



PACIFIC  
RETINA  
CLUB



INTERNATIONAL  
RETINAL IMAGING  
SOCIETY

# 10<sup>th</sup> Annual Pacific Retina Club & International Retinal Imaging Symposium 2024

May 30 - June 1, 2024

UCLA Meyer & Renee Luskin Conference Center  
Los Angeles, CA

*presented by*



INTERNATIONAL  
RETINAL IMAGING  
SOCIETY

## ACCREDITATION AND CREDIT DESIGNATION

In support of improving patient care, this activity has been planned and implemented by Cine-Med and Medical Conference Planners International. Cine-Med is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### PHYSICIANS

Cine-Med designates this live activity for a maximum of **14.25 AMA PRA Category 1 Credit(s)**<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### OTHER HEALTHCARE PROFESSIONALS

All other healthcare professionals will receive a Certificate of Participation. For information on the applicability and acceptance of Certificates of Participation for activities designated for **AMA PRA Category 1 Credits**<sup>™</sup>, consult your professional licensing board.



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Dear Colleagues,

We would like to welcome you to the momentous combined meeting of the 10th Annual Pacific Retina Club & International Retinal Imaging Symposium 2024!

The Pacific Retina Club (PRC) originated in 2013 but its history is rich and stretches back decades. Howard Schatz founded the Western Retina Study Club (WRSC) in 1984 which was led in subsequent years by Edward Boldrey, Alan Maberley then Rich McDonald. The Los Angeles Imaging Conference of Retina Specialists (LAICRS) was founded in 2007 by Dean Elliot and David Sarraf, along with Amani Fawzi, Steve Schwartz, and Vas Sadda. LAICRS later merged with the WRSC in 2013, bringing together retinal specialists from the entire western coast.

The International Retinal Imaging Society (IntrIS) was established on July 3, 2017 to facilitate the advancement of knowledge and science and innovation in the field of retinal imaging. The centerpiece of this non-profit organization is the annual conference which is a medium for vibrant exchange of innovative and novel information between retinal imaging experts from all over the world.

Day one of PRC is a one-day case conference, with a slate of over 60 clinical cases to be presented on the first day, as “unknowns” to be discussed by renowned retinal experts from throughout the country. An award lecture will also be given in honor of Alexander R. Irvine, a beloved UCSF Professor and member of the most famous Retina Family in California history. We are very proud and honored to announce this year’s Irvine Award recipient: Dr. Mark W. Johnson of Michigan.

The second day of PRC will include presentations and lectures, given by leaders in our field, covering emerging basic science topics and retinal updates on every important subject in the retinal constellation of disease. There will be panel discussions run by experienced and well-known retinal specialists; each will be different, and the gamut of retinal disease will be thoroughly covered. These discussion topics include surgical management of retinal disease, imaging advances, diabetic and retinal vascular disease, emerging treatments for wet and dry AMD, pediatric and inherited retinal disease, tumors, and uveitis.

The IntrIS Symposium 2024 on the third day is robust and includes speakers from all over the world who are leading experts on various innovative retinal imaging subjects including artificial intelligence, adaptive optics, en face optical coherence tomography and OCT angiography. In addition, the program will update breakthroughs made in our understanding and evaluation of various retinal diseases such as neovascular age related macular degeneration and atrophic AMD, myopic degeneration, retinal vascular disease, and genetic retinal dystrophies using advanced retinal imaging.

This meeting would not be possible without the support and invaluable contributions of the International Retinal Imaging Society led by Monica Kim, and the oversight and planning of the conference led by Karen Baranick and her very talented team at Medical Conference Planners Intl. (MCPI). We welcome all of our attendees to Los Angeles and we are looking forward to a stimulating conference that will be sure to educate and illuminate all of our participants on many innovative and exciting topics in the area of advanced retinal imaging!

Sincerely,

The PRC and IntrIS Program Committees



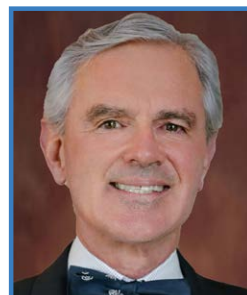
**David Sarraf, MD**  
Stein Eye Institute, UCLA



**Amani A. Fawzi, MD**  
Northwestern University



**K. Bailey Freund, MD**  
Vitreous Retina Macula  
Consultants of New York



**H. Richard McDonald, MD**  
West Coast Retina California  
Pacific Retina Center



**Srinivas R. Sadda, MD**  
Doheny Eye Institute, UCLA



## ALEXANDER R. IRVINE LECTURE

THURSDAY, MAY 30, 2024 | 2:50 PM

# Macular Musings

MARK W. JOHNSON, MD

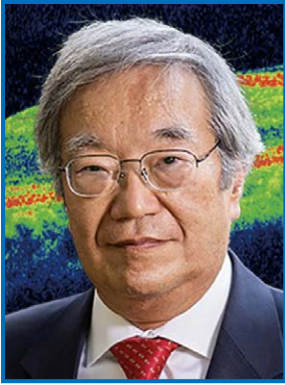
Mark W. Johnson, MD, is Professor of Ophthalmology and Visual Sciences and Chief of the Retina Service at the University of Michigan Medical School in Ann Arbor. He received his medical degree from the University of Utah, served his residency in ophthalmology at the University of Michigan, and completed fellowships in medical retina and vitreoretinal surgery at the Bascom Palmer Eye Institute.

