



13th APVRS CONGRESS 2019

of Asia-Pacific Vitreo-retina Society

RETINA CHINA 2020

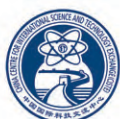


November 22–24, 2019 Shanghai, China

PROGRAM BOOK



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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. Abulon 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. Abulon D. Performance evaluation of small gauge 25+ high-speed vitrectomy probes. Poster presented at: Euretina; September 7-10, 2017; Barcelona, Spain.

LUMITIN[®] (Conbercept)

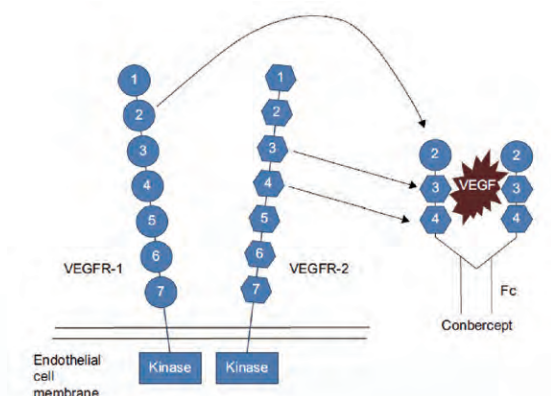
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Chengdu Kanghong Pharmaceutical Group Co., Ltd.

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.

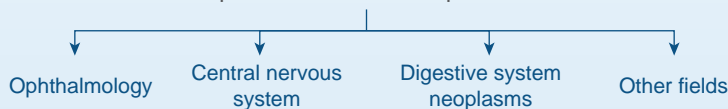
In 2002, Kanghong took the lead in exploring the latest GMP requirements mandated by the state. Our operating production facilities meet the new stringent GMP standards.

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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.

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

1. Yoon YH *et al.* *Ophthalmologica* 2018;240:81-89. 2. Coscas G *et al.* *Ophthalmologica* 2011;226(10):4-28.

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.

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Australian Minimum Product Information

OZURDEX® 700 µg dexamethasone intravitreal implant is a prescription medicine containing 700 µg of dexamethasone. **Indications:** Treatment of diabetic macular oedema (DME); treatment of macular oedema due to Branch Retinal Vein Occlusion (BRVO) or Central Retinal Vein Occlusion (CRVO); treatment of non-infectious uveitis affecting the posterior segment of the eye. **Contraindications:** Hypersensitivity to ingredients; active/suspected

ocular or periorcular infection including most viral diseases of the cornea and conjunctiva, including active epithelial herpes simplex keratitis (dendritic keratitis), vaccinia, varicella, mycobacterial infections, and fungal diseases; advanced glaucoma; aphakic eye with rupture of the posterior lens capsule; eyes with an anterior chamber intraocular lens (ACIOL), iris or transscleral fixated IOLs, and rupture of the posterior lens capsule. **Precautions:** Proper aseptic injection techniques must always be used. Monitor patients for infection or increased IOP. Patients who had a tear in the posterior lens capsule or who had an iris opening to the vitreous cavity are at risk of implant migration, which might lead to corneal oedema. Corticosteroids have been associated with posterior subcapsular cataracts, increased IOP, glaucoma and may enhance the establishment of secondary ocular infections due to bacteria, fungi, or viruses; history of or active herpes simplex; use with caution in patients taking anti-coagulant or anti-platelet medicines; and in patients who are pregnant or breast-feeding; use in children has not been studied; temporary visual blurring may occur after injection of OZURDEX®, therefore, patients should not drive or use machines until this has resolved; administration to both eyes on the same day is not recommended. **Adverse Effects (≥1%):** Cataract, cataract subcapsular, cataract nuclear, lenticular opacities, IOP increased, ocular hypertension, conjunctival haemorrhage*, vitreous haemorrhage*, eye pain*, vitreous detachment*, vitreous floaters*, conjunctival oedema*, vitreous opacities*, anterior chamber inflammation*, visual acuity reduced, endophthalmitis, hypotony of

eye, retinal detachment, complication of device insertion, device dislocation, conjunctival hyperaemia*, visual disturbance*, photopsia*, headache*, myodesopsia*, blepharitis*, abnormal sensation in the eye*, eyelid pruritus*, scleral hyperaemia*, visual impairment*, migraine*. **Dosage:** 700 µg per eye (entire contents of a single-use OZURDEX® device). **Last Amended Date:** 06 June 2017

Note: ** indicates adverse drug reactions considered to be related to the intravitreal injection procedure.

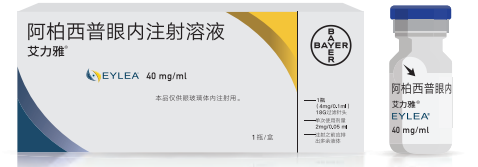
¹ Please note change(s) in Product Information Allergan Australia Pty Ltd. 810 Pacific Highway, Gordon NSW 2072. *Registered trademark(s) of Allergan, Inc. © Allergan, Inc. 2019.

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

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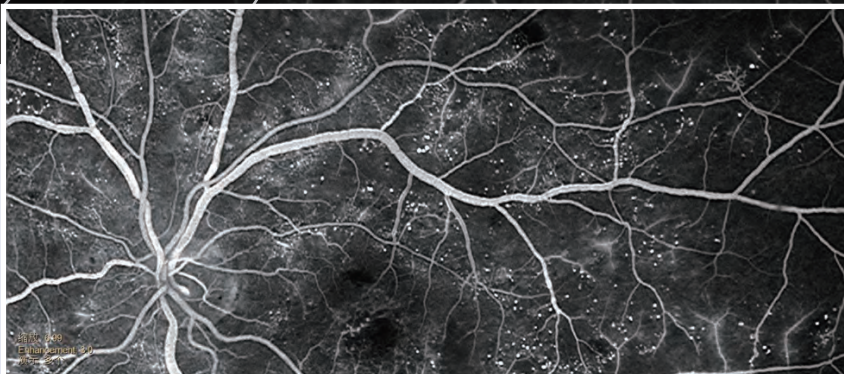
[Drug Names] Generic name: Afibercept Intravitreal Injection Trade name: EYLEA[®] English name: Afibercept Intravitreal Injection **[Components]** Active ingredient is Afibercept **[Indications]** Eylea is indicated for adults for the treatment of neovascular (wet) age-related macular degeneration (nAMD), diabetic macular oedema (DME) **[Dosage and method of administration]** Eylea is for intravitreal injection into the eye only. **[Posology]** The recommended dose for Eylea is 2 mg afibercept, equivalent to 50 microlitres. 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 anatomic 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 included blindness, endophthalmitis, retinal detachment, cataract traumatic, cataract, 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 afibercept or to any of the excipients listed in [Components]. Active or suspected ocular or periocular 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 ≥ 30 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 intravitreal 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: Vetter Pharma-Fertigung GmbH & Co. KG Manufacturing address: Vetter Pharma-Fertigung Eisenbahnstr. 2-4 88085 Langenargen Germany **[The version of instructions]** Approval date: 2nd Feb. 2018, 8th May 2018 Revision date: 30th Nov. 2018, 12th Apr. 2019 For completed information, please read Eylea's Instructions. Bayer



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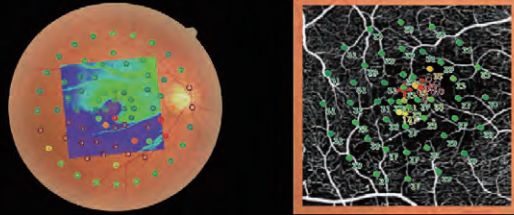
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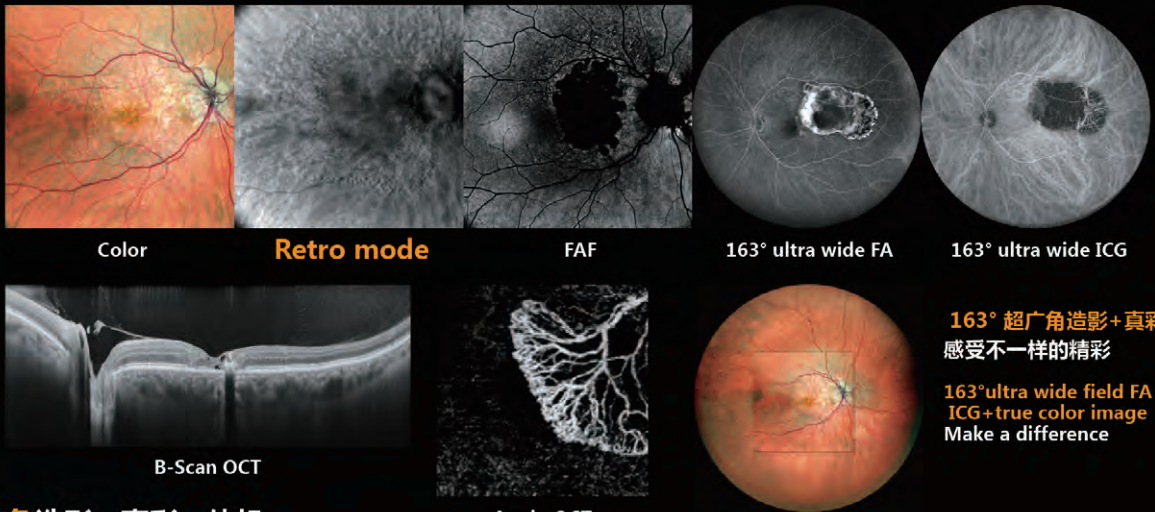
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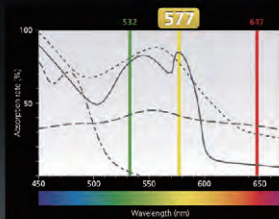
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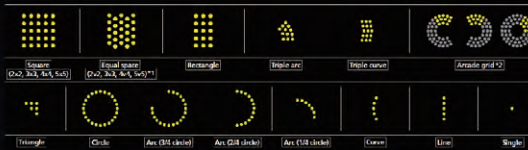
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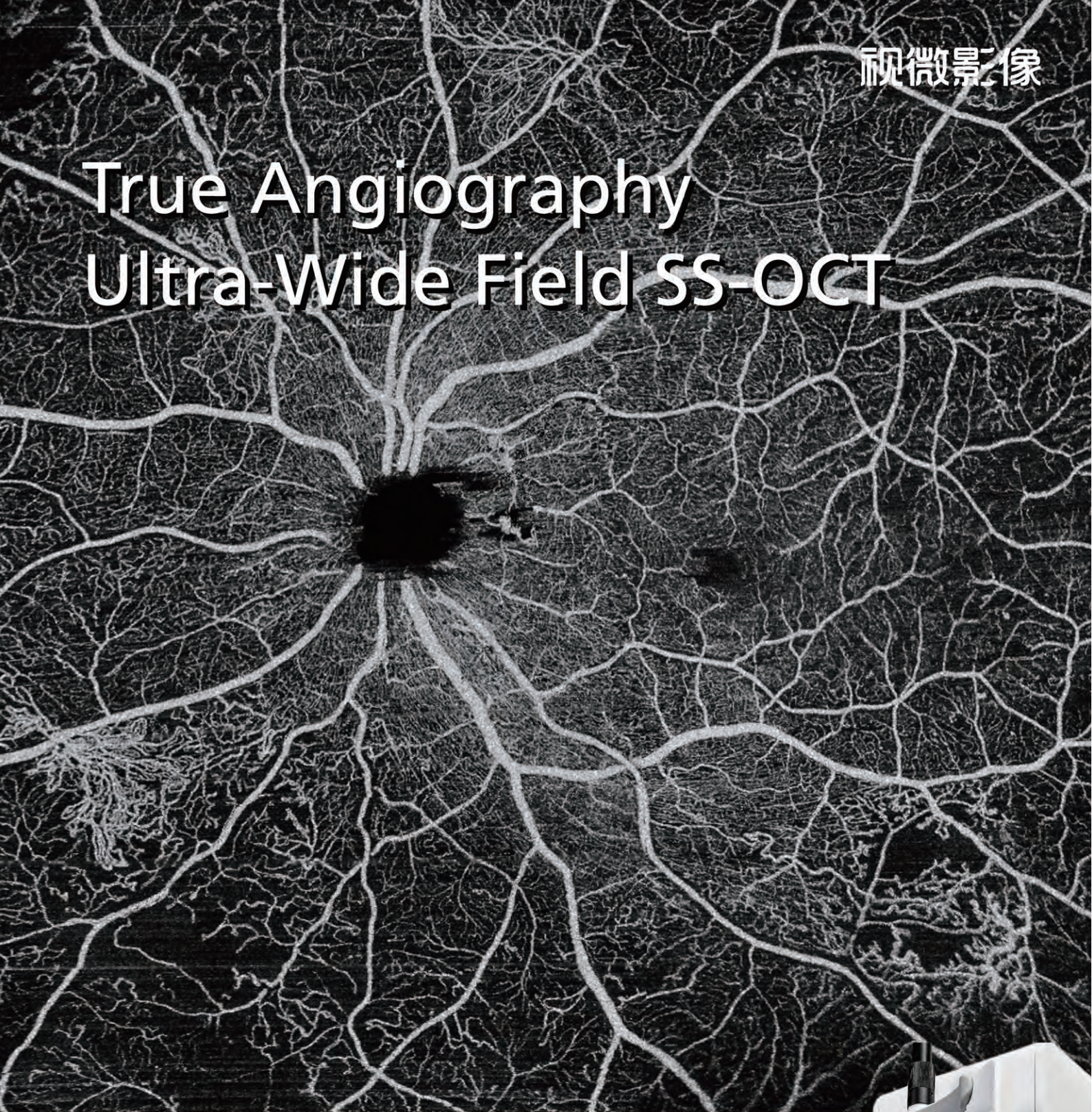


