13th APVRS CONGRESS 2019
of Asia-Pacific Vitreo-retina Society
RETINA CHINA 2020
November 22–24, 2019  Shanghai, China

PROGRAM BOOK

HOSTS:
APVRS 2020
Hong Kong, China
Hong Kong Convention and Exhibition Center
18-20 DEC, 2020
The 14th Asia-Pacific Vitreo-retina Society Congress
This is

Advanced ULTRAVIT®
BEVELED HIGH SPEED PROBE

Beveled tip design facilitates improved access to tissue plane¹

Dual-pneumatic high-speed cutting in 25+ and 27+ decreases traction²³

Optimized duty cycle increases vitreous flow⁴⁵⁶

References: ¹ Data on file, Alcon Laboratories, Inc. ² Data on File, Alcon Laboratories, Inc. ³ Data on File, Alcon Laboratories, Inc. ⁴ Data on File, Alcon Laboratories, Inc. ⁵ Aboulon D. Vitreous flow rates of 23-gauge high-speed vitrectomy probes (10,000 cuts per minute (cpm)). Poster presented at: Euretina; September 7-10, 2017; Barcelona, Spain. ⁶ Aboulon D. Performance evaluation of small gauge 25+ high-speed vitrectomy probes. Poster presented at: Euretina; September 7-10, 2017; Barcelona, Spain.
THE NEW CHOICE OF ANTI-VEGF TREATMENT

- Multi-target & high binding affinity to ensure longer continuous anti-VEGF effect
- 3+Q3M regimen to provide compact treatment due to fewer injections
- Powerful efficacy & superior safety for comprehensive indications
**Conbercept**

A novel recombinant VEGFR fusion protein

- A fully human fusion protein containing a human IgG1 Fc and VEGFR key domains\(^1\)\(^-\)\(^5\)
  - Domain 2 of VEGFR-1 and 3 and 4 of VEGFR-2 fuse with IgG1 Fc
  - The introduction of domain 4 may enhance the association rate with VEGF and prolong the half-life of the drug
- Molecular weight: 143 kDa\(^4\)
- Half-life in vitreous: 4.2 days (in rabbits)\(^4\)

**Conbercept developed by Chengdu Kanghong Biotechnology Co., Ltd. (Chengdu, China)**

Chengdu Kanghong Pharmaceutical Group Co., Ltd.

- Founded in 1996.
- Engaged in the development, production, sales and distribution of biological agents, proprietary Traditional Chinese Medicine (TCM) products and chemical drugs.
- Currently employs around 4,000 individuals and owns over 8 subsidiaries.
- As early as in 1998, Kanghong Pharmaceutical received the first-ever GMP certificate (No. A0001) issued by the newly-established China Food and Drug Administration. This was five years before GMP were made mandatory for the industry.
- In 2002, Kanghong took the lead in exploring the latest GMP requirements mandated by the state. Our operating production facilities meet the new stringent GMP standards.

**Innovation Honors**

**Over 200 patents**

- > 60 international patents
- > 140 local patents

Driven by clinical needs, conduct in-depth research and professional innovation and cooperation in core therapeutic fields:

- Ophthalmology
- Central nervous system
- Digestive system neoplasms
- Other fields

Chengdu Kanghong Biotechnology Co., Ltd. is one of the 7 subsidiaries of Chengdu Kanghong Pharmaceutical Group Co., Ltd.

It is a leading biopharmaceutical company in China specialized in the discovery, development, manufacture, and marketing of innovative biological products.

Its first biologic product, Conbercept Ophthalmic Injection was approved to treat wAMD and pmCNV by the CFDA in 2013 and 2017 respectively. Now other indications in ophthalmology, such as DME and RVO are ongoing late-stage clinical development.

Conbercept demonstrated a well-tolerated safety profile and superior efficacy and has been well received in the Chinese market for 4 years. Holding strong global IP protection, Chengdu Kanghong Biotech is actively pursuing expansion of Conbercept into global market.

Current pipeline in R&D includes KH903 for the treatment of different tumors, and KH906 for the treatment of corneal neovascularization.
ACT FAST, ACT FIRST
WITH OZURDEX®
FOR RVO

DISCOVER HOW OZURDEX®
CAN HELP YOU MANAGE RVO

Ozurdex®
(dexamethasone intravitreal implant) 0.7mg

奥地利论坛
全面抗炎

全安抗炎

欧特力

长治久安

eu consensus guidelines support using ozurdex® first line in rvo

太极论坛

Australian HCPs PBS Information: Ozurdex®: Authority required for the treatment of DMO, RVO and non-infectious posterior segment uveitis. Refer to PBS Schedule for full authority information.

Before Prescribing, please review approved product information available on request from Allergan BV Phoning 1800 252 224 or from www.allergan.com.au/products

Adverse events should be reported to your Ministry of Health and local Allergan office.

Produced and funded by Allergan.

ACT FAST, ACT FIRST
WITH OZURDEX®
FOR RVO

RVO, retinal vein occlusion. Licenses may vary by country; please consult your local SPC.

TREAT WITH FORESIGHT

Briefing Instructions

[Drug Names]Generic name: Aflibercept Intravitreal InjectionTrade name: EYLEA English name: Aflibercept Intravitreal Injection [Components] Active ingredient is Aflibercept [Indications] Eylea is indicated for adults for the treatment of neovascular (wet) age-related macular degeneration (nAMD), diabetic macular oedema (DME). [Dosage and method of administration] Eylea is for intravitreal injection into the eye only. The recommended dose for Eylea is 2 mg aflibercept, equivalent to 50 microgrammes. For nAMD, Eylea treatment is initiated with one injection per month for three consecutive doses. The treatment interval is then extended to two months. Based on the physician’s judgement of visual and/or anatomical outcomes, the treatment interval may be maintained at two months or further extended, using a treat-and-extend dosing regimen. For DME, Eylea treatment is initiated with one injection per month for five consecutive doses, followed by one injection every two months. After the first 12 months of treatment with Eylea, the treatment interval may be extended. Please read details in instructions. [Adverse Reactions] Serious ocular adverse reactions in the study eye related to the injection procedure have occurred in less than 1 in 1,900 intravitreal injections with Eylea and induced blindness, endophthalmitis, retinal detachment, cataract, traumatic, vitreous haemorrhage, vitreous detachment, and intraocular pressure increased (see [Special warnings and precautions for use]). The most frequently observed adverse reactions (in at least 5% of patients treated with Eylea) were conjunctival haemorrhage (25%), visual acuity reduced (11%), eye pain (10%). Please read details in instructions. [Contraindications] Hypersensitivity to the active substance aflibercept or to any of the excipients listed in [Components]. Active or suspected ocular or pericocular infection. Active severe intraocular inflammation. [Special warnings and precautions for use] Increase in intraocular pressure. Increases in intraocular pressure have been seen within 60 minutes of intravitreal injection, including those with Eylea (see [Adverse Reactions]). Special precaution is needed in patients with poorly controlled glaucoma (do not inject Eylea while the intraocular pressure is ≥ 22 mmHg). In all cases, both the intraocular pressure and the perfusion of the optic nerve head must therefore be monitored and managed appropriately. Systemic effects. There are limited data on safety in the treatment of patients with DME with a history of stroke or transient ischaemic attacks or myocardial infarction within the last 6 months. Other. Treatment should be withheld in patients with rhegmatogenous retinal detachment or stage 3 or 4 macular holes. In the event of a retinal break, the dose should be withheld. The dose should be withheld within the previous or next 28 days in the event of a performed or planned intraocular surgery. Eylea should not be used in pregnancy unless the potential benefit outweighs the potential risk to the foetus (see [Pregnancy and Lactation]). Effects on ability to drive and use machines. Injection with Eylea has minor influence on the ability to drive and use machines due to possible temporary visual disturbances associated either with the injection or the eye examination. Patients should not drive or use machines until their visual function has recovered sufficiently. Special precautions for disposal and other handling. For the intravitreal injection, a 30 G x 1/2 inch injection needle should be used. Please read details in instructions. [Drug Classification] Prescription drug [Manufacturer] Name of the Manufacturer: Bayer Pharma-Fertigung GmbH & Co, KG. Manufacturing address: Vetter Pharma-Fertigunmg Eisanbahnstr. 2-4 88065 Langenargen Germany. [The version of instructions] Approval date: 2nd Feb, 2018, 8th May 2018. Revision date: 30th Nov, 2018, 12th Apr, 2019. For updated information, please read Eylea’s Instructions. Bayer
Optos California Ultra-wide Field Imaging

200° single-capture retinal image in less than ½ second

See More  Discover More  Treat More
NEW

RS-3000 Advance
血流OCT
Angio Optical Coherence Tomography

Color
Retro mode
FAF
163° ultra wide FA
163° ultra wide ICG

163° 超广角造影+真彩图像
感受不一样的精彩
163° ultra wide field FA and ICG+true color image
Make a difference

Mirante
血流OCT、超广角造影、真彩一体机
Scanning Laser Ophthalmoscope

B-Scan OCT
Angio OCT

YLC-500
纯黄光扫描激光光凝仪
Yellow Scan Laser Photocoagulator

Overlay 功能性多模影像平台
Overlay Functional Multimodal imaging platform

功能检查 + 结构性检查 = 精准诊断 + 精准指导治疗
Functional examination + Structural examination = Precision diagnosis + Precision directed treatment

MP-3
微视野计
Microperimeter

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Eye & Health Care
NIDEK CO., LTD.
True Angiography
Ultra-Wide Field SS-OCT

OCTA Highly Consistent with Fluorescein angiography
80°x 60° Ultra wide OCT angiography

Booth T13
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Jie Shi ZHONG SHUI (Perfluorooctane for Ophthalmic Operation), All For the Best VR Surgery

- The 1st Multi-Centre Randomized Controlled Trial developed for vitreous tamponade in China
- The 1st Intraocular filling product which passed through the Evaluation on Sub-Chronic Systemic Toxicity Test in China¹
- The 1st Intraocular filling product which passed through Safety Evaluation of Intraocular Implants in Animals’ Eyes²
- Retinal reduction rate is higher compared with the control group obviously³

- Under the same conditions, there was almost no oe phenomenon compared with the control group⁴

- Good stability & appropriate refractive index to provide better intraoperative resolution

- We have 1 invention patent and 3 utility model patents

Reference
1. Quality inspection report of NMPA G20183529
2. Quality inspection report of NMPA G20183530
3. Clinical trial for registered
4. Internal data

Manufacturing Enterprise: Shanghai Sunvista Medical Technology Co., Ltd

Address: Zhangjiang High-tech Industrial East District Modern Medical Devices Industrial Park

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E-mail address: nix@sunvista.cn

Website: www.sunvista.cn

Booth No.
Let's Meet Because of ZHONG SHUI
The Asia-Pacific Journal of Ophthalmology (APJO) is an open-access, peer-reviewed electronic journal. With the aim of supporting and fostering the academic exchange of knowledge and expertise, no processing and publication fees will be charged to the authors. Indexed in MEDLINE, Scopus, and Emerging Sources Citation Index (ESCI), the APJO welcomes submissions of original clinical research articles, review articles, perspectives, and letters to the editor.

As a bimonthly publication, the APJO delivers both general issues and special issues which feature up-to-date and specialized topics contributed by world-renowned experts. By assembling a well-balanced collection of articles, the APJO serves as an excellent venue for the latest clinical and research information for ophthalmologists and visual scientists around the globe.

To submit manuscripts to the Asia-Pacific Journal of Ophthalmology, please visit: https://journals.lww.com/apjoo

Contact information:
Editorial Office
Email: apjo-mail@apaophth.org
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Forewords & Welcome Messages
Dear Friends and Colleagues,

It is our pleasure to invite you to the 13th Asia-Pacific Vitreo-retina Society (APVRS) Congress in Shanghai, China, from November 22 – 24, 2019.

The APVRS Congress is an established, first-rate platform in the Asia-Pacific region for scientific exchange, research, and discovery in the field of vitreo-retinal diseases. Like every year, our Organizing Committee strives to prepare the best programs, courses, symposiums, and many more high-quality scientific sessions for participants to satisfy their desire for the latest findings and issues in vitreo-retina, as well as to provide them a great opportunity for networking and building new friendships.

Shanghai, the metropolitan city in China, fuses different types of cultures and embraces numerous attractions for visitors. The ancient beauty of its impressive colonial sites and traditional architecture will linger in your mind for years.

We sincerely encourage you to take part in this prestigious event and look forward to welcoming you to our wonderful Shanghai.

Prof. Xiaoxin Li
Congress President, 13th APVRS Congress

Prof. Xun XU
Congress President, 13th APVRS Congress
Dear Colleagues,

It is time for the Asia-Pacific Vitreo-retina Society (APVRS) Congress again! This year, we are much delighted to be hosting the 13th APVRS Congress in Shanghai in conjunction with the Chinese Vitreo-retina Society.

Since our meeting last year, the field of vitreo-retinal diseases has continued to evolve with medical and surgical treatment options and exciting research.

Both submitted and invited scientific programs are exceptional this year. With more than 600 abstracts submitted for free paper and poster presentations, we thank all authors for their interest in contributing to the success of the APVRS 2019 programs. We are also grateful for the kind contributions of all the invited speakers who provide depth and richness to the Congress programs with their combined expertise.

For the invited sessions, we are grateful that we have the most number of renowned retinal specialists from all over the world ever in APVRS Congresses this year. The invited sessions are also quite unique this year in the way that there are many interesting case-based medical and surgical symposia where audience can enjoy. This does not count symposia on cutting-edge issues, such as gene therapy, advanced imaging, and AI.

We would be remiss without thanking our sponsors and industry partners who continue to support the APVRS Congresses through the years. We encourage you to visit the high-quality industry-sponsored lunch symposia and the exhibits.

We hope you will enjoy the carefully planned scientific programs and other events that we have designed for you. These programs and events are also good opportunity for you to renew old connections and forge new friendships. Most importantly, we hope you will return with very fond memories of Shanghai and APVRS 2019.

Thank you all for your participation!

Prof. Paisan RUAMVIBOONSUK
Chair, Scientific Program Committee
13th APVRS Congress
WELCOME MESSAGE
From President, Asia-Pacific Vitreo-retina Society

Dear Friends and Colleagues,

It is my pleasure and honor to welcome you to the 13th APVRS Congress, which will be held in Shanghai this year.

As one of the key ophthalmology conferences in the Asia-Pacific region, the APVRS Congress has served as an excellent platform to address the emergence of certain retinal conditions, such as myopia and diabetes, and provide programs to develop skilled ophthalmologists. It attracts leading vitreoretinal specialists from around the world to share their knowledge and experience.

With so many renowned speakers, the Congress will be a perfect environment to teach, to gain insight into the latest discoveries and innovations in the vitreoretinal field, and most importantly, to identify the ways to support our developing countries in the region.

On behalf of APVRS, I welcome you to our Congress and look forward to bringing you a rewarding experience.

Seeing you in Shanghai!

Prof. Dennis LAM
President, Asia-Pacific Vitreo-retina Society (APVRS)
WELCOME MESSAGE
From Secretary-General, Asia-Pacific Vitreo-retina Society

Dear Friends and Colleagues,

I would like to extend a very warm welcome to you to the 13th APVRS Congress, held in the vibrant metropolis of Shanghai this year.

The APVRS Congress has become more exposed to the international stage, bringing together ophthalmologists from around the world to explore and share the latest clinical, scientific, and research discoveries and developments in the field of vitreo-retina. This exchange is of utmost importance as it creates collaborative opportunities that foster continuous development of ophthalmology.

I must take this opportunity to express our gratitude to Prof. Xiaoxin Li and Prof. Xun Xu, the Congress Presidents, and their team for their dedicated efforts in organizing such an exciting and stimulating Congress. I hope you will also find the Congress rewarding, and not miss the chance to meet your old friends and make new ones.