Dr. Johnson's chief clinical research interests include pharmacotherapies for macular diseases, pathogenesis and treatment of vitreomacular interface disorders, and vitreoretinal surgical strategies, as well as the measurable benefits of compassion in healthcare. He has served as principal investigator and Data and Safety Monitoring Committee member for numerous international multicenter clinical trials in age-related macular degeneration, retinal vascular disease, and vitreoretinal disorders. He lectures widely on retina topics, having delivered 25 named lectures and over 250 invited talks nationally and internationally. He has authored or co-authored nearly 250 peer-reviewed papers and book chapters.

Dr. Johnson has received a U.S. Presidential Scholar Award, the Senior Achievement Honor Award and Life Achievement Honor Award from the American Academy of Ophthalmology, and the Heed-Gutman Award from the Society of Heed Fellows. He has served as President of both The Macula Society and The Retina Society, and as Director of the American Academy of Ophthalmology Retina Subspecialty Day.

### PAST ALEXANDER R. IRVINE LECTURERS

- 2006 H. Richard McDonald, MD
- 2008 Glenn J. Jaffe, MD
- 2009 William R. Freeman, MD
- 2010 Marco A. Zarbin, MD, PhD
- 2011 Allan E. Kreiger, MD
- 2012 Mark S. Blumenkranz, MD, MMS
- 2013 Dean Elliott, MD
- 2014 Anita Agarwal, MD
- 2015 K. Bailey Freund, MD
- 2016 William F. Mieler, MD
- 2017 Lawrence A. Yannuzzi, MD
- 2018 Lee M. Jampol, MD
- 2019 Alexander J. Brucker, MD
- 2022 Jay S. Duker, MD
- 2023 Richard F. Spaide, MD



## LAWRENCE A. YANNUZZI LECTURE

SATURDAY, JUNE 1, 2024 | 2:40 PM

# Optical Coherence Tomography – History, Evolution and Future Prospects

JAMES G. FUJIMOTO, PhD

James G. Fujimoto, PhD is Elihu Thomson Professor of Electrical Engineering at MIT, visiting professor of ophthalmology at Tufts University School of Medicine, and adjunct professor at the Medical University of Vienna. His group and collaborators were responsible for the invention and development of OCT, performing some of the first studies in ophthalmology. Working with Carmen Puliafito and Eric Swanson, he cofounded the startup company Advanced Ophthalmic Devices, which developed ophthalmic OCT and was acquired by Carl Zeiss. He also cofounded, with Eric Swanson and Mark Brezinski, LightLab Imaging, which developed intravascular OCT and was acquired by Goodman, Ltd. and St. Jude Medical. Dr. Fujimoto has published over 500 peer-reviewed journal articles. He received the Zeiss Research Award in 2011, the Optical Society of America Ives Medal in 2015 and the Beckman-Argyros Award in Vision Research in 2017. He was co-recipient of the Champalimaud Vision Prize in 2012, the National Academy of Engineering Fritz J. and Dolores H. Russ Award in 2017, the European Inventor Award in 2017, the Lasker-DeBaakey Clinical Medical Research Award in 2023 and the National Medal of Technology and Innovation in 2023. Dr. Fujimoto has honorary doctorates from the Nicolaus Copernicus University in Poland and the Friedrich Alexander University of Erlangen-Nuremberg and is a member of the National Academy of Engineering, National Academy of Sciences, and American Academy of Arts and Sciences.

## PAST LAWRENCE A. YANNUZZI LECTURERS

- 2020 Richard F. Spaide, MD
- 2021 Philip J. Rosenfeld, MD, PhD
- 2022 Christine A. Curcio, PhD
- 2023 Cynthia A. Toth, MD

# PRC FACULTY

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Anita Agarwal, MD  
Paul S. Bernstein, MD, PhD  
David S. Boyer, MD  
Frank L. Brodie, MD, MBA  
Alexander J. Brucker, MD  
Clement K. Chan, MD, FACS  
Gemmy CM Cheung, MD  
David R. Chow, MD  
Carl C. Claes, MD  
Emmett T. Cunningham, Jr., MD, PhD, MPH  
Deborah A. Ferrington, PhD  
Amani A. Fawzi, MD  
Philip J. Ferrone, MD  
K. Bailey Freund, MD  
Alain Gaudric, MD  
Tarek S. Hassan, MD  
Kirk K. Hou, MD, PhD  
Mark S. Humayun, MD, PhD  
Michael S. Ip, MD  
Mark W. Johnson, MD  
J. Michael Jumper, MD, FASRS  
Sanjay R. Kedhav, MD  
Hideki Koizumi, MD, PhD  
Baruch D. Kuppermann, MD, PhD  
Brandon J. Lujan, MD  
Colin A. McCannel, MD  
Tara A. McCannel, MD, PhD  
H. Richard McDonald, MD  
William F. Mieler, MD  
Andrew A. Moshfeghi, MD, MBA  
Prithvi Mruthyunjaya, MD, MHS  
Rajeev H. Muni, MD, MSc, FRCSC  
Marion R. Munk, MD, PhD  
Aaron Nagiel, MD, PhD  
Eric Nudleman, MD, PhD  
Dante J. Pieramici, MD  
Pradeep Prasad, MD, MBA

