



# 2019 PROGRAM

**RWC UNPLUGGED\* | 7:30 am – 12:00 pm**

**Program Chairs: Pravin U. Dugel, MD; Peter K. Kaiser, MD; Baruch D. Kuppermann, MD, PhD**

## Continental Breakfast

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|---------------------|---|
| 7:00 am – 7:30 am   | Continental Breakfast in the Grand Ballroom   |
| 7:30 am – 7:35 am   | Welcome & Introduction<br>Program Chairs: Pravin U. Dugel, MD; Peter K. Kaiser, MD; Baruch D. Kuppermann, MD, PhD   |
| 7:35 am – 7:50 am   | Keynote Lecture: Building a Platform Gene Therapy Company: The Last 10 Years<br>Ken Mills   |
| 7:50 am – 7:55 am   | Questions & Answers   |
| 7:56 am – 8:19 am   | Panel Discussion: Next Generation Anti-VEGF<br>Moderator: Pravin U. Dugel, MD<br>Panelists: Yan Cheng, MD, PhD; Tarek S. Hassan, MD; Ken Mills; Victor Perloth, MD<br>Carl Romano, PhD; Andrew Stewart  |
| 8:20 am – 8:43 am   | Panel Discussion: New Pathways in Retinal Diseases: AMD<br>Moderator: Peter K. Kaiser, MD<br>Panelists: David R. Chow, MD, FRCSC; D. Scott Edwards, PhD; Andrea Gibson, PhD;<br>William Greene, MD; Charles P. Semba, MD FACC, FACR   |
| 8:43 am – 8:48 am   | Future Management of Diabetic Macular Edema<br>Michael S. Ip, MD  |
| 8:48 am – 9:08 am   | Panel Discussion: New Pathways in Retinal Diseases: Diabetes<br>Moderator: Baruch D. Kuppermann, MD, PhD<br>Panelists: Remko Bakker; Jean Feyen, PhD; Theresa G. H. Heah, MD, MBA; Stephen Hoffman, MD, PhD; Michael S. Ip, MD; Hampar Karageozian, MSc, MBA; Brian Levy, OD; Riad Sherif, MD |
| 9:08 am – 9:23 am   | Keynote Lecture: Treatment vs. Cures: An FDA Perspective<br>Wiley Chambers, MD  |
| 9:23 am – 9:28 am   | Questions & Answers   |
| 9:28 am – 9:38 am   | Break   |
| 9:38 am – 9:43 am   | Update on Future Treatments for Dry AMD<br>Sophie J. Bakri, MD  |
| 9:43 am – 10:03 am  | Panel Discussion: Dry AMD Treatment<br>Moderator: Peter K. Kaiser, MD<br>Panelists: Sophie Bakri, MD; Jay S. Duker, MD; Reenie McCarthy; Ramiro Ribeiro, MD, PhD  |
| 10:04 am – 10:27 am | Panel Discussion: Gene and Cell Therapy   |

Moderator: Pravin U. Dugel, MD  
Panelists: Eddy Anglade, MD; Richard L. Beckman, MD; Paul Bresge; Wiley Chambers, MD; Mehdi Gasmi, PhD; Amir H. Kashani, MD, PhD; Ram Palanki, PharmD; Keith Westby, MBA

- 10:28 am – 10:43 am Keynote Lecture: Investor Perspective  
Eliot Lazar, MD, MS, MBA
- 10:43 am – 10:48 am Questions & Answers
- 10:49 am – 10:54 am Emerging Therapies in Uveitis  
Sumit Sharma, MD
- 10:54 am – 11:09 am Panel Discussion: New Therapies in Uveitis  
Moderator: Baruch D. Kuppermann, MD, PhD  
Panelists: Francine Behar-Cohen, MD, PhD; Nancy Lurker; Wendy Naimark, PhD; Baldo Scassellati Sforzolini, MD, PhD, MBA; Sumit Sharma, MD; Daniel White
- 11:10 am – 11:28 am Panel Discussion: Changing Landscape of the Retina Practice and How it will Affect Drugs  
Moderator: Pravin U. Dugel, MD  
Panelists: Robert L. Avery, MD; Dixon Davis, MBA, MHA; Eliot Lazar, MD, MS, MBA; Scott C. Upton
- 11:29 am – 11:44 am Keynote Lecture: Large Pharma Perspective  
Joseph C. Papa
- 11:44 am – 11:50 am Questions & Answers
- 11:50 am RWC Unplugged Adjourns

\*This portion of Retina World Congress 2019 is not approved for *AMA PRA Category 1 Credit(s)*<sup>™</sup>.

## Official Start of the Meeting

### INDUSTRY EXPERT THEATER LUNCH\*\* | 12:00 pm – 1:00 pm

- 12:00 pm – 1:00 pm Fluid and Retina: Where Do We Draw the Line? A Presentation of Different Perspectives  
*Sponsored by Novartis*  
\*\*This portion of the meeting is not approved for *AMA PRA Category 1 Credit(s)*<sup>™</sup> and is neither provided by nor endorsed by Retina World Congress 2019 or its accredited provider.