Shanghai is one of China’s most energetic cities, being famous for its mixture of old and new architecture and cultural flavors. Those who do not have time to explore its richness can experience some of the best Chinese cuisine and culture at the Presidential Dinner and Congress Party.

I wish you a wonderful time at the APVRS Congress and I look forward to seeing you all!

A/Prof. Andrew CHANG
Secretary-General, Asia-Pacific Vitreo-retina Society (APVRS)
The APVRS Leadership Development Program (LDP) has been conducted annually since 2017. Directed by Prof Dennis Lam, the LDP aims to provide systematic orientation for nurturing future leaders in the vitreoretinal field of the Asia-Pacific region through workshops, one-on-one mentorship scheme and panel discussions.

**Induction and Orientation**
- This 1-day program during the APVRS Congress will introduce participants to program faulty. The program will also cover in-depth aspects of leadership development including communication skills, project management, advocacy and teamwork.

**Self-initiated Project**
- Participants must complete a self-initiated project and make a presentation at the graduation.

**One-on-one Mentorship Scheme**
- Participants will each be assigned a Mentor, who will oversee their development and progress during the program. Participants may have a chance to have a one-week on-site visit at Mentors’ workplace, allowing them to have close encounters and interaction with their Mentors, as well as close observation of their work.

**Graduation**
- Participants who have successfully and satisfactorily completed all elements of the Program will be formally recognized during the second APVRS Congress, and awarded a Certificate of Achievement of the APVRS LDP. Based on individual performance, participants may also receive Gold, Silver and Bronze awards.

**Benefits**

<table>
<thead>
<tr>
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<tr>
<td>Each APVRS Council Member, national vitreoretinal and ophthalmological organizations may submit one nomination for consideration by the LDP Selection Committee. Individual applications will not be accepted. The nominee should fulfil the following criteria:</td>
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<tr>
<td>- Be aged 50 or below</td>
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<td>- Agree to participate in all elements of the LDP</td>
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<td>- Visionary future leaders with passion and determination to serve the vitreoretinal profession and community</td>
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<td>- Qualified eye doctors</td>
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<td>- Highly proficient in English</td>
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Application and selection is scheduled 6 months before the next APVRS Congress. For more information about the APVRS LDP, please contact our Executive Officer, Winnie Ho at winnieho@apvrs.org.
Councils & Committees
The Asia-Pacific Vitreo-retina Society (APVRS) was founded in 2006 with the mission to assist in the development of the vitreo-retinal subspecialty in the Asia-Pacific region, to provide a platform for good integration of skills and knowledge of vitreo-retinal specialists, and to promote and disseminate eye care information about vitreo-retinal diseases and related issues to the general public.

Asia-Pacific Vitreo-retina Society Council

**President**
Dennis LAM  
Hong Kong, China

**Immediate Past President**
Taraprasad DAS  
India

**Secretary-General**
Andrew CHANG  
Australia

**Deputy Secretary-General**
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**Scientific Secretary**
Paisan RUAMVIBOONSUK  
Thailand

**Treasurer**
Masahito OHJI  
Japan

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Australia
Won Ki LEE  
South Korea
Xiaoxin LI  
China
Xun XU  
China

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India
Sanyam BAJIMAYA  
Nepal
Kenneth FONG  
Malaysia
Tzyy-Chang HO  
Chinese Taipei
Adrian KOH  
Singapore
Wai Ching LAM  
Hong Kong, China
Zhizhong MA  
China
Philip POLKINGHORNE  
New Zealand
Gilbert SIMANJUNTAK  
Indonesia
Hiroko TERASAKI  
Japan
Harvey UY  
Philippines
Xinyuan ZHANG  
China
The Chinese Vitreo-retina Society (CVRS), consisting of more than 5,000 vitreoretinal specialists, provides an excellent platform for idea exchange, new information sharing, as well as skills and knowledge integration of ophthalmologists in the vitreoretinal field. Retina China, the annual meeting hosted by CVRS, is one of the most important ophthalmological conferences in China. The academic program comprises fundus diseases, vitreo-retina surgery, uveitis and neuro-ophthalmology. More than 4000 participants from China and overseas gathered together, shared the latest breakthroughs in vision research, exchanged innovative scientific ideas and presented interesting clinical cases.

The Chinese Vitreo-retina Society Council

**Presidents**
Xiaoxin LI
Xun XU

**Vice Presidents**
Lin LU
Xiaodong SUN
Yusheng WANG
Wenbing WEI
Gezhi XU
Mingwei ZHAO

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Tao HE
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Genjie KE
Mingqiu Li
Suyan LI
Xiaorong LI
Yan LI
Jianhong LIANG
Xiaoling LIANG
Jing LIU
Kun LIU
Lin LIU
Qinghuai LIU
Tiecheng LIU
Wu LIU
Xiaoling LIU
Yong LIU
Zaoxia LIU
Fang LU
Xiang MA
Jingfeng QU
Haicheng SHE
Lijun SHEN
Xi SHEN
Yanping SONG
Zongming SONG
Guanshuang SHU
Dawei SUN
Xufang SUN
Luosheng TANG
Guangming WAN
Fang WANG
Xian WANG
Xingrong WANG
Yanling WANG
Yong WEI
Feng WEN
Yun XIAO
Guoxing XU
Haifeng XU
Peizeng YANG
Suqin YU
Xiaojing YU
Xuhui YU
Rongdi YUAN
Feng ZHANG
Guoming ZHANG
Hongbing ZHANG
Meixia ZHANG
Ming ZHANG
Shaochun ZHANG
Ximei ZHANG
Xinyuan ZHANG
Xuedong ZHANG
Bojun ZHAO
Peiquan ZHAO
Qiong ZHOU
Dan ZHU
## SCIENTIFIC PROGRAM COMMITTEE

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<th>Asia-Pacific Coordinator</th>
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<td>Advances of Gene Therapy in Retinal Diseases</td>
<td>Camiel BOON (Netherlands)</td>
<td>Ian CONSTABLE (Australia)</td>
<td>Xiaodong SUN (China)</td>
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<td>Age-related Macular Degeneration: AMD</td>
<td>Sebastian WOLF (Switzerland)</td>
<td>Adrian KOH (Singapore)</td>
<td>Timothy LAI (Hong Kong, China)</td>
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<td>Age-related Macular Degeneration: Dry AMD</td>
<td>David BOYER (United States)</td>
<td>Paul MITCHELL (Australia)</td>
<td>Yusheng WANG (China)</td>
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<td>Peter KAISER (United States)</td>
<td>Won Ki LEE (South Korea)</td>
<td>Xiaoling LIANG (China)</td>
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<td>Kang ZHANG (United States)</td>
<td>Rajiv RAMAN (India)</td>
<td>Xun XU (China)</td>
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<td>Philip POLKINGHORNE (New Zealand)</td>
<td>Mingwei ZHAO (China)</td>
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<td>Symposium</td>
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<td>Challenges in Surgical Retina 1</td>
<td>Carl CLAES (Belgium)</td>
<td>Masahito OHJ I (Japan)</td>
<td>Meixia ZHANG (China)</td>
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<td>Challenges in Surgical Retina 2</td>
<td>Vincenzo FERRARA (Italy)</td>
<td>Kazuaki KADONOSONO (Japan)</td>
<td>Zhizhong MA (China)</td>
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<td>Diabetic Retinopathy: Epidemiology, Screening, and Prevention</td>
<td>Antonia JOUSSEN (Germany)</td>
<td>Tien-Yin WONG (Singapore)</td>
<td>Fang LU (China)</td>
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<td>Diabetic Retinopathy: Treatment</td>
<td>Neil BRESSLER (United States)</td>
<td>Shih-Jen CHEN (Chinese Taipei)</td>
<td>Youxin CHEN (China)</td>
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<td>Diagnostic and Treatment Conundrums in Retinal Disease</td>
<td>Usha CHAKRAVARTHY (United Kingdom)</td>
<td>Oh Woong KWON (South Korea)</td>
<td>Junjun ZHANG (China)</td>
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<td>Great Cases: Inflammatory and Beyond</td>
<td>Rick SPAIDE (United States)</td>
<td>Taraprasad DAS (India)</td>
<td>Suqin YU (China)</td>
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<td>High Myopia</td>
<td>Jost J ONAS (Germany)</td>
<td>Kyoko OHNO-MATSUI (Japan)</td>
<td>Lin LU (China)</td>
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<td>Innovation and Controversies in Retina Surgery</td>
<td>Suber S. HUANG (United States)</td>
<td>Doric WONG (Singapore)</td>
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<td>Intraocular Tamponade in the 21st Century</td>
<td>Heinrich HEIMANN (United Kingdom)</td>
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<td>Intraocular Tumors</td>
<td>Norbert BORNFELD (Germany)</td>
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<td>My Best Medical Retina Cases of 2019</td>
<td>K. Bailey FREUND (United States)</td>
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<td>Mystery Cases of Macular Surgery</td>
<td>Anat LOEWENSTEIN (Israel)</td>
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<td>Peter WIEDEMANN (Germany)</td>
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<td>Pediatric Retina: Epidemiology, Screening, and Diagnosis</td>
<td>R. V. Paul CHAN (United States)</td>
<td>Rajvardhan AZAD (India)</td>
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<td>Pediatric Retina: Treatment</td>
<td>Sui Chien WONG (United Kingdom)</td>
<td>Wai Ching LAM (Hong Kong, China)</td>
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<td>Prevention and Management of VR Complications from Anterior Segment Surgeries</td>
<td>Judy KIM (United States)</td>
<td>Dennis LAM (Hong Kong, China)</td>
<td>Changguan WANG (China)</td>
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<td>Retinal Degenerative Diseases</td>
<td>Graham HOLDER (United Kingdom)</td>
<td>Harvey UY (Philippines)</td>
<td>Zhengqin YIN (China)</td>
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<td>Retinal Imaging: Advanced Retinal Imaging</td>
<td>Frank G. HOLZ (Germany)</td>
<td>Taiji SAKAMOTO (Japan)</td>
<td>Xiaoxin LI (China)</td>
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<td>Application of 2D Retinal Images</td>
<td>Giovanni STAURENGHI (Italy)</td>
<td>Tock Han LIM (Singapore)</td>
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<td>Retinal Imaging in the Future</td>
<td>Srinivas SADDA (United States)</td>
<td>Gemmy CHEUNG (Singapore)</td>
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<td>Retinal Vascular Diseases</td>
<td>Jeff HEIER (United States)</td>
<td>Kenneth FONG (Malaysia)</td>
<td>Ming ZHANG (China)</td>
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<td>Swept Source OCT and OCT Angiography</td>
<td>Philip ROSENFELD (United States)</td>
<td>Seung-Young YU (South Korea)</td>
<td>Fenghua WANG (China)</td>
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<td>The Impact of Systemic Medications on Retinal Function</td>
<td>William MIELER (United States)</td>
<td>Young Hee YOON (South Korea)</td>
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<td>Uveitis &amp; Ocular Inflammation Treatment</td>
<td>Martine JAGER (Netherlands)</td>
<td>Koh-Hei SONODA (Japan)</td>
<td>Qing CHANG (China)</td>
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<td>Uveitis Pearls for Diagnosis</td>
<td>Quan Dong NGUYEN (United States)</td>
<td>Lyndell LIM (Australia)</td>
<td>Peizeng YANG (China)</td>
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<tr>
<td>What’s New in Medical Retina</td>
<td>Lihteh WU Costa Rica</td>
<td>Yuichiro OGURA (Japan)</td>
<td>Lee-Jen CHEN (Chinese Taipei)</td>
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# ABSTRACT REVIEWING COMMITTEE

**Chair:**  
Paisan RUAMVIBOONSUK  
Thailand

**Members:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
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<tr>
<td>Ian CONSTABLE</td>
<td>Australia</td>
<td>Kazuaki KADONOSONO</td>
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<td>Adrian FUNG</td>
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<td>Motohiro KAMEI</td>
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<td>Lawrence LEE</td>
<td>Australia</td>
<td>Keiko KATAOKA</td>
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<td>Hideki KOIZUMI</td>
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<td>Dipak NAG</td>
<td>Bangladesh</td>
<td>Toshinori MURATA</td>
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<td>Magno FERREIRA</td>
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<td>Hiroko TERASAKI</td>
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<td>Yuntao HU</td>
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<td>Shuichi YAMAMOTO</td>
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<td>Jun KONG</td>
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<td>Mae-Lynn BASTION</td>
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<td>Zhizhong MA</td>
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<td>Rupesh AGRAWAL</td>
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<td>Nishant Vijay RADKE</td>
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<td>Ranjana MATHUR</td>
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<td>Jean-Francois KOROBELNIK</td>
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<td>Dominik FISCHER</td>
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<td>Li Jia CHEN</td>
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<td>Atchara AMPHONPHRUET</td>
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<td>Timothy LAI</td>
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<td>Voraporn CHAITKMONGKOL</td>
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<td>Danny NG</td>
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<td>Wantanee DANGBOON</td>
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<td>Bhuvan CHANANA</td>
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<td>Referano AGUSTIAWAN</td>
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<td>Ethan PRIEL</td>
<td>Israel</td>
<td>Jennifer KANG-MIELER</td>
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<tr>
<td>Tomohiro Iida</td>
<td>Japan</td>
<td>Philip ROSENFELD</td>
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</tbody>
</table>
LOCAL ORGANIZING COMMITTEE

Presidents
Xiaoxin LI
Xun XU

Vice-President
Xiaodong SUN

Secretary-General
Xiaodong SUN

Deputy General Secretaries
Jiannan HUANG
Mingjin WANG
Haidong ZOU

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Chairs
Xiaoxin LI
Xun XU

Committee
Youxin CHEN
Hong DAI
Lin LU
Guanfang SU
Xiaodong SUN
Luosheng TANG
Yusheng WANG
Wenbing WEI
Gezhi XU
Mingwei ZHAO
Peiquan ZHAO
Councils & Committees

SECRETARIAT

Congress Manager / Senior Executive Officer
Claudia FAN

Society Manager (Finance & HR)
Clare MOK

Assistant Project Manager
Sarah LU

Executive Officers
Daisy DENG
Winnie HO

Graphic Designer
Bill WONG

Project Coordinator
Moka MOK
Congress Information
CONGRESS INFORMATION

The following information is provided to make your attendance at the 13th APVRS Congress in Shanghai, China as pleasant as possible. If you have any queries during the Congress or require any assistance, please visit the Registration Desk where our team will be happy to help.

EVENT NAME
The 13th APVRS Congress held in conjunction with Retina China 2020

CONGRESS VENUE
National Exhibition and Convention Center (Shanghai) (NECC)
No. 333, Songze Avenue, Shanghai

REGISTRATION AND INFORMATION DESK
The Registration and Information Desk is located on the 2/F, Hall 4.2 of NECC, with the following opening hours:

<table>
<thead>
<tr>
<th>Date</th>
<th>Opening Hours</th>
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<tbody>
<tr>
<td>Nov 21, 2019</td>
<td>15:00 - 18:00</td>
</tr>
<tr>
<td>Nov 22, 2019</td>
<td>07:30 - 19:30</td>
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<td>Nov 23, 2019</td>
<td>07:30 - 17:00</td>
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<tr>
<td>Nov 24, 2019</td>
<td>07:30 - 15:00</td>
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</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
All delegates registered for the Congress will be issued with a name badge at the Registration Desk. This badge will be the official pass and must be worn at all times while on-site by the named delegate only.

All badges are non-transferable. Reissuing of name badges for the delegate/accompanying person will be available at the Registration Desk. An administrative fee of US$20 may be incurred for re-issuing a delegate badge.

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

DELEGATE BAG AND RIBBON COLLECTION
Delegates can collect delegate bags and ribbons at the Registration Desk.

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

APVRS SMARTPHONE APP
The APVRS 2019 mobile app provides easy-to-use interactive capabilities to enhance your Congress experience. The app features all the scientific sessions and instruction courses, posters, e-posters, video abstracts, general information, floor plan, and a city map.