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Reference

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

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CONTENTS

1 FOREWORDS & WELCOME MESSAGES	3
1.1 FOREWORD - Congress Presidents Prof. Xiaoxin LI & Prof. Xun XU	4
1.2 FOREWORD - Scientific Program Committee Chair Prof. Paisan RUAMVIBOONSUK	5
1.3 WELCOME MESSAGE - Asia-Pacific Vitreo-retina Society President Prof. Dennis LAM.....	6
1.4 WELCOME MESSAGE - Asia-Pacific Vitreo-retina Society Secretary-General A/Prof. Andrew CHANG.....	7
2 COUNCILS & COMMITTEES	9
2.1 HOSTS	10
2.1.1 ASIA-PACIFIC VITREO-RETINA SOCIETY	10
2.1.2 CHINESE VITREO-RETINA SOCIETY	11
2.2 SCIENTIFIC PROGRAM COMMITTEE	12
2.3 ABSTRACT REVIEWING COMMITTEE	16
2.4 LOCAL ORGANIZING COMMITTEE.....	17
2.5 SECRETARIAT	18
3 CONGRESS INFORMATION	19
3.1 CONGRESS INFORMATION	20
3.2 SOCIAL EVENTS	22
4 PROGRAM AT A GLANCE	23
4.1 PROGRAM OVERVIEW	24
4.2 SCIENTIFIC SESSIONS.....	25
4.3 FLOOR PLAN	27
5 SPECIAL LECTURES & GRANTS	31
5.1 SPECIAL LECTURES	32
5.2 APVRS TANO TRAVEL GRANTS	38
6 SCIENTIFIC PROGRAMS	39
6.1 INVITED SYMPOSIUMS.....	40
6.1.1 DAY 1 – NOVEMBER 22, 2019 (FRIDAY).....	40
6.1.2 DAY 2 – NOVEMBER 23, 2019 (SATURDAY).....	44
6.1.3 DAY 3 – NOVEMBER 24, 2019 (SUNDAY)	50



Contents

6.2. SUBMITTED PROGRAMS	57
6.2.1 BEST ABSTRACT AWARDS.....	58
6.2.2 FREE PAPERS	59
6.2.3 POSTERS	63
6.2.4 E-POSTERS.....	73
6.2.5 VIDEOS.....	82
7 SPONSORSHIP & EXHIBITION.....	85
7.1 PACKAGE SPONSORS.....	86
7.2 EXHIBITION.....	87
7.3 EXHIBITOR DIRECTORY	88
7.4 SPONSORED SESSIONS.....	90
8 INDEX.....	93



Forewords & Welcome Messages

Forewords & Welcome Messages

FOREWORD From Congress Presidents



Prof. Xiaoxin LI



Prof. Xun XU

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

FOREWORD

From Scientific Program Committee Chair



Prof. Paisan RUAMVIBOONSUK

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!

A handwritten signature in blue ink, appearing to read 'P. Paisan'.

Prof. Paisan RUAMVIBOONSUK
Chair, Scientific Program Committee
13th APVRS Congress

WELCOME MESSAGE

From President, Asia-Pacific Vitreo-retina Society



Prof. Dennis LAM

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!

A handwritten signature in black ink, appearing to read 'Dennis LAM', written over a light-colored background.

Prof. Dennis LAM

President, Asia-Pacific Vitreo-retina Society (APVRS)

WELCOME MESSAGE

From Secretary-General, Asia-Pacific Vitreo-retina Society



A/Prof. Andrew CHANG

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 handwritten signature in black ink, appearing to read 'A. Chang'.

A/Prof. Andrew CHANG

Secretary-General, Asia-Pacific Vitreo-retina Society (APVRS)



APVRS Leadership Development Program

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.

Benefits

Induction and Orientation

- This 1-day program during the APVRS Congress will introduce participants to program faculty. 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.

Application

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:

- **Be aged 50 or below**
- **Agree to participate in all elements of the LDP**
- **Visionary future leaders with passion and determination to serve the vitreoretinal profession and community**
- **Qualified eye doctors**
- **Highly proficient in English**

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

Councils & Committees

HOSTS



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.

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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

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Paisan
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Symposium	International Coordinator	Asia-Pacific Coordinator	Host Coordinator
Advances of Gene Therapy in Retinal Diseases	 Camiel BOON (Netherlands)	 Ian CONSTABLE (Australia)	 Xiaodong SUN (China)
Age-related Macular Degeneration: AMD	 Sebastian WOLF (Switzerland)	 Adrian KOH (Singapore)	 Timothy LAI (Hong Kong, China)
Age-related Macular Degeneration: Dry AMD	 David BOYER (United States)	 Paul MITCHELL (Australia)	 Yusheng WANG (China)
Age-related Macular Degeneration: PCV	 Peter KAISER (United States)	 Won Ki LEE (South Korea)	 Xiaoling LIANG (China)
Artificial Intelligence for Retinal Disease	 Kang ZHANG (United States)	 Rajiv RAMAN (India)	 Xun XU (China)
Central Serous Chorioretinopathy	 Salomon COHEN (France)	 Philip POLKINGHORNE (New Zealand)	 Mingwei ZHAO (China)

Councils & Committees

Symposium	International Coordinator	Asia-Pacific Coordinator	Host Coordinator
Challenges in Surgical Retina 1	 Carl CLAES (Belgium)	 Masahito OHJI (Japan)	 Meixia ZHANG (China)
Challenges in Surgical Retina 2	 Vincenzo FERRARA (Italy)	 Kazuaki KADONOSONO (Japan)	 Zhizhong MA (China)
Diabetic Retinopathy: Epidemiology, Screening, and Prevention	 Antonia JOUSSEN (Germany)	 Tien-Yin WONG (Singapore)	 Fang LU (China)
Diabetic Retinopathy: Treatment	 Neil BRESSLER (United States)	 Shih-Jen CHEN (Chinese Taipei)	 Youxin CHEN (China)
Diagnostic and Treatment Conundrums in Retinal Disease	 Usha CHAKRAVARTHY (United Kingdom)	 Oh Woong KWON (South Korea)	 Junjun ZHANG (China)
Great Cases: Inflammatory and Beyond	 Rick SPAIDE (United States)	 Taraprasad DAS (India)	 Suqin YU (China)
High Myopia	 Jost JONAS (Germany)	 Kyoko OHNO-MATSUI (Japan)	 Lin LU (China)
Innovation and Controversies in Retina Surgery	 Suber S. HUANG (United States)	 Doric WONG (Singapore)	 Hai LU (China)
Intraocular Tamponade in the 21 st Century	 Heinrich HEIMANN (United Kingdom)	 Nuttawut RODANANT (Thailand)	 Maonian ZHANG (China)

Councils & Committees

Symposium	International Coordinator	Asia-Pacific Coordinator	Host Coordinator
Intraocular Tumors	 Norbert BORNFIELD (Germany)	 Duangnate ROJANAPORN (Thailand)	 Wenbing WEI (China)
My Best Medical Retina Cases of 2019	 K. Bailey FREUND (United States)	 Paisan RUAMVIBOONSUK (Thailand)	 Xinyuan ZHANG (China)
Mystery Cases of Macular Surgery	 Anat LOEWENSTEIN (Israel)	 Andrew CHANG (Australia)	 Yannian HUI (China)
Mystery Cases of Non-macular Retinal Surgery	 Peter WIEDEMANN (Germany)	 Hiroko TERASAKI (Japan)	 Chi-Chun LAI (Chinese Taipei)
Pediatric Retina: Epidemiology, Screening, and Diagnosis	 R. V. Paul CHAN (United States)	 Rajvardhan AZAD (India)	 Jianhong LIANG (China)
Pediatric Retina: Treatment	 Sui Chien WONG (United Kingdom)	 Wai Ching LAM (Hong Kong, China)	 Peiquan ZHAO (China)
Prevention and Management of VR Complications from Anterior Segment Surgeries	 Judy KIM (United States)	 Dennis LAM (Hong Kong, China)	 Changguan WANG (China)
Retinal Degenerative Diseases	 Graham HOLDER (United Kingdom)	 Harvey UY (Philippines)	 Zhengqin YIN (China)
Retinal Imaging: Advanced Retinal Imaging	 Frank G. HOLZ (Germany)	 Taiji SAKAMOTO (Japan)	 Xiaoxin LI (China)

Councils & Committees

Symposium	International Coordinator	Asia-Pacific Coordinator	Host Coordinator
Application of 2D Retinal Images	 Giovanni STAURENGHI (Italy)	 Tock Han LIM (Singapore)	 Min WANG (China)
Retinal Imaging in the Future	 Srinivas SADDA (United States)	 Gemmy CHEUNG (Singapore)	 Jinfeng QU (China)
Retinal Vascular Diseases	 Jeff HEIER (United States)	 Kenneth FONG (Malaysia)	 Ming ZHANG (China)
Swept Source OCT and OCT Angiography	 Philip ROSENFELD (United States)	 Seung-Young YU (South Korea)	 Fenghua WANG (China)
The Impact of Systemic Medications on Retinal Function	 William MIELER (United States)	 Young Hee YOON (South Korea)	 Shibo TANG (China)
Uveitis & Ocular Inflammation Treatment	 Martine JAGER (Netherlands)	 Koh-Hei SONODA (Japan)	 Qing CHANG (China)
Uveitis Pearls for Diagnosis	 Quan Dong NGUYEN (United States)	 Lyndell LIM (Australia)	 Peizeng YANG (China)
What's New in Medical Retina	 Lihteh WU (Costa Rica)	 Yuichiro OGURA (Japan)	 Lee-Jen CHEN (Chinese Taipei)



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Congress Information

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:

Nov 21, 2019 (Thu)	15:00 – 18:00
Nov 22, 2019 (Fri)	07:30 – 19:30
Nov 23, 2019 (Sat)	07:30 – 17:00
Nov 24, 2019 (Sun)	07:30 – 15:00

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.



ANDROID APP



IOS APP

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

SPEAKER READY ROOM

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

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

Nov 21, 2019 (Thu)	15:00 – 18:00
Nov 22, 2019 (Fri)	07:30 – 18:00
Nov 23, 2019 (Sat)	07:30 – 17:00
Nov 24, 2019 (Sun)	07:30 – 15:00

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.

Date	Time	Session	Venue*
Nov 22, 2019 (Fri)	12:00 – 13:00	Alcon	Session Room 1
	12:00 – 13:00	Novartis	Session Room 2
	12:00 – 13:00	NIDEK	Session Room 3
	12:00 – 13:00	Merck	Session Room 4
	13:15 – 14:15	Allergan	Session Room 1
	13:15 – 14:15	Kanghong	Session Room 2
	13:15 – 14:15	Essex	Session Room 3
	13:15 – 14:15	SVision	Session Room 4
	17:30 – 19:30	Carl Zeiss	Session Room 1
	17:30 – 18:30	Gaush	Session Room 2

Date	Time	Session	Venue*
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.

Congress Information

Congress Information

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.

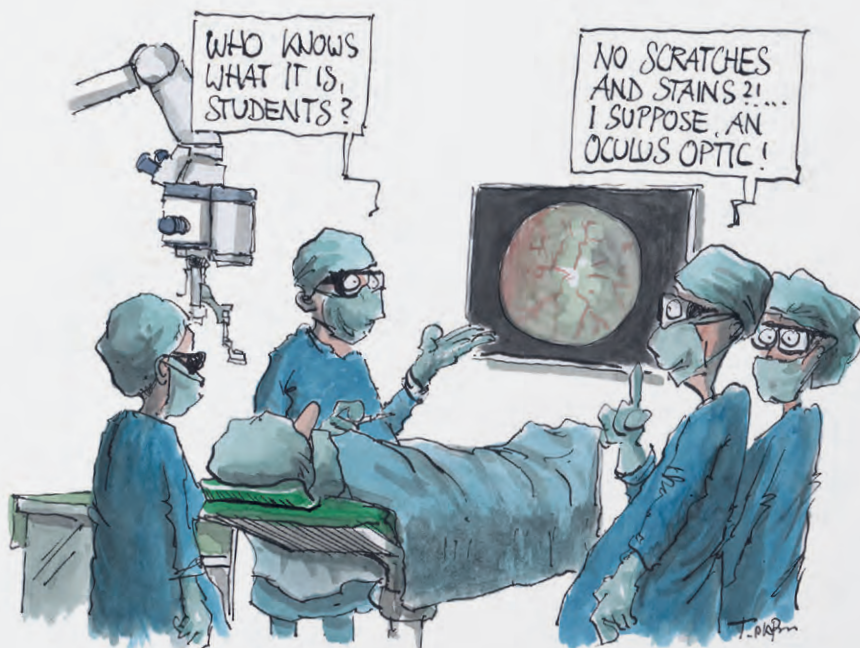
Note: The Congress Party is not included in the registration fee. Delegates are encouraged to bring their partners, friends and/or family members along.