Jose S. Pulido, MD, MS, MPH, MBA  
Giuseppe Querques, MD, PhD  
David Sarraf, MD  
Jay M. Stewart, MD  
Homayoun Tabandeh, MD  
Cynthia A. Toth, MD  
Edmund Tsui, MD  
Irena Tsui, MD  
Nadia K. Waheed, MD, MPH  
Glenn C. Yiu, MD, PhD

# IntRIS FACULTY

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Rouzbeh Abbasgholizadeh, MD, FEBO  
(Member-in-Training)  
Anita Agarwal, MD  
Alessandro Berni, MD (Member-in-Training)  
Paul S. Bernstein, MD, PhD  
Enrico Borrelli, MD, PhD  
Elodie Bousquet, MD, PhD  
Andrew W. Browne, MD, PhD  
Alexander J. Brucker, MD  
Iksoo Byon, MD, PhD  
Diogo Cabral, MD  
Fiammetta Catania, MD, FEBO  
Jane W. Chan, MD  
Siyu Chen, PhD  
Gemmy CM Cheung, MD  
Emanuele Crincoli, MD, FEBO  
Emmett T. Cunningham, Jr., MD, PhD, MPH  
Francisco Max Damico, MD, PhD  
Talisa E. de Carlo Forest, MD  
Chantal Dysli, MD, PhD  
Livia Faes, MD (Member-in-Training)  
Amani A. Fawzi, MD  
Alessandro Feo, MD (Member-in-Training)  
Claudia Fossataro, MD (Member-in-Training)  
Federica Fossataro, MD, FEBO  
Anibal A. Francone, MD  
K. Bailey Freund, MD  
James G. Fujimoto, PhD  
Alain Gaudric, MD  
Andrea Govetto, MD, PhD  
Yunchan Hwang, BS (Member-in-Training)  
Claudio Iovino, MD  
Michael S. Ip, MD  
Yali Jia, PhD  
Jesse J. Jung, MD  
Jae Hui Kim, MD  
Kiyoun Kim, MD, PhD  
Hideki Koizumi, MD, PhD

Valerie Krivosic, MD  
Won Ki Lee, MD, PhD  
Ruixue Liu, PhD (Member-in-Training)  
Brandon J. Lujan, MD  
Mostafa Mafi, MD (Member-in-Training)  
Fukutaro Mano, MD  
Nathalie Massamba, MD  
Kareem Moussa, MD  
Marion R. Munk, MD, PhD  
Eduardo Navajas, MD, PhD  
Peter L. Nesper, MD, MS (Member-in-Training)  
Thanos Papakostas, MD  
Nopasak Phasukkijwatana, MD, PhD  
Andreas Pollreisz, MD  
Rony Preti, MD, PhD  
Giuseppe Querques, MD, PhD  
Prithvi Ramtohul, MD  
Philip J. Rosenfeld, MD, PhD  
Riccardo Sacconi, MD, PhD, FEBO  
Min Sagong, MD, PhD  
Ahmad Santina, MD (Member-in-Training)  
David Sarraf, MD  
Tomoko Sato, MD, PhD (Member-in-Training)  
J. Sebag, MD, FACS, FRCOphth, FARVO  
Kent W. Small, MD  
Cynthia A. Toth, MD  
Edmund Tsui, MD  
Irena Tsui, MD  
Shilo Voichanski, MD  
Nadia K. Waheed, MD, MPH  
Ruikang Wang, PhD  
Seung-Young Yu, MD, PhD  
Yuhua Zhang, PhD

**11:00 AM – 7:15 PM**

**REGISTRATION**

**11:00 AM – 7:15 PM**

**EXHIBITS**

**11:00 – 11:30 AM**

**LUNCH**

11:30 – 11:40 AM

**Welcome Remarks**

*David Sarraf, MD & H. Richard McDonald, MD*

**11:40 AM – 2:05 PM**

**SESSION 1 (TRAINEES)**

*Moderator: David Sarraf, MD*

- 11:40 Néda Abraham, MS
- 11:45 Adrian Au, MD, PhD
- 11:50 Yicheng Bao, MD
- 11:55 Tatyana Beketova, MD
- 12:00 Aaron C. Brown, MD
- 12:05 Sakar Budhathoki, BA
- 12:10 Pedro Miguel da Silva Carreira, MD
- 12:15 Victor Eng, MD
- 12:20 Stephanie Engelhard, MD
- 12:25 Livia Faes, MD
- 12:30 Alessandro Feo, MD
- 12:35 Blake H. Fortes, MD
- 12:40 Shane M. Griffin, MD, MCR
- 12:45 Bradley S. Gundlach, MD, MS
- 12:50 Rachael C. Heath Jeffery, MChD, MPH
- 12:55 Viridiana Hernandez-Lopez, BS
- 1:00 Georgia K. Kamboj, MD, PhD
- 1:05 Susan H. Kishi, BS
- 1:10 Jun Hui Lee, MD
- 1:15 Yuanxiaoqiao Li, BS, MS
- 1:20 Albert Liao, MS, MS
- 1:25 Dimitrios Pollalis, MD
- 1:30 Saumya Shah, MD
- 1:35 Betty Situ, MD, MPH
- 1:40 Ava Torjani, MD
- 1:45 Joseph Tran, MD
- 1:50 Alexander Tseng, MD, PhD
- 1:55 Ogul Uner, MD
- 2:00 Victoria Wang, MD

