SIGMA: SUMMIT FOR INNOVATION IN GLAUCOMA MANAGEMENT IN ASIA

PROGRAM AND ABSTRACT BOOK

January 10-11, 2026 · Hong Kong
GlaucomaSummitAsia.com

HKU Med School of Clinical Medicine
Department of Ophthalmology
香港大學眼科學系

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Organizers

HKU Med School of Clinical Medicine
Department of Ophthalmology
香港大學眼科學系

Established over decades, the Department of Ophthalmology, School of Clinical Medicine, The University of Hong Kong is dedicated to the integrated mission of clinical service, research, and education. Its clinical work, primarily delivered at the HKU Eye Centre, Grantham Hospital, Gleneagles Hospital Hong Kong and Queen Mary Hospital offer comprehensive, sub-specialized care across the entire spectrum of eye diseases, including cataract, glaucoma and retinal conditions, utilizing the latest technologies for superior patient outcomes.

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Program at a Glance

Saturday
January 10, 2026

08:30 – 09:00
Registration/Badge collecting

09:00 – 09:10
Welcome + introduction

09:10 – 10:55
Session 1: The Cutting Edge—Surgical Innovations In Glaucoma

10:55 – 11:15
Coffee Break and E-poster Presentation

11:15 – 12:15
Session 2: New medications and Laser Therapies for Glaucoma

12:15 – 13:30
Lunch Break

13:30 – 15:00
Session 3: Diagnostics and Laser Therapies

15:00 – 15:20
Coffee Break and E-poster Presentation

15:20 – 16:20
Session 4: ROUNDTABLE: How AI is Improving Care for the Glaucoma Patient

16:20 – 17:44
Rapid Fire Session

Sunday
January 11, 2026

08:30 – 09:00
Registration/Badge collecting

09:00 – 09:10
Welcome + introduction

09:10 – 11:10
Session 5: Beyond IOP—How Can We Provide Help to the Optic Nerve

11:10 – 11:30
Coffee Break and E-poster Presentation

11:30 – 12:40
Session 6: Fresh from the Industry

Program

Saturday, January 10, 2026

08:30 – 09:00
Registration/Badge collecting

09:00 – 09:10
Welcome + introduction
Christopher Leung (HK), Shan Lin (US), Simon Bakker (Netherlands)

Session 1: The Cutting Edge—Surgical Innovations In Glaucoma

Moderators: Shan Lin (US), Kaweh Mansouri (Switzerland)

09:10 – 09:25
The Latest MIGS Targeting the Meshwork (iStent Hydrus)
Visanee Tantisevi (Thailand)

09:25 – 09:40
How MIGS Change the Landscape of Angle-Closure Glaucoma Surgery
Xiulan Zhang (PR China)

09:40 – 09:55
Refractory Glaucoma – Glaucoma Surgery Using the New Devices
Poemen Chan (HKSAR)

09:55 – 10:10
Minimally Invasive Bleb Surgeries (PreserFlo, XEN, etc)— Better than Trab?
Tina Wong (Singapore)

10:10 – 10:25
In Development: Future MIGS in the Pipeline
Kaweh Mansouri (Switzerland)

10:25 – 10:40
Suprachoroidal Shunts (iSTAR MINIject, AlloFlo, Ciliatech)
Shan Lin (US)

10:40 – 10:55
Panel + Q&A

10:55 – 11:15
Coffee Break and E-poster Presentation

Session 2: New medications and Laser Therapies for Glaucoma

Moderator: Tina Wong (Singapore)

11:15 – 11:30
The Future of Lasers in Glaucoma
Bryan Ang (Singapore)

11:30 – 11:45
Episcleral Venous Pressure—Relieving the Pressure Downstream (or Dropping the Floor on IOP)
Shan Lin (US)

11:45 – 12:00
Update on New Drug Delivery Technology
Tina Wong (Singapore)

12:00 – 12:15
Panel + Q&A

12:15 – 13:30
Lunch Break

Session 3: Diagnostics and Laser Therapies

Moderator: Bryan Ang (Singapore)

13:30 – 13:45
Cutting Edge OCT Technology for Diagnostics and Therapeutics
Hao Zhang (US)

13:45 – 14:00
Genetic Testing in Glaucoma
Tin Aung (Singapore)

14:00 – 14:15
Enhanced Glaucoma Detection with OCT Using ROTA Technology
Christopher Leung (HKSAR)

14:15 – 14:30
How to diagnose and monitor glaucoma in highly myopic eyes
Ki Ho Park (Korea)

14:30 – 14:45
Perspectives on When and Where Laser Applies to Angle Closure?
Clement Tham (HKSAR)