### GENERAL SESSIONS | 1:00 pm – 5:30 pm

#### Welcome

- 1:00 pm – 1:15 pm Welcome  
Rishi P. Singh, MD

#### Ocular Oncology

Session Chairs: Rubens N. Belfort, MD, PhD; J. William Harbour, MD

- 1:15 pm – 1:18 pm Pretest

Rubens N. Belfort, MD, PhD

- 1:18 pm – 1:25 pm Management of High-risk Choroidal Melanoma  
Carol L. Shields, MD
- 1:25 pm – 1:32 pm Invisible Tumors or Giant Iris Melanocyte  
Jerry A. Shields, MD
- 1:32 pm – 1:39 pm Using Imaging to Help Diagnose Ocular Tumors  
Rubens N. Belfort, MD, PhD
- 1:39 pm – 1:46 pm Anti-VEGF Therapy for Radiation Retinopathy  
Prithvi Mruthyunjaya, MD, MHS
- 1:46 pm – 1:53 pm Choroidal Nevus Risk Factors: Weighted Relevance Based on Molecular Prognostication  
J. William Harbour, MD
- 1:53 pm – 2:00 pm The Expanding Use of Ophthalmic Artery Chemosurgery  
Timothy G. Murray, MD, MBA, FACS
- 2:00 pm – 2:07 pm Future Therapeutics for Ocular Oncology  
Arun D. Singh, MD
- 2:07 pm – 2:10 pm Posttest  
Arun D. Singh, MD
- 2:10 pm – 2:30 pm Panel Discussion: Surgical and Medical Management of Ocular Oncology Case  
Moderator: Arun D. Singh, MD  
Panelists: Prithvi Mruthyunjaya, MD, MHS; Timothy G. Murray, MD, MBA, FACS;  
Eduardo B. Rodrigues, MD; Carol L. Shields, MD; Jerry A. Shields, MD

### **Macular Surgery**

**Session Chairs: André V. Gomes, MD, PhD; Tarek S. Hassan, MD; Virgilio Morales-Canton, MD**

- 2:35 pm – 2:38 pm Pretest  
Tarek S. Hassan, MD
- 2:38 pm – 2:45 pm Ectopic Inner Foveal Layers in ERMs, Surgical Results  
Andrea Govetto, MD, PhD
- 2:45 pm – 2:52 pm Submacular Irrigation for Large Macular Holes  
Mario J. Saravia, MD, PhD
- 2:52 pm – 2:59 pm Development of a Deep Learning System for Digitally Enhanced Internal Limiting Membrane Peeling  
Kazuaki Kadonosono, MD, PhD
- 2:59 pm – 3:06 pm Approach to Lamellar Macular Hole Repair  
Yuki Morizane, MD, PhD
- 3:06 pm – 3:13 pm Inverted ILM Flap Techniques and Indications  
Jerzy Nawrocki, MD, PhD

3:13 pm – 3:20 pm      Observational Management of Idiopathic ERMs in Patients with Good Initial VA: One Year Follow-up  
Harry W. Flynn Jr., MD

3:20 pm – 3:27 pm      Autologous Tissue Transplantation for Macular Holes  
Tamer H. Mahmoud, MD, PhD

3:27 pm – 3:34 pm      Surgical Management of AMD in Anti-VEGF Era  
Cesare Mariotti, MD

3:34 pm – 3:41 pm      Optic Pits  
Leandro C. Zacharias, MD, PhD

3:41 pm – 3:48 pm      Managing Myopic Foveoschisis: Surgery or Observation  
Yusuke Oshima, MD, PhD

#### **Abstract Winners**

3:48 pm – 3:51 pm      Comparison of Clinical Outcomes Between ‘Heads-up’ 3D Viewing System and Conventional Microscope in Macular Hole Surgeries  
Nasiq Hasan, MD

3:51 pm – 3:54 pm      Disorganization of Retinal Inner Layers as a Biomarker for Idiopathic Epiretinal Membrane After Macular Surgery: The DREAM Study  
Dinah Zur, MD

3:54 pm – 3:57 pm      Autologous Transplantation of the Internal Limiting Membrane Flaps for Myopic Macular Hole  
Ashraf Shaarawy, MD

3:57 pm – 4:20 pm      Panel Discussion: Macular Surgery  
Moderator: Gaurav K. Shah, MD  
Panelists: Ernesto Bali, MD; Francesco Boscia, MD; Niels Crama, MD, FEBO; Francesco Faraldi, MD; Faisal Fayyad, MD; Nelson A. Sabrosa, MD, PhD; Mahmoud M. Soliman, MD

#### **Medical Retina: Retinal Vein Occlusion**

**Session Chairs: Arturo Alezandrini, MD, PhD; Baruch D. Kuppermann, MD, PhD; Jorge C. P. Rocha, MD, PhD**

4:25 pm – 4:28 pm      Pretest  
Arturo Alezandrini, MD, PhD

4:28 pm – 4:35 pm      Effect of Anti-VEGF and Steroids Treatment on Retinal Non-perfusion  
Jorge C.P. Rocha, MD, PhD

4:35 pm – 4:42 pm      SCORE-2 Results and Implications to Clinical Practice  
Michael S. Ip, MD

4:42 pm – 4:49 pm      Addressing RVO with Corticosteroids  
Baruch D. Kuppermann, MD, PhD

#### **Abstract Winners**

4:49 pm – 4:52 pm      Intravitreal Anti-VEGF Injections Followed by Transitory Central Retinal Artery Occlusion; Specific Points Analyzing a Rare Adverse Event: A Case Series Study  
Nadyr A. Damasceno, MD, PhD