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Program at a Glance

Program at a Glance

PROGRAM OVERVIEW

	Nov 22 (Day 1 Friday)	Nov 23 (Day 2 Saturday)	Nov 24 (Day 3 Sunday)
08:30 - 10:00	Scientific Sessions (08:30 - 10:00)	Scientific Sessions (08:30 - 10:00)	Scientific Sessions (08:30 - 10:00)
10:00 - 10:15	Break	Break	Break
10:15 - 11:45	Scientific Sessions (10:15 - 11:45)	Scientific Sessions (10:15 - 11:45)	Scientific Sessions (10:15 - 11:45)
11:45 - 12:00	Break	Break	Break
12:00 - 13:00	Sponsored Lunch Symposiums (S)* (12:00 - 13:00)	Sponsored Lunch Symposiums (S)* (12:00 - 13:00)	Sponsored Lunch Symposiums (S)* (12:00 - 13:00)
13:00 - 13:15	Break	Break	Break
13:15 - 14:15	Sponsored Lunch Symposiums (S)* (13:15 - 14:15)	Sponsored Lunch Symposiums (S)* (13:15 - 14:15)	Sponsored Lunch Symposiums (S)* (13:15 - 14:15)
14:15 - 14:30	Break	Break	Break
14:30 - 16:00	Scientific Sessions (14:30 - 16:00)	Scientific Sessions (14:30 - 16:00)	Scientific Sessions (14:30 - 16:00)
16:00-17:00	Opening Ceremony Tano Lecture (16:00 - 17:00)	Constable Lecture International Award Lecture (16:00 - 17:00)	
17:00-18:00	Break	Break	
18:00 - 21:00	Sponsored Evening Symposiums (S)* (17:30 - 19:30)	Presidential Dinner & Congress Party (18:00 - 21:00)	

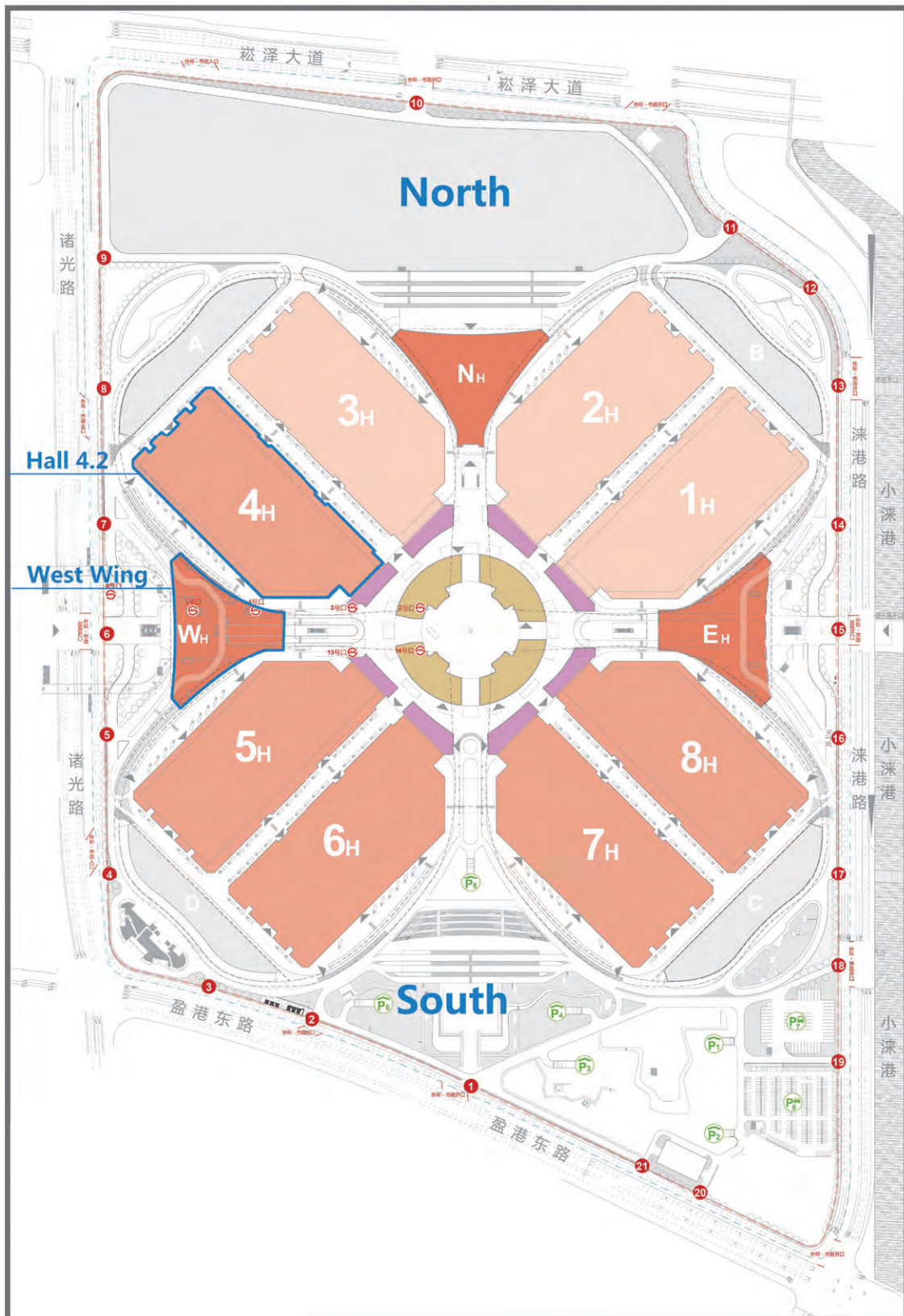
SCIENTIFIC SESSIONS

DAY 1 – November 22, 2019 (FRIDAY)				
Time	Venue	Subspecialty	Type	Theme
08:30 - 10:00	Session Room 1	RET-S	SYM	Prevention and Management of VR Complications from Anterior Segment Surgeries
08:30 - 10:00	Session Room 2	RET-M	SYM	Age-related Macular Degeneration: Dry AMD
08:30 - 10:00	Session Room 3	RET-S	SYM	Challenges in Surgical Retina 1
08:30 - 10:00	Session Room 4	OI	SYM	Retinal Imaging in the Future
09:00 - 10:00	Session Room 5	RET-M	VS	RETINAWS
10:15 - 11:45	Session Room 1	RET-M	SYM	Age-related Macular Degeneration: PCV
10:15 - 11:45	Session Room 2	RET-M	SYM	CVRS Symposium: AMD and PCV *
10:15 - 11:45	Session Room 3	PR	SYM	Pediatric Retina: Treatment
10:15 - 11:45	Session Room 4	RET-M	SYM	Inherited Retinal Degenerative Diseases
10:15 - 11:45	Session Room 5	RET-S	FP	Rapid Fire Surgical Retina and General Ophthalmology Update Symposium
14:30 - 16:00	Session Room 1	RET-M	SYM	Diabetic Retinopathy: Epidemiology, Screening, and Prevention
14:30 - 16:00	Session Room 2	GO	SYM	CVRS Symposium: General Ophthalmology *
14:30 - 16:00	Session Room 3	RET-S	SYM	Mystery Cases of Non-Macular, Retinal Surgery
14:30 - 16:00	Session Room 4	OI	SYM	Advanced Retinal Imaging
14:30 - 16:00	Session Room 5	RET-M	SYM	Retinal Vascular Diseases
16:00 - 17:00	Session Room 1	GO	SYM	Opening Ceremony and APVRS Tano Lecture
DAY 2 – November 23, 2019 (SATURDAY)				
Time	Venue	Subspecialty	Type	Theme
08:30 - 10:00	Session Room 1	RET-S	SYM	Mystery Cases of Macular Surgery
08:30 - 10:00	Session Room 2	RET-M	SYM	What's New in Medical Retina
08:30 - 10:00	Session Room 3	RET-M	SYM	Diagnostic and Treatment Conundrums in Retinal Diseases
08:30 - 10:00	Session Room 4	IUS	SYM	Uveitis Pearls for Diagnosis
08:30 - 10:00	Session Room 5	PR	FP	Rapid Fire Pediatric Retina, Eye Trauma and Ocular Oncology Update Symposium
10:15 - 11:45	Session Room 1	RET-S	SYM	Innovation and Controversies in Retina Surgery
10:15 - 11:45	Session Room 2	RET-M	SYM	CVRS Symposium: Diabetic Retinopathy *
10:15 - 11:45	Session Room 3	RET-M	SYM	My Best Medical Retina Cases of 2019
10:15 - 11:45	Session Room 4	NSR	SYM	Advances in Gene Therapy of Retinal Diseases
10:15 - 11:45	Session Room 5	OOP	SYM	Intraocular Tumors

Program at a Glance

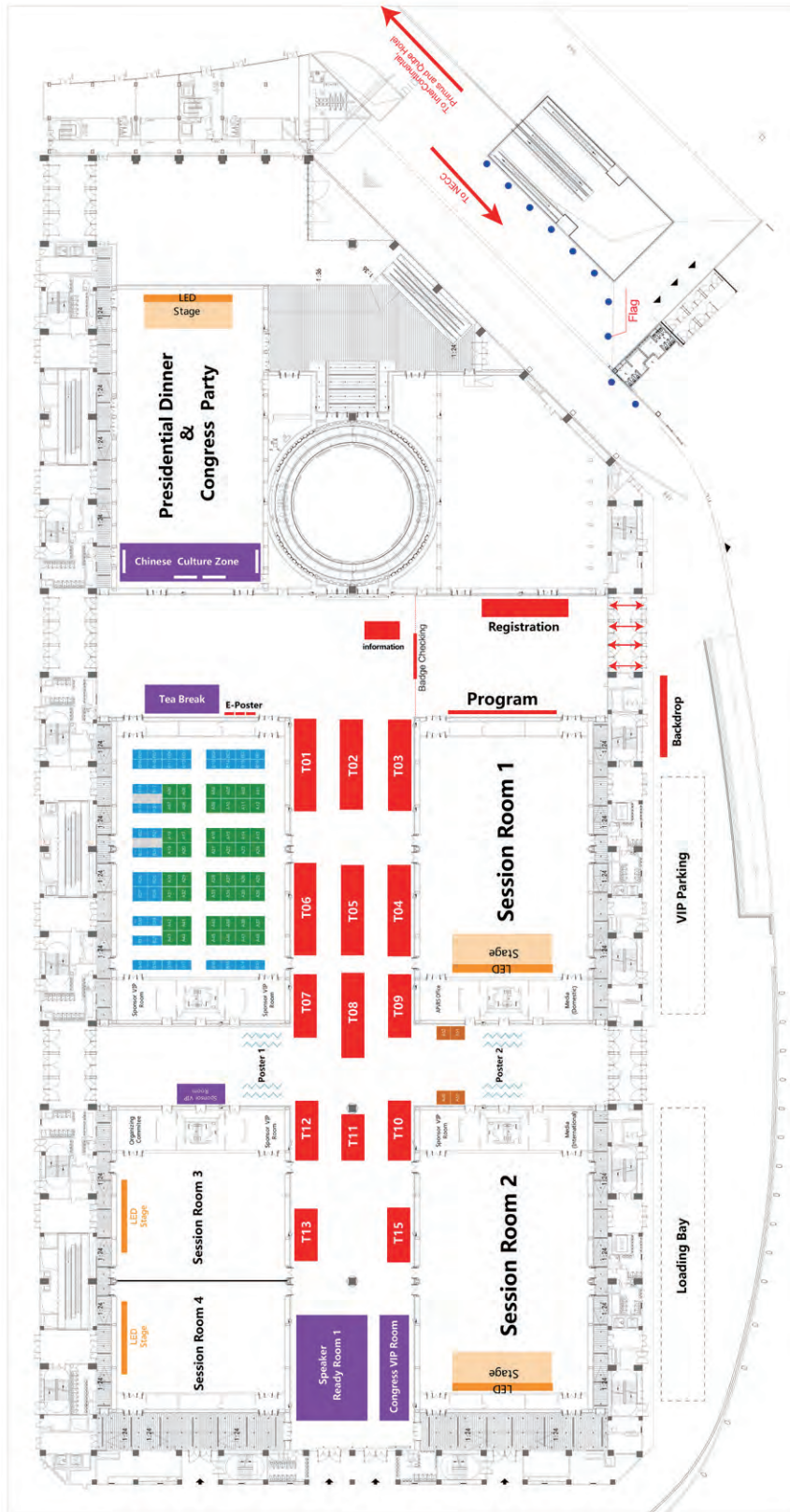
DAY 2 – November 23, 2019 (SATURDAY)				
Time	Venue	Subspecialty	Type	Theme
14:30 – 16:00	Session Room 1	RET-S	SYM	Challenges in Surgical Retina 2
14:30 – 16:00	Session Room 2	PR	SYM	CVRS Symposium: Intraocular Tumors and Pediatric Retina *
14:30 – 16:00	Session Room 3	OI	SYM	Application of 2D Retinal Images
14:30 – 16:00	Session Room 4	RET-M	SYM	The Impact of Systemic Medications on Retinal Function
14:30 – 16:00	Session Room 5	OI	SYM	Swept-source OCT and OCT Angiography
16:00 – 17:00	Session Room 1	GO	SYM	Constable Lecture and International Award Lecture
DAY 3 – November 24, 2019 (SUNDAY)				
Time	Venue	Subspecialty	Type	Theme
08:30 – 10:00	Session Room 1	RET-M	SYM	Diabetic Retinopathy: Treatment
08:30 – 10:00	Session Room 2	OI	SYM	CVRS Symposium: Retinal Imaging *
08:30 – 10:00	Session Room 3	RET-M	SYM	Age-related Macular Degeneration: AMD
08:30 – 10:00	Session Room 4	PR	SYM	Pediatric Retina: Epidemiology, Screening, and Diagnosis
08:30 – 10:00	Session Room 5	IUS	SYM	Uveitis and Ocular Inflammation Treatment
08:30 – 10:00	Session Room 6	GO	SYM	Young Ophthalmologists' Symposium
10:15 – 11:45	Session Room 1	RET-M	SYM	High Myopia
10:15 – 11:45	Session Room 2	RET-S	SYM	CVRS Symposium: Surgical Retina *
10:15 – 11:45	Session Room 3	RET-M	SYM	Update on Drug Delivery to the Posterior Segment of the Eye
10:15 – 11:45	Session Room 4	AI	SYM	Artificial Intelligence for Retinal Disease
10:15 – 11:45	Session Room 5	RET-M	SYM	Central Serous Chorioretinopathy
10:15 – 11:45	Session Room 6	RET-M	FP	Rapid Fire Medical Retina, Neuroscience, and Ocular Imaging Update Symposium
14:30 – 16:00	Session Room 2	RET-M	SYM	CVRS Symposium: High Myopia and Retinal Vascular Diseases *
14:30 – 16:00	Session Room 3	RET-M	SYM	Great Cases: Inflammation and Beyond
14:30 – 16:00	Session Room 4	RET-S	SYM	Intraocular Tamponade in the 21st Century
14:30 – 16:00	Session Room 5	RET-M	FP	Rapid Fire Medical Retina and Intraocular Inflammation, Uveitis & Scleritis Update Session
<p><i>Subspecialty:</i> 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)</p> <p><i>Type:</i> FP = Free Paper; SYM = Symposium; VS = Video Symposium</p> <p>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.</p>				