**2:05 – 2:14 PM**

**INDUSTRY PRESENTATIONS**

- 2:05 Apellis Pharmaceuticals
- 2:11 Castle Biosciences

**2:14 – 2:45 PM**

**BREAK**

2:45

**Introduction of Alexander R. Irvine Lecture**

*H. Richard McDonald, MD*

**2:50 – 3:10 PM**

**Alexander R. Irvine Lecture: Macular Musings**

*Mark W. Johnson, MD*

**3:10 – 3:45 PM**

**SESSION 2**

*Moderator: Anita Agarwal, MD*

- 3:10 Joseph Alsberge, MD
- 3:15 Fred K. Chen, MBBS, PhD, FRANZCO
- 3:20 Rania G. Estawro, MD, FRCS (Glasg)
- 3:25 Miri Fogel Levin, MD
- 3:30 Aditya Patil, MBBS DNB FAICO (Uvea)
- 3:35 Meera Ramakrishnan, MD
- 3:40 Veronica Adriana Romero Morales, MD

**3:45 – 4:20 PM**

**SESSION 3**

*Moderator: Anita Agarwal, MD*

- 3:45 Anita Agarwal, MD
- 3:50 Paul S. Bernstein, MD, PhD
- 3:55 Elodie Bousquet, MD, PhD
- 4:00 Carl C. Claes, MD
- 4:05 Chantal Dysli, MD, PhD
- 4:10 K. Bailey Freund, MD
- 4:15 Mark W. Johnson, MD

**4:20 – 4:50 PM**

**BREAK**

**4:50 – 6:05 PM**

**SESSION 4**

*Moderator: H. Richard McDonald, MD*

- 4:50 Valerie Krivosic, MD
- 4:55 Baruch D. Kuppermann, MD, PhD
- 5:00 Brandon J. Lujan, MD
- 5:05 Tara A. McCannel, MD, PhD
- 5:10 William F. Mieler, MD
- 5:15 Kareem Moussa, MD
- 5:20 Rajeev H. Muni, MD, MSc, FRCSC
- 5:25 Aaron Nagiel, MD, PhD
- 5:30 Eric Nudleman, MD, PhD
- 5:35 Rony Preti, MD, PhD
- 5:40 Jose S. Pulido, MD, MS, MPH, MBA
- 5:45 Jay M. Stewart, MD
- 5:50 Homayoun Tabandeh, MD
- 5:55 Edmund Tsui, MD
- 6:00 Glenn C. Yiu, MD, PhD

6:05 – 6:10 PM

**Closing Remarks**

*David Sarraf, MD & H. Richard McDonald, MD*

**6:10 – 7:15 PM**

**RECEPTION**



**FRIDAY** | MAY 31, 2024

## PRC RETINA UPDATE

**7:00 AM – 5:00 PM**  
**REGISTRATION**

**7:00 AM – 5:00 PM**  
**EXHIBITS**

**7:00 – 7:50 AM**  
**BREAKFAST**

7:50 – 8:00 AM

**Welcome Remarks**

*David Sarraf, MD & H. Richard McDonald, MD*

**8:00 – 8:40 AM**

**SESSION 1: ARTIFICIAL INTELLIGENCE,  
BASIC SCIENCE, PATHOLOGY, AND  
INHERITED DISEASES**

*Moderators: Paul S. Bernstein, MD, PhD &  
Deborah A. Ferrington, PhD*

8:00

**Photoreceptor Reprogramming as a  
Neuroprotective Strategy for Geographic  
Atrophy**

*Glenn C. Yiu, MD, PhD*

8:10

**Rationale for very-long-chain polyunsaturated  
fatty acids (VLC-PUFAs) as a potential  
component of a future AREDS3 formulation**

*Paul S. Bernstein, MD, PhD*

8:20

**A Bioenergetic Crisis in the Retinal Pigment  
Epithelium Drives AMD Pathology**

*Deborah A. Ferrington, PhD*

8:30

**Unveiling the Molecular Nexus of Ocular  
Tuberculosis: Mycobacterium Proteins, Ocular  
Autoimmunity & Immune Receptor Dynamics**