- 4:52 pm – 4:55 pm Use of Optical Coherence Tomography Angiography Capillary Perfusion Density Measurements to Detect and Grade Macular Ischemia  
Amy Babiuch, MD
- 4:55 pm – 4:58 pm Effect of Funding Source on Reporting Bias in Studies of Intravitreal Anti-vascular Endothelial Growth Factor Therapy for Retinal Vein Occlusion  
Michael Venincasa, MD
- 4:58 pm – 5:01 pm Increased Inner Retinal Layer Reflectivity in Eyes with Acute CRVO Correlates with Worse Visual Outcomes at 12 Months  
Yasha Modi, MD

#### Panel Discussion

- 5:06 pm – 5:30 pm Medical Retina: Retinal Vein Occlusion  
Moderator: Marcio B. Nehemy, MD, PhD  
Panelists: Joaquin Bafalluy, MD; Andres Bastien, MD; Magno A. Ferreira, MD, MsC, MBA, PhD; Sharon Fekrat, MD, FACS; Francisco J. Rodriguez, MD; Marcelo Zas, MD, PhD

#### WELCOME RECEPTION\* | 6:00 pm – 7:30 pm

- 6:00 pm – 7:30 pm Join us the first night of the meeting as we welcome more than 1,000 faculty and attendees to Retina World Congress 2019. Take this opportunity to network one-on-one with colleagues while everyone enjoys light appetizers and drinks.  
\*This portion of the meeting is not approved for *AMA PRA Category 1 Credit(s)*<sup>™</sup>.

## Friday, March 22, 2019

#### GENERAL SESSIONS | 8:00 am – 11:45 am

##### Welcome

- 8:00 am – 8:10 am Announcements and Pretest  
Rishi P. Singh, MD

##### Surgical Technology

Session Chairs: David R. Chow, MD, FRCSC; Rishi P. Singh, MD

- 8:10 am – 8:17 am Hybrid Wide-angle Viewing and Endoscopic Vitrectomy Using a 3D Visualization System  
Mihori Kita, MD, PhD
- 8:17 am – 8:24 am Science of 3D Visualization Systems  
David R. Chow, MD, FRCSC
- 8:24 am – 8:31 am Advancements in Visualization in VR Surgery  
Khalid Sabti, MD, FRCSC

##### Abstract Winner

- 8:31 am – 8:34 am Innovative Solutions for HD/4k Surgical Video Recording Using Commercial Mirror-less Cameras  
Raju Sampangi, MD

### **Panel Discussion**

8:35 am – 8:55 am      Instrumentation in the OR  
Moderator: David R. Chow, MD, FRCSC  
Panelists: Carl C. Awh, MD; Faisal Fayyad, MD; Stratos Gotzaridis, MD; John W. Kitchens, MD

### **Retinal Detachment Surgery**

**Session Chairs: Ehab N. El Rayes, MD, PhD; Kourous A. Rezaei, MD; Stanislao Rizzo, MD**

9:00 am – 9:07 am      Temporal Keratoprosthesis and Vitrectomy  
Andres Bastien, MD

9:07 am – 9:14 am      Chandelier Illumination for Scleral Buckling  
Nur Acar Gocgil, MD, Prof, FEBO

9:14 am – 9:21 am      Managing Macular Folds in Infants  
Ehab N. El Rayes, MD, PhD

9:21 am – 9:28 am      Repairing Retinal Detachments: Do We Really Need Gas?  
Ernesto Bali, MD

9:28 am – 9:35 am      Retinal Detachment from Macular Hole  
Marcio B. Nehemy, MD, PhD

9:35 am – 9:42 am      ILM Peeling During Retinal Detachment Surgery: Is It Necessary?  
Ezequiel Rosendi, MD

### **Abstract Winners**

9:42 am – 9:45 am      Seasonal Variation in the Occurrence of Rhegmatogenous Retinal Detachment in Korea: A Three-year Nationwide Study of the Korean Population  
Sung Soo Kim, MD

9:45 am – 9:48 am      Reabsorption of Acquired Vitelliform Lesions Due to Vitreomacular Traction Syndrome  
Gürsel Yilmaz, MD, FACS, FEBO

9:48 am – 9:51 am      "Cell Therapy" Clinics for Retinal Conditions in the USA: Assessing Direct-to-Consumer Marketing  
Rajinder Nirwan, MD

### **Refreshment Break**

9:51 am – 10:25 am      Refreshments in the Exhibit Hall

### **Imaging**

**Session Chairs: Peter K. Kaiser, MD; Taiji Sakamoto, MD, PhD; Lihteh Wu, MD**

10:25 am – 10:30 am      Pretest  
Peter K. Kaiser, MD

10:30 am – 10:37 am      Optical Coherence Tomography Angiography in Pediatric Patients  
Lejla Vajzovic, MD

10:37 am – 10:44 am      Angiogenic Biomarkers in Neovascular AMD  
Luiz H. Lima, MD

