ningli WANG
Ian WONG

12:06 For Malignant Glaucoma Which Is the Better Treatment: Phaco-IOL Plus Anterior Vitrectomy (Through Anterior Chamber) or 23G/25G PPV Plus Phaco-IOL?

12:08 Panel Discussion
Tin AUNG
Keith BARTON
Andrew CHANG
Kenneth FONG
Christopher LEUNG
Jeffrey LIEBMANN
William MIELER
Ki Ho PARK
Nishant RADKE
Paisan RUAMVIBOONSUK
Ningli WANG
Ian WONG

Panel: Angle Closure

14:30 - 16:00  Venue: Theatre 1
Chair(s): Dexter LEUNG, Prin ROJANAPONGPUN, Ningli WANG

14:30 Angle Closure Glaucomas. In Search of the Descriptor’s Holy Graal
Helena FILIPE

14:40 Anterior Segment Imaging in Angle Closure Glaucoma
Rajesh KUMAR

14:50 Laser for Angle Closure Glaucoma With Multiple Mechanisms and the Role of Choroid
Shida CHEN

15:00 Laser Peripheral Iridotomy vs the Alternatives in Primary Angle Closure Disease
Shamira PERERA

15:10 MIGS Procedures for Primary Angle Closure
Kazuhiko MORI

15:20 Goniosynechialysis for Angle Closure Disease
Rahat HUSAIN
15:30  Surgical Management of Primary Angle Closure Glaucoma
       
       *Clement THAM*

15:40  Primary Angle Closure Glaucoma: What We Know and What We Don’t Know
       
       *Xinghuai SUN*

15:50  Panel Discussion

**APGS Symposium: Glaucoma Surgery—What We Need to Know Now for the Future?**
What do we, practicing ophthalmic surgeons, need to know about glaucoma surgery now? This Asia-Pacific Glaucoma Society (APGS) symposium offers sophisticated, contemporary answers to the question from various aspects of glaucoma surgeries such as MIGS, GDDs, combined surgery, etc. The audience can enjoy and learn a variety of new techniques and ideas regarding glaucoma surgery that will help their practice in the future.

16:30 - 18:00  **Venue: Theatre 1**
*Chair(s): Paul CHEW, Seng-Kheong FANG, Tetsuya YAMAMOTO*

16:30  Uneasy Partners: Glaucoma and Refractive Surgery
       
       *Clement THAM*

16:40  For Extremely Refractory Glaucoma—What Else Can We Do?
       
       *Xiulan ZHANG*

16:50  New Devices for Old Ideas. Does MIGS Have a Future?
       
       *Paul HEALEY*

17:00  Seven Easy Steps for Glaucoma Drainage Surgery
       
       *Nazrul ISLAM*

17:10  Collagen Matrix, a Trusted Friend to Filtering Surgery?
       
       *Visanee TANTISEVI*

17:20  Influence of Long-Term AGMS on Outcomes of Glaucoma Surgery
       
       *Lingam VIJAYA*

17:30  Achieving Better Outcomes in Combined Cataract and Filtration Surgery
       
       *Prin ROJANAPONGPUN*

17:40  Will the Main Indications for Glaucoma Surgery Change in Future?
       
       *Frances MEIER-GIBBONS*

17:50  Questions and Answers

**Intraocular Inflammation, Uveitis & Scleritis**

Clinical Considerations of Scleritis: From Grading to Treating

11:00 - 12:30  **Venue: S426-S427**
*Chair(s): Uwe PLEYER, Denis WAKEFIELD*

11:00  Distinguishing and Grading Scleritis Subsets
       
       *Sapna GANGAPUTRA*

11:15  Immunopathology of Scleritis
       
       *Peter MCCLUSKEY*

11:30  Systemic Disease Associations of Scleritis: What Are They? How Are They Diagnosed?
       
       *Denis WAKEFIELD*

11:45  Management of Noninfectious Scleritis
       
       *Uwe PLEYER*

12:00  Diagnosis and Treatment of Infectious Scleritis
       
       *Vishali GUPTA*

12:15  Peripheral Ulcerative Keratoscleritis
       
       *Somasheila MURTHY*
AAPPO Academic Development Mentorship Scheme & APVRS Leadership Development Program: Meeting the Masters and Keynote Lecture

The “Meeting the Masters Forum and Keynote Lecture” is the highlight of the AAPPO Academic Development Mentorship Scheme and the APVRS Leadership Development Program. Prominent ophthalmic experts will serve as panelists (masters) and share their experience, perspective, and advice on their own leadership journey. The floor will also be opened for questions in the latter half of the forum. Following the interactive forum will be a motivational keynote lecture by ICO President Prof Hugh Taylor. We hope that this session will inspire young ophthalmologists by shedding some light on how to successfully develop as a leader.

16:30 - 18:00  Venue: S224-S225
Chair(s): Neil BRESSLER, Jost JONAS, Dennis LAM

16:30  Panel Discussion
Sarah COUPLAND
Suher HUANG
Martine JAGER
Charles MCGHEE
Richard PARRISH
Sobha SIVAPRASAD
Hugh TAYLOR
Clement THAM
Ningli WANG
Tien-Yin WONG

17:40  Keynote Lecture
Hugh TAYLOR

Pediatric Neuro-Ophthalmology

The combination of neuro-ophthalmology and pediatrics has always been a challenge for most ophthalmologists. This symposium provides an overview of various commonly encountered pediatric neuro-ophthalmic conditions of both afferent and efferent pathways. International experts will share practical approaches in the management of pediatric patients who come with disc anomalies, disc swelling, or nystagmus. Attendees of this symposium will be better equipped for future management of this group of patients.

16:30 - 18:00  Venue: N201A
Chair(s): Jonathan HO, Jeong-Min HWANG, Klara LANDAU

16:30  Neuro-Ophthalmologic Examination in Children
Satoshi KASHII

16:42  Congenital Optic Disc Anomalies
Patrick YU-WAI-MAN

16:54  Swollen Optic Discs in Children
Klara LANDAU

17:06  Cortical Visual Loss in Children
An-Guor WANG

17:18  Congenital Cranial Dysinnervation Disorders
Jeong-Min HWANG

17:30  Nystagmus in Children
Neil MILLER

17:42  Panel Discussion

Ocular Imaging

Emerging Ocular Imaging Technologies: From Bench to Bedside

09:00 - 10:30  Venue: N201B
Chair(s): Leopold SCHMETTERER, Yoshiaki YASUNO, Xinyuan ZHANG

09:00  Adaptive Optics Retinal Imaging
Fred CHEN
09:12 Multimodal Imaging
Adrian Koh

09:24 Structural and Functional Imaging for Whole-Eye Transplantation
Kevin Chan

09:36 New Choroidal Imaging Techniques
Taiji Sakamoto

09:48 Multifunctional Optical Coherence Tomography Angiography: Simultaneous Imaging of Pigment and Flow
Yoshiaki Yasuno

10:00 Ultrawidefield OCT
Leopold Schmetterer

10:12 Automatic Assessment of Biometric Parameters in Optic Nerve Head Area
Xiulan Zhang

What’s New in Glaucoma Imaging?
Novel imaging technologies and new insights into the diagnosis and biology of glaucoma disease will be shared.

14:30 - 16:00 Venue: N201B
Chair(s): Carol Cheung, Neeru Gupta, Ki Ho Park

14:30 Evidence for Cerebrospinal Fluid Entry Into the Optic Nerve via a “Glymphatic” Pathway: Implications for Glaucoma
Neeru Gupta

14:42 In Vivo Trabecular Meshwork Morphology in Congenital Glaucoma, Juvenile, and Adult-Onset Open Angle Glaucoma
Viney Gupta

14:54 Glaucoma Diagnosis With Imaging: Macular GCIPL vs Circumpapillary RNFL Assessment
Jin Wook Jeoung

15:06 How to Read Automated Static Perimetry: 5 Rings Hidden in the Humphrey
Satoshi Kashii

15:18 Glaucoma Imaging
Atsuya Miki

15:30 The Implications From Comparison of OCT Angiography in Patients With Glaucoma and NAION
Henry Chen

15:42 Panel Discussion

Ocular Oncology & Pathology

APSOOP Symposium: What Is Hot in Ocular Oncology
14:30 - 16:00 Venue: S226-S227
Chair(s): Santosh Honavar, Timothy Sullivan, Hunter Yuen

14:30 What Is Hot in Eyelid Tumors
Hunter Yuen

14:40 What Is Hot in Ocular Surface Tumors
Fairooz Manjandavida

14:50 What Is Hot in Lymphoproliferative Lesions of the Orbit and Adnexa
Timothy Sullivan

15:00 What Is Hot in Orbital Tumors
Santosh Honavar

15:10 What Is Hot in Retinoblastoma
Nathalie Cassoux

15:20 What Is Hot in Uveal Melanoma
Tero Kivela

15:30 What Is Hot in Intraocular Lymphoma
Stefan Seregard

15:40 What Is Hot in Vascular Tumors of the Uvea and Retina
Arun Singh

Retinoblastoma
This session introduces the most updated knowledge, health care, and research for retinoblastoma, the most prevalent pediatric intraocular cancer worldwide. The lectures will include the classification, diagnosis, histology, management, treatment, as well as genetics for retinoblastoma in Asia-Pacific regions and in Europe. Challenges and perspectives of retinoblastoma management and treatment will also be discussed.

16:30 - 18:00 Venue: S226-S227
Chair(s): Santosh Honavar, Bin Li, Tsz-Kin Ng

16:30 Genetics in Retinoblastoma
Vikas Khetan

16:40 Retinoblastoma in Neonates
Tero Kivela

16:50 Retinoblastoma in Indonesia
Rita Sitorus

17:00 Management of Advanced Retinoblastoma: Current Perspectives
Santosh Honavar
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>17:10</td>
<td>Histopathological Changes of RB Eyeballs After Vitrectomy</td>
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<td>Bin LI</td>
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<td>17:20</td>
<td>Challenges in the Management of RB: The Indian Experience</td>
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<td>Bhavna CHAWLA</td>
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<td>17:30</td>
<td>Retinoblastoma Treatment</td>
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<td>Junyang ZHAO</td>
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<td>17:40</td>
<td>Socket Outcomes in Retinoblastoma Treatment</td>
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<td>Gangadhara SUNDAR</td>
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<td>Panel Discussion</td>
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<td><strong>Ophthalmic Epidemiology</strong></td>
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<td><strong>New Ideas in the “Digital Epidemiology” Era</strong></td>
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<td>Universal electronic records, large complex datasets, and artificial intelligence (AI) technology are set to transform healthcare and provide new opportunities for epidemiological research. This session will discuss trends in digital epidemiology, including collecting data using digital platforms, big data analytics, use of AI to diagnose and screen diseases, and the future challenges in these areas.</td>
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<td>11:00</td>
<td>Venue: S423-S424</td>
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<td>Chair(s): David FRIEDMAN, Tien-Yin WONG</td>
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<td>11:00</td>
<td>Artificial Intelligence and Ophthalmology</td>
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<td>Tien-Yin WONG</td>
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<td>11:10</td>
<td>Using Electronic Medical Records to Carry Out Epidemiological Research on Treated Populations</td>
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<td>David FRIEDMAN</td>
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<td>11:20</td>
<td>A Real-World Study on AI-Based Opportunistic Screening</td>
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<td>Mingguang HE</td>
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<td>11:30</td>
<td>QOL Item Bank: A New Way to Conduct Patient-Centered Research</td>
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<td>Ecosse LAMOUREUX</td>
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<td>11:40</td>
<td>FitSight Fitness: A New Way to Monitor and Promote Outdoors to Prevent Myopia</td>
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<td>Seang Mei SAW</td>
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<td>DR Screening in Rural China</td>
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<td>Nathan CONGDON</td>
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<td>12:00</td>
<td>ROP Screening in India</td>
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<td>Vikas KHETAN</td>
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<td>12:10</td>
<td>Panel Discussion</td>
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<td><strong>Big Data and Collaborative Consortium on Ophthalmology</strong></td>
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<td><strong>Chair(s): Ching-Yu CHENG, Ka Wai KAM, Yuanbo LIANG</strong></td>
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<td>16:30</td>
<td>My Big Data Studies in Asia</td>
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<td>Jost JONAS</td>
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<td>16:40</td>
<td>Asian Eye Epidemiology Consortium (AEEC)</td>
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<td>Ching-Yu CHENG</td>
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<td>16:50</td>
<td>Plano: Modernizing Myopia Research and Eye Health Service Delivery</td>
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<td>Mohamed DIRANI</td>
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<tr>
<td>17:00</td>
<td>Big Data and Ophthalmology</td>
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<td>Jonathon NG</td>
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<tr>
<td>17:10</td>
<td>9-Province National Eye Survey in China</td>
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<tr>
<td></td>
<td>Jialiang ZHAO</td>
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<td>17:20</td>
<td>TBC</td>
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<td>Paul MITCHELL</td>
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<td>17:30</td>
<td>Deep Eye Study: A Deep Learning Study Group</td>
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<td>Gavin TAN</td>
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<tr>
<td>17:40</td>
<td>Panel Discussion</td>
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<tr>
<td></td>
<td><strong>Orbital &amp; Oculoplastic Surgery</strong></td>
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<tr>
<td></td>
<td><strong>Welcome to the APAO Oculoplastic Theatre: What I Recently Do Differently</strong></td>
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<td>The pace of innovation and technology transfer from industrial partners is rapid and is impacting the practice of oculoplastic surgery. An international panel of experts will present what recent innovations they have incorporated into their practice and how this has impacted patient care. The format will feature short bullet presentations of 8-10 minutes followed by group discussion.</td>
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<tr>
<td>11:00</td>
<td>Venue: N201A</td>
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<tr>
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<td>Chair(s): Edwin CHAN, Michael GRANT, Timothy SULLIVAN</td>
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<tr>
<td>11:00</td>
<td>Digital Workflow and 3D Printing in Orbital Reconstruction</td>
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<td>Michael GRANT</td>
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<tr>
<td>11:10</td>
<td>Use of Alexis Retractor for Lateral Orbitotomy and Lateral Thyroid Decompression</td>
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<td>Timothy SULLIVAN</td>
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<tr>
<td>11:20</td>
<td>Endoscopic Transnasal Removal of Small Tumor Deep in Orbit Apex</td>
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<td>Wencan WU</td>
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<tr>
<td>11:30</td>
<td>Surgical Treatment for Bleharosspasm</td>
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<tr>
<td></td>
<td>Michael YEN</td>
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</tbody>
</table>
SCIENTIFIC PROGRAM SCHEDULE

INVITED SYMPOSIUMS

FEB 9

11:40 3D-Reconstruction and Navigation-Assisted Orbital Decompression
Huifang ZHOU

11:50 Adorable Material for Blow Out Fracture Repair
Honglei LIU

12:00 Revisiting Anatomy - What I Have Missed Out During My Fellowship Days
Sunny SHEN

12:10 Panel Discussion

Office-Based Oculoplastic Procedures

14:30 - 16:00 Venue: N201A
Chair(s): Chaiteck CHOO, Aaron CHU, Peter DOLMAN

14:30 Office Eyelid/Eyelash Malposition Management
Preamjit SAONANON

14:42 Silicone Tube Intubation Using the Endoscope for Nasolacrimal Duct Stenosis
Jae Woo JANG

14:54 Noninvasive Management of Canaliculitis and Punctal Stenosis
Lakshmi MAHESH

15:06 Botulinum Injection in the Lacrimal Gland for Functional/Gustatory Epiphora
Peter DOLMAN

15:18 Orbital Soft Tissue Reconstruction by the Injection of Hyaluronic Acid
Wei LU

15:30 Office Eyelid Lesion Biopsy and Excision
Elaine CHEE

15:42 Office Ptosis Correction Procedure
Chaiteck CHOO

Current Concepts in Management of Pediatric Cataract

11:00 - 12:30 Venue: Theatre 2
Chair(s): James ELDER, Dorothy FAN, Sorot WUTTHIPHAN

11:00 Management of Lens in Microspherophakia
Ramesh KEKUNNAYA

11:11 Managing the Posterior Capsule
Sudarshan KHOKHAR

11:22 Cataract in Congenital Rubella Syndrome
Rita SITORUS

11:33 Primary IOL Implantation in Infant and Pediatric Cataracts
Dennis LAM

11:44 Real-World Data for Real-World Evidence in Pediatric Cataract Management
Kanwal NISCHAL

11:55 Pediatric Cataract Genetics
Chris HAMMOND

12:06 Aphakic Glaucoma
James ELDER

12:17 Traumatic Cataract in Childhood
Kazi ANWAR

The Management of Difficult Strabismus Made Easy
In this symposium, expert panel members will share their tips and pearls in the management of some difficult situations in strabismus. The audience will find these tips useful in their clinical practice.

09:00 - 10:30 Venue: Theatre 2
Chair(s): Gill ADAMS, Chuen KO, Miho SATO

09:00 Cranial Nerve Palsy in Children
Bhoompally Venkateshwar RAO

09:08 Traumatic Ocular Motility Problems
Cheryl NGO

09:16 How to Increase the Success Rate of Surgery for Intermittent Exotropia
Jeong-Min HWANG

09:24 Nonsurgical Management of Difficult Strabismus
Miho SATO

09:32 Squint Surgery in the Non-Standard Eye
Gill ADAMS

09:40 The Adjustable Harada-Ito
Chong-Bin TSAI

09:48 Sutures for Strabismus Surgery
Toshiaki GOSEKI

09:56 Infantile Esotropia and Its Management
Saurabh JAIN

10:04 Surgical Management of Complicated Strabismus After Functional Endoscopic Sinus Surgery
Jianhua YAN

10:12 Management of MED
Subhash DADEYA
**IPOSC Symposium: Restrictive Strabismus**
Restrictive strabismus is one of the most challenging conditions encountered by strabismus surgeons. A case-based approach to the evaluation and management of patients with restrictive strabismus will be presented. Specific topics to be covered include thyroid eye disease, strabismus associated with scleral buckles, Duane syndrome, strabismus associated with orbital fractures, wound closure concerns, and so on. A spectrum of approaches will be discussed, in a case-based format, with a focus on preoperative testing, surgical planning, and intraoperative assessment. Surgical techniques will be illustrated. Audience participation and discussion will be encouraged.

14:30 - 16:00  **Venue:** Theatre 2  
**Chair(s):** Sonal FARZAVANDI, Chun Yu KO, Scott LARSON

14:30  Getting Ready: Work-Up for Restrictive Strabismus  
**Giovanni MARCON**

14:39  Clinical Pearls for Strabismus Surgery in Patients With Thyroid Eye Disease  
**Dean CESTARI**

14:48  Is the Muscle Tight? Intraoperative Forced Duction Tests  
**Jonathan HOLMES**

14:57  Is the Double Trouble From the Buckle?  
**Scott LARSON**

15:06  Fighting the Double: Managing Strabismus After Blowout Fracture  
**Gill ADAMS**

15:15  S Duane: The Woman With Different Faces  
**Kozeis NIKOS**

15:24  How Do I Close the Wound? There Is No Conjunctiva!  
**Lim LI**

15:33  Potpourri of Cases and Panel Discussion  
**Sonal FARZAVANDI**

**WSPOS Symposium: Innovations and Disruptions in Pediatric Ophthalmology and Strabismus**

16:30 - 18:00  **Venue:** Theatre 2  
**Chair(s):** Wai-Ching LAM, Kanwal NISCHAL, Inez WONG

16:30  Surgical Tips for Pediatric Cataract  
**Yee Fong CHOONG**

16:42  Practical Approach to Syndromic Retinal Dystrophies  
**Arcot Sadagopan KARTHIKEYAN**

16:54  Steroid-Induced Glaucoma  
**Viney GUPTA**

17:06  Regenerative Therapy for Pediatric Endothelial Disease  
**Jodhbir MEHTA**

17:18  Corneal Reinnervation  
**Asim ALI**

17:30  Posttraumatic Strabismus Management  
**Bhoompally Venkateshwar RAO**

17:42  Pediatric Crosslinking  
**Vishal JHANJI**

**Empowering Prevention of Blindness Through Refining Priorities and Policies for Eye Health**
Globally, 253 million people are visually impaired, of whom 36 million are blind. An estimated 80% of all visual impairment can be prevented or treated. Effective strategies for prevention, health promotion, and early eye disease detection and treatment are prerequisites for a significant reduction of avoidable vision loss. Latest international experience and lessons learnt in substantially improving access to high quality comprehensive eye care will be presented addressing the major causes of avoidable vision impairment.

09:00 - 10:30  **Venue:** S426-S427  
**Chair(s):** Ivo KOCUR, Ningli WANG, Lin-Chung WOUNG

09:00  Combating Cataract Blindness: Where We Are and What Should Be Done Next  
**Ivo KOCUR**

09:08  Global Eye Health  
**Hugh TAYLOR**

09:16  Myopia Epidemics and Correction of Uncorrected Refractive Errors: A Public Health Challenge in Asia and Worldwide  
**Serge RESNIKOFF**

09:24  Ophthalmic Resources and Disease Burden in China  
**Ningli WANG**

09:32  Impact of Primary Eye Care (Vision Centers) in Rural Eye Care in India  
**Ravindran RAVILLA**

09:40  The Burden of Low Vision and an Integrated Model for Low Vision Care  
**Ching-Yao TSAI**

09:48  Analysis and Countermeasures of Visual Disabilities in Macao  
**Iat Fan LAI**

09:56  TBC  
**MC NAHATA**
10:04  Panel Discussion

COS Symposium: Prevention of Blindness in China—The Key Challenges in the Coming Decade
China has the largest population with blindness and low vision worldwide. With the development of the economy, the change in lifestyles, and population aging, the spectrum of eye disease is gradually changing, and chronic noninfectious eye diseases have become the main blinding eye diseases (cataract, glaucoma, diabetic retinopathy, ametropia, and so on). As these eye diseases have high prevalence in small cities and rural areas, the priority of blindness prevention should be improvement of eye care service capacity in primary level health facilities. This session will be conducted in Putonghua.