*Marion R. Munk, MD, PhD*

**8:40 – 9:10 AM**

**SESSION 2: PEDIATRIC SURGERY PANEL**

*Moderator: J. Michael Jumper, MD, FASRS*

*Panelists: Philip J. Ferrone, MD*

*Aaron Nagiel, MD, PhD*

*Cynthia A. Toth, MD*

*Irena Tsui, MD*

**9:10 – 9:40 AM**

**SESSION 3: UVEITIS PANEL**

*Moderator: Emmett T. Cunningham, Jr., MD, PhD, MPH*

*Panelists: Kirk K. Hou, MD, PhD*

*Sanjay R. Kedhar, MD*

*Edmund Tsui, MD*

**9:40 – 10:10 AM**

**BREAK**

**10:10 – 11:00 AM**

**SESSION 4: IMAGING**

*Moderators: K. Bailey Freund, MD &*

*Hideki Koizumi, MD, PhD*

10:10

**Double Layer Sign and Geographic Atrophy:  
A Complex Relationship**

*Amani A. Fawzi, MD*

10:20

**Distinguishing RPE Aperture from RPED  
Devoid of RPE: Different Mechanisms  
Occurring in Different Diseases**

*K. Bailey Freund, MD*

10:30

**Morphological Changes in Rhegmatogenous  
Retinal Detachment Repair: Implications for  
Management**

*Rajeev H. Muni, MD, MSc, FRCSC*

10:40

**Aspects of Acute Choroidal Ischaemia**

*Alain Gaudric, MD*

10:50

**CSC and Sclera: What We Have Learnt So Far**

*Hideki Koizumi, MD, PhD*

**11:00 – 11:30 AM**

**SESSION 5: IMAGING PANEL**

*Moderator: Mark W. Johnson, MD*

*Panelists: Anita Agarwal, MD*

*K. Bailey Freund, MD*

*Brandon J. Lujan, MD*

*Jose S. Pulido, MD, MS, MPH, MBA*

**11:30 AM – 12:10 PM**

**SESSION 6: SURGERY PANEL**

*Moderator: David R. Chow, MD*

*Panelists: Carl C. Claes, MD*

*Tarek S. Hassan, MD*

*H. Richard McDonald, MD*

*Pradeep Prasad, MD, MBA*

*(continued)*

12:10 – 1:30 PM

**LUNCH AND SATELLITE SYMPOSIUM (non-CME)^**

12:20 – 1:20 PM

**EYLEA HD for Wet AMD and DME**

*Michael Javaheri, MD*

*(Sponsored by Regeneron Pharmaceuticals, Inc.)*

1:30 – 2:10 PM

**SESSION 7: NON-NEOVASCULAR AMD**

*Moderators: Alexander J. Brucker, MD &*

*Amani A. Fawzi, MD*

1:30

**Complications of Complement Inhibitor Therapy**

*Andrew A. Moshfeghi, MD, MBA*

1:40

**Emerging Treatments for Intermediate AMD and Geographic Atrophy**

*Baruch D. Kuppermann, MD, PhD*

1:50

**Ultrahigh Resolution OCT Markers of Normal Aging and Early Age-related Macular Degeneration**

*Nadia K. Waheed, MD, MPH*

2:00

**Phenotypic Characterization of Predictors for Development and Progression of Geographic Atrophy Using Optical Coherence Tomography**

*Giuseppe Querques, MD, PhD*

2:10 – 2:40 PM

**SESSION 8: TUMOR PANEL**

*Moderator: William F. Mieler, MD*

*Panelists: Colin A. McCannel, MD*

*Tara A. McCannel, MD, PhD*

*Prithvi Mruthyunjaya, MD, MHS*

*Jose S. Pulido, MD, MS, MPH, MBA*

2:40 – 3:20 PM

**SESSION 9: DIABETES AND CLINICAL TRIALS**

*Moderators: David S. Boyer, MD &*

*Dante J. Pieramici, MD*

2:40

**Management of Diabetic Retinopathy in Patients with Good Vision**

*Eric Nudleman, MD, PhD*

2:50

**DRCR Retina Network Clinical Trials**

*Clement K. Chan, MD, FACS*

3:00

**Refillable Drug Delivery Devices for Treatment of DR/DME Clinical Trial Update**

*Dante J. Pieramici, MD*

3:10

**Sex Differences in Inflammation-Related Biomarkers in Diabetic Retinopathy**

*Jay M. Stewart, MD*

3:20 – 3:50 PM

**BREAK**

3:50 – 4:20 PM

**SESSION 10: RETINAL VASCULAR AND MISCELLANEOUS**

*Moderators: Michael S. Ip, MD, &*

*Homayoun Tabandeh, MD*

3:50

**Three Year Follow Up from a Stem Cell Derived RPE Patch for GA**

*Mark S. Humayun, MD, PhD*

4:00

**Current and Emerging Approaches to the Management of Non-Proliferative Diabetic Retinopathy**

*Michael S. Ip, MD*

4:10

**Vitreous Detecting Vitrectomy: Beyond “Seeing Gel”**

*Frank L. Brodie, MD, MBA*

4:20 – 4:50 PM

**SESSION 11: NEOVASCULAR AMD/ CLINICAL TRIALS**

*Moderators: Alexander J. Brucker, MD &*

*Mark W. Johnson, MD*

4:20

**Clinical Trial Update in Neovascular AMD**

*David S. Boyer, MD*

4:30

**Is OCTA a Valuable Tool for the Evaluation of NV AMD?**

*David Sarraf, MD*

4:40

**Update on Latest treatment Trials in PCV**

*Gemmy CM Cheung, MD*

4:50 – 5:00 PM

**Closing Remarks**

*David Sarraf, MD & H. Richard McDonald, MD*

*^Not part of the educational activity.*

**SATURDAY** | JUNE 1, 2024

## IntRIS SYMPOSIUM

**6:30 AM – 5:40 PM**  
**REGISTRATION**

**6:30 AM – 3:35 PM**  
**EXHIBITS**

**6:30 – 7:00 AM**  
**BREAKFAST**

7:00 – 7:10 AM  
**Welcome Remarks**  
*David Sarraf, MD*

**7:10 – 7:38 AM**  
**SESSION 1: TECHNOLOGY INNOVATIONS I**  
*Moderators: Amani A. Fawzi, MD & James G. Fujimoto, PhD*

7:10  
**Two-Photon Excited Fluorescence to Image the Human Retina Assisted with Pre-Photobleaching**  
*Andrew W. Browne, MD, PhD*

7:17  
**OCT Split-Spectrum Amplitude-Decorrelation Optoretinography**  
*Siyu Chen, PhD*