- 10:44 am – 10:51 am Quantitative Comparison of UWF Imaging Devices  
Ajay E. Kuriyan, MD, MS
- 10:51 am – 10:58 am How Optical Coherence Tomography Angiography Changes My Practice  
Miho Nozaki, MD, PhD
- 10:58 am – 11:05 am Agreement Between OCT Angiography and FA/ICG in Neovascular AMD  
Nadia K. Waheed, MD, MPH
- 11:05 am – 11:12 am OCT Angiography in CNV: Are There Parameters That Predict Anti-VEGF Treatment Frequency?  
Amani A. Fawzi, MD
- 11:12 am – 11:19 am Multimodal Imaging in Polypoidal Choroidovasculopathy  
Seung-Young Yu, MD, PhD
- 11:19 am – 11:26 am Comparison of Ultra-widefield Imaging Devices  
Claudia P. Acosta, MD

#### Panel Discussion

- 11:30 am – 11:50 am Imaging  
Moderator: Jay S. Duker, MD  
Panelists: Claudia P. Acosta, MD; Gemmy Cheung, MD; Andre Romano, MD; Richard B. Rosen, MD, ScD (Hon), FACS, FASRS, CRA; Nadia K. Waheed, MD, MPH

#### INDUSTRY EXPERT THEATER LUNCH\*\* | 12:00 pm – 1:00 pm

- 12:00 pm – 1:00 pm Diabetic Retinopathy Management – A Multidisciplinary Discussion  
*Sponsored by Genentech*  
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#### GENERAL SESSIONS | 1:15 pm – 6:30 pm

##### Imaging (*Continued*)

**Session Chairs: Peter K. Kaiser, MD; Taiji Sakamoto, MD, PhD; Lihteh Wu, MD**

- 1:15 pm – 1:18 pm Pretest  
Peter K. Kaiser, MD
- 1:18 pm – 1:25 pm Adaptive Optics Imaging in a Retina Practice  
Mina M. Chung, MD
- 1:25 pm – 1:32 pm Ultra-widefield Imaging and Diabetic Retinopathy  
Justis P. Ehlers, MD
- 1:32 pm – 1:39 pm Ultra-widefield OCTA and Retinal Vein Occlusion  
Kasra A. Rezaei, MD
- 1:39 pm – 1:46 pm Classification and Guidelines for Wide Field Imaging: Recommendations from the International Wide Field Imaging Study Group  
Netan Choudhry, MD, FRCSC, DABO
- 1:46 pm – 1:53 pm Multimodal Retinal Imaging for Alzheimer's Disease

Sharon Fekrat, MD, FACS

1:53 pm – 2:00 pm Mac Tel 2: A Multimodal Imaging Journey  
Lihteh Wu, MD

2:00 pm – 2:07 pm Artificial Intelligence and Choroidal Imaging  
Taiji Sakamoto, MD, PhD

**Abstract Winners**

2:07 pm – 2:10 pm Higher Order OCT Analysis for Features Associated with Functional Outcomes in the VISTA-DME Study  
Atsuro Uchida, MD

2:10 pm – 2:13 pm Optical Coherence Tomography Angiography Findings in Chronic Central Serous Choroidopathy after Photodynamic Therapy  
Ruwan Amila Silva, MD

2:13 pm – 2:15 pm Posttest  
Peter K. Kaiser, MD

**Age-related Macular Degeneration**

**Session Chairs: André V. Gomes, MD, PhD; Rishi P. Singh, MD**

2:20 pm – 2:23 pm Pretest  
Rishi P. Singh, MD

2:23 pm – 2:30 pm AMD, Genetic Testing and AREDS Supplements  
Carl C. Awh, MD

2:30 pm – 2:37 pm Prevention of Exudative AMD in High Risk Eyes  
Sumit P. Shah, MD, FACS

2:37 pm – 2:44 pm Geographic Atrophy Associated with AMD, Incidence and Factors Influencing Growth Rate  
Nancy M. Holekamp, MD

2:44 pm – 2:51 pm C3 Complement Inhibition for the Reduction of Growth in Geographic Atrophy  
Nathan C. Steinle, MD

2:51 pm – 2:58 pm Brimonidine for Geographic Atrophy Secondary to Age-related Macular Degeneration  
Raj K. Maturi, MD

2:58 pm – 3:05 pm Gene Therapy for Dry AMD  
Elias Reichel, MD

3:05 pm – 3:12 pm Emerging Therapies on Dry AMD  
Paolo Lanzetta, MD

3:12 pm – 3:19 pm Evaluating the Social Costs of Blindness from AMD  
Andrew A. Moshfeghi, MD, MBA

3:19 pm – 3:26 pm Real-world Anti-VEGF Treatment for AMD  
Patricio G. Schlottmann, MD



3:26 pm – 3:30 pm Posttest  
Rishi P. Singh, MD

**Refreshment Break**

3:30 pm – 3:50 pm Refreshments in the Exhibit Hall

**Age-related Macular Degeneration (Continued)**

**Session Chairs: André V. Gomes, MD, PhD; Rishi P. Singh, MD**

3:50 pm – 3:52 pm Pretest  
Rishi P. Singh, MD

3:52 pm – 3:59 pm Angiopoietin Pathway in Neovascular Diseases  
Peter K. Kaiser, MD

3:59 pm – 4:06 pm Anti-VEGF/Anti-Angiopoietin-2 Bispecific Antibody RG7716 in Exudative AMD  
Carl D. Regillo, MD, FACS

4:06 pm – 4:13 pm Treat and Extend Regimens for Exudative AMD  
Alexandre A. Ventura, MD, PhD