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

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

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

The Speaker Ready Room will be open during the following times in the Exhibition hallway on the 2/F:

<table>
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<tr>
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<tbody>
<tr>
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<tr>
<td>Nov 24, 2019</td>
<td>07:30 - 15:00</td>
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ABSTRACT BOOK
A PDF copy of the abstract book is available online at http://2019.apvrs.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. Delegates can use the image scanner to scan the poster. They will then be directed to a recording made by the author where applicable.

E-POSTER & VIDEO PLATFORM
Delegates can view e-posters via the APVRS 2019 Congress app for smartphones. They can also visit the E-poster and Video Platform located in the Exhibition Hall.

MORNING & AFTERNOON TEA
Morning and afternoon tea will be held in the Exhibition Hall.

SPONSORED SESSIONS
Venues where sponsored sessions will be held are listed below.

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<tr>
<th>Date</th>
<th>Time</th>
<th>Session</th>
<th>Venue*</th>
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<tr>
<td>Nov 22, 2019 (Fri)</td>
<td>12:00 - 13:00</td>
<td>Alcon</td>
<td>Session Room 1</td>
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<td></td>
<td>12:00 - 13:00</td>
<td>Novartis</td>
<td>Session Room 2</td>
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<td>12:00 - 13:00</td>
<td>NIDEK</td>
<td>Session Room 3</td>
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<td>12:00 - 13:00</td>
<td>Merck</td>
<td>Session Room 4</td>
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<td>13:15 - 14:15</td>
<td>Allergan</td>
<td>Session Room 1</td>
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<td></td>
<td>13:15 - 14:15</td>
<td>Kanghong</td>
<td>Session Room 2</td>
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<td>13:15 - 14:15</td>
<td>Essex</td>
<td>Session Room 3</td>
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<td>13:15 - 14:15</td>
<td>SVision</td>
<td>Session Room 4</td>
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<td></td>
<td>17:30 - 19:30</td>
<td>Carl Zeiss</td>
<td>Session Room 1</td>
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<td></td>
<td>17:30 - 18:30</td>
<td>Gaush</td>
<td>Session Room 2</td>
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Nov 23, 2019 (Sat)
12:00 – 13:00 TOPCON Session Room 1
12:00 – 13:00 Bayer Session Room 2
12:00 – 13:00 Konghong Session Room 3
12:00 – 13:00 Sunvista Session Room 4
12:30 – 13:30 Allergan Session Room 5
13:15 – 14:15 Alcon Session Room 1
13:15 – 14:15 Bayer Session Room 2
13:15 – 14:15 Novartis Session Room 4

Nov 24, 2019 (Sun)
12:30 – 13:30 Carl Zeiss Session Room 2

*Please refer to the floor plan for the location of session rooms.

PRAYER ROOM
NECC provides dedicated facilities for the Muslim guests:
Location: 2/F, North, West Wing (near Session Room 5)
Operating hours: 08:00 – 18:00 (Nov 22 – 24)

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

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

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

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

CERTIFICATES OF ATTENDANCE
Certificates of Attendance can be downloaded through the APVRS Congress system (http://congress.apvrs.org/) after the Congress.
SOCIAL EVENTS

OPENING CEREMONY
Date: Nov 22, 2019 (Fri)
Time: 16:00 – 17:00
Venue: Session Room 1, NECC
Remarks: Open to All Delegates

PRESIDENTIAL DINNER & CONGRESS PARTY
Date: Nov 23, 2019 (Sat)
Time: 18:00 – 21:00
Venue: Ballroom, NECC
Remarks: US$200/person, including food and entertainment

This year at the APVRS 2019 Congress, delegates can experience both Presidential Dinner and Congress Party in one go, at the Ballroom of the National Exhibition and Convention Center.

Cultural booths will be set up before the Dinner, displaying some of the most fascinating Chinese art and local activities in order to add some excitement to the occasion.

Delegates can also feast on famous Shanghainese delicacies as well as cuisines from other parts of China.

This convivial event will include entertainment, tasty treats and - of course - friends and colleagues both old and new from across the world of ophthalmology.

Note: The Congress Party is not included in the registration fee. Delegates are encouraged to bring their partners, friends and/or family members along.
Program at a Glance
## PROGRAM OVERVIEW

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<td>Scientific Sessions (08:30 - 10:00)</td>
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<td>10:00 - 10:15</td>
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<tr>
<td>16:00 - 17:00</td>
<td>Opening Ceremony</td>
<td>Constable Lecture</td>
<td>Presidential Dinner &amp; Congress Party (18:00 - 21:00)</td>
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<td>17:00 - 18:00</td>
<td>Tano Lecture (16:00 - 17:00)</td>
<td>International Award Lecture (16:00 - 17:00)</td>
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<td>18:00 - 21:00</td>
<td>Break</td>
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# SCIENTIFIC SESSIONS

## DAY 1 - November 22, 2019 (FRIDAY)

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<tr>
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<th>Venue</th>
<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
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<tr>
<td>08:30 - 10:00</td>
<td>Session Room 1</td>
<td>RET-S</td>
<td>SYM</td>
<td>Prevention and Management of VR Complications from Anterior Segment Surgeries</td>
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<tr>
<td>08:30 - 10:00</td>
<td>Session Room 2</td>
<td>RET-M</td>
<td>SYM</td>
<td>Age-related Macular Degeneration: Dry AMD</td>
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<tr>
<td>08:30 - 10:00</td>
<td>Session Room 3</td>
<td>RET-S</td>
<td>SYM</td>
<td>Challenges in Surgical Retina 1</td>
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<tr>
<td>08:30 - 10:00</td>
<td>Session Room 4</td>
<td>OI</td>
<td>SYM</td>
<td>Retinal Imaging in the Future</td>
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<tr>
<td>09:00 - 10:00</td>
<td>Session Room 5</td>
<td>RET-M</td>
<td>VS</td>
<td>RETINAWS</td>
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<tr>
<td>10:15 - 11:45</td>
<td>Session Room 1</td>
<td>RET-M</td>
<td>SYM</td>
<td>Age-related Macular Degeneration: PCV</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 2</td>
<td>RET-M</td>
<td>SYM</td>
<td>CVRS Symposium: AMD and PCV *</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 3</td>
<td>PR</td>
<td>SYM</td>
<td>Pediatric Retina: Treatment</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 4</td>
<td>RET-M</td>
<td>SYM</td>
<td>Inherited Retinal Degenerative Diseases</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 5</td>
<td>RET-S</td>
<td>FP</td>
<td>Rapid Fire Surgical Retina and General Ophthalmology Update Symposium</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 1</td>
<td>RET-M</td>
<td>SYM</td>
<td>Diabetic Retinopathy: Epidemiology, Screening, and Prevention</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 2</td>
<td>GO</td>
<td>SYM</td>
<td>CVRS Symposium: General Ophthalmology *</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 3</td>
<td>RET-S</td>
<td>SYM</td>
<td>Mystery Cases of Non-Macular, Retinal Surgery</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 4</td>
<td>OI</td>
<td>SYM</td>
<td>Advanced Retinal Imaging</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 5</td>
<td>RET-M</td>
<td>SYM</td>
<td>Retinal Vascular Diseases</td>
</tr>
<tr>
<td>16:00 - 17:00</td>
<td>Session Room 1</td>
<td>GO</td>
<td>SYM</td>
<td>Opening Ceremony and APVRS Tano Lecture</td>
</tr>
</tbody>
</table>

## DAY 2 - November 23, 2019 (SATURDAY)

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 10:00</td>
<td>Session Room 1</td>
<td>RET-S</td>
<td>SYM</td>
<td>Mystery Cases of Macular Surgery</td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>Session Room 2</td>
<td>RET-M</td>
<td>SYM</td>
<td>What’s New in Medical Retina</td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>Session Room 3</td>
<td>RET-M</td>
<td>SYM</td>
<td>Diagnostic and Treatment Conundrums in Retinal Diseases</td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>Session Room 4</td>
<td>IUS</td>
<td>SYM</td>
<td>Uveitis Pearls for Diagnosis</td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>Session Room 5</td>
<td>PR</td>
<td>FP</td>
<td>Rapid Fire Pediatric Retina, Eye Trauma and Ocular Oncology Update Symposium</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 1</td>
<td>RET-S</td>
<td>SYM</td>
<td>Innovation and Controversies in Retina Surgery</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 2</td>
<td>RET-M</td>
<td>SYM</td>
<td>CVRS Symposium: Diabetic Retinopathy *</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 3</td>
<td>RET-M</td>
<td>SYM</td>
<td>My Best Medical Retina Cases of 2019</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 4</td>
<td>NSR</td>
<td>SYM</td>
<td>Advances in Gene Therapy of Retinal Diseases</td>
</tr>
<tr>
<td>10:15 - 11:45</td>
<td>Session Room 5</td>
<td>OOP</td>
<td>SYM</td>
<td>Intraocular Tumors</td>
</tr>
</tbody>
</table>
### Program at a Glance

**DAY 2 - November 23, 2019 (SATURDAY)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 1</td>
<td>RET-S</td>
<td>SYM</td>
<td>Challenges in Surgical Retina 2</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 2</td>
<td>PR</td>
<td>SYM</td>
<td>CVRS Symposium: Intraocular Tumors and Pediatric Retina *</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 3</td>
<td>OI</td>
<td>SYM</td>
<td>Application of 2D Retinal Images</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 4</td>
<td>RET-M</td>
<td>SYM</td>
<td>The Impact of Systemic Medications on Retinal Function</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session Room 5</td>
<td>OI</td>
<td>SYM</td>
<td>Swept-source OCT and OCT Angiography</td>
</tr>
<tr>
<td>16:00 - 17:00</td>
<td>Session Room 1</td>
<td>GO</td>
<td>SYM</td>
<td>Constable Lecture and International Award Lecture</td>
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</table>

**DAY 3 - November 24, 2019 (SUNDAY)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Venue</th>
<th>Subspecialty</th>
<th>Type</th>
<th>Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 – 10:00</td>
<td>Session Room 1</td>
<td>RET-M</td>
<td>SYM</td>
<td>Diabetic Retinopathy: Treatment</td>
</tr>
<tr>
<td>08:30 – 10:00</td>
<td>Session Room 2</td>
<td>OI</td>
<td>SYM</td>
<td>CVRS Symposium: Retinal Imaging *</td>
</tr>
<tr>
<td>08:30 – 10:00</td>
<td>Session Room 3</td>
<td>RET-M</td>
<td>SYM</td>
<td>Age-related Macular Degeneration: AMD</td>
</tr>
<tr>
<td>08:30 – 10:00</td>
<td>Session Room 4</td>
<td>PR</td>
<td>SYM</td>
<td>Pediatric Retina: Epidemiology, Screening, and Diagnosis</td>
</tr>
<tr>
<td>08:30 – 10:00</td>
<td>Session Room 5</td>
<td>IUS</td>
<td>SYM</td>
<td>Uveitis and Ocular Inflammation Treatment</td>
</tr>
<tr>
<td>08:30 – 10:00</td>
<td>Session Room 6</td>
<td>GO</td>
<td>SYM</td>
<td>Young Ophthalmologists’ Symposium</td>
</tr>
<tr>
<td>10:15 – 11:45</td>
<td>Session Room 1</td>
<td>RET-M</td>
<td>SYM</td>
<td>High Myopia</td>
</tr>
<tr>
<td>10:15 – 11:45</td>
<td>Session Room 2</td>
<td>RET-S</td>
<td>SYM</td>
<td>CVRS Symposium: Surgical Retina *</td>
</tr>
<tr>
<td>10:15 – 11:45</td>
<td>Session Room 3</td>
<td>RET-M</td>
<td>SYM</td>
<td>Update on Drug Delivery to the Posterior Segment of the Eye</td>
</tr>
<tr>
<td>10:15 – 11:45</td>
<td>Session Room 4</td>
<td>AI</td>
<td>SYM</td>
<td>Artificial Intelligence for Retinal Disease</td>
</tr>
<tr>
<td>10:15 – 11:45</td>
<td>Session Room 5</td>
<td>RET-M</td>
<td>SYM</td>
<td>Central Serous Chorioretinopathy</td>
</tr>
<tr>
<td>10:15 – 11:45</td>
<td>Session Room 6</td>
<td>RET-M</td>
<td>FP</td>
<td>Rapid Fire Medical Retina, Neuroscience, and Ocular Imaging Update Symposium</td>
</tr>
<tr>
<td>14:30 – 16:00</td>
<td>Session Room 2</td>
<td>RET-M</td>
<td>SYM</td>
<td>CVRS Symposium: High Myopia and Retinal Vascular Diseases *</td>
</tr>
<tr>
<td>14:30 – 16:00</td>
<td>Session Room 3</td>
<td>RET-M</td>
<td>SYM</td>
<td>Great Cases: Inflammation and Beyond</td>
</tr>
<tr>
<td>14:30 – 16:00</td>
<td>Session Room 4</td>
<td>RET-S</td>
<td>SYM</td>
<td>Intraocular Tamponade in the 21st Century</td>
</tr>
<tr>
<td>14:30 – 16:00</td>
<td>Session Room 5</td>
<td>RET-M</td>
<td>FP</td>
<td>Rapid Fire Medical Retina and Intraocular Inflammation, Uveitis &amp; Scleritis Update Session</td>
</tr>
</tbody>
</table>

*Subspecialty:*  
- **AI** = Artificial Intelligence  
- **IUS** = Intraocular Inflammation, Uveitis & Scleritis  
- **NSR** = Neuroscience, Stem Cells & Regenerative Medicine  
- **OI** = Ocular Imaging  
- **GO** = Other (General Ophthalmology)  
- **OOP** = Ocular Oncology & Pathology  
- **PR** = Pediatric Retina  
- **RET-M** = Retina (Medical)  
- **RET-S** = Retina (Surgical)

*Type:*  
- **FP** = Free Paper  
- **SYM** = Symposium  
- **VS** = Video Symposium

*Remarks:*  
- * CVRS symposiums will be delivered in Mandarin Chinese.  
- Simultaneous Interpretation service between English and Chinese will be provided in Session Room 1 and 2.
FLOOR PLAN
Program at a Glance

West Wing

North

South
Special Lectures & Grants
SPECIAL LECTURES

APVRS TANO LECTURE

The APVRS Tano Lecture was established in 2009 in memory of Prof. Yasuo Tano, the founding president of APVRS. Every year, the APVRS honors an individual of over 45 years of age for exemplary leadership and significant contributions in advancing the understanding, diagnosis, and treatment of vitreoretinal diseases with the APVRS Tano Lecture.

Prof. Paul MITCHELL (Australia)

Prof. Paul Mitchell is Professor of Ophthalmology at the Westmead Institute for Medical Research, University of Sydney, and Westmead Hospital, Sydney. He is a medical retina specialist and recent past Director of Ophthalmology for the Sydney West Health Network, and heads a retinal practice (Sydney West Retina). His clinical focus is managing age-related macular degeneration (AMD) and diabetic retinopathy, particularly using anti-VEGF therapy.

He has been the recipient of a number of awards and prizes, and served as an ARVO Trustee and ARVO Vice President. He was awarded Officer of the Order of Australia in 2018 and was principal investigator on the Blue Mountains Eye Study and other major epidemiological studies of eye disease, including childhood studies.