FLOOR PLAN

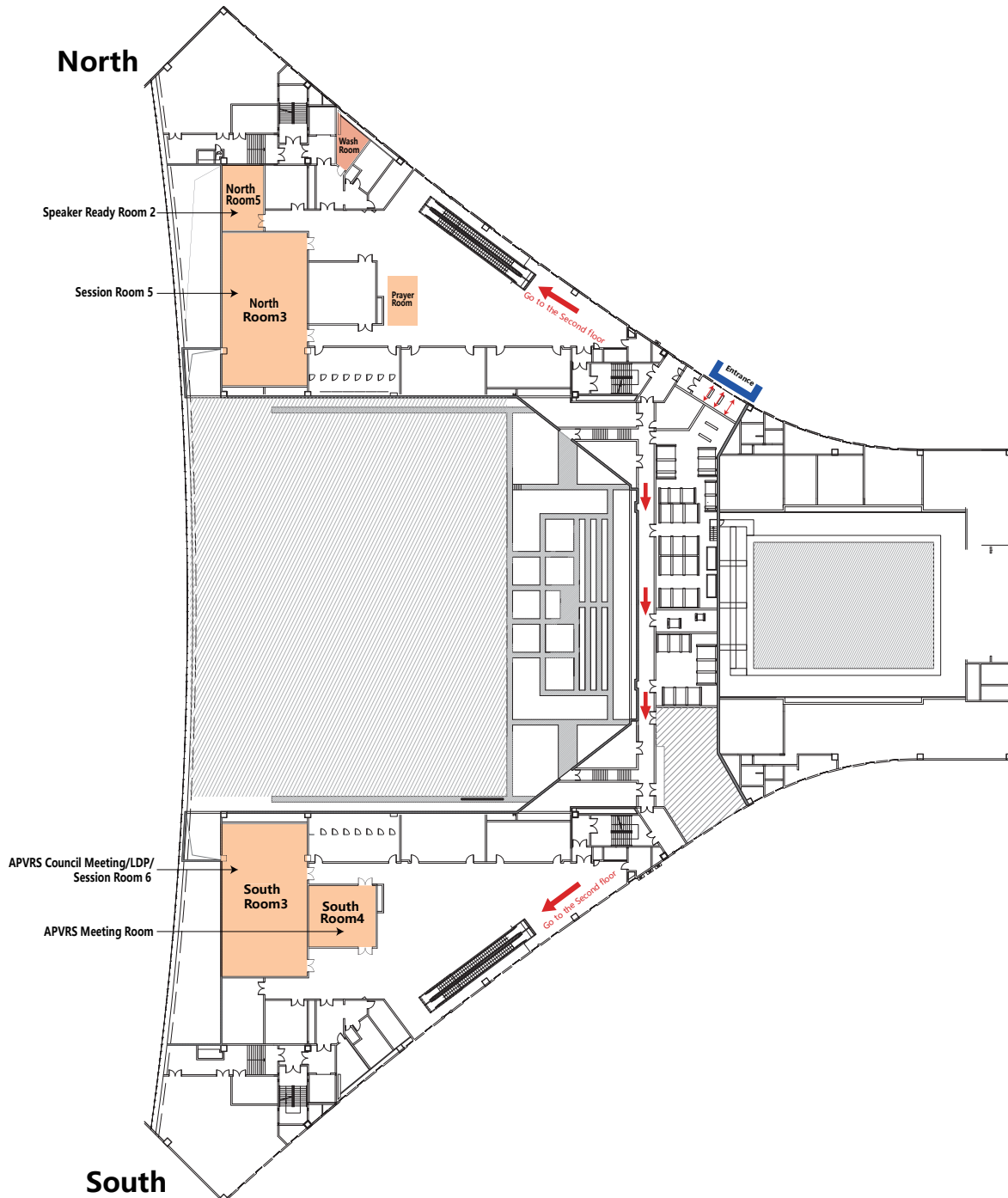


Program at a Glance

Hall 4.2



West Wing





Special Lectures & Grants

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.



Special Lectures & Grants

APVRS CONSTABLE LECTURE

The APVRS Constable Lecture was established in 2016 in honor of Prof. Ian Constable, a past president of APVRS. The Constable Lecture awards individuals of 45 years or younger for outstanding contributions in advancing the understanding, diagnosis, and treatment of vitreo-retinal diseases.



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.



Special Lectures & Grants

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.



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.

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)



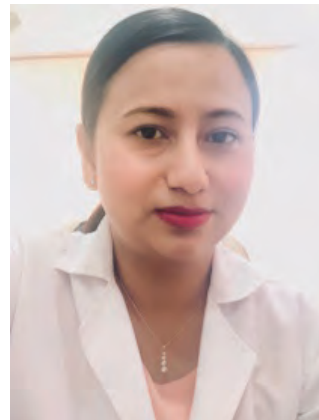
Tingyi LIANG
(China)



Lawrence P. IU
(Hong Kong, China)



Sushma JAYANNA
(India)



Roshija K. RIJAL
(Nepal)

Scientific Programs Invited Symposiums



Scientific Programs
Invited Symposiums

Scientific Programs

INVITED SYMPOSIUMS

Nov 22, 2019 (Fri)

Ocular Imaging

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 STAURENGHI

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

Retina (Medical)

Age-related Macular Degeneration: Dry AMD

08:30 - 10:00 **Venue: Session Room 2**
Chair(s): David BOYER, Paul MITCHELL, Yusheng WANG

- 08:30 Zimura®, a Novel Complement C5 Inhibitor, Reached Statistical Significance in a Randomized, Sham Controlled Clinical Trial in Geographic Atrophy Secondary to Dry AMD
Kourous REZAEI
- 08:42 Longitudinal Changes of Pachydrusen
Yasuo YANAGI
- 08:54 Predicting AMD Progression Risk Using AI
Dale WEBSTER
- 09:06 Role of OCT Angiography in Assessing Atrophic Changes in Treated Neovascular AMD
Paul MITCHELL
- 09:18 Geographic Atrophy in CATT Study
Lee-Jen CHEN
- 09:30 Drugs in the Pipeline for the Treatment of Geographic Atrophy
David BOYER
- 09:42 Results of the 2 Phase Trials for Apl-2 and Brimonidine
David BOYER
- 09:54 Questions and Answers

RETINAWS

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

- 09:50 Panel Discussion
Vincenzo FERRARA, Motohiro KAMEI, Chi-Chun LAI, Manish NAGPAL, Nuttawut RODANANT, Doric WONG, Edmund WONG, Chun ZHANG

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

- 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
Shiyong 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, Shiyong 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

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 Globe 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

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
Kourous **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**



Scientific Programs

Swept-source OCT and OCT Angiography

Swept-source OCT (SS-OCT) is revolutionizing the way we diagnose and manage vitreo-retinal, 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-OCTA and ICGA Comparison on PCV
Seung-Young YU
- 14:57 Follow-up PCV Using SSOCTA 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-OCTA 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 (Combination of Brachytherapy and Local Chemotherapy, Proton Treatment)
Norbert BORNFELD
- 11:34 Recent Advance in the Management of Vascular Tumors
Duangnate ROJANAPORN

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



Scientific Programs

09:36 Case Presentation 9
David SARRAF

09:41 Case Presentation 10
Christopher LEE

09:46 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 focussing 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

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 in Setting Up Screening Protocol for Retinopathy of Prematurity in Asia Pacific Region
Rajvardhan AZAD

Scientific Programs

- 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 AMPHONPHRUET
- 09:40 ROP: Atypical Presentations
Sang Jin KIM

Retina (Medical)

Age-related Macular Degeneration: AMD

In this symposium, speakers from around the world will present on the latest development in the pathogenesis and treatment of neovascular age-related macular degeneration (AMD), including new pharmacologic agents, long-term result of the IVAN study, gut metagenome and recent advances in imaging of AMD.

08:30 - 10:00 **Venue: Session Room 3**
Chair(s): Adrian KOH, Timothy LAI, Sebastian WOLF

- 08:30 Recent Advances in Imaging of AMD
Danny NG
- 08:42 Gut Metagenome in Exudative AMD
Sebastian WOLF
- 08:54 5-year Results of the IVAN Study
Usha CHAKRAVARTHY
- 09:06 New Drugs for Neovascular AMD
Jean-Francois KOROBELNIK

- 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 CHAIKITMONGKOL
- 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

Scientific Programs

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
Vitreotomy
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 Submitted Programs



Scientific Programs
Submitted 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)

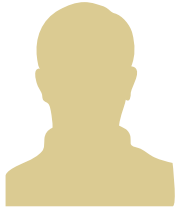


2nd Prize
Longhao KUANG
(China)



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
<i>Chunhui JIANG</i> | 10:51 | Vitrectomy with Internal Limiting Membrane Peeling for Management of Exudative Diabetic Maculopathy
<i>Kanwaljeet MADAN</i> |
| 10:21 | Comparison Between 1 DD and 2 DD RADIUS of Conventional Internal Limiting Membrane Peeling for Treatment of Full-thickness Macular Hole: Randomized Clinical Controlled Trial
<i>Parinya SRIHATRAI</i> | 10:57 | Relationship Between Shape of Foveal Avascular Zone Determined by OCT Angiography and Metamorphopsia in Epiretinal Membrane Patients
<i>Hiroto TERASAKI</i> |
| 10:27 | Choroidal Thickness Associated with Delayed Subretinal Fluid Absorption After Rhegmatogenous Retinal Detachment Surgery
<i>Yodpong CHANTARASORN</i> | 11:03 | Amniotic Membrane Graft for the Treatment of Giant Refractory Macular Hole
<i>Hussain KHAQAN</i> |
| 10:33 | Surgical Outcomes of Myopic Traction Maculopathy According to the International Photographic Classification for Myopic Maculopathy
<i>Hyoung Jun KOH</i> | 11:09 | Clinical Outcomes of Autologous Neurosensory Retinal Free Flap Technique for Recurrent Macular Hole Retinal Detachment in Highly Myopic Eyes
<i>Jianhua WU</i> |
| 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
<i>Chuandi ZHOU</i> | 11:15 | Scleral Buckle in Early Stage Rhegmatogenous Retinal Detachment Pre-refractive Surgery
<i>Tieying ZHAO</i> |
| 10:45 | Initial Closure Rate and Aperture Threshold of Large Idiopathic Macular Hole Treated with Vitrectomy
<i>Wu LIU</i> | 11:21 | Refractive Error After Intraclear IOL Fixation Induced by IOL Tilt and Decentration
<i>Teruaki TOKHISA</i> |
| | | 11:27 | Effects of Breathing Meditation on Pupillary Reflexes and Macular Vascular Perfusion in Normal Eyes
<i>Huimin YU</i> |
| | | 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
<i>Xiaoyong HUANG</i> |
| | | 11:39 | Patching Retinal Breaks with Healaflo in 27-gauge Vitrectomy for the Treatment of Rhegmatogenous Retinal Detachment
<i>Xiaorong LI</i> |

Scientific Programs

Nov 23, 2019 (Sat)

Pediatric Retina

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***

09:06 Correlation Between Visual Function and Macular Morphological Characteristics Evaluated by SD-OCT in X-linked Retinoschisis
*Baoyi **LIU***

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)

Retina (Medical)