16:30 - 18:00  Venue: S426-S427  
Chair(s): Mingguang HE, Xinghuai SUN, Ningli WANG

16:30  National Survey on Ophthalmic Resources  
Ningli WANG

16:40  青光眼的慢病管理模式探讨  
To Explore the Management Model of Glaucoma as a Chronic Disease  
Xinghuai SUN

16:50  世界卫生组织西太平洋协作中心的使命和未来  
Mission and Future of WHO Collaborating Center in the Western Pacific  
Mingguang HE

17:00  Teleophthalmology and Strategies for Prevention of Blindness  
Ailian HU

17:10  天津市眼科医院光明行与一带一路建设  
Brightness Action of Tianjin Eye Hospital and the Belt and Road Initiative  
Xin TANG

17:20  Diabetic Retinopathy Screening and Management Programs in Shanghai  
Haidong ZOU

17:30  云南省眼科专科联盟与防盲  
Ophthalmology Alliance and Blindness Prevention in Yunnan Province  
Zhulin HU

17:40  眼健康与社区保健：机遇与挑战  
Eye Health and Community Health Care: Opportunities and Challenges  
Wenyong HUANG

17:50  Questions and Answers

**Refractive Surgery**

**Refractive Surgery With IOLs: My Top 5 Pearls**
Attendees will learn from experienced surgeons how to perform the most advanced and popular refractive intraocular lens (IOL) surgeries. They will also learn how to achieve the most accurate refractive results and which IOL is the best. The surgeons will also share with the audience their top 5 pearls in how to be best at that procedure.

09:00 - 10:30  Venue: Chancellor Room  
Chair(s): Jorge ALIO, Min CHANG, Ronald KRUEGER

09:00  Top 5 Pearls in Extended Depth of Focus IOLs  
Daniel BLACK

09:10  Top 5 Pearls in Managing Aphakia With Sutureless Scleral-Fixed IOLs  
Naresh BABU

09:20  Top 5 Pearls in Femtosecond Laser-Assisted Cataract Surgery  
Ronald YEOH

09:30  Top 5 Pearls in Optimizing Outcomes of Toric IOLs  
Tetsuro OSHIKA

09:40  Top 5 Pearls in Advanced Presbyopic IOLs  
David SMADJA

09:50  Top 5 Pearls in the Surgical Management of Subluxated Intraocular Lenses/Secondary Lens Implant/Suture Fixation of IOLs  
Yassine DAOUD

10:00  Top 5 Pearls in Refractive Lens Exchange  
Jorge ALIO

10:10  Top 5 Pearls in Managing Unhappy Post Cataract Patients  
Robert ANG

10:20  Panel Discussion

**Advances in Refractive Surgery**
In this session, the most advanced methods to achieve the best results in refractive surgery will be reported. The audience will also learn how to detect early ectasia with a new method as well as better intraocular lens (IOL) calculation for post refractive surgery.

14:30 - 16:00  Venue: Chancellor Room  
Chair(s): John CHANG, Srinivas RAO, Jerry TAN

14:30  Patient Reported Outcomes After Laser Vision Correction  
Julie SCHALLHORN

14:40  Refractive and Nanotechnologies: Nanodrops for Correction of Refractive Errors  
David SMADJA
14:50  MFIOL in Post-LASIK Patients  
  John CHANG  
15:00  The Role of AS-OCT in Refractive Surgery  
  Suphi TANERI  
15:10  IOL Calculations Post Refractive Surgery  
  Colin CHAN  
15:20  Topography (Corneal Wavefront) Guided PRK and TransPRK Combined With Crosslinking Treatment for Patients With Keratoconus  
  Jerry TAN  
15:30  Topographic Detection of Early Ectasia: A Novel Method  
  Jagadesh REDDY  
15:40  Predicting Modeling in Refractive Surgery  
  Rohit SHETTY  
15:50  Panel Discussion  

Controversies in Refractive Surgery  
16:30 - 18:00  Venue: Chancellor Room  
  Chair(s): Cordelia CHAN, Min CHANG, Andrzej GRZYBOWSKI  

16:30  Hyperopic Limits in Corneal Refractive Surgery  
  Vishal JHANJI  
16:39  LASIK vs PRK With Mitomycin C in High Myopia  
  Parag MAJMUDAR  
16:48  LASIK Enhancements: Recut, Relift, or Surface Ablate?  
  Cordelia CHAN  
16:57  Why SMILE  
  George CHENG  
17:06  Positioning Refractive Surgery as Primary Care for Vision Correction  
  Guy KEZIRIAN  
17:15  Sutureless Corneal Transplants and SMILE Endokeratophakia  
  Kishore PRADHAN  
17:24  Refractive Lens Exchange  
  Andrzej GRZYBOWSKI  
17:33  Advantages and Limitations of SMILE  
  Ramamurthy DANDAPANI  
17:42  Role of PTK in Refractive Surgery  
  Alex MAMMEN  
17:51  Panel Discussion  

Retina (Medical)  

APMS Symposium: How Do I Treat Myopic Patients in Real World Practice  
11:00 - 12:30  Venue: Chancellor Room  
  Chair(s): Frank MARTIN, Jason YAM  

11:00  How Do I Treat Myopic Patients with Atropine  
  Audrey CHIA  
11:15  How Do I Treat Myopic Patients with Orthokeratology  
  Pauline CHO  
11:30  How Do We Run Myopia Prevention Programs in Taiwan  
  Pei-Chang WU  
11:45  How I Manage Macular Complications of High Myopia  
  Nishant RADKE  

Artificial Intelligence, Big Data, and Stem Cells in Medical Retina  
11:00 - 12:30  Venue: S221  
  Chair(s): Miho NOZAKI, P Mahesh SHANMUGAM, Junyang ZHAO  

11:00  Prospects and Challenges in Retinal Stem Cell Therapy  
  Mandeep SINGH  
11:11  Correlation of Baseline Retinal Microstructures in Spectral Domain Optical Coherence Tomography and the Need for Early Intervention in Central Serous Chorioretinopathy  
  Shwu-Jiuan SHEU  
11:22  Inflammation Is the Underappreciated Driver of Diabetic Retinopathy. What Biochemical Abnormalities Teach Us and How This Drives the Development of New Therapies  
  Michael STEWART  
11:33  Automated Grading of Diabetic Retinopathy: Deep Learning Can Replace Human Grading  
  Gavin TAN  
11:44  Retinal Detachment and Big Data of Japan  
  Taiji SAKAMOTO  
11:55  Re-Engineering the Staging of Diabetic Retinopathy: Implications from Widefield Imaging  
  Srinivas SADDA  
12:06  Smartphone Direct Ophthalmoscope Devices in DR Screening  
  P Mahesh SHANMUGAM
12:17  Before Microaneurysm Develop in Diabetic Retinopathy  
Seungyoung YU

Myopia and Myopic Maculopathy
Myopia and myopic maculopathy are areas that have seen many advances recently. Newer evidence is mounting by the day. Evidence leads health policy and this session deals with that and all aspects of myopia, from myopia prevention policy to the role of the Bruch membrane, to latest investigations like wide-field OCT for pathological myopia, soft contact lens to retard myopia progression, biopics, anti-VEGF, and scleral crosslinkage. The session will help participants to understand how myopia progresses and how it can be controlled and prevented.

16:30 - 18:00  Venue: S221  
Chair(s): Xiaoxin LI, Sunil MOREKER, Harvey UY

16:30  A Novel Soft Contact Lens to Retard Myopia Progression  
Seang Mei SAW

16:40  Wide-Field OCT for Pathologic Myopia  
Kyoko OHNO-MATSUI

16:50  Myopia Prevention, From Evidence to Policy  
Ching-Yao TSAI

17:00  Biopics for High Myopia: Planning and Execution  
Sudarshan KHOKHAR

17:10  Anti-VEGF Management in Myopic CNV  
Gitalisa Andayani ADRIONO

17:20  Bruch Membrane Revisited and Its Potential Role in Myopic Axial Elongation  
Jost JONAS

17:30  Ranibizumab for Myopic CNV: The Outcome of the Brilliance Study  
Youxin CHEN

17:40  Scleral Collagen Crosslinking in Myopia  
Quan HOANG

17:50  Panel Discussion

Retina (Surgical)

Retina Case Series and New Surgical Techniques
09:00 - 10:30  Venue: S221  
Chair(s): Adrian FUNG, Timothy LAI, William MIELER

09:00  New Techniques in Drug Delivery to the Posterior Segment of the Eye (Including Suprachoroidal)  
Jennifer KANG-MIELER

14:30 - 16:00  Venue: S221  
Chair(s): Yusuke OSHIMA, Paisan RUAMVIBOONSUK

14:30  Adult Complex Retinal Detachment Surgical Strategies  
Felix CHAU

14:40  Long-Term Follow-Up of Scleral Buckle Without Retinal Break Treatment for Rhegmatogenous Retinal Detachment  
Paisan RUAMVIBOONSUK

09:10  Management of the Internal Limiting Membrane in Macular Surgery: Is It Friend or Foe?  
Narciso ATIENZA Jr

09:20  The Use of Micropulse Laser: What Is the Current Role in the Management of Clinical Diseases?  
Timothy LAI

09:30  Surgery for Diabetic Macular Edema DME: When Is It Indicated and Is It Truly Beneficial?  
Ajit Babu MAJJI

09:40  New Surgical Techniques in the Management of Aphakia  
Adrian FUNG

09:50  New Surgical Techniques in the Management of Pediatric Retinal Diseases (ROP, FEVR, Coats)  
Shunji KUSAKA

10:00  New Surgical Techniques and Visual Outcomes Utilizing Temporary Keratoprosthesis and PPV Surgery  
William MIELER

Iwan SOVANI

10:20  New Surgical Techniques and Results of Artificial Vision and RPE Transplantation  
Shih-Jen CHEN

Retinal Detachment and Complex Posterior Segment Surgery
Retinal detachment is one of the most common vitreoretinal diseases and needs to be treated by vitrectomy and/or scleral buckling procedures. Recent advances in instrumentation and techniques have made the surgeries, especially for those with complex situations, less invasive with better outcomes. In this video-oriented session, surgical pearls and theories will be demonstrated for attendees to understand the gold standard and cutting edge of modern retinal detachment surgeries.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14:50</td>
<td>Nondrainage Scleral Buckle Surgery: Improving the Safety of the Old Standard Procedure</td>
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<td>Michael STEWART</td>
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<td>15:00</td>
<td>Biometry Change After Scleral Buckling Surgery</td>
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<td>Shu-Yen LEE</td>
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<tr>
<td>15:10</td>
<td>Surgical Techniques and Outcomes of 27-G Vitrectomy for Primary Retinal Detachment</td>
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<td>Yusuke OSHIMA</td>
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<td>15:20</td>
<td>Retinal Detachment With Choroidal Detachment</td>
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<td>Rajiv RAMAN</td>
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<td>15:30</td>
<td>Small Pupil Vitrectomy</td>
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<td>Harvey UY</td>
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<td>15:40</td>
<td>Trends in Surgical Approaches for Rhegmatogenous Retinal Detachment</td>
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<td>Kyu Hyung PARK</td>
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<td>15:50</td>
<td>Panel Discussion</td>
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<td>Management of Ocular Trauma and Anterior Segment Surgery Complications</td>
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This symposium provides pertinent information on the skills required to manage complex ophthalmic surgery scenarios, incorporating case-based discussions on the methods to safely and effectively manage the situations which challenge us as ophthalmologists, such as severe intraocular trauma and foreign bodies, as well as dislocated IOLs, aphakia, glaucoma, and endophthalmitis complications. Surgical tips and tricks to get around these difficult situations will be presented by a real-world expert panel.

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<tr>
<th>Time</th>
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<tr>
<td>16:30</td>
<td>Management of Penetrating Eye Trauma</td>
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<td>Ava HOSSAIN</td>
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<td>16:40</td>
<td>Management of Pellet Ocular Trauma</td>
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<td>Sundaram NATARAJAN</td>
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<td>16:50</td>
<td>Management of Intraocular Foreign Body</td>
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<td>Pramod BHENDE</td>
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<td>17:00</td>
<td>Management Principles of Severe Ocular Trauma</td>
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<td>Rupesh AGARWAL</td>
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<td>17:10</td>
<td>Management of Aphakia and Dislocated IOLs</td>
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<td>Min KIM</td>
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<td>17:20</td>
<td>Management of Posterior Capsule Rupture</td>
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<td>Referano AGUSTIAWAN</td>
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<td>Management of Glaucoma Surgery Complications</td>
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<td>Lawrence LEE</td>
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<td>17:40</td>
<td>Current Thoughts on Acute Postoperative Endophthalmitis Management</td>
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<td>Manoharan SHUNMUGAM</td>
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<td>17:50</td>
<td>Panel Discussion</td>
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**Translational Research in Ophthalmology**

Regenerative Medicine in Ophthalmology Using Stem Cells
Recent advancements in the field of stem cell research have opened the door for stem cell-based regenerative medicine. Now regenerative medicine using various types of stem cells such as iPS cells, ES cells, and somatic stem cells is progressing from preclinical to clinical trials in a variety of diseases, which cannot be cured by conventional medicine. In this symposium, leading stem cell researchers in various areas of ophthalmology will report the cutting-edge developments in each subspecialty.

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<th>Time</th>
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<tr>
<td>09:00</td>
<td>iPS Cell Therapy in Retina</td>
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<td>Masayo TAKAHASHI</td>
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<td>09:11</td>
<td>iPS Cell Therapy in Cornea</td>
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<td>Kohji NISHIDA</td>
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<td>09:22</td>
<td>Optic Nerve Regeneration and the Role of Stem Cells</td>
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<td>Jane CHAN</td>
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<td>09:33</td>
<td>Implication of Using Stem Cells for Treating Retinal and Choroidal Diseases</td>
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<td>De-Kuang HWANG</td>
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<tr>
<td>09:44</td>
<td>Retinal Stem Cell Therapy: Progress in Clinical Trials</td>
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<td>Mandeep SINGH</td>
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<td>09:55</td>
<td>De Ocampo Lecture: Lens Regeneration Using Endogenous Stem Cells for Treatment of Congenital Cataract</td>
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<td>Yizhi LIU</td>
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<td>10:10</td>
<td>Regenerative Medicine and Nanomedicine: The New Frontiers of Corneal Transplantation</td>
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<td>Samuel YIU</td>
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<td>10:21</td>
<td>Panel Discussion</td>
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**Non-IOP Lowering Treatment For Glaucoma: Its Underestimated Importance**
Glaucoma is now rapidly becoming recognized as a neurodegenerative brain disease. Eye diseases, such
as exfoliation syndrome, which result in elevated intraocular pressure (IOP), lead to a brain disease. Mitochondrial death leads to retinal ganglion cell (RGC) death. Decreased ocular perfusion pressure, ischemia, mitochondrial dysfunction, low-grade inflammation, and oxidative damage are among the risk factors leading to progression of glaucomatous damage. This symposium presents talks on nutritional supplements and other approaches beyond traditional methods of lowering IOP to stabilize this disease.

14:30 - 16:00  **Venue:** S423-S424  
**Chair(s):** Makoto **ARAIE**, Noel **CHAN**, Robert **RITCH**

14:30 Wolfberry and Neuroprotection  
*Kwok-Fai SO*

14:41 Ophthalmological Implications of Classic Yet New Neuroprotectants, Curcumin, and Calcium-Antagonists  
*Makoto ARAIE*

14:52 Beneficial Effects of Gingko Biloba Extract  
*Robert RITCH*

15:03 Non-IOP Lowering Treatment for Flammer Syndrome  
*Toru NAKAZAWA*

15:14 Targeting Mitochondrial Dysfunction in Glaucoma  
*Neville OSBORNE*

15:25 Diet and Exercise  
*Yanin SUWAN*

### Visual Sciences

**APSEG Symposium on Clinical Genetics**

09:00 - 10:30  **Venue:** S228  
**Chair(s):** Chris **HAMMOND**, Govindasamy **KUMARAMANICKAVEL**, Jason **YAM**

09:00 Non-Human Primate Model of Albino Maculopathy  
*Zi-Bing JIN*

09:10 Polymorphism in Hepatocyte Growth Factor and cMET Gene as Predisposing Factors to Myopia in Indonesian Patients  
*Yudisianil KAMAL*

09:20 Genetic Testing in China  
*Junyang ZHAO*

09:30 Establishment of the Asian Eye Genetics Consortium to Study Eye Diseases Associated With Gene Sequence. Introduction of Network and Finding of Novel Genes Responsible for LCA, Optic Neuropathy, and Others  
*Takeshi IWATA*

09:40 Using Mendelian Randomization to Infer Causality in Ocular Diseases  
*Ching-Yu CHENG*

09:50 The Expanding Association of Congenital Glaucoma Genes  
*David MACKEY*

10:00 Using Mendelian Randomization to Infer Causality in Ocular Diseases  
*Patrick YU-WAI-MAN*

10:10 Genetics Revealed New Disease Mechanism  
*Motokazu TSUIJIKAWA*

10:20 Functional Genomic Screening for Neuroprotective Drug Targets in Glaucoma  
*Derek WELSIE*

**ARVO Symposium: Using Animal Models for Research Into Eye Diseases**

11:00 - 12:30  **Venue:** N201B  
**Chair(s):** Sarah **COUPLAND**, Lai **WEI**

11:00 Uveal Melanoma  
*Sarah COUPLAND*

11:12 Retinoblastoma  
*Nathalie CASSOUX*

11:24 Uveitis  
*Lai WEI*

11:36 Myopia  
*Xiangtian ZHOU*

11:48 Keratoplasty  
*Weiyun SHI*

12:00 Alzheimer Disease  
*Mengqing XIANGL*

12:12 Ocular Coloboma  
*Chunqiao LIU*

### Advancements in Technologies for Treatment

This session presents a broad range of recent advancements in ophthalmic treatments and underlying visual mechanisms, including ocular drug delivery, molecular pharmacotherapeutics, physiological interventions, and ocular and pathway responses to damage and visual dysfunction. Innovations and discoveries arising from vital collaborative efforts are highlighted in the Jose Rizal International Medal Lecture.

14:30 - 16:00  **Venue:** S426-S427  
**Chair(s):** Jeffrey **BOATRIGHT**, Kohji **NISHIDA**, Calvin **PANG**

14:30 Jose Rizal International Medal Lecture: Innovation and Collaboration in Ophthalmology—Envisioning the Future  
*Suber HUANG*
14:45  Ocular Drug Delivery  
Jennifer KANG-MIELER

14:55  Tailoring Biomaterials for Ocular Drug Delivery  
Ying CHAU

15:05  TBC  
Kohji NISHIDA

15:15  The Use of Genes as Ocular Drugs  
Terete BORRAS

15:25  The Neural Basis of Sensory Substitution in the Blind  
Kevin CHAN

15:35  Exercise in Treatment of Ocular Disorders  
Jeffrey BOATRIGHT

15:45  Panel Discussion

11:44  Assessing Professionalism  
Shrinivas JOSHI

11:56  Remediating Unprofessional Behavior  
Kathy CAO

12:08  Continuing Education and Professional Development: How Are We Measuring Success?  
Helena FILIPE

12:20  Panel Discussion

Recurring Themes in Medico-Legal Complaints and Claims Against Ophthalmologists
The speakers in this session will examine the recurring themes in medico-legal complaints and claims, specifically those against ophthalmologists. Two of the speakers are experienced ophthalmologists with a special interest in the subject, whereas the third speaker is a dual qualified doctor/defence lawyer. They bring to the session examples from 3 different jurisdictions, covering cases on informed consent, legal causation, and high value damages claims.

14:30 - 16:00  Venue: S223  
Chair(s): David KAN, Robert RITCH

14:30  Recent Controversial Ophthalmology Cases in Japan  
Kenji MINEMURA

14:40  Recent High Profile/High Economic Damage Medical Negligence Cases With Relevance to the Asia-Pacific and Risk Management  
Sunil MOREKER

14:50  Medico-Legal Updates for Ophthalmologists in Hong Kong  
David KAN

ICO Exams and Fellowships

14:30 - 16:00  Venue: S423-S424  
Chair(s): Clare DAVEY, Cordula GABEL-OBERMAIER

14:30  The Importance of ICO Fellowships and Exams Program for International Eye Care Delivery and Other Initiatives and Resources from the ICO  
Hugh TAYLOR

14:40  ICO Examinations—Content and How Can I Pass? [Standard Examinations and the FICO Examination]  
Nicola QUILTER

14:55  Foundation Online Assessment: Interactive Session  
Nicola QUILTER

15:10  ICO Examinations App: Demonstration  
Clare DAVEY
15:25  ICO Fellowships: About the Program  
Cordula GABEL-OBERTHAUER

15:40  How to Complete an Application File  
Cordula GABEL-OBERTHAUER

15:55  Experiences of an ICO Fellow  
Delfitri LUTFI

AOI Symposium: A Potpourri of Ophthalmology Past and Future—Fact and Fiction
This symposium features a series of presentations on intellectually stimulating historical topics in ophthalmology, complemented by presentations on future, potentially revolutionary, technologies in ophthalmic education and the use of clinical outcomes technology to formulate content for educational programs. Together, these diverse topics covered by expert speakers will combine to provide both an entertaining aspect of past events in our field and an introduction to future elements of ophthalmic learning.