Prof. Mitchell has co-authored over 1,060 papers in peer-reviewed journals, including a recent first-authored Seminar on AMD in the Lancet (Sep 2018), and has more than 70,000 citations to his work. He has a strong interest in development, evaluation and application of evidence-based treatment guidelines, particularly in new therapies for AMD, diabetic retinopathy/macular edema (DME). He was principal author of the Australian NHMRC Guidelines on Management of Diabetic Retinopathy and a senior investigator, and enrolled patients in many of the pivotal randomized clinical trials in medical retina of AMD, DME, RVO and other diseases. His current research includes applications of wide field OCT angiography to assessment of AMD and diabetic retinopathy.
The Growing Contribution of Wide Field OCT Angiography to the Current Understanding and Management of Diabetic Retinopathy

Nov 22, 2019  16:30 – 17:00  Session Room 1

Wide field OCT angiography (wf-OCTA) imaging now provides unrivalled resolution of both the macular and peripheral retinal vascular bed in patients with diabetic retinopathy (DR), including both superficial and deep layers. Disproportionate damage to the deep layer, which is not visible on traditional fluorescein angiography (FA), may be a prognostic marker of macular oedema that is resistant to anti-VEGF therapy, or unexplained visual loss.

As the key biomarker for DR is non-perfusion of the retinal capillary bed, this modality promises much greater understanding of the risk factors, evolution, and implications of these capillary vasculature changes in DR.

Retinopathy severity (ETDRS level) has been shown to reduce in many patients treated with anti-VEGF; while it likely reflects some reversal of capillary non-perfusion, this has not yet been proven.

The over-riding advantage is that wf-OCTA can be repeated regularly unlike FA, as it is non-invasive; swept-source imaging has some advantages in terms of wide field.

The presentation will address whether wf-OCTA can help to predict non-responders to anti-VEGF, and its potential use to monitor NV regression when managing PDR with PRP.
Dr. Guy Li Jia CHEN (Hong Kong, China)

Dr. Guy Li Jia Chen is Associate Professor in the Department of Ophthalmology and Visual Sciences at The Chinese University of Hong Kong, and Honorary Associate Consultant at the New Territories East Cluster, Hong Kong.

Dr. Chen is a devoted ophthalmologist with passion and commitment to patient service. He has been providing full-time public clinical services in Hong Kong, and has been elected as Distinguished Young Fellow by the Hong Kong Academy of Medicine in 2019.

Actively working on ophthalmic research, Dr. Chen’s major research field is ophthalmic genetics, in particular the genetics of macular diseases. He has published 104 papers in SCI international indexed peer-reviewed journals, with an H-index of 26. He is also active in research grant application, being the Principal Investigator of 6 major local, national and international competitive research grants, with a total amount of more than HK$5 million. Moreover, Dr. Chen has received the Research Award in 2015 from the Global Ophthalmology Awards Program in Bayer, Germany.

Dr. Chen also dedicates himself to international service. He has delivered more than 30 lectures as invited speaker and chaired more than 10 sessions in international conferences. He obtained the Asia-Pacific Academy of Ophthalmology (APAO) Achievement Award in 2017 at the 32nd APAO Congress in Singapore.

Dr. Chen will keep striving for excellence in clinical services and continue his leadership in ophthalmic genetics research in Hong Kong and the Asia-Pacific region.
Genetics of Age-related Macular Degeneration and Polypoidal Choroidal Vasculopathy in Chinese

Nov 23, 2019  16:00 – 16:30  Session Room 1

Age-related macular degeneration (AMD) and polypoidal choroidal vasculopathy (PCV) are leading causes of irreversible blindness among the elderly population in developed countries. Both AMD and PCV are complex diseases involving multiple genetic and environmental risk factors. So far, a number of susceptible genes have been identified for AMD and PCV. While many of those genes are shared by AMD and PCV, some have showed significant differences between them. Some of the genes also reflected ethnic diversities. This lecture is to review and update the genetics of AMD and PCV, with a focus on our work on AMD and PCV genetics in Chinese.
Dr. Suber S. HUANG (United States)

Dr. Suber S. Huang is CEO of the Retina Center of Ohio, Voluntary Assistant Clinical Professor of Ophthalmology at Bascom Palmer Eye Institute (BPEI), University of Miami, and Chair of the National Eye Health Education Program of National Eye Institute, National Institute of Health. He received his undergraduate degree at Johns Hopkins University, medical degree from Albert Einstein College of Medicine, ophthalmology residency at Wilmer Eye Institute, Johns Hopkins University, and fellowship in Vitreo-retinal Diseases and Surgery from BPEI.

He had graduate training at Harvard University and Wharton School of Business at the University of Pennsylvania, and received his Executive MBA from the Weatherhead School of Management at Case Western Reserve University (CWRU). He founded the “all things retina” Image Bank, the world’s largest and most comprehensive open-access multimedia database of “all things retina”. The Bank links expertise and educational opportunities around the world. It has been used in 194 countries and will exceed three million cumulative page views in 2020. He is also a founding officer of Retina Global and Director and Life Trustee of the University School. He is President and CEO of The Future Vision Foundation, whose mission celebrates breakthrough vision research through powerful documentaries of discovery, impact and hope. He is a past President of the American Society of Retina Specialists (ASRS).

Dr. Huang is an Inductee into the Retina Hall of Fame and has been awarded the Asia-Pacific Academy of Ophthalmology (APAO) Jose Rizal International Medal, Distinguished Alumnus Award from Wilmer Eye Institute, Johns Hopkins University School of Medicine, the Top Doctor Awards and Best Doctors in America every year since 2003, two American Academy of Ophthalmology (AAO) Secretariat Awards and the AAO and ASRS Senior Achievement and Honor Awards. Other awards include the Rainbow Babies and Children’s Hospital Pediatric Innovation, OPS J. Donald M. Gass, MD Award, International Congress of Ophthalmic Photographers, the National Diversity Council Leadership Excellence Award and the CWRU Humanism in Medicine Award, which is given annually to the School of Medicine faculty member who most demonstrates compassion and professionalism in the care of patients and their families.

APVRS INTERNATIONAL AWARD LECTURE

The APVRS International Award Lecture was established in 2017. The International Award Lecture recognizes individuals from outside the Asia-Pacific region for outstanding contributions in advancing the understanding, diagnosis, and treatment of vitreo-retinal diseases. There is no age restriction for APVRS International Award Lecture recipients.
Future Vision – Retina 2020 and Beyond  
Nov 23, 2019  16:30 – 17:00  Session Room 1

This lecture will focus on dynamic and disruptive changes in the retinal field that will shape practice patterns. The presentation will predict the major trends in gene therapy, regenerative science, cell-based therapy, personalized medicine, and deep learning artificial intelligence will converge to produce novel approaches to retinal diseases and the practice of medicine.
APVRS TANO TRAVEL GRANTS

The APVRS Tano Travel Grants were established in memory of the Founding President of the Asia-Pacific Vitreo-retina Society (APVRS), Prof. Yasuo Tano, with the aim to provide partial travel support to young ophthalmologists in the vitreo-retina field in the Asia-Pacific region to attend the APVRS Congress. This is an integral part of APVRS’s effort to further the training and education of young ophthalmologists in the Asia-Pacific region.

Arif Hayat PATHAN (Bangladesh)  
Tingyi LIANG (China)  
Lawrence P. IU (Hong Kong, China)  
Sushma JAYANNA (India)  
Roshija K. RIJAL (Nepal)
Retinal Imaging in the Future
Imaging has become an integral part of the management of many retinal conditions. Yet, many imaging modalities currently in research are making rapid progress and are expected to be incorporated into mainstream clinical use in the near future. In this session, you will learn about some of the most promising retinal imaging developments that are likely to impact your day-to-day practice in the next 5 years.

08:30 - 10:00  Venue: Session Room 4
Chair(s): Gemmy CHEUNG, Jinfeng QU, SriniVas SADDA

08:30  Multicolor Imaging and Color FAF
Giovanni STAURENGLI

08:42  Ultra-wide Field
Suqin YU

08:54  Swept-source OCT
Gemmy CHEUNG

09:06  Doppler OCT
Youngseok SONG

09:18  FLIO
SriniVas SADDA

09:30  Adaptive Optics
Amani FAWZI

09:42  AI in Retinal Imaging
Daniel TING

Advanced Retinal Imaging

14:30 - 16:00  Venue: Session Room 4
Chair(s): Frank G. HOLZ, Xiaoxin LI, Taiji SAKAMOTO

14:30  The Utility of OCTA in Cases of Central Serous Chorioretinopathy
Karl CSAKY

14:41  OCTA in MacTel2 – New and Complimentary Multimodal Imaging Findings
Ethan PRIEL

14:52  OCT Image of Choroidal Structure Using Machine Learning
Taiji SAKAMOTO

15:03  Pachychoroid and Imaging
Seung-Young YU

15:14  Update on FLIO
Sebastian WOLF

15:25  Digital Marker: Artificial Intelligence for Morphology-based Function Prediction
Frank G. HOLZ

15:36  Image Processing for Optical Coherence Tomography Angiography
Yi-Ting HSIEH

15:47  Can We Distinguish PIC and PIC-CNV Without OCTA?
Xiaoxin LI

Other (General Ophthalmology)

Opening Ceremony and APVRS Tano Lecture

16:00 - 17:00  Venue: Session Room 1
Chair(s): Andrew CHANG, Dennis LAM, Xiaoxin LI

16:00  Opening Ceremony

16:30  APVRS Tano Lecture: The Growing Contribution of Wide Field OCT Angiography to the Current Understanding and Management of Diabetic Retinopathy
Paul MITCHELL

Pediatric Retina

Pediatric Retina: Treatment
Led by the highly experienced international faculty, this symposium will explore the latest management approaches for a range of pediatric vitreo-retinal conditions, including
ROP, FEVR, giant retinal tear related retinal detachment and optic disc anomalies. The topical area of neuro-development in ROP following anti-VEGF treatment will also be discussed.

10:15 - 11:45  **Venue: Session Room 3**  
Chair(s): Shunji KUSAKA, Sui Chien WONG, Peiquan ZHAO

10:15  Management of Retrolental Plaque in Lens Sparing Vitrectomy for Pediatric Traction Retinal Detachment  
*Peiquan ZHAO*

10:27  Surgery for Stage 4 Retinopathy of Prematurity: Optimizing Lens Preservation and Outcomes  
*Sui Chien WONG*

10:39  Surgery for Stage 5 Retinopathy of Prematurity  
*Jianhong LIANG*

10:51  Familial Exudative Vitreoretinopathy Management  
*Xiaoyan DING*

11:03  Vitrectomy for RD Associated with Morning Glory Syndrome  
*Shunji KUSAKA*

11:15  Pediatric Giant Retinal Tear Retinal Detachment  
*Hai LU*

11:27  Neuro-developmental Outcome After Anti-VEGF for ROP  
*Wei-Chi WU*

11:39  Exudative Retinal Detachment in Coats Disease  
*Jiao LYU*

**RETINAWS**

09:00 - 10:00  **Venue: Session Room 5**  
Chair(s): Kourous REZAIEI

09:00  Zimura®, a Novel Complement C5 Inhibitor, Reached Statistical Significance in a Randomized, Sham Controlled Clinical Trial in Geographic Atrophy Secondary to Dry AMD  
*Kourous REZAIEI*

09:22  Longitudinal Changes of Pachydrusen  
*Yasuo YANAGI*

09:34  Predicting AMD Progression Risk Using AI  
*Dale WEBSTER*

09:46  Role of OCT Angiography in Assessing Atrophic Changes in Treated Neovascular AMD  
*Paul MITCHELL*

09:58  Geographic Atrophy in CATT Study  
*Lee-Jen CHEN*

10:10  Drugs in the Pipeline for the Treatment of Geographic Atrophy  
*David BOYER*

10:22  Results of the 2 Phase Trials for Apl-2 and Brimonidine  
*David BOYER*

10:34  Questions and Answers

**Age-related Macular Degeneration: PCV**

10:15 - 11:45  **Venue: Session Room 1**  
Chair(s): Peter KAISER, Won Ki LEE, Xiaoling LIANG

10:15  My Perspective on the Pathogenesis of Type 1 Aneurysmal NV  
*K. Bailey FREUND*

10:25  OCT and OCTA Features of PCV  
*Keiko KATAOKA*

10:35  Appearance of Polypoidal Lesions Using Swept-source OCTA  
*Xiaodong SUN*
Scientific Programs

Invited Symposia

10:45  Updated Diagnostic Criteria for PCV
       Gemmy CHEUNG

10:55  Polypoidal or Subretinal Aneurysmal Subtype of Wet AMD — A Predictor for Anti-VEGF Resistance
       Gregg KOKAME

11:05  Case Presentation and Panel Discussion
       Gemmy CHEUNG

11:15  Case Presentation and Panel Discussion
       Won Ki LEE

11:25  Case Presentation and Panel Discussion
       Xiaoling LIANG

11:35  Case Presentation and Panel Discussion
       Peter KAISER

Inherited Retinal Degenerative Diseases

The diagnosis and management of the patient (and family) with inherited retinal dystrophy is complex. It requires a sophisticated skill set, and is often undertaken by an interactive team of specialists. Minimum requirements are probably a clinician with extensive experience, an imaging expert, a specialist electrophysiologist, and a genetics/molecular biology expert. This symposium will focus not only on those aspects of diagnosis and evaluation, but will also address some of the therapeutic interventions now or soon to be available.

10:15 - 11:45  Venue: Session Room 4
Chair(s): Graham HOLDER, Harvey UY, Zhengqin YIN

10:15  A Clinical Approach to Inherited Retinal Disease (IRD) and Setting Up an IRD Clinic
       Adrian KOH

10:26  Multimodal Imaging in IRD
       Shiyiing LI

10:37  Accurate Electrophysiological Phenotyping and Structure Function Relationships
       Graham HOLDER

10:48  Genotype-phenotype Correlations: Pearls and Pitfalls
       Ruifang SUI

10:59  Therapeutic Challenges for Retinal Degeneration
       Shuichi YAMAMOTO

11:10  The Subretinal Implant, How It Started, What We Achieved and Why It Ended
       Karl BARTZ-SCHMIDT

11:21  Stem Cell Therapy in IRD
       Zhengqin YIN

11:32  IRD Clinic Panel Discussion
       Karl BARTZ-SCHMIDT, Graham HOLDER, Adrian KOH, Shiyiing LI, Cecinio RONQUILLO, Ruifang SUI, Shuichi YAMAMOTO

Diabetic Retinopathy: Epidemiology, Screening, and Prevention

Diabetic retinopathy (DR) is a major complication of diabetes and the leading cause of blindness among working adult people worldwide. This session will cover major developments in epidemiology, risk factors and screening for DR, including updates and examples of national screening programs in different countries in Asia. DR screening by fundus photography, usually within a tele-ophthalmology framework, and use of artificial intelligence (AI) algorithms will be also presented. The symposium will cover progress made and challenges that remain in our continuing battle with DR.

14:30 - 16:00  Venue: Session Room 1
Chair(s): Antonia JOUSSEN, Fang LU, Gavin TAN

14:30  National Healthcare Records and Insights into Risk Factors for Diabetic Retinopathy
       Tyler RIM

14:42  AI Enhancement of National Diabetic Retinopathy Screening Program in Singapore
       Gavin TAN

14:54  Experience of Real Life Implementation of AI in Diabetic Retinopathy Screening in Thailand
       Paisan RUAMVIBOONSUK
15:06  Challenges in Regulating AI-based Screening Algorithm for Diabetic Retinopathy  
   Sang Jun PARK

15:18  How to Screening for Diabetic Retinopathy in China?  
   Peiquan ZHAO

15:30  Challenges in Prevention of Diabetic Retinopathy  
   Antonia JOUSSEN

15:42  Identifying Other Referable Diseases during DR Screening with the Assistance of AI  
   Lu YANG

Retinal Vascular Diseases  
This session will cover the pathophysiology and latest treatment options for retinal vein occlusion and macula telangiectasia. It will be suitable for all retinal specialists, general ophthalmologists and trainees.