4:13 pm – 4:20 pm A Comparison of Brolucizumab and Aflibercept in Neovascular Age-related Macular Degeneration: Important Subanalyses  
Pravin U. Dugel, MD

4:20 pm – 4:27 pm Association Between Early Vision-related Quality of Life Outcomes and Anatomic Dryness Response in Neovascular Age-related Macular Degeneration (nAMD)  
David A. Eichenbaum, MD

4:27 pm – 4:34 pm Emerging Therapies for Exudative AMD  
David S. Boyer, MD

**Abstract Winners**

4:38 pm – 4:41 pm Brolucizumab for Neovascular AMD: The 2-year HAWK and HARRIER Results  
Peter K. Kaiser, MD

4:41 pm – 4:44 pm Evaluating Efficacy of Autologous Bone Marrow Derived Stem Cells in the Treatment of Dry Age-related Macular Degeneration  
Harpreet Narde, MD

4:44 pm – 4:47 pm Macular Atrophy in Anti-VEGF Treated Neo-vascular AMD: Incidence and Risk Factors  
João Pedro Marques, MD, Msc

4:47 pm – 4:50 pm PDT Associated with Anti-VEGF in Refractory Cases of Subretinal Membranes Only Treated with Anti-VEGF  
Jorge Mitre, MD

4:50 pm – 4:53 pm Efficacy and Safety of Brimonidine DDS for Geographic Atrophy Secondary to Age-related Macular Degeneration: BEACON Phase 2b Clinical Results  
Sunir J. Garg, MD, FACS

**Panel Discussion**

4:55 pm – 5:15 pm Age-related Macular Degeneration  
Moderator: Sunir J. Garg, MD, FACS  
Panelists: Panelists: Remzi Avci, MD Paolo Lanzetta, MD; Luiz H. Lima, MD; Carl D. Regillo, MD, FACS; Elias Reichel, MD; Richard B. Rosen, MD, ScD (Hon), FACS, FASRS, CRA

### **Diabetic Vitrectomy**

**Session Chairs: Sundaram Natarajan, MD; Kourous A. Rezaei, MD**

5:19 pm – 5:22 pm Pretest  
Kourous A. Rezaei, MD

5:22 pm – 5:29 pm Intravitreal Anti-VEGF as an Adjunct to Vitrectomy Surgery for Diabetic Tractional Retinal Detachment  
J. Fernando Arevalo, MD, FACS

5:29 pm – 5:36 pm Role of Patient Compliance in the Development of Sight Threatening Diabetic Retinopathy  
Shwu-Jiuan Sheu, MD

5:36 pm – 5:43 pm All-probe Vitrectomy Dissection Techniques for Diabetic Tractional Retinal Detachments: Lift and Shave  
Maria H. Berrocal, MD

5:43 pm – 5:50 pm 3D Surgery for Diabetic Surgery  
Marco Mura, MD

5:50 pm – 5:57 pm Combined Maneuvers in Proliferative Diabetic Surgery  
André V. Gomes, MD, PhD

5:57 pm – 6:04 pm Steroid Drops after Vitreoretinal Surgery: Is It Time to go Drop-less?  
John S. Pollack, MD

### **Abstract Winners**

6:04 pm – 6:07 pm Early Vitrectomy in Proliferative Diabetic Retinopathy without High Risk  
Eva Dewi, MD

6:07 pm – 6:10 pm The Role of SD-OCT Defining the Posterior Vitreous Status: A Comparison with Ocular Ultrasonography  
Bernardete Pessoa, MD

6:10 pm – 6:12pm Posttest  
Kourous A. Rezaei, MD

### **Panel Discussion**

6:15 pm – 6:30 pm Diabetic Vitrectomy  
Moderator: J. Fernando Arevalo, MD, FACS  
Panelists: Remzi Avci, MD; Niels Crama, MD, FEBO; Ehab N. El Rayes, MD, PhD; Francesco Faraldi, MD; John S. Pollack, MD; Stratos Gotzaridis, MD; Marcelo Zas, MD, PhD

**Saturday, March 23, 2019**

**CME BREAKFAST PROGRAM | 7:00 am – 8:00 am**

7:00 am – 8:00 am      **Diabetic Macular Edema: The Multimodal Movement Toward Real-Life Management**  
*Supported by Allergan, Inc.*

**GENERAL SESSIONS | 8:00 am – 11:45 am**

**Welcome**

8:00 am – 8:10 am      Announcements and Pretest  
Tarek S. Hassan, MD

**Trauma and Proliferative Vitreoretinopathy Surgery**

**Session Chairs: Tarek S. Hassan, MD; Virgilio Morales-Canton, MD**

8:10 am – 8:17 am      Re-examination of the Role of Relaxing Retinotomy in PVR Detachment Repair  
Grazia Pertile, MD

8:17 am – 8:24 am      Severe Trauma Cases: Pearls and Tricks  
Carl C. Claes, MD

8:24 am – 8:31 am      Ocular Trauma: New Updates  
Sundaram Natarajan, MD

8:31 am – 8:38 am      Pharmaceutical Management of PVR  
Demetrios G. Vavvas, MD, PhD

8:38 am – 8:45 am      Is Scleral Buckling Necessary?  
Gaurav K. Shah, MD

8:45 am – 8:52 am      Management of Subretinal Perfluorocarbon Liquid  
Leonardo Bruno de Oliveira, MD