16:30 - 18:00  Venue: S223  
Chair(s): Charles MCGHEE, Robert RITCH

16:30  Chevalier Taylor, the Oculist Who Blinded Handel and Bach: Self-Promoting Quack or the Target of Fake News?  
Charles MCGHEE

16:47  Lord Nelson’s Eyes  
Stefan SEREGARD

17:04  The Eye in Mythology  
Harminder DUA

17:21  Future Technologies That May Revolutionize How We Learn and Teach  
Eduardo MAYORGA

17:38  Using Clinical Outcomes Data to Help Formulate Content for Educational Programs  
Richard ABBOTT

Cataract

Achieving Better Outcomes With Newer Generation Intraocular Lenses
Intraocular lens (IOL) technologies have been ever evolving, allowing higher levels of satisfaction for patients. This symposium will review the current status of the new generation of IOLs, including trifocal, toric, and modular IOLs. The visual quality after surgery will be also discussed to achieve better outcomes of cataract surgery with monofocal and multifocal IOLs.

09:00 - 10:30  Venue: Hall 5G  
Chair(s): Nai Man LAM, Tetsuro OSHIKA, Harvey UY

09:00  Long-Term Outcomes of Trifocal Multifocal IOLs  
Robert ANG

09:11  Advanced Technology IOLs: Pearls and Patient Selection  
Yassine DAOUD

09:22  Towards Better Outcomes With Toric IOL Power Calculations  
Han Bor FAM

09:33  Comparison of Different Toric IOLs  
Mun Wai LEE

09:44  How to Optimize the Outcomes of Toric IOLs  
Tetsuro OSHIKA

10:06  Achieving Refractive Perfection With Modular IOLs  
Harvey UY

10:17  Multifocality of Monofocal IOLs  
Santhan GOPAL

Phaco Nightmares and Worst-Case Scenarios: A Video-Based Symposium
“Code red” signifies danger, and it’s best to be prepared for such cases. Endocapsular rings for subluxated cataracts, prosthetic irides, and pupil expanders are secrets for mastering phaco surgery’s worst-case scenarios. Intraoperative floppy iris syndrome, intraocular lens (IOL) implantation in eyes with deficient capsules, and glued IOLs will all be explained. Vitreous loss, torn rrhexis management, and other complication management will also be covered. Management of dropped lenses, hard cataracts, posterior capsular ruptures, and the like will all be explained with excellent videos. From basic complications to nightmare situations, all will be covered in this course. Questions from the audience will be discussed so that attendees will be able to return to their practices and manage any situation. At the conclusion of this course, the attendee will be able to master difficult phaco cases and manage various complications without developing a heart attack.

11:00 - 12:30  Venue: Hall 5G  
Chair(s): Amar AGARWAL, Athiya AGARWAL

11:00  Introduction  
Amar AGARWAL

11:02  Challenging Phaco Cases  
Amar AGARWAL

11:12  Glued IOL and IOL Scaffold  
Athiya AGARWAL

11:32  Single Pass 4 Throw Pupilloplasty and Phaco Nightmares  
Amar AGARWAL
12:12  Subluxated Cataracts  
*Soon-Phaik CHEE*

12:22  Panel Discussion

**Tips and Pearls on Fixation of Intraocular Lens**
This symposium focuses on the management of subluxated IOLs which is an increasingly common occurrence. IOLs may dislocate into the posterior segment and may require intervention from a vitreoretinal perspective. Therefore, these complicated cases may be handled by both anterior and posterior segment surgeons with different surgical approaches. In this session, we will be sharing tips and pearls on IOL retrieval as well as a wide variety of IOL fixation techniques.

14:30 - 16:00  **Venue: Hall 5G**  
**Chair(s): Soon-Phaik CHEE, Toshihiko OHTA, Victoria WONG**

14:30  Scleral-Fixated IOL for the Management of the Posteriorly Dislocated IOL  
*Shu-Yen LEE*

14:40  Dislocated IOL: Management Pearls  
*Bhuvan CHANANA*

14:50  Intrasceral-Fixed IOLs  
*Mun Wai LEE*

15:00  Pearls of Intrasceral Haptic Fixation: Management of IOL Dislocation  
*Toshihiko OHTA*

15:10  L-Shaped Scleral Pocket Incision for Explantation of 6 mm Optic IOLs Through a 3 mm Corneal Incision  
*George BEIKO*

15:20  Rhexis-Fixated IOL  
*Patrick VERSACE*

15:30  Retro Iridial Fixation of IOLs  
*Ramamurthy DANDAPANI*

15:40  My Technique of IOL Intrasceral Haptic Fixation  
*Soon-Phaik CHEE*

Complicated IOL calculations, for example, for toric lenses, as well as teaching beginning surgeons are further topics.

16:30 - 18:00  **Venue: Hall 5G**  
**Chair(s): Gerd AUFFARTH, Alfred LEUNG, Mingxing WU**

16:30  Phacoemulsification in Cases With Lens Capsule Abnormaly  
*Mingxing WU*

16:40  Sutureless Reposition of Late Dislocated IOL-Capsular Bag Complex Using Implantable Capsular Hooks  
*Haiying JIN*

16:50  Technique and Indications For Secondary Retropupillary Iris Fixation of the Artisan Intraocular Lens  
*Gerd AUFFARTH*

17:00  Novel Technique to Reposition Dislocated Transscleral Sutured IOLs  
*Peiquan ZHAO*

17:10  The Surgical Management of Dislocated Crystalline Lens  
*Chunhui JIANG*

17:20  Towards Better Outcomes With Toric IOL Power Calculations  
*Han Bor FAM*

17:30  Complex Cataract Surgery: Teaching the Next Generation of Surgeons  
*Linda TSAI*

17:40  Incidence, Trends, and Risk Factors for Cataract Surgery Complications  
*Jonathon NG*

17:50  Panel Discussion

**Keratoprosthesis: Approaches and Applications**
The cornea is the most important part of the eye for good quality vision. This session will address the “last frontier” when the cornea is beyond conventional transplantation. The background in selection of keratoprosthesis (KPro) type, the different types of KPros, and their modifications will be discussed.

09:00 - 10:30  **Venue: S421**  
**Chair(s): James AQUAVELLA, Christopher LIU, Alvin YOUNG**

09:00  High-Risk PK vs KPRO  
*Bennie JENG*

09:10  Infant Keratoprosthesis  
*James AQUAVELLA*
09:20 Cystoid Macular Edema Following Boston Keratoprosthesis Type 1
   Samar BASAK

09:30 Boston KPRO in Combined Procedures: An Alternative to the Temporary Keratoprosthesis
   Michael BELIN

09:40 Options and Modifications Beyond Standard Keratoprosthesis
   Geetha IYER

09:50 50 Years On, OOKP Remains King of Keratoprostheses
   Christopher LIU

10:00 Panel Discussion

**AIOS Symposium: Eye Banking 2018—International and Asia-Pacific Trends**
The field of eye banking is evolving rapidly. In locations with established eye banking systems, more advanced tissue processing is being performed by eye bank technicians. In other locations, donation systems are being developed to support younger eye banks. This symposium will provide the attendee with a global view of eye banking ranging from newer to more established systems. The information will help the attendee have a better appreciation of what eye banks do and what barriers they face.

11:00 - 12:30 **Venue: S421**
   Chair(s): Bennie JENG, Namrata SHARMA, Victor WOO

11:00 Ensuring Quality and Safety in Eye Banking
   Marian MACSAI

11:10 Comparison of Hospital Cornea Retrieval and Voluntary Eye Donation Program in Eye Banking in India
   Namrata SHARMA

11:20 Routine Referral System for Corneal Donation in Japan
   Naoshi SHINOZAKI

11:30 Association of Eye Banks of Asia: Hospital Eye Donation Programs, Now and the Future
   Chia-Li PANG

11:40 Eye Bank Status in Taiwan
   Fung-Rong HU

11:50 Eye Banking Update from the Philippines
   Domingo PADILLA

12:00 Quality Assurance in Eye Banking
   Victoria WONG

12:10 What Is Happening Now in US Eye Banks?
   Bennie JENG

12:20 Panel Discussion

**Keratoconus and Corneal Ectasia**
This symposium will be focused on the pathogenesis, diagnosis/staging, nonsurgical, and surgical treatment for keratoconus. Audience members can expect a good overview of contemporary strategies in the treatment of keratoconus.

16:30 - 18:00 **Venue: S421**
   Chair(s): Michael BELIN, Arthur CHENG, Marian MACSAI

16:30 Pathogenesis of Keratoconus: Genetics, Mechanics, Biochemical—What Is the Evidence?
   Marian MACSAI

16:40 Contemporary Contact Lens Management in Keratoconus
   Akilesh GOKUL

16:50 New Methods of Diagnosing and Staging Keratoconus: The “ABCD” Keratoconus Staging and Progression System
   Michael BELIN

17:00 Keratoconus: Collagen Crosslinking
   Colin CHAN

17:10 Surgical Management: PK, DALK
   Bennie JENG

17:20 Experimental Treatment for Keratoconus: What the Future Might Hold
   Jorge ALIO

17:30 Panel Discussion

**Glaucoma**

**Medical, Laser, and Surgical Treatment**
In this session a number of experienced surgeons from around the world will give their insights and tips on the treatment of glaucoma, ranging from fixed combination drops to laser peripheral iridoplasty, to managing glaucoma after penetrating keratoplasty in children, and many others in between. Talks will be followed by lively interactive questions and answers with the audience.

09:00 - 10:30 **Venue: Theatre 1**
   Chair(s): Jonathan CHAN, Rahat HUSAIN, Jimmy LAI

09:00 Fixed Combination Medical Therapy in Glaucoma
   Tim ROBERTS

09:10 Glaucoma Following Penetrating Keratoplasty in Children
   Bibiana REISER
09:20 Surgical Management of Childhood Glaucoma
Velota Sung

09:30 Pearls for Successful Revisions of Glaucoma Drainage Device
Thasarat Vajarantan

09:40 Options if Drops Are No Options—Rarely Discussed
Anton Hommer

09:50 Surgical Treatment for Primary Angle-Closure Disease
Yasuo Kurimoto

10:00 Micropulse Transscleral Cyclophotocoagulation
Chelvin Sng

10:10 Laser Peripheral Iridoplasty—How to Avoid Failures and Complications
Clement Tham

10:20 Panel Discussion

Identification and Management of Ocular and Systemic Glaucoma Risk Factors

11:00 - 12:30 Venue: Theatre 1
Chair(s): Poemen Chan, Toru Nakazawa, Visanee Tantisevi

11:00 Introduction

11:05 Ocular Biomechanics in Glaucoma and Myopia
Atsuya Miki

11:15 Identification of Glaucoma Risk Factors Using Ocular Imaging
Leopold Schmetterer

11:25 Vascular Risk Factors for Central Visual Dysfunction in Glaucoma
Toru Nakazawa

11:35 Pressure-Related Factors and Disease Progression in Primary Angle Closure Glaucoma
Shaoying Tan

11:45 Ocular Hypertension: Risk Assessment and Cost-Effectiveness of Treatment
Poemen Chan

11:55 Lifestyle and Severity of Glaucoma
Liza Sharmini Tajudin

12:05 Gene Therapy for IOP Lowering
Xuyang Liu

12:15 The Impact of Behavioral Economics on Patient Adherence to Glaucoma Management
Tina Wong

12:25 Panel Discussion

Genetics, Molecular Biology, and Animal Models

14:30 - 16:00 Venue: Theatre 1
Chair(s): Tin Aung, Bo Peng, Janey Wiggs

14:30 Schlemm Canal Obstruction: A New Way to Establish an IOP-Controllable and Reversible Animal Model of Glaucoma
Yuanbo Liang

14:41 Effect of CAV1 Knockout on the Endocytosis of Trabecular Meshwork Cells
Mingzi Zhang

14:52 Aberrant Intracellular Signaling in the Disrupted Trabecular Meshwork in Glaucoma
Jie Zheng

15:03 Genetic Testing for Glaucoma
Janey Wiggs

15:14 Clinical Applicability of Genetics in Exfoliation Syndrome
Mineo Ozaki

15:25 The Apoptosis of RGC After a Single Acute Attack of Angle Closure
Do Tan

15:36 Mitochondria and Glaucoma
John Fingert

15:47 Uncovering New Pathways to Glaucoma
Jamie Craig

MIGS for Glaucoma
Microinvasive glaucoma surgery (MIGS) is a rapidly emerging treatment option for glaucoma that confers a higher safety margin but less intraocular pressure reduction compared with trabeculectomy. With the emergence of newer technologies and modifications of previous techniques, the role of MIGS in glaucoma treatment is undergoing continuous evolution. Join some of our world-renowned leaders in MIGS as they present the applications of various stents, ab-internal procedures, and canaloplasty and unveil practical pearls for greater success.

16:30 - 18:00 Venue: Theatre 1
Chair(s): Keith Barton, Paul Healey, Jacky Lee

16:30 Microinvasive Glaucoma Surgery in Asia:
Hype or Hope
Chelvin Sng
16:40 Subconjunctival Stents: The UK Experience
Keith BARTON

16:50 Canalicular Stents: The View From Down Under
Paul HEALEY

17:00 Suprachoroidal Stents: The European Perspective
Tarek SHAARAWY

17:10 Modified Canoloplasty in Glaucoma
Ningli WANG

17:20 Trabectome Outcomes in Chinese Eyes
Chun ZHANG

17:30 MIGS for Angle Closure: Mayo Clinic Data
Syril DORAIRAJ

17:40 Choosing the Right MIGS Procedure for Each Patient
Jonathan MYERS

17:50 Panel Discussion

Role of Inflammation in Diabetic Retinopathy and Its Management
The pathophysiology of diabetic retinopathy is complex and poorly understood. Most likely it is a multifactorial process predominantly driven by VEGF. However, we know that inflammatory cytokines are upregulated in the vitreous of diabetic eyes and steroids are often used in the treatment of diabetic eye diseases. Therefore, angiogenesis and inflammation must both be controlled during the treatment of diabetic retinopathy. This session will focus on the role of inflammation in diabetic retinopathy and how our renewed understanding of this field will alter our management.

14:30 - 16:00 Venue: S426-S427
Chair(s): Marten BRELEN, Susumu ISHIDA, Tien-Yin WONG

14:30 Comparison of Normal Vitreous Proteome With That of Proliferative Diabetic Retinopathy
Krishna MURTHY

14:40 Production and Role of Unsaturated Aldehyde Acrolein in Diabetic Retinopathy: Mediator of Oxidative Stress and Inflammation
Kousuke NODA

14:50 Angiopoietin 2: A Link Between Inflammation and Vascular Remodeling in Diabetic Retinopathy
Marten BRELEN

15:00 Inflammatory Cytokines Indicate Response to Anti-VEGF Drugs for DME
Masahiko SHIMURA

15:10 The Effect of Steroid on Refractory DME
Shwu-Jiuan SHEU

15:20 Retinal Venules as a Biomarker of Inflammation in Diabetic Retinopathy
Tien-Yin WONG

15:30 Osteoprotegerin Is a New Regulator of Inflammation and Angiogenesis in Proliferative Diabetic Retinopathy
Ahmed ABU EL-ASRAR

15:40 The Role of Micrornas in the Pathogenesis of Diabetic Retinopathy
Chang-Hao YANG

15:50 Panel Discussion

Intraocular Inflammation, Uveitis & Scleritis

Noninfectious Posterior and Panuveitis

09:00 - 10:30 Venue: S426-S427
Chair(s): Timothy LAI, Peter MCCLUSKEY, Peizeng YANG

09:00 Pathogenesis of Noninfectious Posterior and Panuveitis
Kalpana MURTHY

09:12 Objective Measures of Activity of Uveitis
David CHU

09:24 Diagnosing Noninfectious Posterior and Panuveitis
De-Kuang HWANG

09:36 Choroidal Vascular Index: A Way to Look Into Choroidal Structure
Rupesh AGARWAL

09:48 Behcet Disease in Australia
Peter MCCLUSKEY

10:00 Immunosuppressive Therapy for Vogt-Koyanagi-Harada Disease
Peizeng YANG

10:12 Masquerade Syndrome in Noninfectious Posterior and Panuveitis
Min KIM
Miscellaneous

APAO Young Ophthalmologists Symposium

09:00 - 10:30 Venue: S224-S225
Chair(s): Marcus ANG, Seng-Kheong FANG, Ian WONG

09:00 Introduction to YO! An Update on YO Activities in the World and in the Asia-Pacific
RV Paul CHAN

09:12 How to Set Up Your Own YO Chapter
Dexter LEUNG

09:24 How to Master YO(ur) Surgical Skills
Simon FUNG

09:36 How Do I Produce an Award-Winning Video?
Royce CHEN

09:48 YO in the Community: Volunteering at Home and Overseas
Joanne CROSBY

10:00 Panel Discussion

10:15 Award Presentation

APAO Leadership Development Program 2017-18 Graduation Class 1

09:00 - 10:30 Venue: S425
Chair(s): Catherine GREEN, Muhammad MOIN, Sherman VALERO

09:00 Welcome and Introduction
Catherine GREEN

09:15 Optimizing Sustainable Collaboration of Australia and Cambodia Ophthalmology Teaching Programs
Celia CHEN

09:27 Trends in Ophthalmology Residency Training in India: A Resident-Based Survey
Vivek DAVE

09:39 Creating an Effective Outcomes-Based Evaluation System in Ophthalmology Resident Education
Hyun Taek LIM

09:51 Developing an Online Surgical Logbook for Ophthalmology Residents
Mary Ellen SY

10:03 Virtual Ophthalmology Teaching Environment for Undergraduates in All Universities in Sri Lanka
Salvin ARACHCHIGE

10:15 Set Up Young Ophthalmology Society in Thailand
Phanthipha WONGWAI

APAO Leadership Development Program 2017-18 Graduation Class 2

11:00 - 12:30 Venue: S425
Chair(s): Catherine GREEN, Shaheeda MOHAMED, Muhammad MOIN

11:00 Retinal Eye Care of Nepal
Chunu SHRESTHA

11:14 Sustainable Healthcare at No Fixed Charge at the Point of Service
Manoharan SHUNMUGAM

11:28 Promotion for Screening of Diabetic Retinopathy in Taiwan
Yi-Ting HSIEH

11:42 Economic Evaluation of Diabetic Retinopathy Initiatives in Indonesia (DRIVE-IN)
Muhammad BAYU SASONGKO

11:56 Outcomes of Microcatheter-Assisted Trabeculotomy in the Treatment of Primary Congenital Glaucoma After Failed Glaucoma Surgeries
Huaizhou WANG

12:10 Eye Injury Prevention at Workplaces in Hochiminh City
Linh TA

12:24 Conclusion
Catherine GREEN

APAO Leadership Development Program 2018-19 Orientation Class 3 Insights Discovery Program: Get Your Message Across—Communicating in Color Part I
Closed Session for APAO Leadership Development Program Class 2018-19 Participants

14:30 - 16:00 Venue: S425

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

APAO Leadership Development Program 2018-19 Orientation Class 4 Insights Discovery Program: Get Your Message Across—Communicating in Color Part II
Closed Session for APAO Leadership Development Program Class 2018-19 Participants

16:30 - 18:00 Venue: S425

16:30 Insights Discovery: Communicating in Color Part II
Simon ABBOTT
17:45  Conclusion—Next Steps: Mid-term Masterclass and Graduation in Bangkok 2019
Catherine GREEN

**Neuro-Ophthalmology**

**Challenging Cases in Neuro-Ophthalmology (Efferent)**
This symposium will focus on challenging cases in neuro-ophthalmology that involve the efferent system. Cases will include ocular motility abnormalities, pupil disturbances, ptosis, and nystagmus. Those attending the symposium will develop a better understanding of efferent neuro-ophthalmologic issues.

09:00 - 10:30  Venue: N201A
Chair(s): Andy CHENG, Walter JAY, Clement TAN

09:00  Risk Factors Don’t Always Mean It’s Microvascular
Clement TAN

09:12  Double Trouble
Dean CESTARI

09:24  “My Pupil Is Small.” “No It’s Not, It Is Really Too Big!”
Prem SUBRAMANIAN

09:36  Long-Standing Unilateral Updrift of 1 Eye With Recent Contralateral Ptosis
Sharon TOW

09:48  Episodic Diplopia
Andy CHENG

10:00  Things that Don’t Move and May Shake
Helen DANESH-MEYER

10:12  Panel Discussion

**Common Neuro-Ophthalmological Scenarios**
Wouldn’t life be easier without the dilemmas of optic disc swelling, mimickers of retrobulbar optic neuritis, and functional (psychogenic) visual loss? Then there are the problems posed by bilateral visual pathway constriction and perioperative visual loss: are they due to anterior or posterior pathway problems? Plus when do we order AQP4 antibodies? All these conundrums will be covered in this symposium with plenty of time for panel discussion/audience participation.