14:45 – 15:00
Panel + Q&A

15:00 – 15:20
Coffee Break and E-poster Presentation

Session 4: ROUNDTABLE: How AI is Improving Care for the Glaucoma Patient

Moderators: Christopher Leung (HKSAR), Shan Lin (US)

15:20 – 16:20
Panel + Q&A

Rapid Fire Session (Oral Presentations)

Moderator: Christopher Leung (HKSAR), Shan Lin (US)

16:20 – 17:44
Panel + Q&A (see details)

Sunday, January 11, 2026

08:30 – 09:00
Registration/Badge collecting

09:00 – 09:10
Welcome + introduction
Organizing Committee and Moderators of the Day

Session 5: Beyond IOP—How Can We Provide Help to the Optic Nerve

Moderators: Christopher Leung (HKSAR), Shan Lin (US)

09:10 – 09:25
Neuroprotection—Real Talk about Where We Are
Jonathan Crowston (Australia)

09:25 – 09:40
Pie in the Sky—Very Novel Approaches to Protecting Our Nerve
Keith Martin (Australia)

09:40 – 09:55
Nicotinamide—What Form and How Much
Christopher Leung (HKSAR)

09:55 – 10:10
Stem Cells for Glaucoma—How Can We Get Through the Roadblocks?
Keith Martin (Australia)

10:10 – 10:25
Alternative Approaches to Fixing the IOP and Nerve
Jonathan Crowston (Australia)

10:25 – 10:40
Electrify the Optic Nerve?
Shan Lin (US)

10:40 – 11:10

Roundtable On Neuroprotection

Moderators: Christopher Leung (HKSAR), Shan Lin (US)

11:10 – 11:30

Coffee Break and E-poster Presentation

Session 6: Fresh from the Industry

Moderators: Christopher Leung (HKSAR), Shan Lin (US), Keith Barton (UK)

11:30 – 11:45

The PAUL implant: Latest Data and Methods

Keith Barton (UK)

11:45 – 12:00

Remote IOP Sensors: From the Surface to Deep Inside

Kaweh Mansouri (Switzerland)

12:00 – 12:15

Advancing Glaucoma Detection With Multimodal Triton Analysis: Hood Report, Glaucoma Report & Anterior Chamber Metrics

Laura Su (Topcon)

12:15 – 12:30

Introducing ELIOS: The First Clinically Validated Excimer Laser MIGS

Cameron Hudson (UK)

12:30 – 12:40

Panel + Q&A

Faculty

Program Committee

Christopher Leung, MD

HKSAR

Department Chairperson and Clinical Professor, Department of Ophthalmology, The University of Hong Kong; Albert Bing-Ching Young Professor in Ophthalmology; Director of HKU Eye Centre; Chief of Service (Ophthalmology), Queen Mary Hospital, HK; MD,MB ChB, MSc (Molecular Medicine), BMedSc, FCOphthHK, FHKAM (Ophthalmology)

Shan Lin, MD

San Francisco, CA, USA

Dr. Lin is Co-Director of Research at the Glaucoma Center of San Francisco. He graduated from UC Berkeley for his undergraduate education and achieved his medical degree at Tufts Medical School.

See Program Committee Bios

Distinguished Speakers

Bryan Ang
Singapore

Tin Aung
Singapore

Keith Barton
United Kingdom

Poemen Chan
HKSAR

Jonathan Crowston
Australia

Kaweh Mansouri
Switzerland

Keith R Martin
Australia

Ki Ho Park
South Korea

Visanee Tantisevi
Thailand

Clement C.Y. Tham
HKSAR

Tina Wong
Singapore

Hao F. Zhang
USA

Xiulan Zhang
P.R. China

See Presenters Bios

Meeting information

Location

Event Venue

1/F Board Room, Daniel & Mayce Yu Administration Wing, Faculty of Medicine Building, LKS Faculty of Medicine, HKU, 21 Sassoon Road, Pok Fu Lam.
Follow the steps below to locate the Boardroom at the HKU Faculty of Medicine.

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About SIGMA

Mission

SIGMA: Collaboration in Glaucoma – Synergy for Better Care

The SIGMA meeting aims to drive advancements in glaucoma care by uniting key stakeholders from across the field—clinicians, researchers, industry leaders, innovators, and investors. Through collaborative discussions, participants will explore the latest developments in glaucoma management and forge new partnerships that push the boundaries of treatment.