8:52 am – 8:59 am      Use Perfluorocarbon as a Tamponade Agent  
Stanislao Rizzo, MD

8:59 am – 9:06 am      Treatment of Persistent Hypotony in PVR Eyes  
Tarek S. Hassan, MD

9:06 am – 9:13 am      Strategy for the Primary PVR Surgery  
Motohiro Kamei, MD, PhD

**Abstract Winners**

9:13 am – 9:16 am      Comparative Assessment of Conventional Microscope-integrated Intraoperative OCT to Digitally-enabled  
Natalia Figueiredo, MD

9:16 am – 9:19 am      Plasma Rich in Growth Factors (PRGF) for Recurrent Macular Hole Closure: A Pilot Study  
Juan Arias, MD

9:19 am – 9:22 am      24 Eyes Presumed Cluster Noninfectious Endophthalmitis After One Day Intravitreal Injections Bevacizumab Off Label. Piura-Peru. 2017.  
Victor Alva, MD

**Panel Discussion**

9:25 am – 9:45 am      Trauma and Proliferative Vitreoretinopathy Surgery

Moderator: Nur Acar Gocgil, MD, Prof, FEBO  
Panelists: Ernesto Bali, MD; Carl C. Claes, MD; Ehab N. El Rayes, MD, PhD; Matteo Forlini, MD; Cesare Mariotti, MD; Sundaram Natarajan, MD; Stanislao Rizzo, MD; Ashraf Shaarawy, MD

**Refreshment Break**

9:45 am – 10:05 am Refreshments in the Exhibit Hall

**Medical Retina: Diabetic Macular Edema and Diabetic Retinopathy**

**Session Chairs: Ehab N. El Rayes, MD, PhD; Baruch D. Kuppermann, MD, PhD**

- 10:05 am – 10:08 am Pretest  
Ehab N. El Rayes, MD, PhD
- 10:08 am – 10:15 am Dual Approach for DME: Findings from Faricimab  
Dilsher S. Dhoot, MD
- 10:15 am – 10:22 am Identifying Eyes that will Develop Vision Threatening Retinopathy  
Patricia Udaondo, MD
- 10:22 am – 10:29 am Long-term Outcomes of Anti-VEGF Therapy for Proliferative Diabetic Retinopathy: Year 5 Protocol S Outcomes  
Jeffrey G. Gross, MD
- 10:29 am – 10:36 am The Value of Treating Non-proliferative Diabetic Retinopathy  
W. Lloyd Clark, MD
- 10:36 am – 10:43 am Suprachoroidal Drug Delivery for Diabetic Macular Edema  
Mark R. Barakat, MD
- 10:43 am – 10:50 am Matching Diabetic Choroidopathy to Retinopathy: A Classification System of OCT Findings  
Lilianne G. Duarte, MD, PgD
- 10:50 am – 10:57 am Integrin Antagonism for DME  
Hugo Quiroz-Mercado, MD
- 10:57 am – 11:04 am Is There a Place for Lasers in the Management of Retinal Vascular Disease in the Anti-VEGF Era?  
Victor H. Gonzalez, MD

**Abstract Winners**

- 11:04 am – 11:07 am Reduction in Diabetic Retinal Neurodegeneration following 0.2µg/day FAc Implant: New Evidence from the USER Study  
Alexander Eaton, MD
- 11:07 am – 11:10 am Comparative Evaluation Of ASOCT, UBM and IOP after PRP by PASCAL or Conventional Laser in DR  
Suman Iata, MD
- 11:10 am – 11:13 am Suprachoroidal CLS-TA Plus Aflibercept Compared to Aflibercept Monotherapy for Diabetic Macular Edema: Results of the Randomized Phase 2 TYBEE Trial  
Arshad Khanani, MD

- 11:13 am – 11:16 am Abnormality of Foveal Avascular Zone Correlates with the Peripheral Retinal Ischemia in Diabetic Retinopathy  
Aoi Kominami, MD
- 11:16 am – 11:19 am Multicenter International Study: Biomarkers and Predictors for Functional and Anatomic Outcomes for Small Gauge Pars Plana Vitrectomy and Peeling of the Internal Limiting Membrane in Naïve Diabetic Macular Edema: The VITAL Study  
Matias Iglicki, MD

#### Panel Discussion

- 11:25 am – 11:45 am **Medical Retina: Diabetic Macular Edema and Diabetic Retinopathy**  
Moderator: Peter K. Kaiser, MD  
Panelists: Jerzy Nawrocki, MD, PhD; Acacio Muralha Neto, MD, MBA; Nelson A. Sabrosa, MD, PhD; Vaibhav Sethi, DNB, FLVPEI, FICO; Kiyoshi Suzuma, MD; Lihteh Wu, MD

#### CME LUNCH PROGRAM | 12:00 pm – 1:00 pm

- 12:00 pm – 1:00 pm **Improving the Burden of Treatment for Age-related Macular Degeneration through Advances in Delivery**  
*Supported by Genentech, Inc.*