16:30 - 18:00  Venue: N201A
Chair(s): Noel CHAN, John CROMPTON, Mahesh KUMAR

16:30  Functional Visual Loss—Or Is It?
John CROMPTON

16:42  Bilateral Visual Field Constriction
François-Xavier BORRUAT

16:54  Perioperative Visual Loss
Walter JAY

17:06  True Optic Nerve Edema vs Pseudo Edema
Celia CHEN

17:18  Mimickers of Retrobulbar Optic Neuritis
Mahesh KUMAR

17:30  When Should I Order AQP4 Antibodies in Optic Neuritis Patients?
Sharon TOW

17:42  Panel Discussion

**Ocular Imaging**

**Latest Developments in Ocular Imaging**

09:00 - 10:30  Venue: N201B
Chair(s): Carol CHEUNG, Jennifer KANG-MIELER, Christopher LEUNG

09:00  Deep Learning Technology and Its Applications in Diabetic Screening
Tien-Yin WONG

09:10  Novel Use of FA and Kinetic Modeling to Detect Early Changes in DR
Jennifer KANG-MIELER

09:20  Retinal and Choroidal Imaging in Different Postures
John LIU

09:30  Retinal Imaging in Alzheimer Disease
Carol CHEUNG

09:40  Full Range Ocular Imaging With OCT
Anthony KUO

09:50  Imaging the Lamina Cribrosa to Understand the Pathogenesis of Glaucoma
Tae Woo KIM

10:00  Deep Learning Based Retinal Disease OCT Image Classification and Detection
Xinjian CHEN

10:10  Digital Imaging Technologies for Evaluation of Glaucoma
Maria Imelda YAP-VELOSO

10:20  Questions and Answers

**Clinical Applications of Anterior Segment Imaging**
Ocular imaging plays an increasingly important role in the management of patients with ocular disease. This session will feature a series of presentations focusing on the application of a variety of imaging techniques in detecting anterior segment diseases.
14:30 - 16:00 Venue: N201B
Chair(s): Ka Wai KAM, Tetsuro OSHIKA, Dipika PATEL

- Corneal Tomography in Clinical Practice
  Vishal JHANJI
- In Vivo Confocal Microscopy of the Inflamed Cornea
  Dipika PATEL
- Imaging Fuchs Endothelial Dystrophy
  Sanjay PATEL
- New Generation Anterior Segment OCT
  Tetsuro OSHIKA
- Imaging the Anterior Chamber
  Hiroshi SAKAI
- Assessing Corneal Biomechanical Properties in Clinical Practice
  Akilesh GOKUL

Ocular Oncology & Pathology

Lymphoma and Leukemia

09:00 - 10:30 Venue: S226-S227
Chair(s): Anita CHAN, Sarah COUPLAND, Hunter YUEN

- Overview of Ocular Adnexal Lymphoproliferative Lesions
  Timothy SULLIVAN
- Treatment of Ocular Adnexal Lymphomas
  Arun SINGH
- Eosinophilic Angiocentric Fibrosis and IgG4 Disease
  Cesar SALINAS-LA ROSA
- IgG4-Associated Ophthalmic Disease: The Classification Criteria
  Atsushi AZUMI
- Ocular Manifestations of Leukemia
  Anita CHAN

10:00 Ocular Surface Complications After Stem Cell Therapy
  Martine JAGER

10:12 Primary and Secondary Lymphoma Manifestations Within the Eye
  Sarah COUPLAND

Pathology: Old and New
This session covers the most updated information and research on a wide spectrum of ocular pathologies as well as oncology. The topics include temporal arteritis, virus infection, pterygium, orbital lymphoproliferative disorders, osseous tumors, sebaceous cell carcinoma, and ocular surface squamous neoplasia. In addition, clinicopathological correlation in ophthalmology will also be discussed.

11:00 - 12:30 Venue: S226-S227
Chair(s): Anita CHAN, Tero KIVELA, Tsz-Kin NG

- Clinicopathological Correlation in Ophthalmology
  Jyotirmay BISWAS
  Issam AL JAIEH

12:25 Panel Discussion

Orbital & Oculoplastic Surgery

Updates on Common Orbital Diseases You Don’t Want to Miss

11:00 - 12:30 Venue: N201A
Chair(s): Lawrence LAM, Lay Leng SEAH, Xianqun FAN

- Surgical Management of Orbital Neurofibromas: Beyond What We Could Do in the Past
  Xianqun FAN

11:12 New Considerations and Management of Complicated Orbital Diseases: Neoplasms and Vascular Lesions
  Renbing JIA

11:25 Panel Discussion

- Euthyroid and Hypothyroid TED
  Lay Leng SEAH
11:36 Challenges in the Management of Exposure Keratopathy in Thyroid Eye Disease Patients
Morgan YANG

11:48 Life-Threatening Squamous Cell Carcinoma
Stephen NG

12:00 Lacrimal Surgery Using Lacrimal Endoscopy (Dacryoscopy)
Juwan PARK

12:12 Medial Canthal Reconstructions—A Challenge
Lakshmi MAHESH

APSOPRS Symposium: Tips and Tricks in Lacrimal Surgeries—The Asian Experience

11:00 - 12:30 Venue: N201B
Chair(s): Reynaldo JAVATE, Chee Chew YIP, Hunter YUEN

11:00 Finesse in External Dacryocystorhinostomy
Yen-Chang CHU

11:10 Anatomic Considerations for Asian Endoscopic Dacryocystorhinostomy
Jae Woo JANG

11:20 Transcanalicular Endoscopic Lacrimal Duct Recanalization, What’s On?
Reynaldo JAVATE

11:30 Pearls in Pediatric Nasolacrimal Duct Obstruction Management
Wei LU

11:40 Dacryocystorhinostomy in Posttraumatic Nasolacrimal Duct Obstruction Patients
Chee Chew YIP

11:50 Management of Upper Lacrimal System Obstructions
Ashok GROVER

12:00 Management of Functional Tearing
Tomoyuki KASHIMA

12:10 Stenting in Lacrimal Surgeries: To Do or Not?
Kelvin CHONG

APOTS Symposium: Sports-Related Ophthalmic Trauma

14:30 - 16:00 Venue: N201A
Chair(s): Rajvardhan AZAD, Caroline CHEE, Sundaram NATARAJAN

14:30 Introduction (Including Cricket Ball Injuries) and Indian Experience
Sundaram NATARAJAN

14:42 Sports-Related Ophthalmic Trauma: Singapore Experience
Rupesh AGARWAL

14:54 Anterior Segment Injuries
Fasika WORETA

15:06 Posterior Segment Injuries
Hua YAN

15:18 Sports-Related Orbital Fractures
Gangadharan SUNDAR

15:30 Optic Nerve and Other Cranial Nerve Injuries
Andy CHENG

15:42 Protective Eyewear, Guidelines, and Practice: The Australian Experience
Annette HOSKIN

Pediatric Ophthalmology & Strabismus

Retinopathy of Prematurity

11:00 - 12:30 Venue: Theatre 2
Chair(s): RV Paul CHAN, James ELDER, Connie LAI

11:00 Teledmedicine Screening for Premature and Full-Term Infants
Samantha SIMKIN

11:10 Current Portable Retinal Imaging Devices for Retinopathy of Prematurity
Felix CHAU

11:20 Management of Retinopathy of Prematurity: Laser, Anti-VEGF, or Surgery
Gavin TAN

11:30 Anti-VEGF for Retinopathy of Prematurity: When and How?
RV Paul CHAN

11:40 Neurodevelopmental Outcome in ROP Patients With Prior Treatment With Anti-VEGF
Wei-Chi WU

11:50 Surgical Treatment of Retinopathy of Prematurity
Shunji KUSAKA

12:00 Lens-Sparing Vitrectomy for Retinopathy of Prematurity
Pramod BHENDE

APPOSYS Symposium: Pediatric Neuro-Ophthalmology Conditions You Should Not Miss
Clinical optic neuropathies and diplopia in pediatric patients will be addressed in this symposium. This session will review how to differentiate between pseudoedema and optic disc edema, traumatic optic...
neuropathy, and various optic nerve tumors.

14:30 - 16:00  
**Venue: Theatre 2**

**Chair(s): Hyosook AHN, An-Guor WANG, Wilson YIP**

14:30  
Dangerous Strabismus in Children  
*Craig DONALDSON*

14:45  
Are the Optic Nerves Really Swollen?  
*Celia CHEN*

15:00  
Traumatic Optic Neuropathy: Diagnosis and Management  
*Walter JAY*

15:15  
Optic Nerve Tumors in Children  
*Neil MILLER*

15:30  
A Child With Heterochromic IRIS  
*Hyosook AHN*

15:40  
A Girl With Blurred Right Field  
*An-Guor WANG*

**AAPOS Symposium: New Considerations in Pediatric Ophthalmology and Strabismus**

This symposium will address several topics important to the pediatric ophthalmologist and strabismus specialist. The symposium will be focused on new ways of thinking about these conditions and will cover new approaches to evaluation and treatment. Topics will range from important but less well recognized causes of diplopia in adults to external eye disease in children.

16:30 - 18:00  
**Venue: Theatre 2**

**Chair(s): Jonathan HOLMES, Mustafa IBRAHIM, Prem SUBRAMANIAN**

16:30  
Diplopia and Epiretinal Membranes  
*Jonathan HOLMES*

16:45  
Ocular Motor Issues in Traumatic Brain Injury  
*Prem SUBRAMANIAN*

17:00  
Congenital Abnormalities of the Eye: Embryology Explained  
*Kamiar MIRESKANDARI*

17:15  
Video Presentation on Management of Congenital Nasolacrimal Duct Obstruction  
*Mustafa IBRAHIM*

17:30  
Prevalent Forms of Adult-Onset Strabismus  
*Brian MOHNEY*

17:45  
Childhood Blepharokeratoconjunctivitis  
*Grace WU*

**Prevention of Blindness**

**Nakajima Memorial Symposium**

This symposium is dedicated to the memory of Prof Akira Nakajima (1923-2017). Prof Nakajima, emeritus professor at Juntendo University in Tokyo, Japan, was a great international leader of ophthalmology, who served as the president of APAO, International Council of Ophthalmology (ICO), and Academia Ophthalmologica Internationalis (AOI).

**11:00 - 12:30  Venue: S428**

**Chair(s): Charles MCGHEE, Tetsuro OSHIKA, Clement THAM**

11:00  
Speech by APAO President  
*Charles MCGHEE*

11:02  
Speech by JOS President  
*Tetsuro OSHIKA*

11:04  
Speech by ICO President  
*Hugh TAYLOR*

11:06  
Speech by AOI President  
*Gullapalli Nag RAO*

11:08  
Speech by APAO Secretary General & CEO and Inaugural APAO Nakajima Awardee (2005)  
*Clement THAM*

11:10  
Speech by APAO Nakajima Awardee 2017  
*Vishal JHANJI*

11:12  
Moment of Silence in Remembrance

11:13  
Hypothesis on the Regulation Mechanism of Central Nervous System in Myopia  
*Ningli WANG*

11:33  
Future Perspective of Public Health Ophthalmology  
*Akira MURAKAMI*

11:53  
To the Memory of Akira Nakajima: From ICO and AOI  
*Bruce SPIVEY*

**Refractive Surgery**

**SMILE: An Update**

It has been 8 years since SMILE was first applied in clinics, with millions of cases and good results for myopic eyes. SMILE for hyperopia has proceeded to clinics now and strategies to prevent complications after SMILE surgery should be highlighted and discussed further, especially with regards to enhancements for SMILE and shortcuts to handle skillful SMILE procedures. Long-term stability of visual quality after SMILE also should be investigated further.
SCIENTIFIC PROGRAM SCHEDULE
INVITED SYMPOSIA
FEB 10

09:00 - 10:30 Venue: Chancellor Room
Chair(s): Tommy CHAN, Sri GANESH, Fengju ZHANG
09:00 Relative Factors of Predictability for Chinese Myopic Eyes After SMILE
Fengju ZHANG
09:10 Enhancement After Small Incision Lenticule Extraction
Yu-Chi LIU
09:20 Initial Results of SMILE for Hyperopia
Sri GANESH
09:30 A Retrospective Study on Intraoperative and Postoperative Complications of SMILE
Rupal SHAH
09:40 Dealing With Intraoperative and Postoperative Challenges
Jeewan TITIYAL
09:50 Early Experience of SMILE in the US Market
Ronald KRUEGER
10:00 Learning Curve of SMILE
Tommy CHAN
10:10 Visual Quality of SMILE Surgery in Long-Term Follow-Up
Yan WANG
10:20 Panel Discussion

Corneal Implants and Intraocular Implants
This symposium will review principles, mechanisms, and results of different types of corneal inlays for presbyopia correction, including Raindrop and Kamra implants. Intracorneal ring segment (ICRS) treatment in keratoconus will also be covered, including the results and how to deal with suboptimal outcomes. Finally, the role of implantable collamer lens (ICL) in refractive surgery will also be presented. The panel members will discuss the advantages and disadvantages, patient selection, surgical techniques, complications, and postoperative management for each implant in detail.

11:00 - 12:30 Venue: Chancellor Room
Chair(s): Robert ANG, Tommy CHAN, Vilavun PUANGSRICHARERN
11:00 Presbyopia Correction Using Small Aperture Inlay and IOL
Robert ANG
11:09 Presbyopia Correction With the Raindrop Intracorneal Implant
Julian THENG
11:18 When the Kamra Implant Does Not Work
Jodhbir MEHTA
11:27 Panel Discussion
11:32 ICRs for Treatment of Keratoconus
Vilavun PUANGSRICHARERN
11:41 Intrastromal Ring Segments: Managing Suboptimal Outcomes
Anand PARTHASARATHY
11:50 ICL for Moderate and Low Myopia
Wang ZHENG
11:59 Panel Discussion
12:04 Bioptics with ICL and SMILE: Technique and Results
Sheetal BRAR
12:13 Phakic IOLs in Complex Situations
Ramamurthy DANDAPANI
12:22 Panel Discussion

Crosslinking in Refractive Surgery
Crosslinking (CXL) for keratoconus and ectasia after LASIK has definitely achieved good results in clinic; as for LASIK Xtra and SMILE Xtra, the strict indication and potential problems should still be discussed. Visual quality after CXL for keratoconus or ectasia might be improved combined with customized excimer laser ablation. However, the long-term stability and safety after CXL should be monitored further.

14:30 - 16:00 Venue: Chancellor Room
Chair(s): Alex NG, Jerry TAN, Fengju ZHANG
14:30 Crosslinking for Post-LASIK Ectasia
Shihao CHEN
14:40 Long-Term Results of Topography (Corneal Wavefront) Guided LASIK Xtra for High Myopia
Jerry TAN
14:50 Experimental Study on Drugs Permeating Corneal Tissue After Standard CXL
Fengju ZHANG
15:00 Corneal Biomechanics of SMILE Xtra With Corvis ST
Sheetal BRAR
15:10 Topography-Guided LASEK Xtra for Keratoconus
Yueguo CHEN
15:20 Positive or Negative for LASIK Xtra, Indications in China
Yan WANG
15:30 Current State of CXL and Refractive Surgery
Ngamjit KASETSUWAN
15:40  LASIK Xtra  
Bhupesh SINGH  

15:50  SMILE Xtra: Indications, Techniques, and Results  
Alex NG  

**ISRS Symposium: Top 5 Pearls in Refractive Surgery**  
Attendees will learn experience in how to perform surgeries in the most advanced and popular procedures in refractive surgery. The surgeons will also give the audience their top 5 pearls for how to be best at that procedure.

16:30 - 18:00  **Venue: Chancellor Room**  
Chair(s): Jorge ALIO, Min CHANG, Ronald KRUEGER  
16:30  Top 5 Pearls in Managing Astigmatism  
Tetsuro OSHIKA  
16:40  Top 5 Pearls in SMILE: How to Achieve 20/20 or Better on Day 1  
Sri GANESH  
16:50  Top 5 Pearls in Crosslinking: Corneal Crosslinking—10 Years, 857 Eyes, Lessons Learnt  
Gaurav LUTHRA  
17:00  Top 5 Pearls in Corneal Implants  
Hungwon TCHAH  
17:10  Top 5 Pearls in ICL KS-AquaPORT  
Kimiya SHIMIZU  
17:20  Top 5 Pearls in Selecting Advanced Refractive Surgery: Wavefront Optimized vs Topographic-Guided  
Ronald KRUEGER  
17:30  Top 5 Pearls in Managing Femto LASIK Complications  
Yueguo CHEN  
17:40  Top 5 Pearls in Identifying Unhappy Refractive Patients  
Rohit SHETTY  
17:50  Panel Discussion  

**Retina (Medical)**  

**APVRS Symposium: Diabetic Retinopathy Update 2018**  
Diabetic retinopathy (DR) is a multifactorial disease, and the recent advancements of diagnostic imaging and management are providing us with a new era of DR. This symposium will include a new model of global care, cutting-edge concepts of screening and automatic reading, current treatment in the real world, biologic and metabolic characteristics of DR, new imaging tools, recent management of recalcitrant DME, and surgery of advanced PDR.

11:00 - 12:30  **Venue: S221**  
Chair(s): Taraprasad DAS, Oh Woong KWON  
11:00  Introduction  
Oh Woong KWON  
11:03  Global Magnitude of DR and New Models of Care  
Tien-Yin WONG  
11:12  DME Consensus on Treatment in the Real World  
Oh Woong KWON  
11:21  Newer Imaging Tools (Including OCT-A) in DR  
Hiroko TERASAKI  
11:30  Deep Learning and Automated Reading  
Rajiv RAMAN  
11:39  CLARITY: Aflibercept vs PRP in PDR  
Sobha SIVAPRASAD  
11:48  Understanding Biology: Microbiome  
Taraprasad DAS  
11:57  The Metabolic Memory in Diabetic Retinopathy in Terms of Anti-VEGF Treatment  
Hee-Seung CHIN  
12:06  Management of Recalcitrant Diabetic Macular Edema  
Ian YEO  
12:15  Surgery of Advanced PDR: Lessons and Tips  
Andrew CHANG  
12:24  Conclusion  
Taraprasad DAS  

**Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy: Part I**  
14:30 - 16:00  **Venue: S221**  
Chair(s): Min KIM, Shibo TANG  
14:30  Abnormal Phagocytosis as a Cause for AMD  
Robyn GUymER  
14:45  Age-Related Macular Degeneration and Immune Cells  
Yasuo YANAGI  
15:00  Reticular Pseudodrusen and Choroidal Changes  
Jaeryung OH  
15:15  3-Dimensional Analysis of Morphologic Changes and Visual Outcomes in AMD  
Hyung Chan KIM
15:30 Multimodal Imaging in Macula Clinic  
*Faruque GHANCHI*

15:45 Biomarkers of Neovascular Activity in AMD  
*David SARAFF*

**ISCEV Symposium: New Topics in Electrophysiology of Vision**

Electrophysiological testing (eg, ERG, EOG, or VEP) provides important objective assessment of the function of the visual system. In this session, 6 researchers will present several new topics in the field of clinical electrophysiology of vision. They will cover new ERG methods, including the provision of preoperative prognostic information, basic ERG experiments using animal models, the functional assessment of paraneoplastic retinopathy, and multifocal pupillometry.

16:30 - 18:00 **Venue: S221**  
**Chair(s): Graham HOLDER, Mineo KONDO**

16:30 Multifocal ERG, OCT, and Metamorphopsia Test Findings as Predictors of Visual Outcomes for ERM Surgery  
*Hoon Dong KIM*

16:45 Autoantibody Against TRPM1 in Sera of Japanese Paraneoplastic Patients  
*Shinji UENO*

17:00 New Technologies, Real or Gimmick?  
*Ranjana MATHUR*

17:15 Isolation of Rod- and Cone-Driven Electroretinogram Responses  
*Bo LEI*

17:30 Application of Global Flash Multifocal ERG in Juvenile Myopia Prediction  
*Serena LI*

17:45 Stroke and Pupillary Responses to Transient Multifocal Stimuli  
*Teddy MADDESS*

**Retina (Surgical)**

**Innovation in Retinal Surgery**

09:00 - 10:30 **Venue: S221**  
**Chair(s): David CHOW, Suber HUANG, Wai-Ching LAM**

09:00 Emerging Trends in Secondary IOL Placement  
*Jessica LEE*

09:10 Complex RD Surgery: Coloboma of the Choroid  
*Pramod BHENDE*

09:20 Complex Retinal and Endoscopic Surgery  
*Linda LAM*

09:30 Hypersonic Vitrectomy  
*Kenneth FONG*

09:40 The Science of Ngenuity  
*David CHOW*

09:50 Short-Term Results Following Argus II Retinal Prosthesis Implantation in Korean Retinitis Pigmentosa Patients  
*Young Hee YOON*

10:00 High-Resolution Artificial Retina Based on New Micro/Nano Technologies  
*Tianzhun WU*

10:10 RPE Transplantation Surgery  
*Elliott SOHN*

10:20 A New Age of Sterility in the Operative Setting  
*Tarek HASSAN*

**Macular Surgery**

14:30 - 16:00 **Venue: S421**  
**Chair(s): Andrew CHANG, Chi-Chun LAI, Masahito OHJI**

14:30 Pathogenesis of Myopic Maculopathy  
*Yasushi IKUNO*

14:41 Enzymatic Vitreolysis for Vitreomacularpathies  
*Andrew CHANG*

14:52 Management of Myopic Macular Hole Retinal Detachment  
*Masahito OHJI*

15:03 ILM Peeling Techniques in Macular Surgery  
*Chi-Chun LAI*

15:14 Intraoperative OCT  
*Hiroko TERASAKI*

15:25 Macular Capillary Plexuses After Epiretinal Membrane Surgery: An OCT Angiography Study  
*Young Hee YOON*

15:36 Managing Intraoperative Complications of Macular Surgery  
*Lawrence LEE*

15:47 Surgical Management of Lamellar Macular Holes  
*Paisan RUAMVIBOONSUK*
Translational Research in Ophthalmology

Identifying Novel Molecular Mechanisms in the Pathogenesis of Eye Diseases: Moving Forward

In order to conquer ocular diseases, we must reveal and grasp the underlying molecular mechanisms. From genes to stem cells, the molecular events contributing to disease provide a deeper understanding of disease pathogenesis and suggest new targets for therapies that have the potential to be curative. Here we share advances in basic research on molecular pathogenesis of ocular diseases and potential novel therapeutic strategies.