Objectives

- Provide a platform to share cutting-edge advancements in glaucoma care.
- Foster cross-sector collaboration between healthcare professionals, industry, and start-ups.
- Create opportunities for innovative solutions in glaucoma treatment through shared knowledge and technology

Target Audience

- Ophthalmologists and other eye care professionals
- Industry executives and R&D professionals in medical technology and pharmaceuticals
- Start-up innovators and entrepreneurs in healthcare
- Investors in medical technology and drug development

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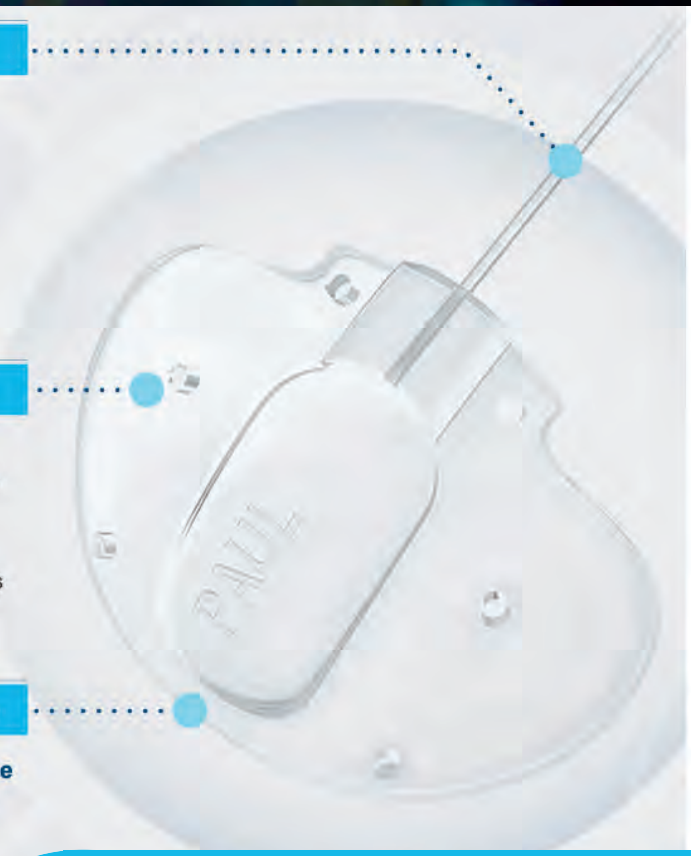

PAUL® Symposium

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By Professor Keith Barton

Moorfields Eye Hospital, London

11 Jan, 11:30am (Talk 26)

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Abstracts

Advances in Glaucoma Diagnostics

Preliminary Analysis of Risk Factors for Retinal Nerve Fiber Layer Defects in a Population-Based Cohort (ID: 32)

Lam Pui Ki[1]

[1]The University of Hong Kong

AISeqROTA: A Deep Learning Model to Detect Progressive Axonal Fiber Bundles Loss in Glaucoma (ID: 31)

Yawen Guo[1], Xu Yan[1], Tsz-Tat Hung[1], Alexander Lam[1], Christopher Kai-Shun Leung[1]

[1]The University of Hong Kong

Advancing Fundus-Based Retinal Representations Through Multi-Modal Contrastive Pre-training for Detection of Glaucoma-Related Diseases (ID: 30)

Tsz-Tat Hung[1], Yawen Guo[1], Xu Yan[1], Alexander Lam[1], Christopher Kai-Shun Leung[1]

[1]The University of Hong Kong

Retinal Nerve Fiber Layer Optical Texture Signature as a Novel Biomarker for Detection of Glaucoma Progression (ID: 25)

Gilda Wing-Ki Lai[1], Christopher Kai-Shun Leung[1]

[1]The University of Hong Kong

AlphaFold3-Derived Structural Models of Cell Adhesion and Extracellular Matrix Proteins in Glaucoma-Associated Axonal Damage (ID: 24)

WU Yonglin[1]

[1]The University of Hong Kong

Plasma proteome of glaucomatous retinal nerve fiber layer (RNFL) defect on RNFL optical texture analysis (ROTA): A preliminary study from the UK Biobank (ID: 20)

Rachel Leung[1], William Yonglin Wu[1], Christopher Kai-Shun Leung[1], Alexander Lam[1], Anthony Khawaja[2], Louis R. Pasquale[3]

[1]The University of Hong Kong; [2]UCL Institute of Ophthalmology; [3]Mount Sinai Hospital

Generating Humphrey Visual Field Points Using Machine Learning from Previous and Current Quantitative Spectral- Domain OCT (ID: 16)

Karim Dirani[1], Justin Bennie[1], Ossama Mahmoud[1], victor tawansy[1], Daniel Blessing[1], Mark Juzych[1]

[1]Wayne State University School of Medicine

Imaging and Protection for the optic nerve

Value of ROTA in Evaluating Optic Nerve Damage in Children with Retinopathy of Prematurity (ID: 33)

Yuhang Yang[1], Philip Yawen Guo[2], Xinyu Zhao[1], Jason Xu Yan[2], Yuan Xia[1], Calvin Tsz Tat Hung[2], Guoming Zhang[1], Christopher Kai Shun Leung[2]

[1]Shenzhen Eye Hospital, Shenzhen Eye Medical Center, Southern Medical University, China; [2]Department of Ophthalmology, LKS Faculty of Medicine, The University of Hong Kong, Hong Kong, China.