14:30 - 16:00  Venue: Session Room 5  
   Chair(s): Kenneth FONG, Jeff HEIER, Ming ZHANG

14:30  Pathophysiology and Current Anti-VEGF Agents  
   Jeff HEIER

14:50  Another Option in China for Retinal Vein Occlusion  
   Ming ZHANG

15:00  Steroids for RVO  
   Aditya SUDHALKAR

15:10  Emerging Treatments for Macula Edema Due to RVO  
   Peter KAISER

15:20  Retinal Vein Cannulation for RVO  
   Kazuaki KADONOSONO

15:30  Updates on Mactel  
   Ranjana MATHUR

15:40  Systemic Issues Related to Retinal Artery and Vein Occlusion  
   Hon Seng WONG

15:50  Questions and Answers

Retina (Surgical)

Prevention and Management of VR Complications from Anterior Segment Surgeries

08:30 - 10:00  Venue: Session Room 1  
   Chair(s): Judy KIM, Dennis LAM, Changguan WANG

08:30  Combined Cataract and Vitrectomy Surgery: Pros and Cons  
   Doric WONG

08:40  Prevention, Diagnosis and Management of Post-operative CME  
   Xinyuan ZHANG

08:50  Management of PC Rupture during Phaco Surgery  
   Dennis LAM

09:00  Management of Retained Lens Fragments: When and How?  
   Judy KIM

09:10  Secondary IOL Options  
   Marten BRELEN

09:20  Management of Choroidal Effusion and Hemorrhage During Anterior Segment Surgery  
   Sung Soo KIM

09:30  Prevention and Management of Severe Vitreoretinal Complications of Anterior Segment Surgery  
   Hua YAN

09:40  Updates on Prevention and Management of Postoperative Endophthalmitis  
   Taraprasad DAS

Challenges in Surgical Retina 1

08:30 - 10:00  Venue: Session Room 3  
   Chair(s): Carl CLAES, Masahito OHJI, Meixia ZHANG

08:30  Surgical Removal of Submacular Haemorrhage with a Posterior Retinectomy  
   Manish NAGPAL
Scientific Programs

Invited Symposiums

08:41  Repair of Rhegmatogenous RD, How to Avoid Complications by Subretinal PFC in Primary Vitrectomy
       Karl BARTZ-SCHMIDT

08:52  A Fantastic Case of a Large Free-floating Epithelial Cyst in the Vitreous Cavity
       Jorge FORTUN

09:03  Twenty-seven-gauge Vitrectomy for Complex Diabetic Retinal Detachment
       Young Hee YOON

09:14  ILM Transplantation in Refractory Macular Holes
       Fumio SHIRAGA

09:25  Traumatic Endophthalmitis
       Sundaram NATARAJAN

09:36  Application of FCVB in Silicon Oil Dependency
       Dawei SUN

09:47  Drainage of Suprachoroidal Fluid, Hemorrhage, Silicone Oil and Gas in Vitreoretinal Complications
       Haoyu CHEN

Mystery Cases of Non-macular, Retinal Surgery

14:30 - 16:00 Venue: Session Room 3
Chair(s): Chi-Chun LAI, Hiroko TERASAKI, Peter WIEDEMANN

14:30  Where Was the IOFB?
       Lawrence LEE

14:40  A Case of Endophthalmitis After Primary Repair of Grobe Rupture
       Yoon Jeon KIM

14:50  Vitrectomy in Infectious Endophthalmitis
       Kuan-Jen CHEN

15:00  Novel Surgical Technique; Choroidal Hemangioma and Optic Disc Pit
       Hussain KHAQAN

15:10  All Risk Was Changed in a Last Eye
       Yong CHENG

15:20  Fibro-vascular Proliferative Retinopathy Associated with Morning Glory Disc Anomaly
       Tomoka ISHIDA

15:30  Development and Closure of Small Macular Holes
       Peter WIEDEMANN

15:40  Surgery for PVR in a Boy with Familial Exudative Vitreoretinopathy
       Hiroko TERASAKI

15:50  Severe Close Funnel PVR with Sub-Retinal Silicone Oil
       Chi-Chun LAI

Nov 23, 2019 (Sat)

Intraocular Inflammation, Uveitis & Scleritis

Uveitis Pearls for Diagnosis

08:30 - 10:00 Venue: Session Room 4
Chair(s): Lyndell LIM, Quan Dong NGUYEN, Peizeng YANG

08:30  The Role of Investigations in Uveitis
       Lyndell LIM

08:43  Tips for Diagnosing Primary Vitreo-retinal Lymphoma
       Robert SYMONS

08:56  Development and Evaluation of a Novel Set of Diagnostic Criteria for Vogt-Koyanagi-Harada Disease
       Peizeng YANG

09:09  Tips for Diagnosis in Suspected Viral/Infectious Uveitis
       Thanapong SOMKIJRUNGROJ

09:22  Ocular Tuberculosis – Pearls from Collaborative Ocular Tuberculosis Study (COTS)
       Rupesh AGRAWAL

09:35  Imaging in the Diagnosis of Uveitis
       Quan Dong NGUYEN
Scientific Programs

09:48  Diagnostic Vitrectomy and Retinal Biopsy  
  Diana DO

Neuroscience, Stem Cells & Regenerative Medicine

Advances in Gene Therapy of Retinal Diseases
Retinal degenerative diseases are a major cause of blindness and encompass multifactorial diseases, such as Leber congenital amaurosis, Stargardt disease and retinitis pigmentosa. More than 200 known genes are associated with hereditary retinal degenerations, and there are no approved treatments for most of these disorders presented with significantly phenotypic and genetic heterogeneity. Retinal gene therapy is a trail-blazer in the human gene therapy field, leading to the first FDA approved gene therapy product for a human genetic disease. Clinicians have been at the forefront of the development of gene therapy, which brings hope for the treatment of these conditions.

10:15 - 11:45  Venue: Session Room 4  
  Chair(s): Camiel BOON, Ian CONSTABLE, Xiaodong SUN

10:15  Choroideremia Gene Therapy  
  Kanmin XUE

10:28  AON Therapy in CEP290 Dystrophy  
  Elliott SOHN

10:41  Gene Therapy for X-linked Retinitis Pigmentosa and for Achromatopsia  
  Dominik FISCHER

10:54  Clinical Requirements in Assessment for Gene Therapy  
  Camiel BOON

11:07  Novel Gene Therapies for Inherited Retinal Diseases  
  Kourosh REZAEI

11:20  Gene Therapy for AMD and Alternative Delivery Methods  
  Ian CONSTABLE

11:33  Clinical Trials of Gene Therapy  
  Byron LAM

Ocular Imaging

Application of 2D Retinal Images
Retinal imaging plays a key role in identification and management of retinal diseases. This session will present old and new imaging modalities and, in particular, give suggestions on how to obtain and evaluate infrared, autofluorescence, multicolor and wide field imaging. It will underline the importance of 3D with stereo imaging and when fluorescein and indocyanine green angiography are still necessary. Finally, the role of artificial intelligence will also be explained.

14:30 - 16:00  Venue: Session Room 3  
  Chair(s): Tock Han LIM, Giovanni STAURENGHI, Min WANG

14:30  Wide Field Fundus Photography – Montage, Wide, Ultra-wide, Which Is Better?  
  SriniVas SADDA

14:40  Infrared Fundus Photography – The Most Commonly Ignored  
  Giovanni STAURENGHI

14:50  Autofluorescence Imaging: An Adjunct or a “Must-Have”  
  Frank G. HOLZ

15:00  FA/ICGA – Do You Still Need Them?  
  Tock Han LIM

15:10  Stereo Imaging – A Thing of the Past?  
  Ethan PRIEL

15:20  Multicolor Imaging – Better than Conventional Color Fundus Photo?  
  Min WANG

15:30  AI Color Fundus Photo – Uncovering New Information  
  Adnan TUFAIL

15:40  Predicting Cardiovascular Risk and Anemia from Fundus Photos Using AI  
  Akinori MITANI
Swept-source OCT and OCT Angiography
Swept-source OCT (SS-OCT) is revolutionizing the way we diagnose and manage vitreoretinal, retinal vascular and chorio-retinal diseases. This symposium will cover the latest real-world clinical applications of both structural and angiographic SS-OCT imaging in diabetic retinopathy, dry age-related macular degeneration (AMD), macular neovascularization due to polypoidal choroidal vasculopathy and AMD, ocular inflammatory conditions, and in normal aging. Both macular and widefield SS-OCT imaging will be discussed and compared with conventional dye-based angiography. The use of appropriate boundary-specific anatomic segmentation to obtain correct diagnoses will be emphasized.

14:30 - 16:00  Venue: Session Room 5
Chair(s): Philip ROSENFELD, Fenghua WANG, Seung-Young YU

14:30  FA or not FA, to Detect Microaneurysm: OCTA, SLO or FA  
Taiji SAKAMOTO

14:39  Evaluating Neovascularization with Swept-source OCT Angiography  
Min WANG

14:48  SS-OCT and ICGA Comparison on PCV  
Seung-Young YU

14:57  Follow-up PCV Using SS-OCTA After Anti-VEGF Treatment  
Fenghua WANG

15:06  SS-OCTA Imaging of Subclinical, Non-exudative Macular Neovascularization  
Philip ROSENFELD

15:15  Quantitative Imaging of Choroid Using Swept-source OCT  
Ruikang WANG

15:24  MEWDS is Chorioretinopathy? – Revealed by OCTA  
Xiaoxin LI

15:33  Clinical Application of Wide Field SS-OCT in Retinal Vascular Diseases  
Suqin YU

15:42  Comparison of SS-OCTA and Fluorescein Angiography on Diabetic Retinopathy  
Toshinori MURATA

15:51  Quantification of Retinal Vessel Tortuosity in Diabetic Retinopathy Using OCTA  
Hyung Chan KIM

Ocular Oncology & Pathology

Intraocular Tumors

10:15 - 11:45  Venue: Session Room 5
Chair(s): Norbert BORNFELD, Duangnate ROJANAPORN, Wenbing WEI

10:15  Lesions Simulating Uveal Melanoma  
William MIELER

10:26  Molecular Genetic Differentiation of Choroidal Tumors (Malignant Melanoma vs Hemangioma)  
Norbert BORNFELD

10:31  Liquid Biopsy for Uveal Melanoma  
Martine JAGER

10:42  Synergistic Regulation of TGF-β Induced EMT of Uveal Melanoma Cell by miR-145/miR-205  
Yang LI

10:53  Surgical Management of Large Uveal Melanomas  
Antonia JOUSSEN

11:04  Diagnostic Approach in Pediatric Intraocular Tumor  
Xiaolin XU

11:15  Vitreo-retinal Surgery in Refractory Retinoblastoma  
Junyang ZHAO

11:26  New Treatment Approaches in the Management of Retinoblastoma  
(Nazination of Brachytherapy and Local Chemotherapy, Proton Treatment)  
Norbert BORNFELD

11:34  Recent Advance in the Management of Vascular Tumors  
Duangnate ROJANAPORN
Scientific Programs

Invited Symposiums

Other (General Ophthalmology)

**Constable Lecture and International Award Lecture**

16:00 - 17:00  **Venue: Session Room 1**  
**Chair(s):** William MIELER, Paisan RUAMVIBOONSUK, Peiquan ZHAO

16:00  APVRS Constable Lecture: Genetics of Age-related Macular Degeneration and Polypoidal Choroidal Vasculopathy in Chinese  
*Li Jia CHEN*

16:30  APVRS International Award Lecture: Future Vision – Retina 2020 and Beyond  
*Suber S. HUANG*

Retina (Medical)

**What’s New in Medical Retina**

This symposium will review the recent advances in the field of medical retina. It covers age-related macular degeneration (atrophic and neovascular), PCV, central serous chorioretinopathy, retinal vein occlusion and diabetic retinopathy. The audience will get updated knowledge of these disorders.

08:30 - 10:00  **Venue: Session Room 2**  
**Chair(s):** Lee-Jen CHEN, Yuichiro OGURA, Tien-Yin WONG

08:30  Update on NV-AMD Masqueraders  
*Timothy LAI*

08:42  Update on Diabetic Retinopathy  
*Tien-Yin WONG*

08:54  Update on Retinal Vein Occlusions  
*Motohiro KAMEI*

09:06  Update on NV-AMD  
*Adrian KOH*

09:18  Update on PCV  
*Won Ki LEE*

09:30  Update on Central Serous Chorioretinopathy  
*Tomohiro IIDA*

09:42  Update on Atrophic AMD  
*Shih-Jen CHEN*

**Diagnostic and Treatment Conundrums in Retinal Diseases**

This symposium will address how rare conditions can mimic common diseases and how common age-related disorders can present challenges when treatment responses do not go according to plan or expectations. The case examples will review steps towards revising diagnosis and/or treatment plans. In the second part, presenters will discuss complex presentations and misdiagnosis, as well as novel diagnostic methodologies that can distinguish infective etiologies. The symposium will review one of the most recent advances in therapeutics with a novel case study example at the end.

08:30 - 10:00  **Venue: Session Room 3**  
**Chair(s):** Usha CHAKRAVARTHY, Oh Woong KWON, Xuan SHI

08:30  Case Presentation 1  
*Xuan SHI*

08:35  Case Presentation 2  
*Kyoko OHNO-MATSUI*

08:40  Case Presentation 3  
*K. Bailey FREUND*

08:45  Case Presentation 4  
*Kelvin Yi Chong TEO*

08:50  Panel Discussion

09:03  Case Presentation 5  
*SriniVas SADDA*

09:08  Case Presentation 6  
*Seung-Young YU*

09:13  Case Presentation 7  
*Usha CHAKRAVARTHY*

09:18  Case Presentation 8  
*Paisan RUAMVIBOONSUK*

09:23  Panel Discussion
My Best Medical Retina Cases of 2019
Have you encountered any problems that cannot be solved in the diagnosis and treatment of medical retinal diseases? Are there any valuable experiences gained from proper diagnosis and treatment? As one of the highlights of APVRS 2019, “My Best Medical Cases” session will bring about a number of interesting medical cases. Nine experienced and well-known retinal specialists will share their analysis and valuable experience in the diagnosis and treatment of some challenging medical retinal diseases.

10:15 - 11:45  **Venue: Session Room 3**
**Chair(s):** K. Bailey FREUND, Paisan RUAMVIBOONSUK, Xinyuan ZHANG

- 10:15  **My Best Medical Retina Case 1**
  *William MIELER*

- 10:25  **My Best Medical Retina Case 2**
  *David SARRAF*

- 10:35  **My Best Medical Retina Case 3**
  *K. Bailey FREUND*

- 10:45  **My Best Medical Retina Case 4**
  *Atchara AMPHONPHRUET*

- 10:55  **My Best Medical Retina Case 5**
  *Xinyuan ZHANG*

- 11:05  **My Best Medical Retina Case 6**
  *Adrian FUNG*

- 11:15  **My Best Medical Retina Case 7**
  *Taiji SAKAMOTO*

- 11:25  **My Best Medical Retina Case 8**
  *Adrian KOH*

- 11:35  **My Best Medical Retina Case 9**
  *Min WANG*

The Impact of Systemic Medications on Retinal Function
This symposium will provide a thorough review of systemic medications that are capable of causing various patterns of retinal toxicity. Included will be medications that disrupt the retinal pigment epithelium or cause retinal vascular occlusion, cystoid macular edema/retinal edema, crystalline deposition, uveitis and miscellaneous subjective visual symptoms. The mechanism of action will be discussed when known, along with prevention and treatment. Newer entities, such as pentosane, MEK inhibitors and checkpoint inhibitors, will also be explored.