09:00 - 10:30  Venue: S423-S424  
Chair(s): Inderjeet KAUR, Janey WIGGS, Xiulan ZHANG

09:00  Functional Implications of Gene-Gene Interactions in Primary Congenital Glaucoma
Subhabrata CHAKRABARTI

09:11  Towards Gene Therapy for Glaucoma
Keith MARTIN

09:22  Big Data
Paul BAIRD

09:33  Key Role of MicroRNAs in Mammalian Retina
Zi-Bing JIN

09:44  Neural Stem Cell Transplantation in Retinal Degeneration
Fred CHEN

09:55  Targeting Wnt Signaling as a Potential Therapeutic Approach for Retinopathy
Jie ZHENG

10:06  Neurodegeneration in Diabetic Retinopathy: Bench to Bedside
Jay CHHABLANI

10:17  Mechanisms in Exercise-Induced Retinal Protection
Jeffrey BOATRIGHT

Visual Sciences

Ocular Immunology

Ocular immunology is a complex area in ophthalmology. There has been much active research into ocular immunology recently. Here, we invite 8 famous experts in ocular immunology to share their expertise on this topic. The most up-to-date studies and new aspects in clinical and basic immunology of the eye will be presented.

09:00 - 10:30  Venue: S228  
Chair(s): Sally ATHERTON, Wai Kit CHU

09:00  IL-17A Inhibits Expression of IL-17-ineage Cytokines through a Negative Feedback Loop Involving IL-24 and Controls Autoimmune Uveitis
Wai Po CHONG

09:10  Nanoparticulate Drug Delivery Systems to Ocular Inflamed Site
Noriyasu HASHIDA

09:20  Signaling Mechanisms of Growth Hormone-Releasing Hormone Receptor in Acute Anterior Uveitis
Sun On CHAN

09:30  Nerve Regeneration by Corneal Stromal Keratocytes and Stromal Fibroblasts
Gary YAM

09:40  Ocular Immunology
Sally ATHERTON
09:50  Green Tea Extract Alleviates Intraocular Autoimmune Inflammation in a Mouse Model of Experimental Autoimmune Uveoretinitis  
Wai Kit CHU

10:00  Hereditary Basis of Uveitis  
Calvin PANG

10:10  Nonredundant Requirement for CXCR3 Signaling for Effective Treatment of Eye-Specific Autoimmunity With Type I Interferon  
Jun CHEN

10:20  TBC  
Franz GRUS

ARVO Symposium: Potential Application of Nanotechnology in Eye Disease

16:30 - 18:00  Venue: N201B  
Chair(s): Ying CHAU, Jennifer KANG-MIELER, Rachel WILLIAMS

16:30  Functionalization of Novel Peptide Contact Lenses for the Diagnosis and Treatment of Corneal Infection  
Rachel WILLIAMS

16:45  Drug Delivery in AMD and Diabetic Retinopathy  
Jennifer KANG-MIELER

17:00  Infection (Antibiotic Delivery)  
Jennifer KANG-MIELER

17:15  Nanotechnology: AAV Gene Therapy  
Rong LU

17:30  Designing Nano-Carriers to Target Retinal Tissues  
Ying CHAU

17:45  Panel Discussion

APAO-EVER Joint Symposium

16:30 - 18:00  Venue: S426-S427  
Chair(s): Tin AUNG, Dan MILEA

16:30  Genetics and Glaucoma  
Tin AUNG

16:45  Myopia: Anatomical Changes and Potential Etiology  
Jost JONAS

17:00  Angle Closure Management: A Logical Approach Based on Angle Closure Type and Mechanisms  
Clement THAM

17:15  OCT Angiography and Glaucoma  
Leopold SCHMETTERER

17:30  OCT Imaging to Evaluate Progression in Glaucoma  
Christopher LEUNG

17:45  Nonvisual Consequences of Glaucoma  
Dan MILEA

Feb 11, 2018 (Sun)

Academia, Research, Teaching & Education in Ophthalmology

APAO-AAPPO Workshop: Clinical Research Design and Methods Session

09:00 - 10:30  Venue: N201B  
Chair(s): Mingguang HE, Ryo KAWASAKI, Toru NAKAZAWA

09:00  Design and Conduct Population-Based Epidemiological Studies  
Jost JONAS

09:14  How to Write An Original Research Manuscript  
Sobha SIVAPRASAD

09:28  Preparing a Review and the Role of Editors: A Personal View Point  
Neville OSBORNE

09:42  Elements of a Case Report and Case Series  
Satoshi KASHII

09:56  Understanding Statistics in Ophthalmology  
Ching-Yu CHENG

10:10  What Are the Common Reasons for Journal Rejection and Acceptance?  
Richard PARRISH

10:24  Panel Discussion

Cornea, External Eye Diseases & Eye Bank

Contemporary Tissue Engineering of the Cornea

09:00 - 10:30  Venue: S421  
Chair(s): Shigeru KINOSHITA, Calvin PANG, Trevor SHERWIN

09:00  Tissue Engineered Cornea  
Mark DANIELL
09:10 Clinical Application of Bioengineered Corneas
Weiyun SHI

09:20 Stromal Repopulation Using Induced and Noninduced Stem Cells
Trevor SHERWIN

09:30 Cultured Human Corneal Endothelial Cell Injection Therapy for Bullous Keratopathy
Shigeru KINOSHITA

09:40 Umbilical Stem Cells in Corneal Regeneration
Jie ZHANG

09:50 Corneal Stem Cell Therapy for Keratoconus
Jorge ALIO

10:00 Ocular Surface Reconstruction Using iPS Cell-Derived Corneal Epithelium
Kohji NISHIDA

10:10 Panel Discussion

Infectious Keratitis
In Asian countries, infectious keratitis is one of the most important diseases contributing to blindness; therefore, the Asia Cornea Society Infectious Keratitis Study was carried out. We must take care of many cases of fungal and bacterial keratitis with old and new techniques and also properly diagnose and treat new types of infection, such as cytomegalovirus corneal endotheliitis. In this symposium, a wide range of current topics in infectious keratitis will be presented and discussed.

11:00 - 12:30 Venue: S421
Chair(s): Tommy CHAN, Yoshitsugu INOUE, Pinnita PRABHASAWAT

11:00 Recent Advances in the Diagnosis of Corneal Infections
Savitri SHARMA

11:10 CMV Corneal Endotheliitis
Yoshitsugu INOUE

11:20 Recent Updates of the ACSIK Study
Alvin YOUNG

11:30 Atypical Bacterial Keratitis With Prolonged Corneal Presentations
Pinnita PRABHASAWAT

11:40 Fungal Corneal Ulcer
Fatma ASYARI

11:50 Using CXL in Treating Keratitis
Tommy CHAN

12:00 A Proposed Algorithm for Curing Treatment-Resistant Acanthamoeba Keratitis
Farhan MERALI

12:10 Monitoring Bioburden of Contact Lens
Ming-Tse KUO

12:20 Panel Discussion

Orbital & Oculoplastic Surgery

My Most Challenging Case(s) in Oculoplastics

09:00 - 10:30 Venue: N201A
Chair(s): Kelvin CHONG, Hirohiko KAKIZAKI

09:00 Periorbital Necrotizing Fasciitis with Septic Shock
Hirohiko KAKIZAKI

09:15 Secondary Enophthalmos Correction
Michael GRANT

09:30 The Advanced Oculoplastic Cases: The Outcome
AR ROSNIZA

09:45 Bites Around the Eyes
Rohit SAIJU

10:00 Sight Saving Orbital Decompression
Livia TEO

10:15 Relapsing Migratory Idiopathic Orbital Inflammation
Suk-Woo YANG

Retina (Medical)

Tumors and Miscellanea

09:00 - 10:30 Venue: S221
Chair(s): Wenbin WEI, Wei-Chi WU

09:00 Retinoblastoma
Lingam GOPAL

09:12 Ocular Involvement in Hematological Malignancies
Koju KAMOI

09:24 Inflammation After Intravitreal Injection of Anti-VEGF Drugs
Haoyu CHEN

09:36 Multimodality Imaging in Macular Telangiectasia 2
Xinyuan ZHANG

09:48 Impact of Choroidal Circulation on PCV
Ji Eun LEE
10:00 Predictability of Diabetic Retinopathy Progression by the Assessment of Foveal Avascular Zone Using Optical Coherence Tomography Angiography  
Miho NOZAKI

10:12 Histopathology of Ciliary Body Tumors  
Xiaolin XU

Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy: Part II

09:00 - 10:30 Venue: S423-S424  
Chair(s): Gemmy CHEUNG, Timothy LAI

09:00 Two-Year Results of the EVEREST 2 Study  
Timothy LAI

09:15 AMD in India and Globally. Prevalence and Correlations  
Vinay NANGIA

09:30 Dry AMD Where Next?  
Adnan TUFAIL

09:45 Polypoidal Choroidal Vasculopathy and Choroid  
Won Ki LEE

10:00 Incidence of Macular Atrophy in Eyes With Neovascular AMD in an Asian Population  
Gemmy CHEUNG

10:15 Intravitreal Aflibercept Alone and With Rescue Photodynamic Therapy in Polypoidal Choroidal Vasculopathy: PLANET 2-Year Results  
Gemmy CHEUNG

Retinal Vein Occlusion, Other/Rare Maculopathies, and ROP

11:00 - 12:30 Venue: S221  
Chair(s): Naresh BABU, Marten BRELEN, Vishali GUPTA

11:00 Clinical Value of Electrophysiology  
Graham HOLDER

11:10 Inherited Retinal Dystrophies  
Adrian KOH

11:20 Genetics of Central Serous Chorioretinopathy  
Jeeyun AHN

11:30 Retinal Vessel Changes Following Anti-VEGF Therapy in Retinopathy of Prematurity  
Tapas PADHI

11:40 Biomarkers for ROP  
Inderjeet KAUR

11:50 Update on Macular Telangiectasia Type 2  
Lihteh WU

12:00 Retinal Function Assessment by Microperimetry for Patients With Idiopathic Macular Hole  
Wu LIU

12:10 Anti-VEGF Treatment in BRVO  
Raja NARAYANAN
### Feb 08, 2018 (Thu)

#### Glaucoma

**Tube Implant Surgery**

09:00 - 10:30  
*Venue: N206-N208*  
*Chair(s): Chelvin SNG*

- 09:00 Overview, Valved vs Nonvalved Tube Implants, Questions and Answers  
  *Chelvin SNG*
- 09:25 Management of Postoperative Complications  
  *Keith BARTON*
- 09:55 Surgical Complications and How to Avoid Them  
  *Mitchell LAWLOR*

**Microinvasive Glaucoma Surgery**

11:00 - 12:30  
*Venue: N206-N208*  
*Chair(s): Chelvin SNG*

- 11:00 Overview and Trabecular Bypass Devices  
  *Chelvin SNG*
- 11:40 Subconjunctival Devices and Suprachoroidal Devices  
  *Keith BARTON*

#### Orbital & Oculoplastic Surgery

**Recent Advances in Thyroid Eye Disease**

09:00 - 10:30  
*Venue: S423-S424*  
*Chair(s): Kelvin CHONG*

- 09:00 Medial and Inferior Wall Decompression  
  *Kelvin CHONG*
- 09:10 Radiotherapy: The Emerging Indications  
  *Peter DOLMAN*
- 09:20 Radiotherapy: The Emerging Indications  
  *Timothy SULLIVAN*
- 09:30 Steroid Therapy: Options and Precautions  
  *Lay Leng SEAH*
- 09:40 Clinical Evaluation: Forms and Functions? Steroid Therapy: Options and Precautions  
  *Suryasnata RATH*
- 10:00 Radiotherapy: The Emerging Indications  
  *Honglei LIU*

### Feb 09, 2018 (Fri)

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

**Strategies to Improve Allied Ophthalmic Personnel Workforce Through Capacity Development Initiatives**

09:00 - 10:30  
*Venue: S425*  
*Chair(s): William ASTLE*

- 09:00 Update on AOP Development in WHO and IAPB  
  *William ASTLE*
- 09:15 New UCAHPPO Initiative on Regional AOP Development  
  *Michael STEWART*
- 09:30 Regional Training and Certification for AOPs  
  *Jayabaskar THIYAGARAJAN*
- 09:45 Case Studies from Two Organizations on Their AOP Training Initiatives: China and Invited NGO  
  *Daniel KIAGE*
- 10:00 Developing Training Resources and Assessment Strategies to Advance the Productivity Impact on Eye Care  
  *Lynn ANDERSON*

**Concept Maps to Promote Deep Learning of Medical Knowledge**

14:30 - 16:00  
*Venue: S228*  
*Chair(s): Ana PALIS*

- 14:30 Introduction, Definition, Assessment, Conclusion  
  *Ana PALIS*
- 15:10 Teaching to Build Concept Maps, Software  
  *Eduardo MAYORGA*

#### Ocular Oncology & Pathology

**Recent Advances in the Diagnosis and Management of Conjunctival Tumors**

11:00 - 12:30  
*Venue: S226-S227*  
*Chair(s): Santosh HONAVAR*

- 11:00 Management of Conjunctival Tumors  
  *Santosh HONAVAR*
- 11:30 Epithelial and Melanocytic Tumors  
  *Fairooz MANJANDAVIDA*
INSTRUCTION COURSES

Feb 10, 2018 (Sat)

Cataract Surgery in Difficult Eyes

16:30 - 18:00 Venue: S226-S227 Chair(s): Soon-Phaik CHEE
16:30 The Soft Cataract Ronald YEOH
16:40 The White Cataract Seng Ei TI
16:50 The Brunescent Cataract Seng Ei TI
17:00 The Posterior Polar Cataracts Soon-Phaik CHEE
17:10 Handling the Small Pupil Soon-Phaik CHEE
17:20 Phaco in High Myopia and Post Vitrectomy Eyes Ronald YEOH
17:30 Managing IOL Implantation When Capsule or Zonules Are Compromised Soon-Phaik CHEE
17:45 Questions and Answers

Black or White Cataract: Phaco Is Our Choice

16:30 - 18:00 Venue: S228 Chair(s): Arulmozhi VARMAN
16:30 FLACS and Direct Chop for Mature Cataracts Arulmozhi VARMAN
16:46 Phacodynamics for Mature Cataracts Athheek SHAIK
16:54 Rhexis Management Ramesh DURAIKAN
17:02 Stop and Chop in White and Black Cataracts Jeyanthan SOUNDARAPANDIAN
17:10 Complications Management M NIVEAN

Cornea, External Eye Diseases & Eye Bank

Advances in Endothelial Keratoplasty

09:00 - 10:30 Venue: S223 Chair(s): Marcus ANG
09:00 Overview and Introduction: Evolution of Endothelial Keratoplasty Marcus ANG
09:15 Descemetorrhexis Without EK: DWET Gregory MOLONEY
09:30 Advances in DSEK Maninder BHOGAL
09:45 Approach to DMEK Martin DIRISAMER
10:00 Descemet Membrane Transfer and Endothelial Cell Therapy Jodhbir MEHTA

Unusual Outcomes After Corneal Collagen Crosslinking: Explanation and Management

14:30 - 16:00 Venue: S428 Chair(s): Rohit SHETTY
14:30 Dark Side of CXL: Explained Rohit SHETTY
14:42 Role of Biomarkers Influencing CXL Outcome Pooja KHAMAR
14:54 Keratitis Post Crosslinking: Something Is Different? Prerna AHUJA
15:06 Progression After CXL: Who’s at Fault, Surgeon/Machine?
Pallak KUSUMGAR

15:18 Haze Post Crosslinking: Should I Be Happy or Sad?
Vaitheeswaran GANESAN

Intraocular Inflammation, Uveitis & Scleritis

Viral Retinitis: An Asian Perspective
14:30 - 16:00 Venue: S228
Chair(s): Ian WONG
14:30 Introduction and Background
Ian WONG
14:45 Surgical Treatment
Yusuke MURAKAMI
15:00 Medical Treatment
De-Kuang HWANG
15:15 Latest Evidence
Yong TAO

Ocular Imaging

Introduction to OCT Angiography for General Ophthalmologists
14:30 - 16:00 Venue: S226-S227
Chair(s): Anna TAN
14:30 Introduction to OCTA and an Approach to OCTA Interpretation
Anna TAN
14:40 OCTA Applications for Choroidal Diseases
Anna TAN
14:50 OCTA Application for Retinal Diseases
Gemmy CHEUNG
15:00 How to interpret OCTA for the Optic Nerve
Leopold SCHMETTERER
15:10 Basics of OCTA for the Anterior Segment
Marcus ANG
15:20 The Future and Upcoming Advances in OCTA
Leopold SCHMETTERER
15:30 Case Discussions

Refractive Surgery

Should I Try SMILE in My Practice?
16:30 - 18:00 Venue: S423-S424
Chair(s): Tommy CHAN
16:30 Learning Curve of SMILE
Tommy CHAN
16:45 Science and Optics Behind SMILE
Alex NG
17:00 Outcomes of SMILE
Vishal JHANJI
17:15 Management of Intraoperative and Postoperative Challenges
Yan WANG
17:35 SMILE Procedure: Step by Step With Videos
George CHENG

Feb 11, 2018 (Sun)

Cataract

Femtosecond Laser-Assisted Cataract Surgery in Challenging Situations
09:00 - 10:30 Venue: S228
Chair(s): Jeewan TITIYAL
09:00 Posterior Polar Cataract, White Cataract
Jeewan TITIYAL
09:20 Subluxated Lens, Post-PPV Cataract
D RAMAMURTHY
09:40 Small Pupil
Boris MALLYUGIN
09:50 Hard Cataract
Soon-Phaik CHEE

Advanced Diagnostics for Cataract Surgeons: Additional Need or Additional Cost
11:00 - 12:30 Venue: S428
Chair(s): Samaresh SRIVASTAVA
11:00 Aberrometry for the Cataract Surgeon
Samaresh SRIVASTAVA
11:15 Optical Biometry for the Cataract Surgeon
Sonu GOEL
11:30 Tear Film Analysis for the Cataract Surgeon
Kareeshma WADIA
11:45 Schiempflug Imaging for the Cataract Surgeon
Mukesh PARYANI
Cornea, External Eye Diseases & Eye Bank

Comprehensive Management of Ocular Complications of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Asians

09:00 - 10:30  Venue: S223
Chair(s): Kendrick SHIH

09:00  Limbal Epithelial Transplantation and Keratoprosthetics
Kendrick SHIH

09:20  Use of Scleral Contact Lenses for Visual and Ocular Surface Rehabilitation
Vanissa CHOW

09:35  Diagnosis and Classification: Prognostic Implications
Tommy CHAN

09:50  Management of Acute Ocular Surface Inflammation: Paradigm Shift Towards Early Amniotic Membrane Transplantation
Alex NG

10:05  Ocular Surface Reconstruction
Ka Wai KAM

Ocular Oncology & Pathology

Advanced Ocular Malignancy: Challenges and Current Management Strategies

09:00 - 10:30  Venue: N206-N208
Chair(s): Rajendra MAURYA

09:00  Neoadjuvant Chemotherapy for Advanced Eyelid Malignancies
Rajendra MAURYA

09:10  Recent Advances in Management of Extensive Conjunctival Malignancies
Swathi KALIKI

09:20  Reconstructive Surgeries for Eyelid and Periocular Malignancies
Ashok GROVER

09:35  Recent Trends in Management of Advanced Retinoblastoma
Bhavna CHAWLA

09:50  Management of Orbital Malignancies: What Is New?
Syeed KADIR

Orbital & Oculoplastic Surgery

Stereoscopic 3D Oculoplastic Surgery Show

09:00 - 10:30  Venue: S224-S225
Chair(s): Santosh HONAVAR

09:00  Introduction, Anatomy, Eyelid, and Orbit
Santosh HONAVAR

09:50  Lacrimal and Socket
Raksha RAO

Pediatric Ophthalmology & Strabismus

Management of Intermittent Exotropia: From Assessment to Surgical Management

11:00 - 12:30  Venue: N206-N208
Chair(s): Jason YAM

11:00  Surgical Management of Intermittent Exotropia
Jason YAM

11:20  Evaluation of Patients With Exotropia
Tak Chuen KO

11:35  Introduction
Connie LAI

11:50  Nonsurgical Management of Intermittent Exotropia
Julie LOK

Retina (Surgical)

How to Optimize Final Visual Outcomes: A VR Surgeon’s Guide to the Cataract Surgeon

09:00 - 10:30  Venue: S226-S227
Chair(s): Wai-Ching LAM

09:00  PC Rent and Nucleus Drop: How to Achieve 20/20?
Wai-Ching LAM
09:14 Postoperative Endophthalmitis: First Aid and Beyond
Shrinivas JOSHI

09:28 Expulsive Hemorrhage: Not All Is Lost!
Guruprasad AYACHIT

09:42 Cataract Surgery With Coexisting Diabetic Retinopathy
Shao Onn YONG

09:56 Cataract Surgery in High Myopia: Challenges and Solutions
Sherman VALERO
Feb 08, 2018 (Thu)

**Neuro-Ophthalmology**

**Rapid Fire Neuro-Ophthalmology Update Session**

11:00 - 12:30 **Venue: S428**  
**Chair(s): François-Xavier BORRUAT, Dean CESTARI, Clare FRASER**

11:00  
Clinical Characteristics of Optic Neuritis in Children With MOG Antibody Positive  
*Shaoying TAN*

11:06  
The Good Response of Aquaporin 4 Seropositive Optic Neuritis to Low-Dose Rituximab Treatment  
*Shuo ZHAO*

11:12  
Pathological Involvement of Astrocyte-Derived Lipocalin-2 in Demyelinating Optic Neuritis  
*Bo Young CHUN*

11:18  
Potential Therapeutic Benefit of Synthetic Agents in Experimental Neuromyelitis Optica Rat Model  
*Hao KANG*

11:24  
Distinct Clinical Characteristics of Atypical Optic Neuritis With Seronegative Aquaporin-4 Antibody Among Chinese Patients  
*Huanfen ZHOU*

11:30  
Effectiveness of Plasma Exchange in Acute Neuromyelitis Optica-Related Optic Neuritis  
*Shaoying TAN*