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 **TSUJIKAWA***

- 10:21 Risk of Endophthalmitis After Different Intravitreal Bevacizumab Protocols
Roshija KHANAL RIJAL
- 10:27 Assessing Long Term Safety of Voretigene Neparovec in Patients with RPE65 Mutation-Associated Inherited Retinal Dystrophy: A Real-world Study Design
Dominik FISCHER
- 10:33 Correlation Between Multiluminance Mobility Testing and Visual Function Tests in a Phase 3 Trial of Voretigene Neparovec for Biallelic RPE65-mediated Inherited Retinal Disease
Daniel CHUNG
- 10:39 Two-year Outcome of Intravitreal Conbercept Versus Ranibizumab for Pathological Myopic Choroidal Neovascularization
Cong CHEN
- 10:45 Four-year Results of a Phase 3 Voretigene Neparovec Trial in Biallelic RPE65-associated Inherited Retinal Disease
Daniel CHUNG
- 10:51 Relationship Between Triglyceride Glucose Index, Retinopathy and Nephropathy in Type-2 Diabetes
Pallavi SINGH
- 10:57 Characteristic of Posterior Precortical Vitreous Pockets and Cloquet's Canal in Myopia by Swept-source Optical Coherence Tomography
Xiangjun SHE
- 11:03 Single-cell RNA-seq Analysis Maps Early Development of Mouse and Human Retina
Xi CHEN
- 11:09 Generation of Patient-specific Induced Pluripotent Stem Cells and Retinal Organoids with Novel RPE65 Mutations
Xiufeng ZHONG
- 11:15 Protective Effect of Chemokine CXCL12 on Rat Retinal Ganglion Cells Cultured with High-glucose Environment and Related Mechanism
Yuqing LAN
- 11:21 The Effect of Apolipoprotein A-1 Mimetic Peptide D-4F on Reducing Leakage Blood-retina Barrier in apoA1 Knock-out Mice Oxygen-induced Retinopathy Model
Kunyi SU
- 11:27 Automated and Interpretable Diabetic Retinopathy Identification by a Deep Learning Algorithm Based on Lesion Detection
Yuelin WANG
- 11:33 Role of MicroRNA-23b-3p in the Cellular Metabolic Memory of Diabetic Retinopathy
Shuzhi ZHAO
- 11:39 Automatic Grading System for Diabetic Retinopathy Diagnosis Using Deep Learning Artificial Intelligence Software
Xiangning WANG
- Rapid Fire Medical Retina and Intraocular Inflammation, Uveitis & Scleritis Update Session**
- 14:30 - 16:00 **Venue: Session Room 5**
Chair(s): Sanyam BAJIMAYA, Haiyan WANG
- 14:30 Fibrosis and HRM Changes in Treated Neovascular Age-related Macular Degeneration: Findings from Multimodal Imaging of the IVAN Clinical Trial
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
Paul MITCHELL

Scientific Programs

- 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**

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Poster No.: EX1-003

Early Vitrectomy in Endophthalmitis

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Poster No.: EX1-004

Fungal Endophthalmitis – A 20-year Experience at a Tertiary Referral Center

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Poster No.: EX1-005

Human Encephalitis Complicated with Bilateral Acute Retinal Necrosis Caused by Pseudorabies Virus Infection: A Case Report

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Poster No.: EX1-006

Two Cases of Traumatic Endophthalmitis in Children

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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**

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Poster No.: EX1-008

A Case of Sweet's Syndrome with Panuveitis

First Author: Wenjuan **WANG**

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Poster No.: EX1-009

Adenovirus-mediated Down-regulation of miR-21-5p Alleviates Experimental Autoimmune Uveoretinitis in Mice

First Author: Long **SHI**

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Poster No.: EX1-010

Bilateral Ocular Toxocariasis: An Atypical Presentation in a Pediatric Patient

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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

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Scientific Programs

Poster No.: EX1-013

Ocular Syphilis as Retinal Vasculitis with Branch Retinal Artery Occlusion: A Diagnostic Challenge

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Poster No.: EX1-014

Overlapping White Dot Syndrome

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Poster No.: EX1-015

Varicella-zoster Virus as a Causative Agent of Acute Retinal Necrosis in Younger Patients: A Retrospective Study

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Poster No.: EX1-016

Vitritis of Unclear Etiology: Causes, Clinical Features, Microbiology, Management and Outcomes

First Author: Savla Laxmi **PRABHAVATHI**

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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**

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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**

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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

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Poster No.: EX1-022

Novel Retinal Manifestation of Poretti – Boltshauser Syndrome: Retina as a Window to the Brain

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Poster No.: EX1-023

Research on the Effect of Hydrogen Sulfide and Its Generation Pathway in Rats Retinal Ischemia-reperfusion Injury

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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**

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Poster No.: EX1-026

Accuracy of SD-OCT Characteristics in Identifying Post-treatment Polypoidal Status in Polypoidal Choroidal Vasculopathy Compared with Indocyanine Green Angiography

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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**

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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**

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Poster No.: EX1-029

Association Between the Proportion of Choroidal Vessels and Blood Flow in the Normal Macula

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Poster No.: EX1-030

Cause of Superior Detectability of Multicolor SLO in Detection of Epiretinal Membrane

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Poster No.: EX1-031

Comparative Analysis of Multifocal Electroretinogram and OCTA in Non-proliferative Diabetic Retinopathy

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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

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Poster No.: EX1-033

Fluorescein Leakage and Optical Coherence Tomography Angiography Features of Microaneurysms in Diabetic Retinopathy

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Poster No.: EX1-034

New Method to Measure Subfoveal Choroidal Thickness in Optical Coherence Tomography

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Poster No.: EX1-035

Three-dimensional Choroidal Vascularity Index in Acute Central Serous Chorioretinopathy Using Swept-source Optical Coherence Tomography

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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**

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Poster No.: EX1-037

Ultra-wide Field Swept-source Optical Coherence Tomography Angiography in Patients with Diabetes Without Clinically Detectable Retinopathy

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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

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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**

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Poster No.: EX1-040

Various Facets of Retinal Abnormalities in β -Thalassemia Major and the Role of Fundus Autofluorescence Imaging in Their Diagnosis

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Ocular Oncology & Pathology

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**

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Poster No.: EX1-043

Idiopathic Orbital Inflammatory Syndrome: Yes or Not?

First Author: Lindan **XIE**

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Poster No.: EX1-044

Multiplatform Omics Analysis for Identification of Molecular Characteristics and Therapeutic Targets of Uveal Melanoma

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Poster No.: EX1-045

The Clinicopathological Features Data and Correlation with Metastasis for 164 Uveal Melanoma Patient

First Author: Ren **XIANG**

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**

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Poster No.: EX1-048

Clinical Characteristics of Neovascular Age-related Macular Degeneration in Southwestern Island of Japan

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Poster No.: EX1-049

Impact of the Morphologic Characteristics of Optic Disc on Choroidal Thickness in Young Myopic Patients

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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**

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Pediatric Retina

Poster No.: EX1-051

A Case of Incontinentia Pigmenti

First Author: Roland Martin **ABAYA**

Poster No.: EX1-052

Outcome of Intravitreal Bevacizumab Combined with Laser Therapy for Sight Threatening Retinopathy of Prematurity

*First Author: Sanyam **BAJIMAYA**
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Poster No.: EX1-053

Progressive Retinal Vessel Malformation in a Premature Infant with Sturge-Weber Syndrome After Intravitreal Anti-VEGF

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Poster No.: EX1-054

Retinal Findings Before Retinopathy of Prematurity

*First Author: Ji Hye **JANG**
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Poster No.: EX1-055

Retinopathy of Prematurity in Twins; Bangladesh Perspective

*First Author: Mahmudul **SIDDIQI***

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Symmetric Clinical Ocular Findings in Phenotypically Identic Twins with Familial Exudative Vitreoretinopathy

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Retina (Medical)

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A Novel Technique to Assess Severity of Diabetic Retinopathy Using Optical Coherence Tomography Angiography

*First Author: Colin **TAN**
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Poster No.: EX1-058

An Adult Vitelliform Macular Dystrophy with Normal Electro-oculography and No Pathogenic Genes Findings

*First Author: Zheng **LI**
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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**
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Poster No.: EX1-060

Bacterial Infection Promotes Spontaneous Choroidal Neovascularization (sCNV) Development in the JR5558 Mouse

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Poster No.: EX1-061

Changes in Ganglion Cell-inner Plexiform Layer in the Fellow Eyes of Patients with Unilateral Neovascular Age-related Macular Degeneration

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Poster No.: EX1-062

Characteristics and Treatment Response of Polypoidal Choroidal Vasculopathy in Highly Myopic Eyes

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Poster No.: EX1-063

Chronic Photodamage of Chicken Retina by 650nm Semiconductor Laser

*First Author: Yipeng **WANG***

Poster No.: EX1-064

Clinical Features and Outcomes of Paracentral Acute Middle Maculopathy Associated with Retinal Artery Occlusion

*First Author: Qingshan **CHEN**
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Poster No.: EX1-065

Comparison of Choroidal Structure and Circulation After One-third and Half Dose Photodynamic Therapy for Chronic Central Serous Chorioretinopathy

*First Author: Shun **KUMASHIRO***

Scientific Programs

Poster No.: EX1-066

Correlations Between Presenting Vision and Mitochondrial Functions for Degeneration in Polypoidal Choroidal Vasculopathy

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Poster No.: EX1-067

Efficacy of Dexamethasone Intravitreal Implant for Refractory Macular Edema Caused by Retinal Vein Occlusion

First Author: Wei **GU**

Poster No.: EX1-068

Efficacy of Treatment for Residual Active Choroidal Neovascularization Using a Retinal Navigated Laser (Navilas®)

First Author: Su **ZHANG**
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Poster No.: EX1-069

Foveal Avascular Zone and Microvascular Changes on OCTA After Macula-off Rhegmatogenous Retinal Detachment Repair

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Poster No.: EX1-070

HtrA1 Serine-protease Expression Levels of Age-related Macular Degeneration (AMD) Patients in Yogyakarta

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Poster No.: EX1-071

Is the Retinal Vasculature Related to β -Peripapillary Atrophy in Non-pathological High Myopia? An Optical Coherence Tomography Angiography Study in Chinese Adults

First Author: Jiao **SUN**
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Poster No.: EX1-072

Label-free Absolute Quantitative Proteomic Analysis of Vitreous Humor from Patients with High Myopia

First Author: Minlu **SONG**
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Poster No.: EX1-073

Laser Photocoagulation vs Intravitreal Injection of Anti-vascular Endothelial Growth Factor for Retinal Arterial Macroaneurysms

First Author: Ying **HUANG**
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Poster No.: EX1-074

Levels of Aqueous Humor Interleukin 6 and Monocyte Chemotactic Protein 1 are Elevated and Correlated with Macular Edema in Ischemic Retinal Vein Occlusion

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Poster No.: EX1-075

Levels of Inflammatory Cytokines IL-1 β , IL-6, IL-8, IL-17A, and TNF- α in Aqueous Humor of Patients with Diabetic Retinopathy

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Poster No.: EX1-076

Longitudinal Changes in Retinal Vasculature After Panretinal Photocoagulation in Diabetic Retinopathy by Swept-source OCT Angiography

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Poster No.: EX1-077

Neuro-protective Effect and Mechanism of Resveratrol in Low Dose on Diabetic Retinal Neurodegeneration

First Author: Ke **XIAO**

Poster No.: EX1-078

Outcomes of Intravitreal Bevacizumab (IVB) as an Adjuvant Therapy in Coats Disease

First Author: Sushma **JAYANNA**

Poster No.: EX1-079

Patterns of Diabetic Retinopathy Grading Among Diabetic Patients in a Community Based Study in Bangladesh Where Diabetic Retinopathy Screening Program Is Unfamiliar

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Poster No.: EX1-080

Polyp Evolution over 24 Months Among Patients with Polypoidal Choroidal Vasculopathy

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Potentially Therapeutic Windows for Retinitis Pigmentosa – The Interactions of Heterogenous Genetic Variations, Macular Involvements, and Visual Impairments

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Quantification of Retinal Microvasculature in Different DR Grades Using Wide Field SS-OCTA

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Poster No.: EX1-083

Real-world Data of Intravitreal Aflibercept for Myopic Choroidal Neovascularization: 12-month Outcomes of Japan Post-marketing Surveillance

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Poster No.: EX1-084

Real-world Use of Intravitreal Aflibercept in Macular Oedema Secondary to Central Retinal Vein Occlusion from Japan: 24-month Outcomes of J-PMS CRVO Study

*First Author: Masahiko SHIMURA
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Regional Growth of Geographic Atrophy and Visual Acuity: A longitudinal Analysis

*First Author: Jong In YOU
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Poster No.: EX1-086

Relationship Between Retinal Perfusion and Retinal Thickness in Healthy Subjects and in Obstructive Sleep Apnea

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Poster No.: EX1-087

Short Term Efficacy of Sub-Tenon's Injection of Triamcinolone Acetonide for Cystoid Macular Edema After Cataract Surgery

*First Author: Bing LIN
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Poster No.: EX1-088

The Fellow Eye Effect of Unilateral Intravitreal Conbercept Injections in Eyes with Diabetic Macular Edema

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Poster No.: EX1-089

The Role of Intravitreal Bevacizumab for Pseudophakic Cystoid Macular Edema: A Systematic Review

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The Association Between Age-related Macular Degeneration and Alzheimer's Disease: An Updated Systematic Review