14:30 - 16:00  **Venue: Session Room 4**
**Chair(s):** William MIELER, Shibo TANG, Young Hee YOON

14:30  **Introduction & Overview**

14:33  **Disruption of the Pigment Epithelium**
  (Thioridazine, Dideoxyinosine, Deferoxamine)
  *Elliott SOHN*

14:45  **Hydroxychloroquine and Chloroquine**
  *David SARRAF*

14:57  **Pentosan Polysulfate (Pigmentary Maculopathy – A New Ocular Association)**
  *William MIELER*

15:09  **Vascular Occlusion (Quinine, Ergot Alkaloids, Oral Contraceptives, etc.)**
  *Joo Yong LEE*

15:21  **Cystoid Macular Edema (Nicotinic Acid, Sulfa Medications, Topiramate, etc.)**
  *Shibo TANG*

15:33  **Crystalline Deposition (Tamoxifen, Methoxyflurane, Canthaxanthin, etc.)**
  *Young Hee YOON*

15:45  **Chemotherapeutics, MEK and Checkpoint Inhibitors**
  *William MIELER*

15:57  **Summary**
Retina (Surgical)

**Mystery Cases of Macular Surgery**
Challenging cases will be presented in this symposium focusing on macular surgery. The approaches to diagnosis, surgery and managing complications will be discussed by leading international vitreo-retinal surgeons. The maculopathies include traumatic macular injury, inflammatory conditions, myopic maculopathy and congenital lesions. The audience will learn from the pearls shared by the experts.

08:30 - 10:00 **Venue: Session Room 1**  
*Chair(s): Andrew CHANG, Yannian HUI, Kazuaki KADONOSONO*

08:30 BB Gun for Macula  
*Taiji SAKAMOTO*

08:40 Optic Disc Pit Maculopathy: Tips and Pitfalls  
*Andrew CHANG*

08:50 Sudden Visual Impairment in Young Female Patient with Normal Appearance of Macula  
*Kazuaki KADONOSONO*

09:00 Case of Toxoplasma with Epiretinal Membrane  
*Manish NAGPAL*

09:10 To Peel or Not to Peel...This Is the Question...  
*Antonia JOUSSEN*

09:20 Case Presentation: What Is the Minimally Invasive Surgery for Macular Hole?  
*Youxin CHEN*

09:30 The Mystery Ball Disappeared  
*Peiquan ZHAO*

09:40 Sudden Vitreous Opacity After Prostate Surgery  
*Quanhong HAN*

09:50 The “Plug” Structure Limited the Range of Retinal Detachment Associated with Macular Hole in Highly Myopic Eyes  
*Xiaodong SUN*

**Innovation and Controversies in Retina Surgery**
This symposium will review new innovations and technical advances in surgical retinal diseases. The international faculty will share their perspectives on complex and difficult retinal conditions, including peeling of the internal limiting membrane, re-operations for failed macular hole surgery, proliferative vitreoretinopathy, neovascular glaucoma, pediatric retina surgery and the role of retina surgery following devastating eye trauma. The session will also highlight how emerging technology, such as OCT angiography, integrated microperimetry, indications for intraoperative OCT and 3D vitreo-retinal surgery, may improve surgical efficiency and clinical outcomes.

10:15 - 11:45 **Venue: Session Room 1**  
*Chair(s): Suber S. HUANG, Hai LU, Doric WONG*

10:15 OCT Angiography and Integrated Microperimetry in Macular Surgery  
*Daniela BACHERINI*

10:25 Gene Therapy for NVAMD  
*Suber S. HUANG*

10:35 Reoperation for Macular Hole Using Amniotic Membrane  
*Magno FERREIRA*

10:45 Autologous Retinal Transplantation for Persistent Macular Hole – Our Local Experience  
*Raymond WONG*

10:55 Intraoperative OCT for Pediatric Retina Surgery  
*Hai LU*

11:05 Early Vitrectomy in Neovascularization Glaucoma  
*Zhijun WANG*

11:15 New Innovations in the Management of Complex PVR and Macular Hole  
*Manish NAGPAL*
Scientific Programs

Invited Symposiums

11:25  Treatment of Severe Cases in Open-Eye Injury with No Light Perception
   Hua YAN

11:35  3D Vitreo-retina Surgery
   Kenneth FONG

Challenges in Surgical Retina 2
“Challenges in Surgical Retina 2” extends the discussions to surgery intervention for PCV against anti-VEGF medication, 3D techniques in vitreo-retinal surgery, treatment of retinal detachment in abnormal optic disc, novel tools for subretinal gene therapy, and a comprehensive study on lamellar macular hole.

14:30 - 16:00  Venue: Session Room 1
   Chair(s): Vincenzo FERRARA, Kazuaki KADONOSONO, Zhizhong MA

14:30  Surgical Intervention for PCV Resistant to Anti-VEGF Medication
   Zhizhong MA

14:42  3D Technology in Vitreoretinal Surgery
   Kazuaki KADONOSONO

14:54  Retinal Detachments in Optic Disc Anomalies: Rationale for Treatments
   Vincenzo FERRARA

15:06  Surgical Treatment of Choroid Hemorrhage Detachment in Eye Injury
   Yuntao HU

15:18  Latest Developments in Treating Refractory Macular Hole
   Dennis LAM

15:30  Novel Tools and Techniques for Subretinal Gene and Stem Cell Treatments
   Elliott SOHN

Nov 24, 2019 (Sun)

Artificial Intelligence

Artificial Intelligence for Retinal Disease

10:15 - 11:45  Venue: Session Room 4
   Chair(s): Rajiv RAMAN, Kang ZHANG, Haidong ZOU

10:15  Cost-effectiveness Analysis in Applying AI for DR Screening
   Paisan RUAMVIBOONSUK

10:25  AI for Retinal Disease: The Do and the Don’t
   Daniel TING

10:35  AI for Genetic Association in Retinal Diseases
   Chetan RAO

10:45  Best Practices in Applying AI to Healthcare
   Derek WU

10:55  Using AI to Predict Systemic Factors from Retinal Images
   Tyler RIM

11:05  Improvisations in AI for DR Screening
   Rajiv RAMAN

11:15  What Level of Validation before Clinical Deployment is Required for AI Software
   Adnan TUFAIL

11:25  Application of AI in the Prevention and Treatment of DR in Shanghai
   Haidong ZOU

11:35  Building a Digital Eye Hospital – the Moorfields Journey
   Dawn SIM

Intraocular Inflammation, Uveitis & Scleritis

Uveitis and Ocular Inflammation Treatment
Uveitis and scleritis have multiple etiologies. Non-infectious uveitis, such as uveitis associated with Behcet's disease or sarcoidosis, is one feature of the systemic involvements. Unfortunately, continuous intraocular
inflammation impairs ocular conditions, which develop complicated cataract, secondary glaucoma including steroid involvement, and posterior synechiae of iris obstructing fundus examination. Infectious uveitis, such as ARN, CMV retinitis and uveitis due to tuberculosis, are known to show either acute or chronic inflammation. Early diagnosis is important, but it is sometimes difficult. Another important cause of ocular inflammation is invasion of malignant cells. Primary ocular lymphoma can threaten the life, and early diagnosis is important. This symposium focuses on the early diagnosis and proper treatment for the refractory uveitis.

08:30 - 10:00 Venue: Session Room 5
Chair(s): Qing CHANG, Martine JAGER, Koh-Hei SONODA

08:30 Precision Treatment of Uveitis, with Help of Laboratory Examination
Yong TAO

08:40 CMV Retinitis Treatment Update
Ian WONG

08:50 Complications of Immune Checkpoint Inhibitors in Ocular Oncology
Martine JAGER

09:00 Therapeutic and Diagnostic Vitrectomy for Viral Infection and Masquerade Syndrome
Koh-Hei SONODA

09:10 Mesenchymal Stem Cell-based Therapy, an Alternative Therapy for Uveitis
Xiaomin ZHANG

09:20 Recent Studies on Uveitis: The Chongqing Report
Peizeng YANG

09:30 Inflammation and the Retinal Injury
Liu YANG

09:40 Role of Interleukin-10 as Monitoring Indicator in Management of Vitreoretinal Lymphoma
Qing CHANG

09:50 Panel Discussion

Other (General Ophthalmology)

Young Ophthalmologists’ Symposium

08:30 - 10:00 Venue: Session Room 6
Chair(s): Yaoyao SUN, Anna TAN, Xiaolu YANG

08:30 Welcome & Introduction
Anna TAN

08:35 Finalist Case 1
Yanping ZHOU

08:40 Finalist Case 2
Lawrence IU

08:45 Finalist Case 3
Shin TANAKA

08:50 Finalist Case 4
Rajasudha Sawri RAJAN

08:55 Discussion

09:05 “The Brain” Retinal Quiz Qualifying Round
Marcus ANG, Anna TAN

09:25 Finalist Video 1
Mohit DOGRA

09:30 Finalist Video 2
Hung-Da CHOU

09:35 Discussion

09:40 “The Brain” Retinal Quiz Finals
Adrian FUNG

09:55 Prize Presentation and Closing
Xiaolu YANG

Pediatric Retina

Pediatric Retina: Epidemiology, Screening, and Diagnosis

08:30 - 10:00 Venue: Session Room 4
Chair(s): Rajvardhan AZAD, R. V. Paul CHAN, Jianhong LIANG

08:30 Challenges for Setting Up Screening Protocol for Retinopathy of Prematurity in Asia Pacific Region
Rajvardhan AZAD
08:40  FEVR – Phenotype and Genotypes in the Asia Pacific Region
Peiquan ZHAO

08:50  Pediatric Retinal Detachments – Clinical Pattern and Management Protocol
Jianhong LIANG

09:00  Post Segment Ocular Trauma in Children: Causes, Manifestations and Preventive Measures
Hua YAN

09:10  Pediatric Endophthalmitis – Early Detection & Management Protocol
Dipak NAG

09:20  Hereditary Retinal Disorders and Gene Therapy – Where Are We?
Sundaram NATARAJAN

09:30  Ocular Toxocariasis and Toxoplasmosis in Children – Epidemiology and Clinical Manifestation
Atchara AMPHONPRUET

09:40  ROP: Atypical Presentations
Sang Jin KIM

09:18  Brolucizumab – Not Just Another Anti-VEGF
Adrian KOH

09:30  Latest Data on Brolucizumab for Neovascular AMD
Pravin DUGEL

09:42  Panel Discussion

Diabetic Retinopathy: Treatment
The treatment options for various manifestations of diabetic retinopathy have changed dramatically over the last decade with the advent of new imaging, medical, and surgical techniques. This symposium will highlight recent clinically relevant advances in the management of diabetic macular edema and proliferative diabetic retinopathy, including specific challenges of non-clearing vitreous hemorrhage, traction retinal detachment, and management during pregnancy, using both didactic and case presentations.

08:30 - 10:00  Venue: Session Room 1
Chair(s): Neil BRESSLER, Shih-Jen CHEN, Youxin CHEN

08:30  Management of DME with Vision Loss
Tien-Yin WONG

08:40  Management Options for DME with Good Vision
Jun KONG

08:50  Management Options for High Risk PDR
Voraporn CHAITTMONGKOL

09:00  Management of Non-clearing Vitreous Hemorrhage
Chung-May YANG

09:10  Management of Diabetic Traction Retinal Detachment
Masahito OHJI

09:20  Management of Diabetic Retinopathy in Pregnancy
Mae-Lynn BASTION

09:30  3D Analysis of Morphologic Changes with Visual Outcome in DME
Hyung Chan KIM
09:40  Case Presentations in Diabetic Retinopathy
       Neil BRESSLER

09:45  Panel Discussion

High Myopia
This session will demonstrate the optical coherence tomographic characteristics of a classification of myopic maculopathy as well as high myopia-associated peculiarities of the choroid. Other topics relating to highly myopic eyes, including factors associated with the development of retinal changes, important points in the diagnosis and therapy of myopic choroidal neovascularization, aspects of the vitreo-retinal surgery, and the application of optical coherence tomography (OCT) and OCT-based angiography, will also be discussed.

10:15 - 11:45  Venue: Session Room 1
Chair(s): Jost JONAS, Lin LU, Kyoko OHNO-MATSUI

10:15  OCT-based Classification of Myopic Maculopathy
       Yuxin FANG

10:28  What Factor Induce Retinal Degeneration in Myopia
       Xiangtian ZHOU

10:41  Myopic CNV: Diagnosis and Treatment
       Gemmy CHEUNG

10:54  PM-CNV: Activity and Treatment
       Xiujuan ZHAO

11:07  Optical Coherence Tomography Angiography Biomarkers on the Pathogenesis of Myopic Traction Maculopathy – Why Choosing Foveola Non-peeling/Fovea-sparing Internal Limiting Membrane Peeling, Risks and Benefits?
       Tzyy-Chang HO

11:20  OCT and OCTA Choroid in Myopia – Current Role and Challenges
       Marcus ANG

11:33  Update on Dome-shaped Macula
       Salomon COHEN

Update on Drug Delivery to the Posterior Segment of the Eye
New therapeutic modalities are constantly being developed, which are vastly aiding the treatment of a variety of retinal diseases. This symposium will cover the various routes of drug administration, and will review the challenges of having the drug reach its’ intended target. New treatments in development will be extensively reviewed, along with improvements in administration of currently available medications. Time will be allotted for questions and answers.

10:15 - 11:45  Venue: Session Room 3
Chair(s): Jennifer KANG-MIELER, Xiaoxin LI, William MIELER

10:15  Introduction
       Jennifer KANG-MIELER

10:18  Overview of the Challenges of Posterior Segment Drug Delivery
       William MIELER

10:30  Current and Future Drugs and Advances in Drug Delivery (Part 1)
       Pravin DUGEL

10:42  Suprachoroidal Cannulation and Microneedle
       William MIELER

10:54  Hydrogels, Nanoparticles, and Microspheres
       Jennifer KANG-MIELER

11:06  Port Delivery Systems (PDS)
       Eugene DE JUAN

11:18  Future Drugs and Advances in Drug Delivery (Part 2)
       Pravin DUGEL

11:30  Panel Discussion

11:42  Summary
       Jennifer KANG-MIELER

Central Serous Chorioretinopathy
Central serous chorioretinopathy (CSC), initially described as a benign condition, may evolve towards a severe and chronic disease that may
lead to permanent visual loss. This session will explore a large broad of unsolved problems, for example, the role of choroid in the occurrence of the condition, the relations with polypoidal choroidal vasculopathy, the best multimodal imaging, the diagnosis challenge of atypical forms, and therapeutic aspects, with hesitations between medical therapy, laser, PDT and other attempts.

10:15 - 11:45 **Venue: Session Room 5**
Chair(s): Salomon COHEN, Philip POLKINGHORNE, Mingwei ZHAO

10:15 Trial Place
Camiel BOON

10:23 Choroid in CSCR
Francine BEHAR-COHEN

10:31 Panel Discussion

10:34 Thinking of the Relationship Between CSC and PCV Raised by a Case
Huijun QI

10:42 Comparison of the Outcomes of PDT for CSC with or without Subfoveal Fibrin
Mingwei ZHAO

10:50 Panel Discussion

10:53 Role of Multimodal Imaging in CSCR
Bhuvan CHANANA

11:01 Atypical and Secondary Central Serous Chorioretinopathy
Minh-huyen NGHIEM EP. BUFFET

11:09 CSCR: Diagnostic and Management Algorithm
Dennis LAM

11:17 Spironolactone Versus Observation in the Treatment of Acute Central Serous Chorioretinopathy
Qinghuai LIU

11:25 Panel Discussion

**Great Cases: Inflammation and Beyond**

14:30 - 16:00 **Venue: Session Room 3**
Chair(s): Taraprasad DAS, Gregg KOKAME, Suqin YU

14:30 Is It Really Myopic CNV?
Kyoko OHNO-MATSUI

14:39 Mysterious CNV
Tomohiro IIDA

14:48 Frosted Angiitis
Suqin YU

14:57 Swamp Monster
Taraprasad DAS

15:06 Mysterious Blebs
Ling CHEN

15:15 The Most Familiar Stranger
Jinfeng QU

15:24 High Myopia, Again?
Xiaoyan DING

15:33 A 6 Month-old Girl’s’ Blindness
Fang LU

15:42 Involution of Choroidal Neovascularization After Severe Inflammation from Endophthalmitis
Gregg KOKAME

15:51 TBC
Hideki KOIZUMI

**Retina (Surgical)**

**Intraocular Tamponade in the 21st Century**
Intraocular tamponades are essential tools in vitreo-retinal surgery. A sound knowledge of their methods of action and specific complications is of vital importance for modern day vitreo-retinal surgeons. This symposium will highlight the specifics of the most commonly used tamponades and combine them with an outlook into the recent developments of suprachoroidal tamponades and artificial vitreous.
14:30 - 16:00  **Venue: Session Room 4**  
**Chair(s): Heinrich HEIMANN, Nuttawut RODANANT, Maonian ZHANG**  

14:30  Intraocular Tamponade in the 21st Century  
Heinrich HEIMANN  

14:35  Suprachoroidal Viscoelastic “Buckling” for the Treatment of Rhegmatogenous Retinal Detachment  
Fang LU  

14:45  PFCL Tamponade in 3D and Endoscopic Vitrectomy  
Nuttawut RODANANT  

14:55  Intraocular Tamponade Using Gas  
Dominik FISCHER  

15:05  Intraocular Tamponade Using Conventional Silicone Oil  
Motohiro KAMEI  

15:15  Intraocular Tamponade Using Heavy Silicone Oil  
Heinrich HEIMANN  

15:25  Intraocular Tamponade Using Air and BSS  
Bhuvan CHANANA  

15:35  Artificial Vitreous  
Xiaofeng LIN  

15:45  Panel Discussion
Scientific Programs

BEST ABSTRACT AWARDS

Sponsored by Carl Zeiss this year, the Best Abstract Awards are presented to outstanding abstracts in the submitted programs.