7:24  
**In Vivo Imaging and Quantification of Human Retinal Macrophages by Adaptive Optics OCT in Diabetic Retinopathy**  
*Andreas Pollreisz, MD*

7:31  
**Relationship Between Pericyte Loss and Macular Leakage in Diabetic Retinopathy: Imaging Confirms Pathophysiology**  
*Amani A. Fawzi, MD*

**7:38 – 7:59 AM**  
**SESSION 2: TECHNOLOGY INNOVATIONS II (FLIO)**  
*Moderator: Paul S. Bernstein, MD, PhD & Ruikang Wang, PhD*

7:38  
**Adaptive Optics Fluorescence Lifetime Imaging Ophthalmoscopy**  
*Yuhua Zhang, PhD*

7:45  
**Characterization of Peripapillary Atrophy Using Fluorescence Lifetime Imaging Ophthalmoscopy and High-Resolution Optical Coherence Tomography**  
*Chantal Dysli, MD, PhD*

7:52  
**Follow-Up Analysis in Patients with Hydroxychloroquine Toxicity Using Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO)**  
*Paul S. Bernstein, MD, PhD*

**7:59 – 8:34 AM**  
**SESSION 3: ADVANCES IN OCTA IMAGING**  
*Moderators: Marion R. Munk, MD, PhD & Nadia K. Waheed, MD, MPH*

7:59  
**Macular Vascular Density Changes on OCTA May Predict Atherosclerotic Cardiovascular Disease in Familial Hypercholesterolemia Patients and Are Potential Retinal Biomarkers of Coronary Disease**  
*Francisco Max Damico, MD, PhD*

8:06  
**Topographic Analysis of Retinal and Choroidal Displacements After Macular Hole Surgery**  
*Min Sagong, MD, PhD*

8:13  
**Clinical Implications of Alternating Hypointense Bands on Optical Coherence Tomography Angiography**  
*Diogo Cabral, MD*

8:20  
**Visualizing And Quantifying More Features in Diabetic Retinopathy Using Ultrawide-Field OCT And Deep-Learning Algorithms**  
*Yali Jia, PhD*

8:27  
**Consensus-based Recommendations for Optical Coherence Tomography Angiography reporting in Retinal Vascular Diseases**  
*Marion R. Munk, MD, PhD*

*(continued)*

8:34 – 9:02 AM

**SESSION 4: ADVANCES IN OCT IMAGING**

Moderators: Anita Agarwal, MD &  
Brandon J. Lujan, MD

8:34

**En Face OCT Illustrates The Trizonal Distribution of Drusen and Subretinal Drusenoid Deposits In The Macula**

*Shilo Voichanski, MD*

8:41

**Optical Coherence Tomography (OCT) Metrics and Ptau Isomer Biomarkers in Presymptomatic Alzheimer's Disease (Pre-AD)**

*Jane W. Chan, MD*

8:48

**Directional OCT Reveals Photoreceptor Orientation and Misdirection**

*Brandon J. Lujan, MD*

8:55

**Insights Into Disease Mechanisms Revealed with High-Res OCT**

*K. Bailey Freund, MD*

9:02 – 9:30 AM

**SESSION 5: INHERITED RETINAL AND PEDIATRIC DISEASE**

Moderators: Cynthia A. Toth, MD & Irena Tsui, MD

9:02

**Congenital Posterior Polar Chorioretinal Hypoplasia Expansion of The Clinical Spectrum, Mutation, And Its Association with PRDM13**

*Kent W. Small, MD*

9:09

**Retinal and Choroidal Changes After Voretigene Neparvovec Subretinal Gene Therapy in Patients with RPE65-Related Inherited Retinal Dystrophy**

*Claudio Iovino, MD*

9:16

**Visualization of Parafoveal Retinal Vasculature in Extremely Preterm Infants Using Arm-Mounted Optical Coherence Tomography Angiography**

*Irena Tsui, MD*

9:23

**Retinal Nerve Fiber Layer Thickness in The Preterm Infant is a Health Marker and Predictor of Visual Function and Neurodevelopment**

*Cynthia A. Toth, MD*

9:30 – 10:00 AM

**BREAK**

10:00 – 10:21 AM

**SESSION 6: NON-NEOVASCULAR AMD I**

Moderators: Alexander J. Brucker, MD &  
Giuseppe Querques, MD, PhD

10:00

**Sub RPE Hyporeflective Spaces Preceding Large Drusen Collapse**

*Elodie Bousquet, MD, PhD*

10:07

**Acquired Vitelliform Lesions in Intermediate Age-Related Macular Degeneration**

*Giulia Corradetti, MD*

10:14

**Pachy-Reticular Pseudodrusen**

*Giuseppe Querques, MD, PhD*

10:21 – 11:03 AM

**SESSION 7: VITREORETINAL DISEASE**

Moderators: Alain Gaudric, MD &  
J. Sebag, MD, FACS, FRCOphth, FARVO

10:21

**Non-Operculated Peripheral Retinal Hole: Not A Degenerative Condition?**

*Andrea Govetto, MD, PhD*

10:28

**Multi-Modal Clinical Evaluation of Vitreous Floaters**

*J. Sebag, MD, FACS, FRCOphth, FARVO*

10:35

**Lamellar Macular Hole and Choriocapillaris Impairment: Natural Course and Imaging Characteristics in Pathologic Myopia and Pachychoroid disease**