#### GENERAL SESSIONS | 1:15 pm – 5:30 pm

##### Controversies and Debates

**Session Chairs: David R. Chow, MD, FRCSC; Pravin U. Dugel, MD; Jorge C.P. Rocha, MD, PhD; Lihteh Wu, MD**

- 1:15 pm – 1:21 pm Is Digitally Assisted Visualization Surgery Necessary for Surgery?  
Pro: Flavio A. Rezende, MD, PhD  
Con: Raja Narayanan, MD, MBA
- 1:21 pm – 1:26 pm Questions & Answers
- 1:26 pm – 1:32 pm Are Limit Internal Membrane Flaps Necessary for Macular Hole Surgery?  
Pro: Anthanasios Nikolakopoulos, MD  
Con: John W. Kitchens, MD
- 1:32 pm – 1:37 pm Questions & Answers
- 1:37 pm – 1:43 pm Is Intraoperative OCT Ready for Prime Time?  
Pro: Susanne Binder, MD  
Con: Magno A. Ferreira, MD, MsC, MBA, PhD
- 1:43 pm – 1:48 pm Questions & Answers
- 1:48 pm – 1:54 pm Is Scleral Buckling Still a Useful Technique?  
Pro: Marcos P. Ávila, MD  
Con: Fabio Patelli, MD
- 1:54 pm – 1:59 pm Questions & Answers
- 1:59 pm – 2:05 pm What is the First Line of Treatment for Macular Center Involved DME?  
Steroids: Laurent Kodjikian, MD, PhD, FEBO  
Anti-VEGF: Marcelo Zas, MD, PhD
- 2:05 pm – 2:10 pm Questions & Answers

2:10 pm – 2:16 pm      Should Vitrectomy be the Primary Therapy for Endophthalmitis?  
Pro: Ferenc Kuhn, MD, PhD  
Con: William E. Smiddy, MD

2:16 pm – 2:21 pm      Questions & Answers

2:21 pm – 2:30 pm      What is the First Line of Treatment for Chronic CSCR?  
PDT: Francesco Boscia, MD  
Mineralocorticoid-receptor Antagonists: Francine Behar-Cohen, MD, PhD  
Micropulse Laser: Jose A. Roca, MD

2:30 pm – 2:35 pm      Questions & Answers

### **Refreshment Break**

2:35 pm – 2:55 pm      Refreshments in the Exhibit Hall

### **Controversies and Debates (Continued)**

**Session Chairs: David R. Chow, MD, FRCS; Pravin U. Dugel, MD; Jorge C.P. Rocha, MD, PhD; Lihteh Wu, MD**

2:55 pm – 3:01 pm      What is the First Line of Treatment for PCV?  
PDT plus Anti-VEGF: Gregg T. Kokame, MD  
Anti-VEGF Monotherapy: Leandro C. Zacharias, MD, PhD

3:01 pm – 3:06 pm      Questions & Answers

3:06 pm – 3:12 pm      Is Telemedicine for Ophthalmology Evaluations Ready for Prime Time?  
Pro: Alexandre Taleb, MD, PhD  
Con: Francisco J. Rodriguez, MD

3:12 pm – 3:17 pm      Questions & Answers

3:17 pm – 3:23 pm      Is Pneumatic Retinopexy Useful?  
Pro: Rajeev H. Muni, MD, MSc, FRCS  
Con: Michael Kapusta, MD

3:23 pm – 3:28 pm      Questions & Answers

### **RETINAWS**

**Session Chairs: Arturo Alezandrini, MD, PhD; Kourous A. Rezaei, MD; Taiji Sakamoto, MD, PhD**

3:30 pm – 4:30 pm      Join us for a video-oriented surgical course where we'll discuss complex vitreoretinal surgery, rare surgical cases and unique surgical techniques. Faculty from around the world will present on how they perform certain tasks and describe why they execute them the way do.  
Panelists: Nur Acar Gocgil, MD, Prof, FEBO; Audina M. Berrocal, MD; Susanne Binder, MD; Francesco Boscia, MD; Carl C. Claes, MD; Jorge A. Fortun, MD; Motohiro Kamei, MD, PhD; Kiyoshi Suzuma, MD

### **Early Career Session**

**Session Moderators: Jorge A. Fortun, MD; Mitul C. Mehta, MD, MS; Hemang K. Pandya, MD**

4:35 pm – 4:45 pm      Social Media for Collaboration: Young Retina Forum Survey Results  
Hemang K. Pandya, MD

4:45 pm – 4:52 pm	How to Gain an Audience Outside of the Podium Jayanth Sridhar, MD
4:52 pm – 4:59 pm	Getting Started with Clinical Research in Private Practice Carl J. Danzig, MD
4:59 pm – 5:09 pm	Case Presentation Yasha Modi, MD
5:09 pm – 5:19 pm	Case Presentation Eduardo Uchiyama, MD
5:19 pm – 5:30 pm	International Collaboration Carl Danzig, MD; Jorge A. Fortun, MD; Mitul C. Mehta, MD, MS; Raja Narayanan, MD, MBA; Hemang K. Pandya, MD; Yasha Modi, MD

**SOCIAL RECEPTION\* | 7:00 pm – 10:00 pm**

7:00 pm – 10:00 pm Social Reception at LauderAle Brewery (see registration desk for assistance)  
*\*This portion of the meeting is not approved for AMA PRA Category 1 Credit(s)<sup>™</sup>.*