*First Author: Jianan DUAN
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The Changes of Vitreous Protein Expression Profile Induced by Intravitreal Anti-VEGF Therapy in Eyes with Proliferative Diabetic Retinopathy

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Scientific Programs

Poster No.: EX1-092

The Effect of Varying Dosage and Fluence Setting of Verteporfin on Choroidal Vasculature in a Rodent Model

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Poster No.: EX1-093

The Efficacy of Conbercept or Ranibizumab Intravitreal Injection for ME

First Author: Wang **YOU**

Poster No.: EX1-094

The Efficacy of Intravitreal Gas Injection for Chronic Non-resolving Diabetic Cystoid Macular Edema

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Poster No.: EX1-095

Time to Dry Analysis of Brolocizumab Versus Aflibercept in Patients with Neovascular AMD: 96-week Data from the HAWK and HARRIER Trials

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Poster No.: EX1-096

To Compare the Efficacy of Pneumatic Displacement With and Without Tissue Plasminogen Activator for Traumatic Submacular Hemorrhage

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Poster No.: EX1-097

Topical Nepafenac 0.1% After Phacoemulsification Cataract Surgery for Patients with Coexisting Diabetic Retinopathy: A Meta-analysis

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Poster No.: EX1-098

Treatment of Chronic Central Serous Chorioretinopathy with Under-threshold Energy of Precision Navigation Laser

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Poster No.: EX1-099

Two-year Outcome of Conbercept for Treatment of Choroidal Neovascularization Secondary to Pathologic Myopia and Correlation of Visual Prognosis

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Poster No.: EX1-100

Visual Evoked Potential Changes in Patients with Type II Diabetes Mellitus

First Author: Madhurima **CHAUDHURI**

Poster No.: EX1-101

Wide Foveal Pit: Predilection for Maculopathy

First Author: Yi-Ting **HSIEH**
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Retina (Surgical)

Poster No.: EX1-102

Twenty-seven-gauge TSV for High Myopic Foveoschisis

First Author: Tiejing **ZHAO**
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Poster No.: EX1-103

Application of the Viscoelastic Substance – An Innovative Technique in the Surgical Management of Proliferative Diabetic Retinopathy

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Causes and Prognosis of Acute – Onset Vitreous Hemorrhage of Unknown Origin After Vitrectomy in a Tertiary Eye Care Center of Bangladesh

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Poster No.: EX1-105

Clinical Outcomes of Refractory Neovascular Glaucoma with Endoscopic Cyclophotocoagulation and Vitreous Surgery After Anti-VEGF Treatment

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Poster No.: EX1-106

Clinical Features of Subretinal Proliferation in Proliferative Diabetic Retinopathy

First Author: Chan WU

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Poster No.: EX1-107

Evaluating the Use and Outcomes of Digitally Assisted Vitreo-retinal Surgery: A Systematic Literature Review

First Author: Leighton MORRIS

Poster No.: EX1-108

Efficacy of Intraoperative Optical Coherence Tomography (iOCT) in Various Vitreo-retinal Indications

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Microglia Protect Photoreceptors from Apoptosis After Experimental Retinal Detachment

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Posters

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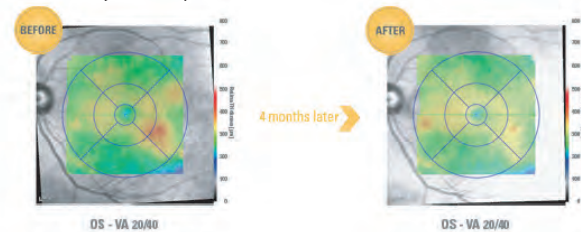
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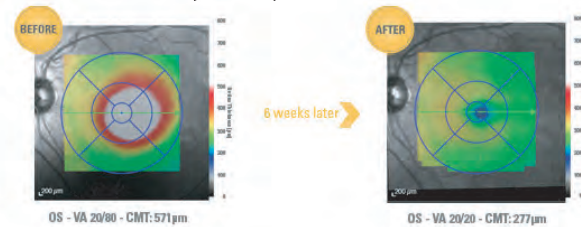
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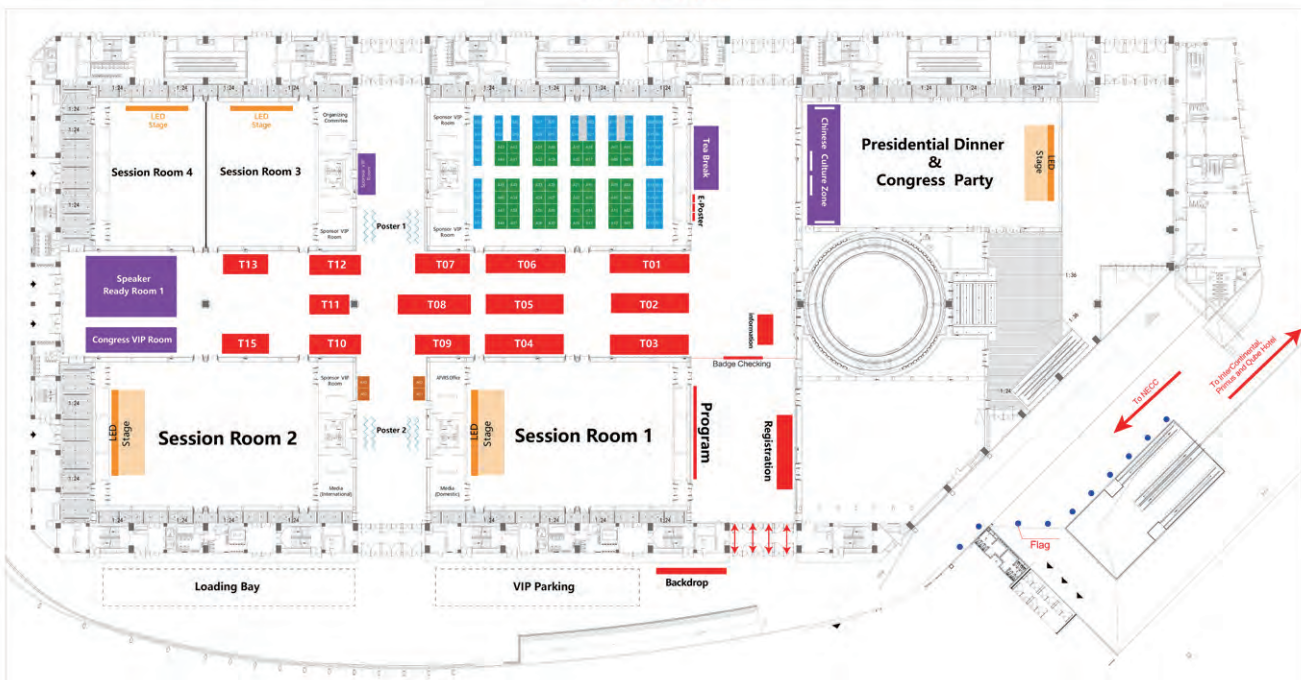
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12:00-13:00	Novartis China	Novartis Symposium	Session Room 2
12:00-13:00	NIDEK Co., Ltd.	NIDEK Lunch Symposium	Session Room 3
12:00-13:00	Merck	Merck Lunch Symposium	Session Room 4
13:15-14:15	Allergan	<p>AGN Lunch Symposium – Future Considerations in RVO and Patient Management</p> <p>13:15-13:17 Welcome and Introduction <i>Chair(s): Adrian KOH, Marc D. DE SMET</i></p> <p>13:17-13:29 Which Steroid and Why? <i>Albert AUGUSTIN</i></p> <p>13:29-13:41 Efficacy and Safety of Dexamethasone Implant in Vitrectomized Patients with RVO <i>Xiaodong SUN</i></p> <p>13:41-13:53 Real-world Data in RVO <i>Marc D. DE SMET</i></p> <p>13:53-14:05 Approach to Patients: What Matters in My Practice? <i>Michael SINGER</i></p> <p>14:05-14:15 Discussion and Q&A <i>Adrian KOH, Marc D. DE SMET</i></p>	Session Room 1
13:15-14:15	Chengdu Kanghong Pharmaceutical Group Co., Ltd.	The Pillars of a Great Power, Innovation and Quality	Session Room 2
13:15-14:15	Zhuhai Essex Medipharma Co., Ltd.	Essex Lunch Symposium	Session Room 3
13:15-14:15	SVision Imaging, Ltd.	SVision Symposium	Session Room 4
Nov 22, Evening Sessions			
17:30-18:30	Gaush Medical Corporation	Images That Empower	Session Room 2
17:30-19:30	Carl Zeiss (Shanghai) Co., Ltd.	8th ZEISS Film Festival	Session Room 1

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Nov, 23, Lunch Sessions			
12:00-13:00	TOPCON	TOPCON Symposium	Session Room 1
12:00-13:00	Chengdu Kanghong Pharmaceutical Group Co., Ltd.	LUMITIN Satellite Meeting	Session Room 3
12:00-13:00	Shanghai Sunvista Medical Technology Co., Ltd.	New Product Launch of Perfluorooctane for Ophthalmology	Session Room 4
12:00-13:00	Bayer Healthcare	Bayer Symposium	Session Room 2
13:15-14:15			Session Room 2
12:30-13:30	Allergan	<p>Allergan Roundtable</p> <p>12:30-12:35 Opening <i>Qing CHANG</i></p> <p>12:35-12:45 Inflammation in RVO-predictor Findings in Imaging and New Techniques <i>Fang LU</i></p> <p>12:45-12:55 Anti-inflammation and Anti-VEGF in RVO Macular Edema Management <i>Michael SINGER</i></p> <p>12:55-13:25. Panel discussion : The Value and Timing of Anti-inflammation in RVO-ME Management The Optimal Treatment Strategy for RVO-ME The Benefit of Ozurdex in RVO-ME Management <i>Chenjin JIN (moderator), Fang LU, Jing LUO, Dawei SUN, Suqin YU</i></p> <p>13:25-13:30 Conclusion <i>Xiaoyan PENG</i></p>	Session Room 5
13:15-14:15	Alcon (China) Ophthalmic Product Co., Ltd.	Faster & Smaller – The Advanced MIVS Technology Platform	Session Room 1
13:15-14:15	Novartis China	Novartis Symposium	Session Room 4
Nov 24, Lunch Session			
12:00-13:00	Carl Zeiss (Shanghai) Co., Ltd.	ZEISS Retina Innovation Symposium	Session Room 2



Index



INDEX

A

Roland Martin ABAYA	66
Nor Fadzillah ABD JALIL	72
SYED ABDUL KHADAR	81, 82
Nurul Syahida ABDUL WAHAB	71
Dina Joy ABULON	79-81
Komal AGARWAL	64, 83
Lalit AGARWAL	64
Tushar AGARWAL	78
Angela Nurini AGNI	68
Nisha AGRAWAL	64
Rupesh AGRAWAL	16, 44, 77
Romulo AGUILAR	63
Referano AGUSTIAWAN	16
Jahangir ALAM	70
Sarwar ALAM	82
Tariq ALI	81
Penelope ALLEN	63
Atchara AMPHONPHRUET	16, 48, 52, 73, 76
Marcus ANG	51, 53
Anhar ANHAR	72-73
Jubaida AQUINO	63, 79
Hisaya ARAKAWA	65, 75
Yuriy ASTAKHOV	66
Chi Lik AU	66, 78, 80
Amani AUGIANI	69
Apoorva AYACHIT	78
Rajvardhan AZAD	10, 14, 51

B

Daniela BACHERINI	49
Jiwon BAEK	62
Seung-Kook BAEK	67
Priya BAJGAI	83
Sanyam BAJIMAYA	10, 61, 67, 72, 79
Praveen Kumar BALNE	77
Reema BANSAL	82-83
Karl BARTZ-SCHMIDT	42, 44
Mae-Lynn BASTION	16, 52
Soumyava BASU	63
Francine BEHAR-COHEN	54
Sudhank BHARTI	81
Gursimrat BHULLAR	63
Patama BHURAYANONTACHAI	74
Qiyu BO	67
Camiel BOON	12, 45, 54
Norbert BORNFELD	14, 46
David BOYER	12, 16, 41
Marten BRELEN	43
Neil BRESSLER	13, 52-53, 64
Vladimir BULATOV	66
Raghunandan BYANJU	73