*Fiammetta Catania, MD, FEBO*

10:42

**UWF-FA Findings in Idiopathic Epiretinal Membrane: An Inflammatory Disease?**

*Anibal A. Francone, MD*

10:49

**Microvascular Leakage is an Irreversible Poor Prognostic Factor in Idiopathic Epiretinal Membrane Surgery: A Fluorescein Angiography Study**

*Iksoo Byon, MD, PhD*

10:56

**Cystoid Macular Edema Secondary to Epiretinal Membrane Surgery Based on Preoperative Fluorescein Leakage and Intraretinal Cystoid Cavities**

*Alain Gaudric, MD*

**11:03 – 11:31 AM**

**SESSION 8: RETINAL VASCULAR DISEASE**

*Moderators: Michael S. Ip, MD &*

*Eduardo Navajas, MD, PhD*

11:03

**Multilayer Retinal Correspondence of the Structural and Vascular Anomalies in Early Mactel 2**

*Valerie Krivosic, MD*

11:10

**Quantification of Intermittent Retinal Capillary Perfusion in Retinal Vein Occlusion and Proliferative Diabetic Retinopathy**

*Eduardo Navajas, MD, PhD*

11:17

**Blood Flow Speed of Retinal Microaneurysms in Eyes with Diabetic Retinopathy Quantified by High Speed OCTA Using Variable Interscan Time Analysis**

*Nadia K. Waheed, MD, MPH*

11:24

**Agreement Between Digital 7-Field and Digital 4-Widefield Imaging in Assessing Diabetic Retinopathy Severity**

*Michael S. Ip, MD*

**11:31 AM – 12:06 PM**

**SESSION 9: NON-NEOVASCULAR AMD II**

*Moderators: Philip J. Rosenfeld, MD, PhD &*

*Seung-Young Yu, MD, PhD*

11:31

**Association Between Quantitative and Qualitative Imaging Biomarkers and Geographic Atrophy Growth Rate**

*Talisa E. de Carlo Forest, MD*

11:38

**The Topographical Effects of Geographic Atrophy on the Deeper Choroidal Vasculature**

*Enrico Borrelli, MD, PhD*

11:45

**Calcified Drusen Prevent Optical Coherence Tomography Angiography from Assessing the Underlying Choriocapillaris**

*Ruikang Wang, PhD*

11:52

**Pachychoroid Atrophy: Recognizing It as a Subtype Within Geographic Atrophy Associated with Age-Related Macular Degeneration or Distinguishing It from Geographic Atrophy**

*Seung-Young Yu, MD, PhD*

11:59

**A Novel Grid Strategy for Correlating Focal Macular Anatomic Changes with Focal Changes in Choriocapillaris Perfusion**

*Philip J. Rosenfeld, MD, PhD*

**12:06**

**Remembering Ramin Tadayoni, MD, PhD**

*Alain Gaudric, MD*

**12:11 – 1:20 PM**

**LUNCH AND SATELLITE SYMPOSIA (non-CME)^**

12:20 – 12:50 PM

**Current Unmet Needs in Underrepresented Populations and Clinical Trials**

*Manuel Amador, MD*

*(Sponsored by Genentech, Inc.)*

12:50 – 1:10 PM

**The Dream OCT Exploring The Whole Eye**

*Matt Jordan*

*(Sponsored by Intalight)*

**1:20 – 1:55 PM**

**SESSION 10: INFLAMMATORY AND INFECTION DISEASE**

*Moderators: Emmett T. Cunningham, Jr., MD, PhD, MPH &*

*Edmund Tsui, MD*

1:20

**Evaluation of Imaging in Patients with Posterior Uveitis and Comparative Analysis of Fluorescein and Indocyanine Green Angiography with Spectralis® HRA and Optos**

*Nathalie Massamba, MD*

*^Not part of the educational activity.*

*(continued)*

1:27

**Spectral-domain Optical Coherence Tomography Imaging Findings in Patients Receiving Teprotumumab for Thyroid Eye Disease**

*Jesse J. Jung, MD*

1:34

**Fluorescein Angiography Before and After Suprachoroidal Triamcinolone Acetonide for Noninfectious Uveitis**

*Kareem Moussa, MD*

1:41

**CALM: 24-Month Retinal Thickness Outcomes from A Real-World Registry Study of Patients with Chronic Non-Infectious Uveitis Affecting the Posterior Segment (NIU-PS) Treated with the 0.18 Mg Fluocinolone Acetonide (FAC) Intravitreal Implant**

*Thanos Papakostas, MD*

1:48

**Multi-Zonal Outer Retinopathy and Retinal Pigment Epitheliopathy (MORR): A Newly Recognized Entity or an Unusual Variant of AZOOR?**

*Prithvi Ramtohol, MD*

**1:55 – 2:37 PM**

**SESSION 11: IMAGING OF THE CHOROID AND RELATED DISEASES**

*Moderators: Gemmy CM Cheung, MD & K. Bailey Freund, MD*

1:55

**Multimodal Imaging of Choroidal Abnormalities in Type 1 Neurofibromatosis Patients**

*Federica Fossataro, MD, FEBO*

2:02

**Foveal Cysts Diameter and Choroidal Hypertransmission as Novel Prognostic Biomarkers in Myopic Foveoschisis**

*Emanuele Crincoli, MD, FEBO*

2:09

**Relationship Between Automated Choroidal Thickness Measurements and Retinal Sensitivity Using Microperimetry in Patients with Myopia And Different Stages Of Myopic Maculopathy**