**Best Free Paper Award**

1st Prize
Tomohiro IIDA  
(Japan)

2nd Prize
Hiroto TERASAKI  
(Japan)

3rd Prize
Baoyi LIU  
(China)

**Best Poster Award**

1st Prize
Rosie DAWKINS  
(Australia)

2nd Prize
Longhao KUANG  
(China)

3rd Prize
Suyan LI  
(China)

**Best E-poster Award**

1st Prize
Hung-Jui HSU  
(Chinese Taipei)

2nd Prize
Ying ZHU  
(United States)

3rd Prize
Takahiro SOGAWA  
(Japan)

**Best Video Award**

1st Prize
Sabia HANDA  
(India)

2nd Prize
Bhavik PANCHAL  
(India)

3rd Prize
Yi-Ting HSIEH  
(Chinese Taipei)
FREE PAPERS

Nov 22, 2019 (Fri)

Retina (Surgical)

Rapid Fire Surgical Retina and General Ophthalmology Update Symposium

10:15 - 11:45  Venue: Session Room 5
Chair(s): Voraporn CHAIKITMONGKOL, Wu LIU

10:15  Silicone Oil Emulsification After Vitrectomy for Rhegmatogenous Retinal Detachment
Chunhui JIANG

10:21  Comparison Between 1 DD and 2 DD Radiiues of Conventional Internal Limiting Membrane Peeling for Treatment of Full-thickness Macular Hole: Randomized Clinical Controlled Trial
Parinya SRIHATRAI

10:27  Choroidal Thickness Associated with Delayed Subretinal Fluid Absorption After Rhegmatogenous Retinal Detachment Surgery
Yodpong CHANTARASORN

10:33  Surgical Outcomes of Myopic Traction Maculopathy According to the International Photographic Classification for Myopic Maculopathy
Hyoung Jun KOH

10:39  A Relatively High IOP Set at the End of Vitrectomy Associated with a More Stable and Rapid Visual Recovery for Patients with Vitreous Hemorrhage: a Prospective, Randomized, Comparative, and Interventional Study
Chuandi ZHAO

10:45  Initial Closure Rate and Aperture Threshold of Large Idiopathic Macular Hole Treated with Vitrectomy
Wu LIU

10:51  Vitrectomy with Internal Limiting Membrane Peeling for Management of Exudative Diabetic Maculopathy
Kanwaljeet MADAN

10:57  Relationship Between Shape of Foveal Avascular Zone Determined by OCT Angiography and Metamorphopsia in Epiretinal Membrane Patients
Hiroto TERASAKI

11:03  Amniotic Membrane Graft for the Treatment of Giant Retractory Macular Hole
Hussain KHAQAN

11:09  Clinical Outcomes of Autologous Neurosensory Retinal Free Flap Technique for Recurrent Macular Hole Retinal Detachment in Highly Myopic Eyes
Jianhua WU

11:15  Scleral Buckle in Early Stage Rhegmatogenous Retinal Detachment Pre-refractive Surgery
Tieying ZHAO

11:21  Refractive Error After Intrascleral IOL Fixation Induced by IOL Tilt and Decentration
Teruaki TOKHISA

11:27  Effects of Breathing Meditation on Pupillary Reflexes and Macular Vascular Perfusion in Normal Eyes
Huimin YU

11:33  Comparative Study on Vitreo-retinal Surgery Combined with Intravitreal Ranibizumab or Not in the Treatment of Familial Exudative Vitreoretinopathy of Stage 3 or Greater: A Randomized-control Trial
Xiaoyong HUANG

11:39  Patching Retinal Breaks with Healaflow in 27-gauge Vitrectomy for the Treatment of Rhegmatogenous Retinal Detachment
Xiaorong LI
Nov 23, 2019 (Sat)

Rapid Fire Pediatric Retina, Eye Trauma and Ocular Oncology Update Symposium

08:30 - 10:00  Venue: Session Room 5
Chair(s): Gilbert SIMANJUNTAK, Suqin YU

08:30  The Role of Apelin/APJ in a Murine Model of Retinopathy of Prematurity  
Jing FENG

08:36  The Process of Retinal Vascularization in Retinopathy of Prematurity After Ranibizumab Treatment in China  
Qingyu MENG

08:42  Treatment Outcomes of Coats Disease: 4-year Retrospective Analysis  
Pallavi SINGH

08:48  Multicentral Prospective Randomized Controlled Trial of Intravitreal Injection of Conbercept versus Ranibizumab for Retinopathy of Prematurity  
Guoming ZHANG

08:54  The Associations Between Myopia, Time Spent Outdoors and Serum Vitamin D Status in Preterm Children With or Without a History of Retinopathy of Prematurity  
Hung-Da CHOU

09:00  Corneal Topographic Study on the Development of Anterior Ganglion After Laser Treatment for Retinopathy of Prematurity  
Xianlu ZENG

09:12  The Correlation Between RS1 Genotypes Mutation and Phenotypes of Congenital Retinoschisis Patients  
Qiaowei WU

09:18  A Comparative Study in Multiple-Factor Analysis of Retinopathy of Prematurity Requiring Single or Multiple Anti-VEGF Treatments  
Enzhong JIN

09:24  Management of Postoperative Endophthalmitis in the Modern Era  
Lawrence IU

09:30  Anterior Segment OCT in Open Globe Injury: Novel Non-invasive Tool for Identifying Occult Scleral Tear and Intraocular Foreign Body  
Bhavik PANCHAL

09:36  Combined Intra-arterial Chemotherapy and Intravitreal Melphalan for the Treatment of Advanced Unilateral Retinoblastoma  
Tingyi LIANG

09:42  Systematic Identification of Oncogenic Pathways Associated with the Clinical Outcomes of Uveal Melanoma  
Yongjoon KIM

09:48  Correlation Between Visual Function and Macular Morphological Characteristics Evaluated by SD-OCT in X-linked Retinoschisis  
Baoyi LIU

Nov 24, 2019 (Sun)

Rapid Fire Medical Retina, Neuroscience, and Ocular Imaging Update Symposium

10:15 - 11:45  Venue: Session Room 6
Chair(s): Paisan RUAMVIBOONSUK, Xinyuan ZHANG

10:15  Deep Learning on Optical Coherence Tomography Angiography in Diabetic Retinopathy  
Akitaka TSUIJIKAWA
10:21 Risk of Endophthalmitis After Different Intravitreal Bevacizumab Protocols
\textit{Roshija KHANAL RIAL}

10:27 Assessing Long Term Safety of Voretigene Neparvovec in Patients with RPE65 Mutation-Associated Inherited Retinal Dystrophy: A Real-world Study Design
\textit{Dominik FISCHER}

10:33 Correlation Between Multiluminance Mobility Testing and Visual Function Tests in a Phase 3 Trial of Voretigene Neparvovec for Biallelic RPE65-mediated Inherited Retinal Disease
\textit{Daniel CHUNG}

10:39 Two-year Outcome of Intravitreal Conbercept Versus Ranibizumab for Pathological Myopic Choroidal Neovascularization
\textit{Cong CHEN}

10:45 Four-year Results of a Phase 3 Voretigene Neparvovec Trial in Biallelic RPE65-associated Inherited Retinal Disease
\textit{Daniel CHUNG}

10:51 Relationship Between Triglyceride Glucose Index, Retinopathy and Nephropathy in Type-2 Diabetes
\textit{Pallavi SINGH}

10:57 Characteristic of Posterior Precortical Vitreous Pockets and Cloquet’s Canal in Myopia by Swept-source Optical Coherence Tomography
\textit{Xiangjun SHE}

11:03 Single-cell RNA-seq Analysis Maps Early Development of Mouse and Human Retina
\textit{Xi CHEN}

11:09 Generation of Patient-specific Induced Pluripotent Stem Cells and Retinal Organoids with Novel RPE65 Mutations
\textit{Xiufeng ZHONG}

11:15 Protective Effect of Chemokine CXCL12 on Rat Retinal Ganglion Cells Cultured with High-glucose Environment and Related Mechanism
\textit{Yuqing LAN}

\textit{Oxygen-induced Retinopathy Model Kunyi SU}

11:27 Automated and Interpretable Diabetic Retinopathy Identification by a Deep Learning Algorithm Based on Lesion Detection
\textit{Yuelin WANG}

11:33 Role of MicroRNA-23b-3p in the Cellular Metabolic Memory of Diabetic Retinopathy
\textit{Shuzhi ZHAO}

11:39 Automatic Grading System for Diabetic Retinopathy Diagnosis Using Deep Learning Artificial Intelligence Software
\textit{Xiangning WANG}

11:57 Rapid Fire Medical Retina and Intraocular Inflammation, Uveitis & Scleritis Update Session

\textbf{Venue: Session Room 5}
\textit{Chair(s): Sanyam BAJIMAYA, Haiyan WANG}

14:30 - 16:00

14:30 Fibrosis and HRM Changes in Treated Neovascular Age-related Macular Degeneration: Findings from Multimodal Imaging of the IVAN Clinical Trial
\textit{Luping WANG}

14:36 Efficacy of Intravitreal Aflibercept Administered using Treat-and-extend Regimen over 2 Years in Patients with Neovascular Age-related Macular Degeneration: The ARIES Study Results
\textit{Paul MITCHELL}
14:42 Visual and Expanded Anatomical Outcomes for Brolucizumab Versus Aflibercept in Patients with Neovascular AMD: 96-week Data from HAWK and HARRIER
   Pravin DUGEL

14:48 Increased Mortality after Intravitreal Injections of Anti-vascular Endothelial Growth Factor for Treatment of Neovascular Age-related Macular Degeneration among Patients with Prior Stroke or Acute Myocardial Infarction
   Yu-Yen CHEN

14:54 Diabetic Retinopathy (DR) Improvements with Intravitreal Faricimab in Patients with Diabetic Macular Edema (DME) in the BOULEVARD Trial
   Young Hee YOON

15:00 Real-world Treatment Patterns and Outcomes for Polypoidal Choroidal Vasculopathy in China: Results from a Multicenter, Prospective, Observational Registry Study
   Yanping SONG

15:06 Efficacy of Initial Versus Delayed Photodynamic Therapy in Combination with Conbercept in Patients with Symptomatic Polypoidal Choroidal Vasculopathy
   Zuhua SUN

15:12 Dual Inhibition of Ang-2 and VEGF-A with Faricimab in nAMD: Q16-week and Q12-week Dosing in the STAIRWAY Trial
   Gemmy CHEUNG

15:18 Predictors Associated with the Recurrence of Patients with Wet Age-related Macular Degeneration following Anti-vascular Endothelial Growth Factor Treatment
   Haiyan WANG

15:24 Cytokine Profile Associated with Non-perfusion and Neovascularization on Ultra-wide Field Fluorescein Angiography in Proliferative Diabetic Retinopathy
   Jiwon BAEK

15:30 To Evaluate the Microvascular Structure Changes After Treatment with Conbercept on Macular Edema Secondary to Retinal Vein Occlusion
   Bojun ZHAO

15:36 Efficacy and Safety of Brolucizumab versus Aflibercept in Japanese Patients with Polypoidal Choroidal Vasculopathy: 96-week Results from the HAWK Study
   Tomohiro IIDA

15:42 Detection of Serum Anti-retinal Antibodies in the Chinese Patients with Presumed Autoimmune Retinopathy
   Huiyang ZENG

15:48 Outcomes of Patients on Second-line Anti-tubercular Therapy for Rifampin Resistance Detected Using rpoB Gene Sequencing
   Nitin KUMAR
POSTERS

Eye Trauma, Emergencies & Infections

Poster No.: EX1-001
A 3-year Retrospective Study of Incidence and Visual Outcome of Infectious Endophthalmitis in a Tertiary Government Hospital
First Author: Jan Patrick CHU
Co-Author(s): Egidio FORTUNA, Ronaldo JARIN

Poster No.: EX1-002
Clinical and Optical Coherence Tomography Angiographic Features in Patients After Successful Management of Post-cataract Stenotrophomonas Maltophilia Endophthalmitis by Pars Plana Vitrectomy
First Author: Lu CHEN
Co-Author(s): Dahui MA, Jieting SHE, Jiantao WANG, Guoming ZHANG

Poster No.: EX1-003
Early Vitrectomy in Endophthalmitis
First Author: Rodger PAUL
Co-Author(s): Gursimrat BHULLAR, Andrew CHANG, Rosie DAWKINS, Matthew SIMUNOVIC

Poster No.: EX1-004
Fungal Endophthalmitis – A 20-year Experience at a Tertiary Referral Center
First Author: Rosie DAWKINS
Co-Author(s): Penelope ALLEN, Gursimrat BHULLAR, Rodger PAUL

Poster No.: EX1-005
Human Encephalitis Complicated with Bilateral Acute Retinal Necrosis Caused by Pseudorabies Virus Infection: A Case Report
First Author: Yuwei WANG
Co-Author(s): Yan CUI, Ziwei LI, Wenjuan WANG, Xin WANG

Poster No.: EX1-006
Two Cases of Traumatic Endophthalmitis in Children
First Author: Tianwei LIANG
Co-Author(s): Yanhui CUI, Man HU, Shoulong HU, Li LI

Intraocular Inflammation, Uveitis & Scleritis

Poster No.: EX1-007
A Novel Clinical Sign in Tubercular Retinal Vasculitis and Ocular Signs Predictive of Tubercular Retinal Vasculitis
First Author: Hrishikesh KAZA
Co-Author(s): Soumyava BASU, Avinash PATHENGAY, Mudit TYAGI

Poster No.: EX1-008
A Case of Sweet’s Syndrome with Panuveitis
First Author: Wenjuan WANG
Co-Author(s): Yan CUI

Poster No.: EX1-009
Adenovirus-mediated Down-regulation of miR-21-5p Alleviates Experimental Autoimmune Uveoretinitis in Mice
First Author: Long SHI
Co-Author(s): Yan CUI, Ziwei LI, Yuwei WANG, Hui GUO

Poster No.: EX1-010
Bilateral Ocular Toxocariasis: An Atypical Presentation in a Pediatric Patient
First Author: Paolo Vicente PALADIO
Co-Author(s): Romulo AGUILAR, Jubaida AQUINO, Pia Regina GALVANTE

Poster No.: EX1-011
Clinical Analysis of 17 Acquired Immune Deficiency Syndrome Patients with Ocular Manifestations of Immune Reconstitution Inflammatory Syndrome
First Author: Wenjun KONG