C

Dan CAO	65, 77
Wenhong CAO	76
Matteo CEREDA	50

- | | | | |
|------------------------------------|---------------------------------|---------------------------|--------------------------------------|
| Voraporn
CHAIKITMONGKOL | 16, 52, 59, 64, 68 | Ta-Ching CHEN | 69 |
| Usha CHAKRAVARTHY | 13, 16, 47, 52 | Weiqi CHEN | 11, 83 |
| Clement CHAN | 16 | Xi CHEN | 61, 65 |
| R. V. Paul CHAN | 14, 51 | Xiaolong CHEN | 11 |
| Sarah CHAN | 71 | Youxin CHEN | 11, 13, 17, 49, 52,
65-66, 71, 74 |
| Pik Sha CHAN-UY | 80 | Yu-Yen CHEN | 62 |
| Bhuvan CHANANA | 16, 54-55, 81, 83 | Zhongping CHEN | 72, 77, 79 |
| Andrew CHANG | 1, 7, 10, 14, 40,
49, 63, 70 | Ching-Yu CHENG | 77 |
| Qing CHANG | 11, 15, 51, 91 | Yong CHENG | 44 |
| Yi-Sheng CHANG | 78 | Kai Xiong CHEONG | 64 |
| Yodpong CHANTARASORN | 59 | Navya CHERUKURI | 82 |
| Chen CHAO | 63 | Gemmy CHEUNG | 15-16, 40, 42, 53,
62 |
| Thanaphat
CHAOVISITSAREE | 64, 68 | Leanne CHEUNG | 76 |
| Siriporn CHATTIPAKORN | 68 | Ning CHEUNG | 77 |
| Madhurima CHAUDHURI | 70 | Jay CHHABLANI | 78, 83 |
| Songtian CHE | 73 | Hung-Da CHOU | 51, 60 |
| Cong CHEN | 61, 70 | Jan Patrick CHU | 63 |
| Fenge CHEN | 80 | Yanhua CHU | 82 |
| Haoyu CHEN | 16, 44, 74, 83 | Chun Hau CHUA | 80 |
| Hui CHEN | 76 | Chih-Chun CHUANG | 77 |
| Kuan-Jen CHEN | 44 | Daniel CHUNG | 61 |
| Lee-Jen CHEN | 15-16, 41, 47 | Carl CLAES | 13, 43 |
| Lei CHEN | 11 | Salomon COHEN | 12, 53-54 |
| Li Jia CHEN | 16, 34, 47 | Ian CONSTABLE | 10, 12, 16, 34, 45 |
| Ling CHEN | 16, 54 | Niall CROSBY | 73 |
| Lu CHEN | 63, 67, 81 | Karl CSAKY | 40 |
| Pei-Lung CHEN | 69 | Yan CUI | 11, 63, 65, 73 |
| Qianbo CHEN | 71 | Yanhui CUI | 63, 76 |
| Qingshan CHEN | 67 | William CUNNINGHAM | 73 |
| Qiuying CHEN | 66, 76 | | |
| Shih-Jen CHEN | 13, 47, 52 | D | |
| Song CHEN | 11, 71 | Aiai DAI | 77 |

Index

Hong DAI	11, 17	Jingyang FENG	80
Rongping DAI	71, 74	Liguo FENG	79
Tianhong DAI	73	Vincenzo FERRARA	13, 41, 50
Wantanee DANGBOON	16	Magno FERREIRA	16, 49
Taraprasad DAS	10, 13, 16, 43, 54	Dominik FISCHER	16, 45, 55
Vivek DAVE	64, 82	Anis FITRIANA	69
Rosie DAWKINS	58, 63	Kenneth FONG	10, 15-16, 43, 50
Eugene DE JUAN	53	Jorge FORTUN	44
Yu DI	69	Egidio FORTUNA	63
Anindita DIANRATRI	75	K. Bailey FREUND	14, 16, 41, 47-48
Xiaoyan DING	41, 54	Ryoh FUNATSU	65
Ari DJATIKUSUMO	69-70	Adrian FUNG	16, 48, 51
Diana DO	45	Nicholas FUNG	75
Mohit DOGRA	51, 74, 82-83		
Sherine DSOUZA	75, 79, 82-83	G	
Jianan DUAN	69, 73	Pia Regina GALVANTE	63, 79
Pravin DUGEL	52-53, 62, 70	Yuhong GAN	78
Udbuddha DUTTA	75-76	Rajiv GANDHI	83
Uddeeptha DUTTA	76	Lei GAO	79
		Sheng GAO	75
E		Xiang GAO	79
Irina EFIMENKO	66	Xuhui GAO	74
Elvioza ELVIOZA	66	Lina GE	80
		Vishal GOVINDHARI	78
F		Wei GU	68
Jordan FAMADICO	80	Xiaoxiao GUO	65
Hua FAN	79		
Ying FAN	66, 76, 80	H	
Xiaoyun FANG	11	Jing HAN	78
Yuxin FANG	53	Ning HAN	73
Amani FAWZI	40	Quanhong HAN	49
Jing FENG	60	Sabia HANDA	58, 71, 83

- Sherin Haroon **M. Haroon** 82
- Qian Zhi **HAW** 80
- Mayuka **HAYASHIDA** 77
- Jiangnan **HE** 66, 76
- Tao **HE** 11
- Sharat **HEGDE** 82
- Jeff **HEIER** 15, 43
- Heinrich **HEIMANN** 13, 16, 55
- Fumihito **HIKAGE** 74, 77, 80
- Mary **HO** 75
- Tzyy-Chang **HO** 10, 16, 53, 67, 77
- Graham **HOLDER** 14, 42
- Frank G. **HOLZ** 14, 40, 45, 70
- Meijing **HONG** 77
- Yuichi **HORI** 81
- Fahad **HOSSEN** 81
- Baoke **HOU** 70
- Yi-Ting **HSIEH** 16, 40, 58, 70, 82
- Hung-Jui **HSU** 58, 78
- Kyaw Soe **HTOO** 72
- Ailian **HU** 75
- Jie **HU** 67
- Man **HU** 63
- Shoulong **HU** 63
- Yuntao **HU** 16, 50
- Rui **HUA** 79
- Chien-Jung **HUANG** 77
- Ding-Siang **HUANG** 69
- Haixiang **HUANG** 73
- Jiannan **HUANG** 17
- Suber S. **HUANG** 13, 16, 36, 47, 49
- Wei-Lun **HUANG** 67
- Xiaoyong **HUANG** 59
- Xudong **HUANG** 79
- Ying **HUANG** 68-69
- Yannian **HUI** 14, 49
- Syed Zohaib Maroof **HUSSAIN** 80
- I**
- Yosuke **IDA** 74, 77, 80
- Eleonore **IGUBAN** 16
- Tomohiro **IIDA** 16, 47, 54, 58, 62, 65, 75
- Yuko **IIDA-MIWA** 78
- Hisanori **IMAI** 76
- Alessandro **INVERNIZZI** 78
- Masahiro **ISHIDA** 81
- Tomoka **ISHIDA** 44
- Md. **ISLAM** 69, 79-82
- Mominul **ISLAM** 70, 76, 82
- Kaku **ITOH** 74, 77, 70
- Lawrence **IU** 38, 51, 60, 76
- J**
- Martine **JAGER** 15, 46, 51
- Sahil **JAIN** 82
- Subhadra **JALALI** 82
- Ji Hye **JANG** 65, 67
- Ronaldo **JARIN** 63
- Sushma **JAYANNA** 38, 64, 68, 82
- Ang **JEAT** 72
- Sohee **JEON** 81
- Zhenyu **JI** 67
- Chunhui **JIANG** 11, 59, 69, 83
- Qin **JIANG** 11, 68, 70

Index

Rui JIANG	73-74	Yongjoon KIM	60, 66
Enzhong JIN	60	Yoon Jeon KIM	16, 44, 78
Kornkan JITSOPIT	76	You Na KIM	78
Jost JONAS	13, 16, 53	Yu Cheol KIM	65, 67
Praveen JOSEPH	64	Saya KIMURA	75
Ichhya JOSHI	64	Simon KO	66, 78
Antonia JOUSSEN	13, 42-43, 46, 49	Akiko KOGURE-KATAKURA	75
		Adrian KOH	10, 12, 42, 47-48, 52, 90
K		Hyoung Jun KOH	59
Kazuaki KADONOSONO	13, 16, 43, 49-50	Piyush KOHLI	71
Peter KAISER	12, 41-43	Hideo KOHNO	77
Motohiro KAMEI	16, 41, 47, 55	Hideki KOIZUMI	16, 54, 66
Kyung Tae KANG	65	Gregg KOKAME	42, 54
Jennifer KANG-MIELER	16, 53	Jun KONG	16, 52
Naresh KANNAN	71, 78	Wenjun KONG	63, 72
Muhammad Rizky Nur KARIM	69-70	Jean-Francois KOROBELNIK	16, 52
Keiko KATAOKA	16, 41	Longhao KUANG	58, 64
Hrishikesh KAZA	63	Shigeki KUDO	81
Genjie KE	11	Durgesh KUMAR	75
Yifeng KE	65	Nitin KUMAR	62, 82-83
Simanta KHADKA	73	Shun KUMASHIRO	67
Niaz KHAN	69, 79-82	Paradee KUNAVISARUT	64
Roshija KHANAL RIJAL	38, 61, 70	Yasuo KURIMOTO	81
Hussain KHAQAN	16, 44, 59, 82	King Hans KURNIA	66
Eung Suk KIM	68-69	Shunji KUSAKA	41
Hyung Chan KIM	16, 46, 52	Oh Woong KWON	10, 13, 47
Judy KIM	14, 43		
Jung Yeul KIM	67	L	
Kiyong KIM	68-69	Chi-Chun LAI	10, 14, 16, 41, 44
Min KIM	16	Timothy LAI	10, 12, 16, 47, 52
Sang Jin KIM	16, 52	Byron LAM	45
Sung Soo KIM	43		

Dennis LAM	1, 6, 10, 14, 40, 43, 50, 54	Xiaoxin LI	1, 4, 7, 10-11, 14, 16-17, 40, 46, 53
Wai Ching LAM	10, 14, 75	Xinyi LI	74
Yuqing LAN	61	Yan LI	11
Chia-Yi LEE	78	Yang LI	16, 46
Christopher LEE	16, 48, 66	Yun LI	67, 80
Joo Yong LEE	16, 48, 78	Zheng LI	67
Lawrence LEE	16, 44	Zhiqing LI	69
Suhwan LEE	74	Ziwei LI	63, 65, 73
Sung Chul LEE	66	Jianhong LIANG	11, 14, 41, 51-52
Sung Jin LEE	81	Tianwei LIANG	63, 76
Won Ki LEE	10, 12, 41-42, 47	Tingyi LIANG	38, 60, 74
Young Hoon LEE	67	Xiaoling LIANG	11-12, 16, 41-42
Boya LEI	73-74	Hui-Wen LIM	82
Bing LI	64-65, 69, 73	Louis LIM	64, 67, 69
Jizhu LI	66, 73, 77	Lyndell LIM	15-16, 44
Kelvin LI	64, 67, 80	Tock Han LIM	15, 45
Kenneth Kai Wang LI	80	Bing LIN	68-69
Li LI	63, 76	Chao-Wen LIN	69
Lue LI	69	Xiaofeng LIN	55
Mengda LI	64	Kiet-Phang LING	80, 82
Mingqiu LI	11	Liu LING	75
Mo LI	74	Wang LING	75
Muye LI	75	Baoyi LIU	58, 60, 64, 68
Qiuming LI	78	Jia LIU	74
Shanshan LI	65	Jing LIU	11
Shiying LI	16, 42	Kun LIU	11, 74
Suyan LI	11, 58	Lei LIU	77
Tao LI	66, 77	Lin LIU	11
Wang LI	80	Qinghuai LIU	11, 54, 79
Wanyue LI	77	Rui LIU	79
Wensheng LI	79	Tiecheng LIU	11, 77
Xiaorong LI	11, 59, 64-65, 69, 71	Wu LIU	11, 59
		Xiaoling LIU	11

Index

Yong LIU	11, 73, 76	Akiko MIKI	77
Zaoxia LIU	11, 73	Minwoo MINWOO	67
Anat LOEWENSTEIN	14	Yoshinori MITAMURA	78
Fang LU	11, 13, 42, 54-55	Akinori MITANI	45
Hai LU	13, 16, 41, 49	Paul MITCHELL	12, 32, 40-41, 61
Lin LU	11, 13, 17, 53, 67	Ishaq MOHAMEDY	80
Liping LU	77	Muhammad MONIRUZZAMAN	69, 79-82
Yi LU	81	Leighton MORRIS	71, 79
Jing LUO	91	Deepesh MOURYA	70
Marco LUPIDI	78	Marco MURA	80
Marina LUTOSHKINA	66	Yuki MURAOKA	78
Zhigang LV	79	Toshinori MURATA	16, 46
Jiao LYU	41, 83		

M

Dahui MA	63
I-Hsin MA	70
Linlin MA	74
Xiang MA	11
Zhizhong MA	10, 13, 16, 50
Kanwaljeet MADAN	59, 73
Savitri MADDILETI	64
Pawan MAHAT	72
Mohammad MALEK	67, 80
Indumathi MARIAPPAN	64
Ashish MARKAN	71, 83
Ichiro MARUKO	65, 75
Hiroki MASUMOTO	75
Ranjana MATHUR	16, 43
Yurie MATSUOKA	80
Qingyu MENG	60
William MIELER	15, 46-48, 53
Yuriko MIKAMI	65

N

Obuli N.	78
Dipak NAG	16, 52
Daisuke NAGASATO	75, 78
Manish NAGPAL	16, 41, 43, 49
Nazmun NAHAR	67, 76, 80, 83
Ramachandran NAIR	78
Shunichiro NAKAI	77
Makoto NAKAMURA	76-77
Sundaram NATARAJAN	44, 52
Tatiana NEVINITSYNA	66
Danny NG	16, 52
Eric NG	67
Nor Fariza NGAH	78
Minh-huyen NGHIEM EP. BUFFET	54
Quan Dong NGUYEN	15, 44
Jean-Claude NIYONZIMA	67
Nusrat NIZAM	76, 80, 83

O

Yuichiro OGURA	15-16, 47
Wang Yuhl OH	69
Hiroshi OHGURO	74, 77, 80
Masahito OHJI	10, 13, 16, 43, 52
Kyoko OHNO-MATSUI	13, 47, 53-54, 69
Rie OSAKA	78
Ayano OSHIRO	66
Chiaki OTA	74, 77, 80