## Sunday, March 24, 2019

**GENERAL SESSIONS | 8:00 am – 11:45 am**

**Welcome**

8:00 am – 8:05 am Announcements and Pretest  
R.V. Paul Chan, MD, MSc, FACS

**Pediatrics, Pediatric Surgery, Gene Therapy and Upcoming Technologies**

**Session Chairs: R.V. Paul Chan, MD, MSc, FACS; Darius M. Moshfeghi, MD; Hiroko Terasaki, MD, PhD**

8:05 am – 8:12 am New Therapy Approaches for Retinopathy of Prematurity  
Darius M. Moshfeghi, MD

8:12 am – 8:19 am Artificial Intelligence for ROP Screening  
R.V. Paul Chan, MD, MSc, FACS

8:19 am – 8:26 am Subretinal Chip Implant for Retinal Degeneration  
Helmut Sachs, MD

8:26 am – 8:33 am What is the Correct Anti-VEGF Dose for ROP?  
Maria A. Martinez-Castellanos, MD

8:33 am – 8:40 am Surgical Management of Sticklers Syndrome  
Antonio Ciardella, MD

8:40 am – 8:47 am PHPV  
Hiroko Terasaki, MD, PhD

8:47 am – 8:54 am Gene Therapy for RPE65 Mutated Retinal Degenerations  
Audina M. Berrocal, MD

8:54 am – 9:01 am The Surgical Management of Familial Exudative Vitreoretinopathy

Sengul Ozdek, MD, FEBO

9:01 am – 9:08 am Early Experience with AAV8-RPGR Gene Therapy for X-linked Retinitis Pigmentosa  
Byron L. Lam, MD

**Panel Discussion**

9:15 am – 9:35 am Surgical ROP/Pediatric Case Analysis  
Moderator: R.V. Paul Chan, MD, MSc, FACS  
Panelists: Antonio Ciardella, MD; Hiroko Terasaki, MD, PhD; Maria A. Martinez-Castellanos, MD; Sengul Ozdek, MD, FEBO; Darius M. Moshfeghi, MD

**Uveitis**

**Session Chairs: Thomas A. Albini, MD; Sofia N. Androudi, MD, PhD**

9:40 am – 9:43 am Pretest  
Sofia N. Androudi, MD, PhD

9:43 am – 9:50 am Serpiginous and Serpiginous-like Choroiditis  
Tariq Reza Ali, MD

9:50 am – 9:57 am Using OCTA to Monitor Uveitis  
Sumit Sharma, MD

9:57 am – 10:04 am Update on Systemic Treatments for Non-infectious Uveitis  
Pauline T. Merrill, MD

10:04 am – 10:11 am MUST Study Outcomes and Impact on Clinical Practice  
Thomas A. Albini, MD

10:11 am – 10:18 am The Risk of Increased Intraocular Pressure with Uveitis Therapies  
Michael A. Singer, MD

10:18 am – 10:25 am New Local Therapies for Uveitis  
Dilraj S. Grewal, MD

**Abstract Winners**

10:25 am – 10:28 am Suprachoroidal administration of CLS-TA: Clinical Trial Results Demonstrating Rapid and Sustained Resolution of Macular Edema in Uveitis Patients  
Eduardo Uchiyama, MD

10:28 am – 10:31 am Incidence and Outcomes of Non-Infectious Vitritis and Infectious Endophthalmitis after Intravitreal Injection of Anti-vascular Endothelial Growth Factor Agents  
Andre Muralha, MD

**Panel Discussion**

10:31 am – 10:53 am Uveitis  
Moderator: Sofia N. Androudi, MD, PhD  
Panelists: Thomas A. Albini, MD; Pauline T. Merrill, MD; Sumit Sharma, MD; Mahmoud M. Soliman, MD

**First-time Presentations of Clinical Trials and Late Breakers**

**Session Chairs: Pravin U. Dugel, MD; Sundaram Natarajan, MD**

10:55 am – 10:58 am Pretest



Pravin U. Dugel, MD

10:58 am – 11:05 am Optimizing DME Treatment with Decreased Injection Frequency with Long-term Steroid Implants  
Daniel Roth, MD

11:05 am – 11:12 am One Year Results of a Randomized, Double-masked, Sham-controlled Phase 4 Study of the Efficacy, Safety, and Tolerability of Intravitreal Aflibercept Monotherapy Compared to Aflibercept With Adjunctive Photodynamic Therapy in patients with Polypoidal Choroidal Vasculopathy (ATLANTIC STUDY)  
João Pedro Marques, MD, Msc

11:12 am – 11:19 am Technology and Artificial Intelligence in the Retina Landscape  
Linda A. Lam, MD, MBA

11:19 am – 11:26 am The Evidence Behind Extended Anti-VEGF Dosing in Neovascular Age-related Macular Degeneration: A 5 Trial Cross-comparison  
Theodore Leng, MD, MS

11:26 am – 11:33 am Ladder Trial of the Port Delivery System with Ranibizumab: Initial Study Results  
Franco Recchia, MD

**Abstract Winner**

11:33 am – 11:36 am Open Label Study to Evaluate the Therapeutic Effects and Safety of ALK4290 in Patients with Newly Diagnosed Neovascular Age-related Macular Degeneration (nAMD)  
Michael Stewart, MD

11:36 am – 11:39 am Posttest  
Pravin U. Dugel, MD

**Meeting Adjourns**

11:39 am – 11:45 am Closing Remarks and Adjournment