11:36  
Risk Factors Differentiating Nonarteritic Anterior Ischemic Optic Neuropathy Between Young and Elderly Patients  
*Shan CAO*

11:42  
Diagnostic Yield of Investigations in Ocular Myasthenia Gravis Presenting as Ptosis  
*Akshay NAIR*

11:48  
Visual Outcomes and Clinical Manifestations of Indian Pediatric Optic Neuritis: An Institutional Study  
*Selvakumar AMBIKA*

11:54  
Sensitivity and Specificity of New Visual Field Screening Software for Diagnosing Hemianopia  
*Patcharaporn JARU-AMPORNPAAN*

12:00  
Tear Biomarkers, Optics, and Nerves (TONE): A Novel Migraine Axis  
*Chaithra AROOR*
10:12  Predictive Analysis of Accommodation and Biomechanics of Ciliary Muscle Forces Utilizing 3D Finite Element Model
Annmarie HIPSLEY

10:18  Expanding Genetic Landscape and Phenotypic Spectrum of 540 Chinese Patients With Nonsyndromic High Myopia
Xue-Bi CAI

10:24  Regulation of Orbital Fibrosis and Adipogenesis by Pathogenic Th17 Cells in Graves Orbitopathy
Sijie FANG

Feb 09, 2018 (Fri)

Cataract

Rapid Fire Cataract Update Session

09:00 - 10:30  Venue: S223
Chair(s): Helena FILIPE, Haiying JIN, Harvey UY

09:00  Therapeutic Hydrogels for Prevention of Postoperative Endophthalmitis
Helena FILIPE

09:06  Comparison of the Accuracy of 6 Intraocular Lens Power Calculation Formulas at Different Axial Lengths
Tan QIAN

09:12  Long-Term Outcomes of Phacoemulsification Surgery With Intraocular Lens AT LISA Tri Implantation
Nguyen Xuan HIEP

09:18  Clinical Outcomes of Hybrid Micromonovision-Extended Range of Vision IOL With Monofocal IOL
Sheetal BRAR

09:24  Femtosecond Laser Versus Manual Clear Corneal Incisions in Cataract Surgery Using Spectral-Domain Optical Coherence Tomography
Xiaogang WANG

09:30  Antibiotic Prophylaxis Practice Patterns for Cataract Surgery in India
Aditya KELKAR

09:36  Comparative Prospective Analysis of Visual Performance Outcomes Between EDOF and Trifocal IOLs
Suvira JAIN

09:42  Comparison of Astigmatism Correction Between Anterior Penetrating and Intrastromal Arcuate Incisions in Eyes Undergoing Femtosecond Laser-Assisted Cataract Surgery
Sheetal BRAR

09:48  Surgically Induced Astigmatism Following Phacoemulsification Using Clear Corneal Incisions in Patients With Different Corneal Diameters
Rohit SREENATH

09:54  Enhancing Intermediate Vision and Patient Satisfaction by Combining an Enhanced Depth of Focus IOL and a Trifocal IOL Model With Different Add Powers
Florian KRETZ

10:00  Clinical Outcomes of a Novel IOL Design Using Femtosecond Laser-Assisted Cataract Surgery
Sunil SHAH

10:06  Visual Outcomes of Cataract Surgery With Posterior Chamber Intraocular Lens Implantation With Optical Iridectomy in Patients With Central Deep Stromal Corneal Opacities and Cataract
Anilraj KADABIGERE

10:12  Maximizing Astigmatism Correction Using Topography-Guided, Laser-Assisted Cataract Surgery
Harvey UY

10:18  Influence of Posterior Corneal Astigmatism on the Outcome of Toric IOL Implantation
Jeyanthan SOUNDRAPANDIAN

10:24  Long-Term Comparative Outcome of 5 Multifocal Intraocular Lenses
Michael ASSOULINE

Cornea, External Eye Diseases & Eye Bank

Rapid Fire Cornea, External Eye Diseases & Eye Bank Update Session 1

16:30 - 18:00  Venue: S228
Chair(s): Colin CHAN, Victoria WONG

16:30  Treating Corneal Edema With Artificial Corneal Endothelial Implant, EndoArt: First Human Experience and 4 Years of Animal Study
Ofer DAPHNA

16:37  Longitudinal Study of Corneal Endothelium in Long-Term Amantadine Therapy in Asian Indian Eyes
Daggumilli SUDHA
16:44  Reconstruction and Assessment of Monkey Tissue-Engineered Corneal Endothelium  
Qing LU

16:51  Outcomes of Simple Limbal Epithelial Transplantation in Patients With Primary Failed Cultivated Limbal Epithelial Transplantation  
Sashwanthi MOHAN

16:58  Pentagram Suturing Anterior Chamber Plasty and Descemet-Stripping Automated Endothelial Keratoplasty for Bullous Keratopathy With Extensive Anterior Synechia of the Iris  
Xiang FAN

17:05  Results of Amniotic Membrane Transplantation According to Indications of Ocular Surface Disease  
Chan-Ho CHO

17:12  Effect of Cornea Preservation Time on Descemet Stripping Endothelial Keratoplasty Success and Endothelial Cell Loss: A Multicenter Randomized Clinical Trial  
Shahzad MIAN

17:19  Association of Human Leukocyte Antigen Class I Genes With Stevens-Johnson Syndrome With Severe Ocular Complications in an Indian Population  
Mayumi UETA

17:26  Comparison of Simple Excision With or Without Amniotic Membrane Graft Versus Lamellar Keratoplasty in Patients With Limbal Dermoid  
Chaitali PATEL

17:33  Efficacy of 0.1% Topical Tacrolimus in High-Risk Keratoplasty: A Long-Term, Comparative Study  
Yuan QIU

17:40  PTK in Myopic PRK Mode Followed by Refractive Neutralization by Hyperopic PRK for Central Anterior Corneal Opacities in a Single Setting  
Anjum MAZHARI

17:47  The Efficacy of Systemic Analgesics in Management of Pain and Ocular Symptoms Following Photorefractive Keratectomy  
Alireza ESLAMPOOR

17:54  The Hyper-CL Multicenter Study  
Ofer DAPHNA

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**Rapid Fire Glaucoma Update Session 1**

14:30 - 16:00  **Venue: S425**  
**Chair(s): Poemen CHAN, Xiang MA, Shamira PERERA**

14:30  MRI Evaluation of Ahmed Glaucoma Valve Bleb and Correlation to Intraocular Pressure in Neovascular Glaucoma  
Charudutt KALAMKAR

14:37  Direct and Indirect Associations Between Diabetes and Intraocular Pressure: The Singapore Epidemiology of Eye Diseases Study  
Xiao Yang LUO

14:44  An Observational Study to Evaluate a New Scoring System for Angle Dimension in Angle Closure Disease  
Supriya SHARMA

14:51  Anterior but not Posterior Choroid Changes Before and During Valsalva Maneuver in Healthy Chinese: A UBM and SS-OCT Study  
Fei LI

14:58  Single Session of Transscleral Diode Laser Cyclophotocoagulation in Refractory Glaucoma Treatment: A Retrospective Analysis  
Made WIDYANATHA

15:05  Phacoemulsification Versus Phacoemulsification With iStent in Primary Angle Closure Glaucoma: 12-Month Results of a Randomized Controlled Trial  
Jason CHENG

15:12  Characteristic Pattern of OCT Abnormalities in the RNFL Thickness Deviation Map Enables Differentiation Between False-Positive and Glaucoma in Myopic Eyes  
Kunliang QIU

15:19  Evaluation of Ganglion Cell-Inner Plexiform Layer Thinning in Eyes With Optic Disc Hemorrhage: A Trend-Based Progression Analysis  
Won June LEE

15:26  Comparison of a New Low Cost Nonvalved Glaucoma Drainage Device With Ahmed Glaucoma Valve in Refractory Pediatric Glaucoma  
Sriramani GOLLAKOTA

15:33  Cost-Effectiveness of Phacoemulsification Versus Combined Phacotrabeculectomy for Treating Primary Angle Closure Glaucoma  
Poemen CHAN
15:40 A Multicenter Retrospective Comparison of Kahook Dual Blade Goniotomy to iStent Trabecular Bypass Device Implantation in Glaucoma Patients Undergoing Cataract Extraction  
Inder SINGH

11:00 Quantification of Retinal Microvascular Parameters Using Optical Coherence Tomographic Angiography in Adults With Systemic Hypertension  
Jacqueline CHUA

11:06 Artificial Intelligence Using Deep Learning System for Diabetic Retinopathy Screening in Multiethnic Populations With Diabetes  
Daniel TING

11:12 An Improvement of Machine Detection for Any Diabetic Retinopathy by Preprocessing Retinal Photographs to Entropy Images in Deep Learning  
Gen-Min LIN

11:18 Novel Manual Grading Technique of Optical Coherence Tomography Scans to Measure Choroidal Thickness  
Louis LIM

11:24 Effectiveness of a 4-Year-Old Urban Teleretinal Screening Program for Diabetic Retinopathy  
Christina WENG

11:30 Association Between Disorganization of the Retinal Inner Layers and Visual Acuity in Chinese Eyes With Diabetic Macular Edema  
Zihan SUN

11:36 Smartphone vs Conventional Videography: The Verdict  
Wern Yih CHONG

11:42 Correlation of Optical Coherence Tomography Angiography and Indocyanine Green Angiography in Polypoidal Choroidal Vasculopathy  
Colin TAN

Kevin CHAN

11:54 Evaluation of a New, Low-Cost Domain Optical Coherence Tomography Machine  
Harvey UY

12:00 Can MRI Be Used as a Staging Tool for Retinoblastoma? A Single Center Experience With Cases of Retinoblastoma  
Preethi JEYABAL

12:06 Reliability of Disorganization of the Retinal Inner Layer Measurements From Spectral-Domain Optical Coherence Tomography in Eyes With Diabetic Macular Edema  
Tiffany TSO

12:12 Swept-Source OCT for Prosthetic Replacement of Ocular Surface: Tailoring the Fit  
Radhika NATARAJAN

12:18 Pentacam Top Indices for Diagnosing Subclinical and Definite Keratoconus  
Sonu GOEL

12:30 Identification of Gene Mutations in Atypical Retinopathy of Prematurity Cases  
Yian LI

12:36 Pediatric Cataract: Is There Any Role of Studying the Gene Expression?  
Vimal RAJPUT

12:42 Altered Tear Dopamine: A Novel Biomarker for Pediatric Myopia  
Ritika DALAL

12:48 Recurrence Rate of Retinopathy of Prematurity Following Single Injection of Anti-Vascular Endothelial Growth Factor  
Rita GANGWANI

13:00 Lens Coloboma in Marfan Syndrome: A Case Report  
Jianhui PAN

13:06 Structural and Functional Assessments of Inner Retinal Layers, Optic Nerves and Chiasm, and Visual Field in Glaucoma Using OCT, MRI, and Perimetry  
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Kevin CHAN
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Author</th>
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<tbody>
<tr>
<td>15:06</td>
<td>Prognostic Factors in Children With Congenital Cataract Associated With Congenital Rubella Syndrome</td>
<td>Deepti JOSHI</td>
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<td>15:12</td>
<td>Cryopreserved Rabbit Amniotic Membrane Alleviated Inflammatory Response and Fibrosis Following Experimental Strabismus Surgery in Rabbits</td>
<td>Bo Young CHUN</td>
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<td>Efficacy of Primary Intravitreal Ranibizumab for Treatment of Retinopathy of Prematurity in China</td>
<td>Jing FENG</td>
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<td>15:24</td>
<td>A Double-Blind, Placebo-Controlled Trial of Fluoxetine for the Treatment of Adult Amblyopia</td>
<td>Arash MIRMOMHAMMADSADEGHI</td>
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<td>15:30</td>
<td>Wide-Field Digital Imaging and Telemedicine for Retinopathy of Prematurity Screening: The Auckland Experience</td>
<td>Samantha SIMKIN</td>
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<tr>
<td>15:36</td>
<td>Lateral Rectus Recession With Superior Rectus Transposition in Esotropic DRS With Significant Co-contraction, Globe Retraction, and Shoots</td>
<td>Pramod Kumar PANDEY</td>
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<td>15:42</td>
<td>Ocular Anomalies and Treatment of Pediatric Incontinentia Pigmenti Patients</td>
<td>Jie PENG</td>
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<td>16:06</td>
<td>Reliability of the New Innovative Eye Shield for Head Tracking Devices</td>
<td>Wannasiri LIMSUKNIRUN</td>
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<td>16:12</td>
<td>Predictive Factors and Long-Term Outcome of Rhegmatogenous Retinal Detachment Associated With Choroidal Detachment</td>
<td>Hoi Yau TANG</td>
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<td>17:06</td>
<td>Long-Term Outcome of Conventional and Half-Fluence Photodynamic Therapy for Chronic Central Serous Chorioretinopathy</td>
<td>Kunho BAE</td>
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<td>17:12</td>
<td>Optic Disc Pit Maculopathy Successfully Treated With Autologous Platelet-Rich Plasma: Report of a Surgical Technique</td>
<td>Muhammad Faisal MURTAZA</td>
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<td>17:18</td>
<td>Effects of Intraocular Pressure Control at the End of Vitrectomy on the Anatomical and Visual Recovery Process in Patients With Vitreous Hemorrhage: A Prospective, Randomized, Comparative, Interventional Study</td>
<td>Chuandi ZHOU</td>
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<td>Role of Control of HbA1c in Attaining Maximum Results of Panretinal Photocoagulation in Patients With Proliferative Diabetic Retinopathy</td>
<td>Sara RIAZ</td>
</tr>
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<td>Characteristics and Surgical Outcome of Rhegmatogenous Retinal Detachment in Young Patients: A 7-Year Review</td>
<td>Tiffany YEUNG</td>
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<td>17:42</td>
<td>Subfoveal Choroidal Thickness and Its Influencing Factors in Patients With Thyroid-Associated Ophthalmopathy</td>
<td>Sisi ZHONG</td>
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<td>Stage of Chronic Kidney Disease as a Prognostic Factor for Diabetic Retinopathy in Patients With Previously Established Diabetes</td>
<td>Amash AQIL</td>
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<td>Visual Performance and Retinal Changes in Patients With Rheumatoid Arthritis on Hydroxychloriquine Therapy: A Sri Lankan Experience</td>
<td>Ganga TENNAKOON</td>
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<td>EVA1A/TMEM166 Regulates Choroidal Neovascularization by Autophagy</td>
<td>Lyuzhen HUANG</td>
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<td>Shared Genetic Loci Between Systemic Lupus Erythematosus and Age-Related Macular Degeneration in East Asians</td>
<td>Masayuki YASUDA</td>
</tr>
</tbody>
</table>
### Rapid Fire Cornea, External Eye Diseases & Eye Bank Update Session 2

**Venue:** S228  
**Chair(s):** Vanissa CHOW, Geetha IYER, Jeewan TITIYAL

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Authors</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Evaluation of Crosslinked Donor Corneas in Therapeutic Keratoplasty in Cases of Fungal Keratitis</td>
<td>Jeewan TITIYAL</td>
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<td>11:06</td>
<td>Corneal Neurotization in the Treatment of Neurotrophic Keratitis: Long-Term Follow-Up</td>
<td>Asim ALI</td>
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<td>11:12</td>
<td>Clinical Analysis of Fungal Keratitis According to Use of Previous Topical Steroids</td>
<td>Sang-Bumm LEE</td>
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<tr>
<td>11:18</td>
<td>Microbial Profile of Infectious Keratitis With Nasolacrimal Duct Obstruction</td>
<td>Supriya SHARMA</td>
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<td>11:24</td>
<td>Tacrolimus 0.1% as an Alternative to Loteprednol 0.5% in the Management of Nummular Keratitis: A Pilot Study in 100 Cases</td>
<td>Madhu UDDARAJU</td>
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<td>11:30</td>
<td>Pythium Keratitis: Role of Adjunctive Measures in Management</td>
<td>Shweta AGARWAL</td>
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<td>11:37</td>
<td>Clinical Characteristics, Microbiology Examination, and Treatment Outcomes of Microsporidial Stromal Keratitis</td>
<td>Pham DONG</td>
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<td>11:43</td>
<td>Clinical Observation of Pranoprofen in the Treatment of Blepharokeratoconjunctivitis</td>
<td>Ting YU</td>
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<tr>
<td>11:49</td>
<td>Pterygium Excision With Conjunctival Autograft and Autologous Blood: Economical and Effective Technique for Patients in Developing Nations</td>
<td>Prasoon PANDEY</td>
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<td>11:55</td>
<td>Comparison of Organic Light-Emitting Diodes and Light-Emitting Diodes for the Level of Hazardous Effect on Corneal and Conjunctival Cells</td>
<td>Sangchul YOON</td>
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### Rapid Fire Glaucoma Update Session 2

**Venue:** S428  
**Chair(s):** Chunyan QIAO, Tsing-Hong WANG

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<th>Time</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Antifibrotic Effect of Conbercept (KH902) on Human Tenon Fibroblasts</td>
<td>Shaodan ZHANG</td>
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<td>09:07</td>
<td>Antifibrotic Effect of Rapamycin, an Inhibitor of the mTOR Pathway, on the TGF-β2 Induced Proliferation of Human Tenon Fibroblasts</td>
<td>Lin DU</td>
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<td>09:14</td>
<td>Protective Effect of <em>Erigeron breviscapus</em> Hand-Mazz Extract in Retinal Hypoxia Models</td>
<td>Jingyuan ZHU</td>
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<tr>
<td>09:21</td>
<td>Mutation Analysis of the CYP1B1 Gene in Vietnamese Primary Congenital Glaucoma Patients</td>
<td>Ha TRAN</td>
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<tr>
<td>09:28</td>
<td>Can Scleral Intraocular Pressure Measurements by Schiotz, Icare, and Icare PRO Tonometers Predict Central Corneal Goldmann Applanation Tonometry Readings?</td>
<td>Sriramani GOLLAKOTA</td>
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<tr>
<td>09:35</td>
<td>Diurnal Variations in the Morphology of the Schlemm Canal and Intraocular Pressure in Healthy Chinese: A Swept-Source Optical Coherence Tomography Study</td>
<td>Kai GAO</td>
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<tr>
<td>09:42</td>
<td>Outcomes of Microcathether-Assisted Trabeculotomy in the Treatment of Primary Congenital Glaucoma After Failed Glaucoma Surgeries</td>
<td>Huai Zhu WANG</td>
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</table>
09:49 Preliminary Study on the Noninvasive Evaluation of Cerebrospinal Fluid Pressure in Ocular Hypertension: The Beijing Intracranial and Intraocular Pressure Study
Xiaobin XIE

09:56 Comparative Evaluation of Trabeculectomy With Mitomycin C Versus Trabeculectomy With Mitomycin C Augmented With Biodegradable Collagen Implant (Ologen)
Mrittika SEN

10:03 Efficacy of Selective Laser Trabeculoplasty for Lowering Intraocular Pressure in Post-Laser Iridotomy Primary Angle Closure Disease Patients
Surishti RAJ

10:10 Association Between Normal Tension Glaucoma and an Increased Risk of Alzheimer Disease: A Nationwide Population-Based Follow-Up Study
Yu-Yen CHEN

10:17 The Role of Cellular Connections in Schlemm Canal Endothelial Cells in Regulating Segmental Aqueous Outflow
Yanfeng SU

COHK/HKOS Free Paper Symposium 1

11:00 - 12:30 Venue: S426-S427
Chair(s): Timothy LAI, Shao Onn YONG, Dan ZHU

11:00 Ranibizumab With or Without Verteporfin Photodynamic Therapy for Polypoidal Choroidal Vasculopathy: Anatomical Outcomes Over 12 Months in the EVEREST II Study
Timothy LAI

11:10 Combined Phacoemulsification-Endoscopic Cyclophotocoagulation Versus Phacoemulsification Alone in Primary Angle-Closure Glaucoma: A Randomized Controlled Trial
Isabel LAI

11:20 Topical Antiglaucomatous Use in a Regional Thyroid Eye Clinic: A Prospective Cohort Study With 750 Thyroid Associated Ophthalmopathy Patients
Rachel LEUNG

11:30 The Influence of Household Exposure of Secondhand Smoke on Retinal Vasculature in Children: The Hong Kong Children Eye Study
Siu-Hang WONG

11:40 Long-Term Outcomes of Punch Punctoplasty With Kelly Punch and Review of Literature
Emily WONG

11:50 Trends in the Incidence of Retinopathy of Prematurity Over a 10-Year Period at a Tertiary Hospital
Po Chee CHOW

Orbital & Oculoplastic Surgery

Rapid Fire Orbital & Oculoplastic Surgery Update Session

16:30 - 18:00 Venue: S428
Chair(s): Dongmei LI, Audrey LOOI, Timothy SULLIVAN

16:30 A Dirofilaria Young Adult in the Anterior Chamber of the Eye: A Case Report From Sri Lanka
Lalitha SENARATH

16:36 Orbital Myiasis: Clinical Spectrum and Management Outcomes With Special Emphasis on Scanning Electron Microscopic Study
Rajendra MAURYA

16:42 Effect of Upper Eyelid Blepharoplasty on Tear Film Parameters and Ocular Surface Morphology in Patients With Dermatochalasis and Lash Ptosis
Nilutporna DAS

16:48 Comparative Study Between Probing Done With and Without Nasal Endoscopy in Management of Congenital Nasolacrimal Duct Obstruction
Smriti BANSAL

16:54 Periocular and Orbital Amyloidosis: Clinical Profile and Management Strategy at a Tertiary Eye Hospital
Golam HAIDER

17:00 Permeability of Optic Nerve by Variable Concentration of Hyaluronidase for Management of Hyaluronic Acid Facial Filler Embolism
Namrata ADULKAR

17:06 Asian Double Eyelid Blepharoplasty: A Prospective Study to Analyze Patient Requirements and Surgical Technique in 144 Cases
Noornika KHURAIJAM