Surgical Innovations in Glaucoma

Efficacy of Selective Laser Trabeculoplasty on intraocular pressure in the contralateral eye: a systematic review and meta-analysis (ID: 19)

Jingyi Sun[1], Phoebe Lam[1], William Wu[1], Rachel Leung[1]

[1]The University of Hong Kong, Department of Ophthalmology, School of Clinical Medicine

Peripheral Iridectomy with Goniosynechialysis and Goniotomy vs. Trabeculectomy for Advanced PACG: A Randomized Controlled Trial (ID: 18)

Fengbin Lin[1]

[1]Zhongshan Ophthalmic Center, Sun Yat-sen University

Other

Progressive changes in the parapapillary retinal nerve fiber layer (RNFL) in ocular hypertension (OHT) – A 5-year prospective study (ID: 29)

Ngan Wing Shan[1]

[1]The University of Hong Kong

Topographic progression analysis of retinal nerve fiber layer (RNFL) and ganglion cell inner plexiform layer (GCIPL) for predicting visual field (VF) progression in patients with ocular hypertension (OHT) (ID: 28)

Chan Shi Fung[1]

[1]The University of Hong Kong

Progressive changes in the macular ganglion cell inner plexiform layer (GCIPL) in ocular hypertension (OHT) – A 5- year prospective study (ID:27)

Chong Yuk Yee[1]

[1]The University of Hong Kong

Factors associated with the Doppler angle for blood flow measurements in Doppler OCT (ID:26)

Yubo Sun[1]

[1]The University of Hong Kong

A stretchable microfluidic platform to investigate the effect of biomechanical stimuli on RGC degeneration (ID:23)

Rachel Natalie[1], Lai Leyun[1]

[1]The University of Hong Kong

A Microfluidic Trabecular Meshwork-on-a-Chip System Mimicking Aqueous Outflow for Preclinical Glaucoma Research (ID:22)

Xiangyu Gao[1], Yau Kei Chan[1]

[1]The University of Hong Kong

Pulsatile intraocular pressure as a potential contributor to primary retinal ganglion cell degeneration (ID:21)

Qinyu Li[1]

[1]The University of Hong Kong

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References
1. Batlle JF et al. J Glaucoma. 2021;30(3):281-286.
2. Baker ND et al. Ophthalmology. 2021;128(12):1710-1721.
3. Beckers HJM et al. Ophthalmol Glaucoma. 2022;5(2):195-209.

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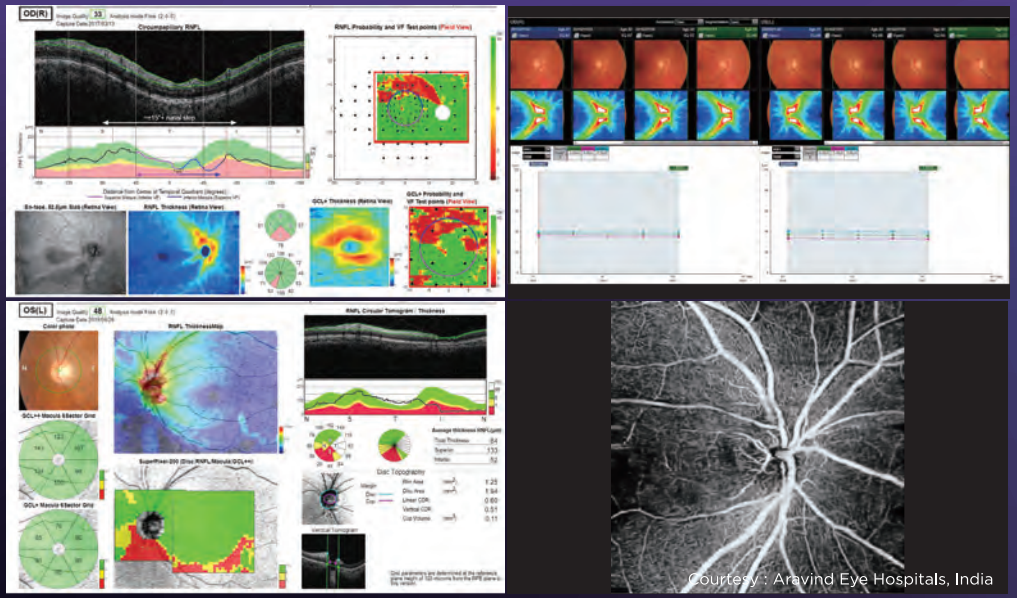

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