P

Paolo Vicente PALADIO	63
Bhavik PANCHAL	58, 60, 82
Deepika C. PARAMESWARAPPA	64
Jang Ryul PARK	69
Jong Beom PARK	68
Joseph PARK	71
Sang Jun PARK	43
Yu Jeong PARK	74
Arif Hayat PATHAN	38, 67, 76, 79-80, 83
Avinash PATHENGAY	63
Direk PATIKULSILA	64, 68
Govinda PAUDYAL	72, 79
Rodger PAUL	63
Hui PENG	77
Mengying PENG	78
Xiaoyan PENG	91
Ayudha Bahana Ilham PERDAMAIAN	75
Nopasak PHASUKKIJWTANA	64

Marsha PINTARY	69
Philip POLKINGHORNE	10, 12, 54, 73
Savla Laxmi PRABHAVATHI	64, 77
Eli PRADHAN	67, 72, 79
Ethan PRIEL	16, 40, 45
Vinay PULIMAMIDI	64

Q

Huijun QI	54
Peng QIN	70
Yuanjun QIN	74
Zhou QIONG	74
Qinghua QIU	81
Xu QIU	75
Jinfeng QU	15, 40, 54
Jingfeng QU	11

R

Nishant Vijay RADKE	16
Arin Aulia RAHMA	70
Mostafizur RAHMAN	76, 80
Sabrina RAHMATULLAH	70
Raja Norliza RAJA OMAR	73
Rajesh RAJAGOPALAN	80
Rajasudha Sawri RAJAN	51, 78
Rajiv RAMAN	12, 50
Kim RAMASAMY	71
Chetan RAO	16, 50
Rajeev REDDY	82-83
Carl REGILLO	70
Siddiqui M. A. REHMAN	80
Xinjun REN	64, 69, 71

Index

Kourous REZAEI	41, 45	Xuan SHI	47
Tyler RIM	16, 42, 50	Masahiko SHIMURA	69
Nuttawut RODANANT	13, 16, 41, 55	Fumio SHIRAGA	44
Duangnate ROJANAPORN	14, 16, 46	Ruchi SHRESTHA	73
Philip ROSENFELD	15-16, 46	Zhimin SHU	74
Paisan RUAMVIBOONSUK	1, 5, 10, 12, 14, 16, 42, 47-48, 50, 60	Yuanlu SHUAI	79
Shang RUAN	75	Mahmudul SIDDIQI	67, 72
		Dawn SIM	50
		Gilbert SIMANJUNTAK	10, 60
		Matthew SIMUNOVIC	63
		Michael SINGER	90-91
S		Jivitesh SINGH	75, 79, 82-83
SriniVas SADDA	15, 40, 45, 47	Pallavi SINGH	60-61
Syed SAIFUDEEN ADEEL	82	Ramandeep SINGH	71, 74, 82-83
Tajji SAKAMOTO	14, 40, 46, 48-49, 65	Rita S. SITORUS	66
Withawat SAPTHANAKORN	73	Premala Devi SIVAGURUNATHAN	71
David SARRAF	48	Jayson SO	79
Shoichiro SATO	69	Takahiro SOGAWA	58, 75
Mst. SAYEDATUNNESSA	69, 79-80, 82	Elliott SOHN	45, 48, 50
Sagnik SEN	78	Thanapong SOMKIJRUNGROJ	44
Vinit SHAH	82	Minlu SONG	68
Chenli SHAN	74	Wenjun SONG	80
Sanjita SHARMA	72, 79	Yanping SONG	11, 62, 70
Suryaprakash SHARMA	82	Youngseok SONG	16, 40
Maliha SHARMIN	70	Zongming SONG	11, 64, 71
Shaila SHARMIN	67	Koh-Hei SONODA	15, 51
Haicheng SHE	11	Shozo SONODA	65
Jieting SHE	63	Eric SOUIED	70
Xiangjun SHE	61	Rick SPAIDE	13
Abul SHEIKH	69, 80-81	Parinya SRIHATRAI	59
Lijun SHEN	11, 71	Giovanni STAURENGHI	15, 40, 45
Xi SHEN	11	Guanfang SU	11, 17, 73
Yinchen SHEN	74		
Long SHI	63, 73		

- | | | | |
|----------------------------|---|----------------------------|--------------------|
| Kunyi SU | 61, 67 | Yong TAO | 51 |
| Yongyue SU | 74 | Kelvin Yi Chong TEO | 16, 47 |
| Yu SU | 67 | Yasuhiro TERANO | 69 |
| Aditya SUDHALKAR | 16, 43 | Hiroko TERASAKI | 10, 14, 16, 44 |
| Ruifang SUI | 16, 42 | Hiroto TERASAKI | 58-59, 65 |
| Dawei SUN | 11, 44, 91 | Akira TETSUMOTO | 76 |
| Jiao SUN | 68 | Yih-Chung THAM | 77 |
| Xiaodong SUN | 11-12, 17, 41, 45,
49, 67-68, 73, 90 | Raba THAPA | 72, 79 |
| Xufang SUN | 11, 74 | Daniel TING | 40, 50 |
| Yaoyao SUN | 16, 51 | Teruaki TOKHISA | 59, 77 |
| Zuhua SUN | 62 | Yuri TSUGENO | 74 |
| Supanji SUPANJI | 68, 75 | Akitaka TSUJIKAWA | 60 |
| Pradeep SUSVAR | 82 | Adnan TUFAIL | 45, 50 |
| Barsha SUWAL | 79 | Sai TUN | 77 |
| Robert SYMONS | 44 | Mudit TYAGI | 63-64 |
|
 | | | |
| T | | U | |
| Faisal T. T. | 74 | Harvey UY | 10, 14, 16, 42, 80 |
| Hitoshi TABUCHI | 75, 78 | | |
| Wan Dien TAI | 72-73 | W | |
| Seiji TAKAGI | 81 | Sorako WAKUGAWA | 66 |
| Arisa TAKAHASHI | 77 | Guangming WAN | 11 |
| Masayo TAKAHASHI | 81 | Wenjuan WAN | 82 |
| Tamaki TAMASHIRO | 66 | Changguan WANG | 14, 43 |
| Anna TAN | 51 | Fang WANG | 11, 75, 77 |
| Colin TAN | 16, 67, 69 | Fenghua WANG | 15, 46, 67-68, 78 |
| Gavin TAN | 42 | Haiyan WANG | 61-62 |
| Nicholas TAN | 77 | Jialin WANG | 68, 78 |
| Shin TANAKA | 51 | Jiantao WANG | 63 |
| Luosheng TANG | 11, 17 | Jun WANG | 65 |
| Shibo TANG | 15, 48 | Kai WANG | 80 |
| Thada TANTISARASART | 74 | Luping WANG | 61 |

Index

Min WANG	15, 45-46, 48	Sebastian WOLF	12, 16, 40, 52
Mingjin WANG	17	Darren WONG	67
Qiyun WANG	76	Doric WONG	13, 16, 41, 43, 49
Ruikang WANG	46	Hon Seng WONG	43
Shih-Wen WANG	77	Ian WONG	16, 51, 70
Wenjuan WANG	63, 65	Raymond WONG	16, 49
Xian WANG	11	Sui Chien WONG	14, 41
Xiangning WANG	61	Tien-Yin WONG	10, 13, 47, 52, 77
Xin WANG	65	Chan WU	71
Xingrong WANG	11, 66, 70, 75	Derek WU	50
Yanling WANG	11, 65, 68, 78	Hong WU	73
Yong WANG	76	Jianhua WU	59
Yuelin WANG	61	Lihteh WU	15
Yusheng WANG	11-12, 17, 41	Miaoqin WU	71
Yuwei WANG	63, 65	Nan WU	73
Zhijun WANG	49	Peipei WU	78
Firman WARDHANA	68	Qiaowei WU	60, 64, 68
Akira WATANABE	77	Tania WU	76
Tomoyuki WATANABE	77	Wei-Chi WU	41
Dale WEBSTER	41	Yuqing WU	66, 77
Shihui WEI	66	Zhenquan WU	65
Wenbing WEI	11, 14, 17, 46, 66		
Xin WEI	77		
Yong WEI	11		
Zhang WEI	74	X	
Sarah WELCH	73	Xiaoting XI	71
Dejia WEN	64, 69	Jianping XIA	79
Feng WEN	11, 76, 78	Song XIA	65
Simin WEN	76	Ren XIANG	66
Mark WESTCOTT	73	Jun XIAO	76
Chartchai WIBHUSANAWIT	72	Ke XIAO	68
Rahayu WIDHYASTI	70	Meichun XIAO	78
Peter WIEDEMANN	14, 44	Yu XIAO	64, 68
Keven WILLIAMS	80	Yun XIAO	11
		Lindan XIE	66

- | | | | |
|-------------------------|-----------------------------------|----------------------------|-------------------------------|
| Liang XIONG | 82 | Jin YAO | 70-71 |
| Gezhi XU | 11, 17, 73-74 | Farhana YASMIN | 79 |
| Guoxing XU | 11 | Junjie YE | 64, 69, 73 |
| Haifeng XU | 11, 78 | Young Do YEO | 67 |
| Li XU | 79 | Zhengqin YIN | 14, 16, 42 |
| Quangang XU | 66 | Wilson YIP | 76 |
| Xiaolin XU | 46 | Mei Kwan YIU | 75 |
| Xun XU | 1, 4, 7, 10-12, 17,
66, 74, 76 | Rachel YIU | 75 |
| Yu XU | 16 | Tae YOKOI | 69 |
| Meng XUAN | 67 | Young Hee YOON | 15-16, 44, 48, 62,
74, 78 |
| Kanmin XUE | 45 | Jong In YOU | 69 |
| | | Wang YOU | 70 |
| Y | | Alvin YOUNG | 75 |
| Reddy Y. C. | 81 | Fudong YU | 74 |
| Shuichi YAMAMOTO | 16, 42 | Honghua YU | 64, 68 |
| Kaori YAMASHITA | 77 | Huimin YU | 59 |
| Li YAN | 71 | Jian YU | 69 |
| Ming YAN | 70 | Seung-Young YU | 15, 40, 46-47, 68-
69 |
| Quan YAN | 67, 71 | Suqin YU | 11, 13, 40, 46, 54,
60, 91 |
| Yasuo YANAGI | 16, 41 | Weihong YU | 66 |
| Chang-Hao YANG | 69 | Xiaobing YU | 11 |
| Chung-May YANG | 52, 69 | Xuhui YU | 11 |
| Dawei YANG | 77 | Mingzhen YUAN | 65 |
| Fan YANG | 64 | Rongdi YUAN | 11 |
| Huasheng YANG | 66 | Songtao YUAN | 79 |
| Hui YANG | 75 | Mustafa YUSUFALI | 76 |
| Jingyuan YANG | 65-66 | | |
| Lin YANG | 76 | Z | |
| Liu YANG | 51 | Nirna Hazeera ZAHAR | 71 |
| Lu YANG | 43 | Mohamad Azlan ZAINI | 80 |
| Peizeng YANG | 11, 15, 44, 51, 82 | Huiyang ZENG | 62 |
| Xiaolu YANG | 16, 51 | | |

Index

Xianlu ZENG	60	Yun ZHANG	78
Xiaomin ZENG	64, 68	Bojun ZHAO	11, 62
Yunkao ZENG	65, 77	Jinfeng ZHAO	65
Chengyao ZHANG	76	Jinsong ZHAO	74
Feng ZHANG	11	Junyang ZHAO	46
Guoming ZHANG	11, 60, 63, 65	Long ZHAO	77
Hongbing ZHANG	11, 80	Lu ZHAO	65
Jianping ZHANG	75	Mingwei ZHAO	11-12, 17, 54
Jie ZHANG	79	Peiquan ZHAO	11, 14, 16-17, 41, 43, 47, 49, 52, 74, 83
Junjun ZHANG	13	Shuzhi ZHAO	61
Kang ZHANG	12, 50	Tieying ZHAO	59, 70
Keren ZHANG	81	Tongtao ZHAO	76
Lanlan ZHANG	80	Xiujuan ZHAO	53
Liang ZHANG	77	Chuanzhen ZHENG	64
Lina ZHANG	79	Xiufeng ZHONG	61
Longli ZHANG	65	Chuandi ZHOU	59
Luyi ZHANG	71	Min ZHOU	73-74
Maonian ZHANG	13, 55	Qiaoya ZHOU	77
Meixia ZHANG	11, 13, 43, 69, 73, 75	Qiong ZHOU	11
Ming ZHANG	11, 15, 43	Wenting ZHOU	80
Qi ZHANG	74	Xiangtian ZHOU	53
Shaochong ZHANG	11	Yanping ZHOU	51
Su ZHANG	68, 71	Zhaotao ZHOU	74
Xiaomeng ZHANG	73	Dan ZHU	11
Xiaomin ZHANG	51	Hong ZHU	73
Ximei ZHANG	11	Jianfeng ZHU	66, 76
Xinyu ZHANG	73	Ying ZHU	58, 80
Xinyuan ZHANG	10-11, 14, 16, 43, 48, 60, 76	Yuanfei ZHU	70
Xuedong ZHANG	11, 75	Xuenan ZHUANG	77
Ying ZHANG	79	Haidong ZOU	17, 50
Yuqing ZHANG	72		
Yu ZHANG	74		



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