17:12 Transorbital Endoscopic Surgery for Cranio-Orbital Tumors
Jeong Hee KIM

17:18 The Role of a Vital Factor in Orbital Venous Malformation
Yongyun LI
17:24 Exploration of a Newly Introduced Operation With Combined Fascia Sheath Suspension in Ptosis Repair  
Ming LIN

17:30 Orbital Decompression With Precise Design, Refined Manipulation, and Accurate Verification in Thyroid Eye Disease  
Huifang ZHOU

17:36 Transconjunctival Triamcinolone Injection for Upper Lid Retraction in Thyroid Eye Disease  
Dong Cheol LEE

17:42 Double Eyelid Blepharoplasty Incorporating Epicanthoplasty Using a Modified L-Epicanthoplastic Technique  
Jin LI

17:48 Autologous Fat Graft for the Treatment of Sighted Posttraumatic Enophthalmos and Orbital Depression  
Hui CHEN

Feb 11, 2018 (Sun)

**Cornea, External Eye Diseases & Eye Bank**

**Rapid Fire Cornea, External Eye Diseases & Eye Bank Update Session 3**

11:00 - 12:30 **Venue: S224-S225**  
**Chair(s): Tsz-Kin NG, Gaurav PRAKASH, Minoru TOMITA**

11:00 A Clinical Utility Assessment of the Automatic Measuring Method of the Quality of Meibomian Glands  
Lei TIAN

11:07 Intense Pulsed Light Treatment for Dry Eye Disease and Change in Osmolarity  
Francesco CARONES

11:14 Corneal Crosslinking in Progressive and Stable Keratoconus  
Yu Meng WANG

11:21 Statistical Models to Define Treatment Failure/Inadequacy and Indications for Retreatment in Corneal Crosslinking for Keratoconus  
Gaurav PRAKASH

11:28 Vision-Related Quality of Life in Patients With Keratoconus  
Shahram BAMDAD

11:35 Histological and MicroRNA Signatures of Corneal Epithelium in Keratoconus  
Tsz-Kin NG

11:42 Creation and Validation of a Classifier Model for Keratoconus Detection Using Interocular Asymmetry-Based Parameters  
Gaurav PRAKASH

11:49 Corneal Stromal Augmentation: An Effective Alternative to DALK in Advanced Nonscarred Keratoconic Eyes  
Lional Raj PONNIH

11:56 Combined OCT-Guided Femtosecond Laser-Assisted Intracorneal Ring Segment Implantation and Corneal Collagen Crosslinking Using Intracorneal Riboflavin Injection for the Correction of Corneal Ectasia  
Minoru TOMITA

12:03 Cellular Biomarkers and Impact on Corneal Crosslinking: A Mechanistic Approach  
Pooja KHAMAR

12:10 Artificial Intelligence Imaging-Based Customized Corneal Crosslinking: A Novel Approach to Strengthen the Cornea  
Vaitheswaran GANESAN

12:17 Impact of Bubbling Pressure on Endothelial Cell Quality in Pre-Descemet Endothelial Keratoplasty Preparation  
Joshua HOU

**Miscellaneous**

**Rapid Fire Ophthalmic Epidemiology and Prevention of Blindness Update Session**

09:00 - 10:30 **Venue: S425**  
**Chair(s): Somkiat ASAWAPHUREEKORN, Prut HANUTSAHA**

09:00 Burden of Vision Loss Associated With Eye Disease in China 1990-2020: Findings From the Global Burden of Disease Study 2015  
Bingsong WANG

09:07 Incidence and Prevalence of Central Serous Chorioretinopathy and Associated Steroid Use in South Korea: National Sample Cohort 2002-2015  
Tyler RIM

09:14 Six-Year Incidence of Visual Impairment in a Multiethnic Asian Population: The Singapore Epidemiology Eye Disease Study  
Yih-Chung THAM

09:21 Association Between the Severity of Myopia and Physical Performance of Military Males  
Jia-Wei LIN
09:28 Prevalence of Refractive Error, Presbyopia, and Unmet Need of Spectacle Coverage in a Northern District of Bangladesh: Rapid Assessment of Refractive Error Study
Mohammad MUHIT

09:35 Exercise is Associated With Less Myopia in Southern Californian Children
Donald FONG

09:42 Barriers to Optimal Diabetic Retinopathy Management in an Indonesian Population With Type 2 Diabetes: Jogjakarta Eye Diabetic Study in the Community (JOGED.COM)
Sarah INDRAYANTI

09:49 Results of WHO Tool for Assessment of Diabetic Retinopathy and Diabetic Management Systems Survey in Pakistan
Tayyab AFGHANI

09:56 Early Cataract Detection by Health Workers and Cadres as Key Informants in Bandung, Indonesia
Nindya LUBIS

10:03 Community Perspective of Pediatric Oculoplastic Disorders and Intervention
Mukti MITRA

10:10 Using Photovoice to Understand the Perception of Eye Disease and Self-Driven Solutions to the Barriers Among Women Living in Rural Malawi
Hayea JUN

10:17 Development of Machine Learning Algorithms for Predicting Prognosis in Diabetic Macular Edema
Shaochun CHEN

10:24 The Association Between Cataract Surgery and the Progression of Diabetic Retinopathy: A Systematic Review and Meta-Analysis
Lei LIU

Rapid Fire Intraocular Inflammation, Uveitis & Scleritis and Prevention of Blindness Update Session

09:00 - 10:30 Venue: S426-S427
Chair(s): Peter MCCLUSKEY, Shaheeda MOHAMED, Kalpana Babu MURTHY

09:00 Retinal Transcriptome Profile Reveals the Involvement of RIG-I-Like Receptor Signal Pathway in the Treatment of Endotoxin-Induced Uveitis With Dexamethasone in Mice
Bo LEI

09:07 Endophthalmitis Following Suture Removal: Clinical Outcomes and Microbiological Profile
Bhavik PANCHAL

09:14 Early Posttreatment Choroidal Thickness to Alert Sunset Glow Fundus in Patients With Vogt-Koyanagi-Harada Disease Treated With Systemic Corticosteroids
Kiriko HIROOKA

09:21 Clinical Presentation, Diagnostic Dilemma, and Management Outcomes of Chronic Postoperative Endophthalmitis Caused by Stephanoascus ciferrii
Vivek DAVE

09:28 Disease Modifying Drugs in Sclerosing Idiopathic Orbital Inflammatory Syndrome: Concept and Application
Farzad PAKDEL

09:35 Vitreous Haze Improvement with Every-Other-Month Intravitreal Sirolimus in Subjects With Noninfectious Uveitis of the Posterior Segment
Vishali GUPTA

09:42 Clinical Profile, Risk Analysis, and Treatment Outcomes of Post-Cataract Surgery Cluster Endophthalmitis Caused by Multidrug-Resistant Pseudomonas aeruginosa
Diva MISRA

09:49 Real-Time Polymerase Chain Reaction in Infectious Uveitis: A Study of 87 Cases From a Tertiary Eye Care Center in South India
Jyotirmay BISWAS

09:56 Corneal Endothelium in Pediatric Patients With Uveitis: A Longitudinal Study
Simon FUNG

10:03 Agreement of Reading Acuity Measurement Using Cicendo Word Reading Chart and Conventional Bailey-Lovie Word Reading Chart
Kukuh PRASETYO

10:10 Barriers to Low Vision Services and Challenges Faced by Providers
Tayyab AFGHANI

Karinka ARUNDINI

10:24 Study on Air Bacteria Colonies in the Dynamic Environment of the Operating Room in the Lifeline Express
Huan LV
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<thead>
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<tbody>
<tr>
<td>10:31</td>
<td>A Generally Applicable Twin System for Effective hiPSC-Derivation of 3-Dimensional Retinal Tissue via Wnt Signaling Regulation</td>
<td>Jian GE</td>
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<tr>
<td>11:00</td>
<td>Retinopathy Status as a Marker for More Severe Depletion in Circulating Endothelial Progenitor Cells and Systemic Atherosclerosis in Diabetics</td>
<td>Wee Nie KUA</td>
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<td>11:10</td>
<td>Automated Quantitative Analysis of Deep Capillary Plexus With Projection-Resolved Optical Coherence Tomography-Angiography in Patients With Diabetes Mellitus</td>
<td>Erica CHAN</td>
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<td>11:20</td>
<td>Factors Associated With Predominantly Peripheral Lesions of Diabetic Retinopathy Identified on Ultrawide-Field Retinal Imaging</td>
<td>Chi Ho LAM</td>
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<td>11:30</td>
<td>Quantitative Optical Coherence Tomography Angiography Analysis of the Peripapillary Retinal Vasculature in Normal Tension Glaucoma</td>
<td>Yee Kiu WONG</td>
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<td>11:40</td>
<td>Significant Correlations Between Retinal Imaging Measures and Amyloid-β Deposition</td>
<td>Victor CHAN</td>
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<td>11:50</td>
<td>Retinal Neuronal Loss in Alzheimer Disease: A Systematic Review and Meta-Analysis</td>
<td>Victor CHAN</td>
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<tr>
<td>12:00</td>
<td>The Relationship of Intercapillary Area to Visual Acuity in Diabetes Mellitus: An Optical Coherence Tomography Angiography</td>
<td>Fangyao TANG</td>
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Rapid Fire Ocular Oncology & Pathology and Orbital & Oculoplastic Surgery Update Session

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<tr>
<td>11:00</td>
<td>Retinoblastoma With Neovascular Glaucoma: Can These Eyes Be Salvaged?</td>
<td>Raksha RAO</td>
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<tr>
<td>11:06</td>
<td>Intravitreal Topotecan in Retinoblastoma Group D and E Eyes</td>
<td>Raksha RAO</td>
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<tr>
<td>11:12</td>
<td>A New Cell Line From a Metastatic Conjunctival Melanoma Patient</td>
<td>Yongyun LI</td>
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COHK/HKOS Free Paper Symposium 2

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<tr>
<td>11:00</td>
<td>IgG4-Related Ophthalmic Disease: Clinical Profile and Outcome</td>
<td>Sameeksha TADEPALLI</td>
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<tr>
<td>11:36</td>
<td>Eyelid Malignancies in Northern India: An Analysis of 180 Cases</td>
<td>Rajendra MAURYA</td>
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<tr>
<td>11:42</td>
<td>Conjunctival Melanoma in Chinese Patients: Local Recurrence, Metastasis, Mortality, and Comparisons With Caucasian Patients</td>
<td>Chuandi ZHOU</td>
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<tr>
<td>11:48</td>
<td>Orbital Neurilemmoma</td>
<td>Sameeksha TADEPALLI</td>
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<tr>
<td>11:54</td>
<td>Anophthalmia in Retinoblastoma: Experience at Our Center</td>
<td>Preethi JEYABAL</td>
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<tr>
<td>12:00</td>
<td>Extraocular Muscle Tumors of the Orbit: A Large Case Series</td>
<td>Tayyab AFGHANI</td>
</tr>
<tr>
<td>12:06</td>
<td>Computed Tomography Findings of Orbital Dermoid and Epidermoid Cysts in Correlation With Histology</td>
<td>Jeong Hee KIM</td>
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<tr>
<td>12:12</td>
<td>Visual Recovery After Combining Immediate Reposition With Early Intravenous Steroid and Neuroprotective Agent Administration in a Patient With Traumatic Globe Subluxation: A Case Report</td>
<td>Rizki NAULI</td>
</tr>
<tr>
<td>12:18</td>
<td>Orbital Lesion as the First Presentation of Hepatocellular Carcinoma: Lessons Learned From 2 Cases</td>
<td>Mutmainah MAHYUDDIN</td>
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Refractive Surgery

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<tr>
<td>11:00</td>
<td>Functional Visual Outcomes 2 Years After Laser Anterior Ciliary Excision</td>
<td>Magda RAU</td>
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Rapid Fire Refractive Surgery Update Session

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<tr>
<td>11:00</td>
<td>Retinoblastoma Regression Pattern Seen in Modern-Day Conservative Treatment</td>
<td>Purnima RAJAKARNIKAR STHAPIT</td>
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<tr>
<td>11:24</td>
<td>Positive Correlation Between Duration of Contraceptive Use and Estrogen-Beta Receptor in Orbitocranial Meningioma</td>
<td>Dhimas SAKTI</td>
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<tr>
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<td>Anophthalmia in Retinoblastoma: Experience at Our Center</td>
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Extraocular Muscle Tumors of the Orbit: A Large Case Series

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<td>Functional Visual Outcomes 2 Years After Laser Anterior Ciliary Excision</td>
<td>Magda RAU</td>
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</table>
11:06 Visual and Topographic Outcomes After Femtosecond Laser-Assisted Intrastromal Corneal Ring Segment Implantation in Patients With Keratoconus
Duangratn NIRUTHSARD

11:12 Evaluation of Visual Outcomes in Macaque Non-Human Primates After Laser Scleral Microporation
Jodhbir MEHTA

11:18 Visual Outcomes and Patient Satisfaction Following Implantation of Different Modern Presbyopia-Correcting Intraocular Lenses
Mike HOLZER

11:24 Comparing a New Hydroexpression Technique With Conventional Forceps Method for SMILE Lenticule Removal
Alex NG

11:30 Managing Presbyopia With Presbyopia-Correcting Diffraactive Posterior Chamber Phakic Intraocular Lens: 6-Month Follow-Up
Minoru TOMITA

11:36 Long-Term Outcomes and Complications of Posterior Chamber Phakic Intraocular Lens Implantation for the Correction of High Myopia and Astigmatism in Keratoconic Patients (5-Year Study)
Leila GHIASIAN

11:42 Visual Outcomes and Real-Life Performance of Bilaterally Implanted Extended Vision Intraocular Lens: A Prospective Study
Shilpa GOEL

11:48 Customized Laser Epithelial Removal With Collagen Crosslinking After INTACS: Clear Upgrade to INTACS
Ritika DALAL

11:54 Validity of Percent Tissue Altered as a Screening Formula for Post-Laser Assisted In Situ Keratomileusis Ectasia
Karan BHATIA

12:00 Comparison of the Outcomes of Astigmatic Correction Between Small-Incision Lenticule Extraction and Femtosecond Laser Vision Correction
Chitra RAMAMURTHY

12:06 Intraoperative Lenticule Centroid Shift During Small Incision Lenticule Extraction
Manli LIU

12:12 Clinical Evaluation of a Novel Enhanced Depth of Focus Intraocular Lens With a Low Add Trifocal, Diffraactive Pattern and Correction of Chromatic Aberration
Florian KRETZ

12:18 Demographics of Patients Who Are Interested in Multifocal Intraocular Lenses and Their Desired Near Focus After Implantation
Yuka OTA

Retina (Medical)

Rapid Fire Medical Retina Update Session 1

09:00 - 10:30 Venue: S428
Chair(s): Marten BRELEN, Colin TAN

09:00 Comparative Effectiveness of Predominantly Pro Re Nata Ranibizumab Versus Continuous Aflibercept in Diabetic Macular Edema Treatment at a Single Center in the United Kingdom
Aaron NG

09:06 Efficacy of Ziv-Aflibercept as an Off-Label Remedy in Treatment-Naive Macular Edema Due to Retinal Vein Occlusion
Nishant RADKE

09:12 Ranibizumab With or Without Verteporfin Photodynamic Therapy for Polypoidal Choroidal Vasculopathy: Predictors of Visual Acuity Gains in the EVEREST II Study
Gemmy CHEUNG

09:18 Effects of Intravitreal Aflibercept and Ranibizumab on Retinal Vessel Diameter Measured Using Fluorescein Angiography
Ah Ran CHO

09:24 Efficacy and Safety of Ranibizumab 0.5 mg Versus Verteporfin Photodynamic Therapy in Asian Patients With Myopic Choroidal Neovascularization: 12-Month Results From the BRILLIANCE Study
Youxin CHEN

09:30 Real-World Outcomes of Ranibizumab 0.5 mg in Patients With Neovascular Age-Related Macular Degeneration: 1-Year Results From the LUMINOUS Study
Masahito OHJI

09:36 Multicenter, Randomized, Sham-Controlled Study of Dexamethasone Intravitreal Implant in Patients With Retinal Vein Occlusion in China
Xiaoxin LI

09:42 Predictors of Complete Polyp Regression Over 12 Months in the EVEREST II Study
Colin TAN
Vascular Endothelial Growth Factor Concentration in the Aqueous Humor Before and After the Intravitreal Injection of Bevacizumab in Eyes With Diabetic Macular Edema
Vu ANH

Ranibizumab 0.5 mg in Treatment-Naive Asian nAMD Patients With and Without Polypoidal Choroidal Vasculopathy: 1-Year Results From the Real-World LUMINOUS Study
Adrian KOH

Real-World Data of Intravitreal Aflibercept in Wet Age-Related Macular Degeneration From Japan: 24-Month Outcomes of the J-PMS AMD Study
Yuji OSHIMA

Real-World Data of Intravitreal Aflibercept in Macular Edema Secondary to Central Retinal Vein Occlusion From Japan: 6-Month Outcomes of the J-PMS CRVO Study
Masahiko SHIMURA

Dropout Rates Among Diabetic Macular Edema Patients on Anti-Vascular Endothelial Growth Factor Therapy in a Private Eye Clinic in Malaysia
Yew WONG

Randomized, Open-Label Study to Evaluate 2 Intravitreal Aflibercept Treat-and-Extend Dosing Regimens in Wet Age-Related Macular Degeneration: 52-Week Outcomes From ALTAIR
Tomoko SAWADA

Diabetic Macular Edema: Aqueous and Serum Cytokine Profiling to Determine the Efficacy of Ranibizumab. The DISCERN Study
Sanjeewa WICKREMESINGHE

Comparison of Intravitreal Aflibercept and Ranibizumab for Myopic Choroidal Neovascularization
Jia-Kang WANG

The Effect of Citicoline on Electroretinography Abnormalities in Patients With Nonproliferative Diabetic Retinopathy
Anna UTAMI

Vascular Presentation Pattern of Type 2 Macular Telangiectasia Among 3 Optical Coherence Tomography Angiography Algorithms
Pear PONGSACHAREONNONT

Characterization of the Choroidal Vasculature in Pathologic Myopia With Optical Coherence Tomography Angiography
Chee-Wai WONG

Associations Between Visual Acuity and Retinal Microvascular Parameters Measured With Optical Coherence Tomography Angiography in Patients With Diabetic Macular Edema
Yi-Ting HSIEH

Optical Coherence Tomography-Angiography in Choroidal Neovascularization Undergoing Treatment With Intravitreal Anti-VEGF Injections
Shishir SINGH

Optical Coherence Tomography-Angiography Features in Diabetic Eyes With and Without Diabetic Retinopathy
Shishir SINGH

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Co-Author(s): Diana LEE

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Co-Author(s): Felice Katrina RANCRHE

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First Author: Syeed KADIR
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First Author: Raksha RAO
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First Author: Pratik CHOUGULE
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First Author: Xi WANG
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First Author: Kabindra BAJRACHARYA
Co-Author(s): Arjun Malla BHARI, Saraswati PANDEY, Salma RAI, Sweety UPADHYAY

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First Author: Wida SETIAWATI
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First Author: Sameeksha TADEPALLI
Co-Author(s): Santosh HONAVAR, Puneet JAIN, Sumeet LAHANE

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First Author: Shiwei HUANG
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First Author: Stephanie YUK
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First Author: Eri ISHIKAWA
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First Author: Duong DIEU

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First Author: Kaye Lani Rea LOCAYLOCAY
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First Author: Emily WONG
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First Author: Hae Jung PAIK

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First Author: Ru-Ik CHEE
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First Author: Lok Yoong MAK
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First Author: Melissa MARSELINA
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First Author: Nam Ju MOON
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First Author: Martin DIRISAMER
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First Author: Nikhil KUTHIRUMMAL
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First Author: Prasoon PANDEY

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First Author: Mitchell JACKSON
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First Author: Kumar RAVI
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First Author: Yulinda LAKSMITA
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First Author: Jodhbir MEHTA
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First Author: Eli PRADHAN
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First Author: Kimberly SPOONER
Co-Author(s): Andrew CHANG, Thomas HONG, Rashmi NAIR

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First Author: Fazil KHURRUM
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First Author: Huika XIA
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First Author: Larissa TANG
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First Author: Keiko KATAOKA
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First Author: Yong-Kyu KIM
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First Author: Irum RAZA

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First Author: Sungae NOH
Co-Author(s): Eung Suk KIM, Seungyoung YU

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First Author: Pascale SHEN
Co-Author(s): Karin HO, Natalie LAU, Brian SIU, Charmaine WONG, Miranda YEUNG
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First Author: Yoshiyuki ARIGA
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First Author: Yoshimi NAGAI
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First Author: Yee Yan CHAN
Co-Author(s): Derek CHUNG, Kenneth LI

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First Author: Akshay HARNE
Co-Author(s): Sarang LAMBAT, Vinay NANGIA

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First Author: Eli PRADHAN
Co-Author(s): Manish POUDE, Barsha SUWAL

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First Author: Yee-Ling WONG
Co-Author(s): Quan HOANG, Ecosse LAMOUREUX, Charumathi SABANAYAGAM, Seang Mei SAW, Chee-Wai WONG

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Co-Author(s): Morton GOLDBERG, Ian HAN, Maggie LINZ, Adrienne SCOTT

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First Author: Arimura TETSUSHI
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First Author: Cheolmin YUN
Co-Author(s): Seong-Woo KIM, Jaeryung OH