Poster No.: EX1-012
Clinical Efficacy of Treating Cytomegalovirus Retinitis in Acquired Immune Deficiency Syndrome Patients with Intravitreal Ganciclovir Injection in an Individual Therapy
First Author: Chen CHAO
Co-Author(s): Wenjun KONG
**Scientific Programs**

**Poster No.: EX1-013**
Ocular Syphilis as Retinal Vasculitis with Branch Retinal Artery Occlusion: A Diagnostic Challenge  
First Author: Lalit AGARWAL  
Co-Author(s): Nisha AGRAWAL, Ichhya JOSHI

**Poster No.: EX1-014**
Overlapping White Dot Syndrome  
First Author: Sushma JAYANNA

**Poster No.: EX1-015**
Varicella-zoster Virus as a Causative Agent of Acute Retinal Necrosis in Younger Patients: A Retrospective Study  
First Author: Mengda LI  
Co-Author(s): Junjie YE

**Poster No.: EX1-016**
Vitritis of Unclear Etiology: Causes, Clinical Features, Microbiology, Management and Outcomes  
First Author: Savla Laxmi PRABHAVATHI  
Co-Author(s): Mudit TYAGI

**Neuroscience, Stem Cells & Regenerative Medicine**

**Poster No.: EX1-017**
A Novel Missense Mutation Locus of Cadherin 23 and the Interaction of Cadherin 23 and Protocadherin 15 in a Patient with Usher Syndrome  
First Author: Chuanzhen ZHENG  
Co-Author(s): Xiaorong LI, Xinjun REN, Dejia WEN

**Poster No.: EX1-018**
Anti-inflammatory Effects of Transgelin-2 in Murine Diabetic Retinopathy  
First Author: Zongming SONG

**Poster No.: EX1-019**
Human Induced Pluripotent Stem Cell Derived Enriched RPE Cultures: An Ex-vivo Animal Safety Study  
First Author: Vivek DAVE  
Co-Author(s): Praveen JOSEPH, Savitri MADILLETI, Indumathi MARIAPPAN, Vinay PULIMAMIDI

**Poster No.: EX1-020**
Leucine-rich Repeats of PXDN Is Essential for Lens Development  
First Author: Longhao KUANG

**Poster No.: EX1-021**
Non-invasive Electrical Stimulation Promotes Photoreceptor Survival and Regeneration in Mice with Inherited Photoreceptor Degeneration  
First Author: Baoyi LIU  
Co-Author(s): Qiaowei WU, Yu XIAO, Honghua YU, Xiaomin ZENG

**Poster No.: EX1-022**
Novel Retinal Manifestation of Poretti – Boltshauser Syndrome: Retina as a Window to the Brain  
First Author: Komal AGARWAL  
Co-Author(s): Deepika C. PARAMESWARAPPA

**Poster No.: EX1-023**
Research on the Effect of Hydrogen Sulfide and Its Generation Pathway in Rats Retinal Ischemia-reperfusion Injury  
First Author: Bing LI

**Poster No.: EX1-024**
The Effect of Apelin on Angiogenesis and Inflammation Through Regulating Macrophages in CNV Model  
First Author: Fan YANG

**Ocular Imaging**

**Poster No.: EX1-025**
A Novel and Faster Method of Manual Grading to Measure Mean Choroidal Thickness Using Optical Coherence Tomography  
First Author: Louis LIM  
Co-Author(s): Kai Xiong CHEONG, Kelvin LI, Colin TAN

**Poster No.: EX1-026**
Accuracy of SD-OCT Characteristics in Identifying Post-treatment Polypoidal Status in Polypoidal Choroidal Vasculopathy Compared with Indocyanine Green Angiography  
First Author: Voraporn CHAIKKTONGKOL  
Co-Author(s): Neil BRESSLER, Thanaphat CHAOVISITSAREE, Paradee KUNAVISARUT, Nopasak PHASUKKIJWATANA, Direk PATIKULSILA
Scientific Programs

Poster No.: EX1-027
Application of Iris Fluorescein Angiography (IFA) Combined with Ultra-wide Field Fundus Fluorescein Angiography (UWFFA) for Diabetic Retinopathy in Chinese Brown Irises
First Author: Yifeng KE
Co-Author(s): Xiaorang LI, Longli ZHANG

Poster No.: EX1-028
Association Between Morphological Characteristics of Optic Disc and Other Anatomical Features of the Fundus in Highly Myopic Eyes
First Author: Xiaoxiao GUO
Co-Author(s): Xi CHEN, Shanshan LI, Yanling WANG, Lu ZHAO

Poster No.: EX1-029
Association Between the Proportion of Choroidal Vessels and Blood Flow in the Normal Macula
First Author: Hisaya ARAKAWA
Co-Author(s): Tomohiro IIDA, Akiko KOGURE-KATAKURA, Ichiro MARUKO, Yuriko MIKAMI

Poster No.: EX1-030
Cause of Superior Detectability of Multicolor SLO in Detection of Epiretinal Membrane
First Author: Ryoh FUNATSU
Co-Author(s): Taiji SAKAMOTO, Shozo SONODA, Hiroto TERASAKI

Poster No.: EX1-031
Comparative Analysis of Multifocal Electroretinogram and OCTA in Non-proliferative Diabetic Retinopathy
First Author: Ziwei LI
Co-Author(s): Yan CUI, Wenjuan WANG, Xin WANG, Yuwei WANG

Poster No.: EX1-032
Comparison of Optical Coherence Tomography Angiography in Patients with a History of Intravitreal Injection Versus Laser Therapy for Retinopathy of Prematurity
First Author: Jinfeng ZHAO
Co-Author(s): Zhenquan WU, Guoming ZHANG

Poster No.: EX1-033
Fluorescein Leakage and Optical Coherence Tomography Angiography Features of Microaneurysms in Diabetic Retinopathy
First Author: Dan CAO
Co-Author(s): Jun WANG, Yunkao ZENG, Liang ZHANG

Poster No.: EX1-034
New Method to Measure Subfoveal Choroidal Thickness in Optical Coherence Tomography
First Author: Yu Cheol KIM
Co-Author(s): Ji Hye JANG, Kyung Tae KANG

Poster No.: EX1-035
Three-dimensional Choroidal Vascularity Index in Acute Central Serous Chorioretinopathy Using Swept-source Optical Coherence Tomography
First Author: Jingyuan YANG
Co-Author(s): Youxin CHEN, Mingzhen YUAN

Poster No.: EX1-036
To Quantitatively Explore the Correlation Between Optical Coherence Tomography (OCT) Parameters and Vision Impairment in Patients with Diabetic Macular Edema (DME)
First Author: Bing LI
Co-Author(s): Youxin CHEN

Poster No.: EX1-037
Ultra-wide Field Swept-source Optical Coherence Tomography Angiography in Patients with Diabetes Without Clinically Detectable Retinopathy
First Author: Jingyuan YANG
Co-Author(s): Youxin CHEN, Song XIA

Poster No.: EX1-038
Using 3D-MRI Imaging to Quantitatively Analyze the Shape of Eyeballs with High Myopia and to Investigate Relationships Between Myopic Traction Maculopathy and Posterior Staphyloma
First Author: Xi CHEN
Co-Author(s): Xiaoxiao GUO, Shanshan LI, Yanling WANG, Lu ZHAO
### Scientific Programs

#### Poster No.: EX1-039
Utility of a Public-available Artificial Intelligence in Diagnosis of Polypoidal Choroidal Vasculopathy  
*First Author: Youxin CHEN*  
*Co-Author(s): Jingyuan YANG, Weihong YU, Chexi ZHANG*

#### Poster No.: EX1-040
Various Facets of Retinal Abnormalities in β-Thalassemia Major and the Role of Fundus Autofluorescence Imaging in Their Diagnosis  
*First Author: King Hans KURNIA*  
*Co-Author(s): Elvioza ELVIOZA, Rita S. SITORUS*

#### Poster No.: EX1-041
Clinical Characteristics of 582 Patients with Uveal Melanoma in China  
*First Author: Wenbing WEI*

#### Poster No.: EX1-042
Exploration and Analysis of Minimally Invasive Vitrectomy in the Treatment of Intraocular Tumors  
*First Author: Xingrong WANG*  
*Co-Author(s): Shuya WANG*

#### Poster No.: EX1-043
Idiopathic Orbital Inflammatory Syndrome: Yes or Not?  
*First Author: Lindan XIE*  
*Co-Author(s): Shihui WEI, Quangang XU, Huanfen ZHOU*

#### Poster No.: EX1-044
Multiplatform Omics Analysis for Identification of Molecular Characteristics and Therapeutic Targets of Uveal Melanoma  
*First Author: Yongjoon KIM*  
*Co-Author(s): Christopher LEE, Sung Chul LEE*

#### Poster No.: EX1-045
The Clinicopathological Features Data and Correlation with Metastasis for 164 Uveal Melanoma Patient  
*First Author: Ren XUANG*

#### Poster No.: EX1-046
The Treatment for Vitreous Implantation of Retinoblastoma with Pars Plana Vitrectomy  
*First Author: Tao LI*  
*Co-Author(s): Huasheng YANG, Ying LIN, Yuqing WU, Jizhu LI*

#### Ophthalmic Epidemiology

#### Poster No.: EX1-047
Burden of Macular Diseases Requiring Anti-vascular Endothelial Growth Factor Injection: Experience from a Public Hospital in Hong Kong  
*First Author: Chi Lik AU*  
*Co-Author(s): Simon KO*

#### Poster No.: EX1-048
Clinical Characteristics of Neovascular Age-related Macular Degeneration in Southwestern Island of Japan  
*First Author: Tamaki TAMASHIRO*  
*Co-Author(s): Hideki KOIZUMI, Ayano OSHIRO, Keiko SAWAGUCHI, Sorako WAKUGAWA*

#### Poster No.: EX1-049
Impact of the Morphologic Characteristics of Optic Disc on Choroidal Thickness in Young Myopic Patients  
*First Author: Qiuying CHEN*  
*Co-Author(s): Jiangnan HE, Xun XU, Jianfeng ZHU, Ying FAN*

#### Poster No.: EX1-050
Leber Congenital Amaurosis Epidemiology and Management in Russia Assessed by Social Media Listening with Natural Language Processing  
*First Author: Yuriy ASTAKHOV*  
*Co-Author(s): Vladimir BULATOV, Irina EFIMENKO, Marina LUTOSHKINA, Tatiana NEVINITSYNA, Vera PETRAKOVSKAIA*

#### Pediatric Retina

#### Poster No.: EX1-051
A Case of Incontinentia Pigmenti  
*First Author: Roland Martin ABAYA*
Scientific Programs

Poster No.: EX1-052
Outcome of Intravitreal Bevacizumab Combined with Laser Therapy for Sight Threatening Retinopathy of Prematurity
First Author: Sanyam BAJIMAYA
Co-Author(s): Eli PRADHAN, Shaila SHARMIN

Poster No.: EX1-053
Progressive Retinal Vessel Malformation in a Premature Infant with Sturge-Weber Syndrome After Intravitreal Anti-VEGF
First Author: Yun LI

Poster No.: EX1-054
Retinal Findings Before Retinopathy of Prematurity
First Author: Ji Hye JANG
Co-Author(s): Yu Cheol KIM, Young Do YEO

Poster No.: EX1-055
Retinopathy of Prematurity in Twins; Bangladesh Perspective
First Author: Mahmudul SIDDIQI

Poster No.: EX1-056
Symmetric Clinical Ocular Findings in Phenotypically Identical Twins with Familial Exudative Vitreoretinopathy
First Author: Arif Hayat PATHAN
Co-Author(s): Mohammad MALEK, Nazmun NAHAR, Jean-claude NIYONZIMA

Poster No.: EX1-057
A Novel Technique to Assess Severity of Diabetic Retinopathy Using Optical Coherence Tomography Angiography
First Author: Colin TAN
Co-Author(s): Kelvin LI, Louis LIM, Darren WONG

Poster No.: EX1-058
An Adult Vitelliform Macular Dystrophy with Normal Electro-oculography and No Pathogenic Genes Findings
First Author: Zheng LI
Co-Author(s): Jie HU, Lin LU, Kunyi SU, Meng XUAN

Poster No.: EX1-059
Appearance of Polypoidal Lesions in Patients with Polypoidal Choroidal Vasculopathy Using Swept-source Optical Coherence Tomographic Angiography
First Author: Fenghua WANG
Co-Author(s): Xiaodong SUN, Quan YAN, Qiyu BO

Poster No.: EX1-060
Bacterial Infection Promotes Spontaneous Choroidal Neovascularization (sCNV) Development in the JR5558 Mouse
First Author: Yu SU
Co-Author(s): Zhenyu JI, Eric NG

Poster No.: EX1-061
Changes in Ganglion Cell-inner Plexiform Layer in the Fellow Eyes of Patients with Unilateral Neovascular Age-related Macular Degeneration
First Author: Minwoo MINWOO
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First Author: Wei-Lun HUANG
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Comparison of Choroidal Structure and Circulation After One-third and Half Dose Photodynamic Therapy for Chronic Central Serous Chorioretinopathy
First Author: Shun KUMASHIRO
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First Author: Su ZHANG
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First Author: Eung Suk KIM
Co-Author(s): Kiyoung KIM, Jong Beom PARK, Jong In YOU, Seung-Young YU

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HtrA1 Serine-protease Expression Levels of Age-related Macular Degeneration (AMD) Patients in Yogyakarta
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Co-Author(s): Angela Nurini AGNI, Muhammad SASONGKO, Firman WARDHANA, Tri Wahyu WIDAYANTI

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Co-Author(s): Jialin WANG, Yanling WANG

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First Author: Minlu SONG
Co-Author(s): Xiaodong SUN, Fenghua WANG

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Laser Photocoagulation vs Intravitreal Injection of Anti-vascular Endothelial Growth Factor for Retinal Arterial Macroaneurysms
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Co-Author(s): Baoyi LIU, Yu XIAO, Xiaomin ZENG

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Longitudinal Changes in Retinal Vasculature After Panretinal Photocoagulation in Diabetic Retinopathy by Swept-source OCT Angiography
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Co-Author(s): Kyoko OHNO-MATSUI, Shoichiro SATO, Yasuhiro TERANO

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Co-Author(s): Amani AUGIANI, Ari DJATIKUSUMO, Anis FITRIANA, Marsha PINTARY, Carennia PARAMITA

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First Author: Baoke HOU
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Co-Author(s): Youxin CHEN, Rongping DAI

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First Author: Leighton MORRIS

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First Author: Sabia HANDA
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First Author: Li YAN
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First Author: Miaqin WU
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First Author: Sarah CHAN
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First Author: Quan YAN

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First Author: Premala Devi SIVAGURUNATHAN
Co-Author(s): Nurul Syahida ABDUL WAHAB, Maizan BINTI YAANKUB, Nirna Hazeera ZAHAR

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First Author: Naresh KANNAN
Co-Author(s): Piyush KOHLI, Kim RAMASAMY

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First Author: Jin YAO
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First Author: Lijun SHEN

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First Author: Xinjun REN
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First Author: Zongming SONG
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*First Author: Mahmudul SIDDIQI*

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*First Author: Chartchai WIBHUSANAWIT*

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*First Author: Wenjun KONG*

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*First Author: Zhongping CHEN*

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To Evaluate the Surgical Outcome of Epi-retinal Membrane Surgery
*First Author: Pawan MAHAT*
Co-Author(s): Sanyam BAJIMAYA, Govinda PAUDYAL, Eli PRADHAN, Sanjita SHARMA, Raba THAPA

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First Author: Chiaki OTA
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Bioinformatics Analysis of Gub genes in Proliferative Diabetic Retinopathy
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CRVO Multiple Anti-VEGF Treatment of Secondary Neovascular Glaucoma: A Case Report
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- Asia-Pacific Academy of Ophthalmology                     | A19            |
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## MEDIA

- Media MICE Pte Ltd.                                      | B29/30         |
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