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<td>Co-Author(s): Gerry GUINAN, George LABIB, Jodi TAYLON, Karen WINKLER</td>
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<td>Co-Author(s): Isha AGARWALLA, Pritam BAWANKAR, Nilutparna DAS, Diva MISRA, Ronel SOIBAM</td>
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<td>Co-Author(s): Masahiko SHIMURA, Kanako YASUDA</td>
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<td>Co-Author(s): Masashi FUJIHARA, Yasuhiko HIRAMI, Yasuo KURIMOTO, Seiji TAKAGI</td>
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First Author: Shravan MASURKAR
Co-Author(s): Guruprasad AYACHIT, Shrinivas JOSHI, Ulka PANKAR

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First Author: Muhammad Amer AWAN

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First Author: Jungyeul KIM

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First Author: Rina NAMBA
Co-Author(s): Hiroki KANEKO, Toshiyuki MATSUURA, Hideyuki SHIMIZU, Hiroko TERASAKI

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First Author: Dang Tran DAT

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First Author: Chau NGUYEN

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First Author: Masashi KAKINOKI
Co-Author(s): Sachi NISHINO, Masahito OHJI, Mihoko OSADA, Osamu SAWADA

Translational Research in Ophthalmology

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Doxycycline-Terminable Intracocular Drug Delivery Cell-Encapsulating Device
First Author: Kin TSANG
Co-Author(s): Barbara CHAN, Amy LO, Francisca WONG, KM YAO

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First Author: Dianlei GUO

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First Author: Kai-Wen HE
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First Author: Liumin HE
Co-Author(s): CK CHIU, Tam Ka LONG, CY TSUI, Rong ZHU

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Direct Transdifferentiation of Mouse Corneal Endothelial Cells by Chemical Cocktails
First Author: Chau NGUYEN
Co-Author(s): Yu-Chen CHEN, Zi-Bing JIN

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Effect of Indocyanine Green on Tight Junction Structural Proteins in Human Retinal Pigment Epithelium ARPE-19 Cells
First Author: Yi-Chen CHANG
Co-Author(s): Kuo-Jen CHANG, Ying-Hsien KAO, Wen-Chuan WU

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Genetic Investigation of Intraocular Pressure in Children
First Author: Siyao LU
Co-Author(s): Li Jia CHEN, Calvin PANG, Shumin TANG, Jason YAM

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First Author: Tsz-Kin NG
Co-Author(s): Sun On CHAN, Chi Pui PANG, Chi Chiu WANG, Jasmine YUNG

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Improving Differentiation Efficiency of Photoreceptor Production in 3-Dimensional Retinal Organoids From Human Pluripotent Stem Cells
First Author: Xi-Xi XIA
Co-Author(s): Mei-Ling GAO, Zi-Bing JIN, Hui LIU, Deng PAN, Shao-Hui PAN

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Riboflavin and Ultraviolet A Irradiation for the Prevention of Progressive Myopia in a Guinea Pig Model
First Author: Miaogin WU
Co-Author(s): Jinjing HE, Xiaoxia LI, Hui LIU, Lan ZHANG, Luyi ZHANG
Evaluation of a Rotational-Asymmetric Multifocal Intraocular Lens With a Standard Toricity and a +1.5 D Near Addition
First Author: Florian KRETZ
Co-Author(s): Salah ABDASSALAM, Gerd AUFTARTH, Detlev BREYER, Matthias GERL, Matthias MÜLLER

Femtosecond Laser-Assisted Cataract Surgery in Patients With Phakic Intraocular Lenses and Low Endothelial Cell Count
First Author: Hung-Yu LIN
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Initial Experience With a Novel Single-Piece Diffractive Trifocal Intraocular Lens
First Author: Fook Meng CHEONG
Co-Author(s): Eunice HIEW

Iris Reconstruction: “In-the-Bag” Implantation of a Customized Iris Implant
First Author: Jina HAN
Co-Author(s): Charles MCGHEE, Mohammed ZIAEI

Obesity and the Risk of Age-Related Cataracts: A Meta-Analysis of Prospective Cohort Studies
First Author: Wei WANG
Co-Author(s): Liangping LIU, Mingxing WU

Ocular Surface Damage and Cataract Surgery
First Author: Su Ann TAY
Co-Author(s): Boon Long QUAH

Role of Perioperative Aberrometry for Selecting Intraocular Lens Power in Pediatric Eyes
First Author: Sudarshan KHOKHAR

Safety and Efficacy of New Generation Extended Range of Vision IOL infocus
First Author: M NIVEAN
Co-Author(s): Pratheeba DEVI NIVEAN, Nishanth MADHVANAN, Kavithaa RAMAMOORTHY, JK REDDY, Jeyanthan SOUNDARAPANDIAN

Surgical Outcome of Posterior Polar Cataract in Adults
First Author: Ashma MANANDHAR

 Surprise of Multifocal Intraocular Lens Explantation
First Author: An-Fei LI
Co-Author(s): Chia-Wei LEE, Yih-Shiuan KUO

Academia, Research, Teaching & Education in Ophthalmology

Innovative Peer-Learning Activity for Neuroanatomy in Cambodia
First Author: Namgech KHOEM

Resident and Young Physician Experience With Complex Cataract Surgery and Exposure to New Cataract and Refractive Technology in India
First Author: Tarun ARORA
Co-Author(s): Supriya ARORA

Cataract

1-Year Clinical Outcomes With a New Design of Posterior Chamber Capsular Fixation Intraocular Lens
First Author: Sheetal BRAR
Co-Author(s): Sri GANESH

A Comparison of 3 Different Corneal Marking Methods Used to Determine Cyclotorsion in the Horizontal Meridian
First Author: Ya-Jung CHUANG
Co-Author(s): Hung-Yuan LIN, Pi-Jung LIN

Cholesterolosis Bulbi of the Anterior Chamber With Hypermature Cataract: Case Report
First Author: Ming-Hsuan CHIANG
Co-Author(s): Chien-Liang WU

Comparison of Continuous Linear and Multiburst Linear Modes Used in Phacoemulsification Surgery
First Author: Nina HANDAYANI

Comparison of Efficacy and Safety of Difluprednate 0.05% and Nepafenac 0.1% in Reducing Macular Thickness and Volume After Cataract Surgery
First Author: Prateep PHADIKAR
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Corneal Astigmatism and Refractive Outcome After Combined Femtosecond Laser-Assisted Phacoemulsification and Intrastromal Arcuate Keratotomy: 2-Year Results
First Author: Hungwon TCHAH
Co-Author(s): Hyuntae KIM, Jae Young KIM, Myoung Joon KIM, Chang Mok LEE, Jin Ah LEE

Evaluation of Ocular Biometry in Vietnamese Cataract Patients
First Author: Tran Ngoc KHANH
Co-Author(s): Nghiem Mai PHUONG, Nguyen Thi Mai HUONG, Nguyen Xuan HIEP, Pham Thi Minh KHANH
Survival Analysis of Visual Improvement After Cataract Surgery in Advanced Retinitis Pigmentosa
First Author: Stacey Carolyn LAM
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The “Flap Motility” Sign of Posterior Capsule Rupture in Peripherally Extended Anterior Capsular Tears
First Author: Shruti MAHAJAN
Co-Author(s): Rohit OM PARKASH, Tushya OM PARKASH

The Impact of the Standardization of Operating Room Protocols Set Forth by the Joint Commission International on Operating Room Time Periods in Phacoemulsification and Aspiration With Intraocular Lens Implantation
First Author: Atsuko EGUCHI
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Visual Outcomes After Cataract Phacoemulsification With Implantation of Multifocal Intraocular Lens With +2.5 D Addition Power
First Author: Tran Ngoc KHANH
Co-Author(s): Hoang Tran THANH, Pham Thi Minh KHANH, Tran Thi Chu QUY

Application of Tear Film Temperature Decline Ratio in Dry Eye Diagnosis
First Author: Tai-Yuan SU
Co-Author(s): Shu-Wen CHANG

Comprehensive Ophthalmology

Oculodentodigital Dysplasia: A Rare Case Report
First Author: Khêvna PATEL
Co-Author(s): Debtanu MUKHERJEE, Debdas MUKHOPADHYAY

Cornea, External Eye Diseases & Eye Bank

A Case of Combined Penetrating Keratoplasty and Posterior Vitrectomy Using Temporary Keratoprosthesis
First Author: Cheong Yi FONG
Co-Author(s): Ho Wa LAI, Hiliary TSANG, Ngai YANG, Po Fat YIU

A Cluster of Fungal Endophthalmitis Following Elective Corneal Transplants Using Hypothermically Stored Donor Corneas
First Author: Nicola LAU
Co-Author(s): Romesh ANGUNAWELA, Declan FLANAGAN, Rohini MANUEL, Rupesh PATEL, Mark WILKINS

A Comparative Study of Ocular Aberrations: Before and After Pterygium Surgery
First Author: Kosol KAMPITAK

Assessment of a New Severe Dry Eye Disease Diagnostic Algorithm as a Follow-Up Tool in Dry Eye Patients Participating in a Clinical Trial
First Author: Marc LABELOTULLE
Co-Author(s): Christophe BAUDOIN, Dahlia ISMAIL, Andrea LEONARDI, Gysbert VAN SETTEN

Association of Long-Term Glycemic Control on Tear Break-Up Times and Dry Eye Symptoms in Chinese Patients With Type 2 Diabetes
First Author: Kendrick SHIH
Co-Author(s): Vishal JHANJI, Andre MA, Martin MAK, Alex NG, Louis TONG

Boston Keratoprosthesis Type 1: Experiences at Vietnam National Institute of Ophthalmology
First Author: Dong PHAM
Co-Author(s): Anthony ALDAVE, Thi Hai Yen PHAM

Corneal Dynamic and Tomographic Analysis Between Both Eyes of Unilateral Keratoconus and Normal Eyes
First Author: Tommy CHAN
Co-Author(s): Vishal JHANJI, Yumeng WANG, Marco YU
Correlations Between Subjective Symptoms and Tearing and Lens Parameters in Patients Wearing Soft Contact Lenses  
First Author: Takashi SUZUKI  
Co-Author(s): Yuichi HORI, Takashi ITOKAWA, Yukinobu OKAJIMA

Crosslinked Donor Corneas Resist Infections and Melt in Boston Type 1 Keratoprosthesis: A Case Series  
First Author: Lional Raj PONNIAH  
Co-Author(s): Heber ANANDAN, Srinivasan RAO

Diclofenac Controlled Release From Antibacterial-Coated Soft Contact Lenses  
First Author: Helena FILIPE  
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Dry Eye Manifestations Vary With Age  
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Dry Eye Manifestations Vary With Seasons  
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Epithelial Downgrowth: 3 Case Reports  
First Author: Thuy NGUYEN

Evaluation of DEQS to Identify Corneal and Conjunctival Epithelial Disorder by ROC Analysis  
First Author: Yuichi OKUMURA  
Co-Author(s): Atsuko EGUCHI, Takenori INOMATA, Masao IWAGAMI, Akira MURAKAMI, Tina SHIANG

Evaluation of Ocular Higher-Order Aberrations in First-Degree Relatives of Patients With Keratoconus  
First Author: Siamak ZAREI-GHANAVATI

Femtosecond Laser-Assisted Crosslinking Better Than Conventional: Proof of Concept of “Deeper the Better”  
First Author: Lional Raj PONNIAH

In Vitro Antimicrobial Activity of Multipurpose Contact Lens Solutions Against Standard Strains of Common Ocular Pathogens: The Effect of Duration From First Use  
First Author: Eleonore IGUBAN

Increased Risk of Keratopathy After Psoriasis: A Nationwide Population-Based Study  
First Author: Ming-Hwei TSAI  
Co-Author(s): Hung-Chi CHEN, Chia-Yi LEE

Inflammatory Eye Disease Nursing Support in Corneal and External Eye Disease Clinic  
First Author: Allie LEE  
Co-Author(s): Yan Yu CHAN

Management of Peripheral Ulcerative Keratitis With Extensive Corneal Thinning: A Case Report  
First Author: Vatien RAHAMAWATI

Metagenomic Analysis for Lacrimal Stones and Discharge: A Case of Lacrimal Canaliculitis  
First Author: Yukinobu OKAJIMA  
Co-Author(s): Yuichi HORI, Hiroko IWASHITA, Takashi ITOKAWA, Takashi SUZUKI

Monochromatic LEDs Modulate Mucin Expression in Human Corneal Epithelial Cells  
First Author: Tsan-Chi CHEN  
Co-Author(s): Shu-Wen TSAI

Outcome of Pterygium Surgery by Reverse Stripping With Elaborate Subpterygium Tenonectomy With Conjunctival Autograft Without the Use of Perioperative Antimetabolites in an Eastern Part of Rural India  
First Author: Khevna PATEL  
Co-Author(s): Rakesh KUMAR, Debamu MUKHERJEE, Debdas MUKHOPADHYAY

Predisposing Factors and Clinical Characteristics of Severe Infectious Keratitis at a Tertiary Referral Center in Bangkok, Thailand  
First Author: Jirat NIMWORAPHAN  
Co-Author(s): Varintorn CHUCKPAIWONG, Passara JONGKHAJORNPONG, Kaevalin LEKHANONT

Prognostic Factors for Corneal Graft Survival: A Comparison Between Penetrating Keratoplasty and Endothelial Keratoplasty  
First Author: Nichaboong CHOKKAJORNKIT  
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Prospective Analysis of Association of Eye Rubbing and MMP9 Positivity in Patients With Newly Diagnosed Keratoconus Presenting for Refractive Surgery  
First Author: Sujatha MOHAN  
Co-Author(s): Mohan RAJAN, Mugundhan RAJARAJAN

Role of Tacrolimus in Management of Atopic Keratoconjunctivitis  
First Author: Benita JAYACHANDRAN  
Co-Author(s): Sivaraj GOWTHAM, Hannah RANJEE WILLIAMS, Elfride SANJANA

Short-Wavelength Monochromatic LED Enhanced Tight Junction Formation in Human Corneal Epithelial Cells  
First Author: Tsan-Chi CHEN  
Co-Author(s): Shu-Wen TSAI
Subconjunctival Hemorrhage After the Onset of Dermatologic Vasculature Diseases
First Author: Ming-Hwei TSAI
Co-Author(s): Hung-Chi CHEN, Chia-Yi LEE

Successful Management of Subperiosteal Orbital Abscess With Exposure Keratitis in a Child: A Case Report
First Author: Adisti LUKMAN
Co-Author(s): Julie BARLIANA, Lukman EDWAR

Superficial Keratotomy for Gelatinous Drop-Like Corneal Dystrophy in a Developing Country
First Author: Bijaya BHUSAL
Co-Author(s): Purushottam JOSHI

The Effect of Breastfeeding on Post Photorefractive Keratotomy Results: A Matched-Cohort Study
First Author: Alireza ESLAMPOOR
Co-Author(s): Siamak ZAREI-GHANAVATI

The Potential of Using Different Forms of Human Platelet Lysate in the Treatment of Ocular Surface Problems
First Author: Wei-Li CHEN

The Use of Corneal Scrubbing Associated With Matrix Therapy in the Treatment of Chronic Ulcers
First Author: Sihem LAZREG
Co-Author(s): Christophe BAUDOUIN, Marc LABETOULLE

Topical Steroids in Microbial Keratitis
First Author: Georgia CLEARY
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Why I Prefer PDEK (Pre-Descemet Endothelial Keratoplasty)? Advantages Over DSEK/DMEK/PK
First Author: Lional Raj PÖNNIAH
Co-Author(s): Heber ANANDAN, Srinivasan RAO, S REKHA, Maramganty VAMSHIDHAR

A Case of Subarachnoid Hemorrhage Presenting as Bilateral Acute Angle-Closure Glaucoma
First Author: Shih-Chun CHAO
Co-Author(s): Michael CHOU

Anterior Chamber Angle After Phacoemulsification in Primary Open Angle Glaucoma and Primary Angle Closure Glaucoma
First Author: Widya ARTINI

Association Between Body Mass Index and Retinal Nerve Fiber Layer, Ganglion Cell Complex, and Optic Nerve Head Vascularity
First Author: Bonnie CHOY
Co-Author(s): Jimmy LAI, Michael NI, Ian WONG

Bevacizumab Modulates the Expression of Matrix Metalloproteinase 2 in Cultivated Scleral Fibroblasts: Potential Adjuvant for Trabeculectomy in Neovascular Glaucoma
First Author: Fu-Ching HUANG

Comparison of Corneal Endothelial Cell Density in Trabeculectomy With and Without 2% Hydroxypropyl Methylcellulose
First Author: Fitri WISNUWARDANI
Co-Author(s): Muhammad Rinaldi DAHLAN, Elsa GUSTIANTY, Andika PRAHASTA, Maula RIFADA

Comparison of Cytological Appearance of Ocular Surface in Glaucoma Patients After Using Nonpreservative Timolol Maleate 0.5%, Latanoprost 0.005%, and Timolol-Latanoprost Fixed Combination Eye Drops
First Author: Moretha AMRAYNI
Co-Author(s): Elsa GUSTIANTY, Susi HERYATI, Andika PRAHASTA, Maula RIFADA

Comparison of Intraocular Pressure and Anterior Chamber Angle Changes Between Pilocarpine and Laser Peripheral Iridotomy
First Author: Ardiella YUNARD
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Comparison of Visual Field Tests in Glaucoma Patients With a Central Visual Field Defect
First Author: Hye-Young SHIN
Co-Author(s): Chan Kee PARK, Hae-Young Lopilly PARK

Corneal Changes After MicroPulse Laser Trabeculoplasty and Selective Laser Trabeculoplasty
First Author: Yoly FONG
Co-Author(s): Felix LI, Billy WONG, Alvin YOUNG

Differentiation of Brain Changes Between Clinical Stages of Glaucoma Using Diffusion Tensor Imaging
First Author: Yue CHEN
Co-Author(s): Kevin CHAN, Ian CONNER, Carlos PARRA, Vivek TRIVEDI

Glaucoma in a Refractory Scleritis Patient Related to Granulomatosis With Polyangiitis
First Author: Fu-Ching HUANG

Intraocular Hemorrhage Mimicking an Intraocular Mass Causing Angle-Closure Glaucoma in a Diabetic Patient
First Author: Aubhugn LABIANO
Co-Author(s): Rolando Enrique DOMINGO

Management of Steroid-Induced Glaucoma: A Less Invasive Approach
First Author: Kumar RAVI
Co-Author(s): Preeti SHARMA
New Surgical Technique of Combined Ahmed Glaucoma Valve Implantation With Trabeculectomy to Reduce Risk of Hypertensive Phase: “Double Flap Method”
First Author: Charudutt KALAMKAR
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Nocturnal IOP Control: A Dilemma in POAG Management
First Author: Shahzad SAEED

Optical Coherence Tomography Angiography in the Survey of Normal Tension Glaucoma and High Myopia
First Author: Shih-Chun CHAO
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Optical Coherence Tomography Angiography of the Superficial Microvasculature in the Macular and Peripapillary Areas in Glaucomatous and Healthy Eyes
First Author: Henry CHEN

Outcome of Glaucoma Drainage Device in Post-Penetrating Keratoplasty Glaucoma
First Author: Surishi RAJ
Co-Authors(s): Gaurav GUPTA, Sushmita KAUSHIK, Surinder PANDAV

Outcome of Various Treatment Modalities in Refractory Glaucoma Cases
First Author: Mahmood ALI
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Outcomes of Glaucoma Drainage Device Implantation by Glaucoma Fellows
First Author: Cris Martin JACOBA
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PS-OCT Evaluation of Scarring Distribution in the Filtering Bleb
First Author: Mayo KOSUGI
Co-Authors(s): Taiki KOKUBUN, Toru NAKAZAWA, Satoru TSUDA, Masahiro YAMANARI

Prognosis of Trabeculectomy in Patients With Cytomegalovirus Uveitic Glaucoma
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Randomized Trial Comparing 4 Fixed Combinations of Prostaglandins/Prostamide With Timolol Maleate
First Author: Jaime KELLY-RIGOLLET
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Relationship of Changes in Intraocular Pressure After Laser Peripheral Iridotomy With Ultrasound Biomicroscopy Laser
First Author: Qian LIU

Repeated Acute Angle Closure Attacks in 2 Patients After Cataract and Vitreoretinal Surgeries
First Author: Billy WONG
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Successful Intraocular Pressure Reduction by Cataract Surgery in “Silent” Neovascular Glaucoma Eyes
First Author: Chi-Hsin HSU

Surgical Excision of Triamcinolone Plaques for Subtenon Triamcinolone Acetonide-Induced Glaucoma
First Author: Jia-Horung HUNG
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The African Descent and Glaucoma Evaluation Study: Racial Differences in the Rate of Retinal Nerve Fiber Layer Thinning in Eyes Suspected of Glaucoma: 5-Year Follow-Up
First Author: Takuhei SHOJI
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The Brown Lesion Lurking Behind the Iris
First Author: Helena FILIPE
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The Seasonality of Acute Attack of Primary Angle-Closure Glaucoma
First Author: Jingyuan ZHU
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Intraocular Inflammation, Uveitis & Scleritis

Enterococcus Endophthalmitis: Clinical Settings, Antimicrobial Susceptibility, and Management Outcomes
First Author: Bhavik PANCHAL
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Klebsiella Endophthalmitis as the Herald of Occult Colorectal Cancer
First Author: Andrew MAK
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A Case Report on Bilateral Cataract With Sensorineural Hearing Loss and Vitiligo Seen at a Tertiary Medical Center
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Sensitivity and Specificity of Automated Analysis of Single-Field Nonmydriatic Fundus Photographs by Bosch DR Algorithm—Comparison With Mydriatic Fundus Photography for Screening in Undiagnosed Diabetic Retinopathy
First Author: Pritam BAWANKAR
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Efficacy of Standard vs Inverted Internal Limiting Membrane Flap Technique for the Treatment of Large Idiopathic Macular Hole (>700 µm) Presenting to a Tertiary Eye Care Center in North-East India
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