*Rony Preti, MD, PhD*

2:16

**Choroidal Circulation Time in Central Serous Chorioretinopathy**

*Fukutaro Mano, MD*

2:23

**One-Year Choroidal Thickness Changes After Photodynamic Therapy for Central Serous Chorioretinopathy Evaluated by Widefield Optical Coherence Tomography**

*Hideki Koizumi, MD, PhD*

2:30

**Reversal of RPE Pump Function in Central Serous Chorioretinopathy**

*David Sarraf, MD*

**2:37 – 3:15 PM**

**5<sup>TH</sup> ANNUAL LAWRENCE A. YANNUZZI AWARD LECTURE**

2:37

**Introduction of the 5<sup>th</sup> Annual Lawrence A. Yannuzzi Award Lecture**

*Cynthia A. Toth, MD*

**2:40 – 3:10 PM**

**5<sup>th</sup> Annual Lawrence A. Yannuzzi Award Lecture Optical Coherence Tomography – History, Evolution and Future Prospects**

*James G. Fujimoto, PhD*

3:10 – 3:15 PM

**Discussion**

**3:15 – 3:35 PM**

**BREAK**

**3:35 – 4:17 PM**

**SESSION 12: NEOVASCULAR AMD II**

*Moderators: Gemmy CM Cheung, MD & Won Ki Lee, MD, PhD*

3:35

**Characteristics Predictive of Fellow-Eye Geographic Atrophy without Neovascularization in Unilateral Type 3 Macular Neovascularization**

*Jae Hui Kim, MD*

3:42

**Type 3 MNV in AMD: Baseline Predictors of Long-Term Atrophy Development and Progression**

*Riccardo Sacconi, MD, PhD, FEBO*

3:49

**Recurrence of nAMD After Discontinuation of Anti-VEGF Therapy with Modified T&E Regimen**

*Kiyoung Kim, MD, PhD*

3:56

**Fluorescein Angiography in Patients with Pachychoroid Neovascularopathy: Neovascularization or Central Serous Chorioretinopathy?**

*Won Ki Lee, MD, PhD*

4:03

**Slab-Specific Projection-Resolved Optical Coherence Tomography Angiography for Enhancing En Face Polyp Detection in Polypoidal Choroidal Vasculopathy**

*Nopasak Phasukkijwatana, MD, PhD*

4:10

**Deliberations of the First Meeting of the International Fibrosis in Neovascular AMD: Nomenclature and Preliminary Findings from The Consensus Exercise**

*Gemmy CM Cheung, MD*

**4:17 – 4:59 PM**

**SESSION 13: MEMBERS-IN-TRAINING I**

*Moderators: K. Bailey Freund, MD &*

*Philip J. Rosenfeld, MD, PhD*

4:17

**Precise Photon Registration for Adaptive Optics Fluorescence Lifetime Imaging Ophthalmoscopy**

*Ruixue Liu, PhD*

*(Sponsored by Yuhua Zhang, PhD)*

4:24

**Capillary Blood Flow Speed Alterations in Diabetic Retinopathy Quantified with OCTA Using Variable Interscan Time Analysis (VISTA)**

*Yunchan Hwang, BS*

*(Sponsored by James G. Fujimoto, PhD)*

4:31

**Baseline Photoreceptor and Vascular Abnormalities on OCTA Predict Disease Progression in Early Macular Telangiectasia Type 2**

*Peter L. Nesper, MD, MS*

*(Sponsored by Amani A. Fawzi, MD)*

4:38

**Characteristics of Conversion from Non-Ischemic to Ischemic Central Retinal Vein Occlusion**

*Tomoko Sato, MD, PhD*

*(Sponsored by Fukutaro Mano, MD)*

4:45

**Retinal Ischemic Perivascular Lesions Are Associated with Myocardial Infarction in Patients with Coronary Artery Disease**

*Alessandro Feo, MD*

*(Sponsored by Elodie Bousquet, MD, PhD)*

4:52

**Foveation Process Explains the Anatomical and Functional Improvement After Epiretinal Membrane Peeling Surgery**

*Mostafa Mafi, MD*

*(Sponsored by Andrea Govetto, MD, PhD)*

**4:59 – 5:34 PM**

**SESSION 14: MEMBERS-IN-TRAINING II**

*Moderators: Michael S. Ip, MD & David Sarraf, MD*

4:59

**Pentosan Polysulphate Sodium Maculopathy: Final Analysis of a Prospective Cross-Sectional Cohort**

*Ahmad Santana, MD*

*(Sponsored by Shilo Voichanski, MD)*

5:06

**The Total Burden of Macular Hyperreflective Foci and the Onset of Persistent Choroidal Hypertransmission Defects in Intermediate AMD**

*Alessandro Berni, MD*

*(Sponsored by Philip J. Rosenfeld, MD, PhD)*

5:13

**Comparison of Blue-Light Autofluorescence and Ultrawidefield Green-Light Autofluorescence for Assessing Geographic Atrophy**

*Rouzbeh Abbasgholizadeh, MD, FEBO*

*(Sponsored by Michael S. Ip, MD)*

5:20

**Multimodal Imaging Insights into Type 3 Macular Neovascularization in Age-Related Macular Degeneration - No DRAMA**

*Livia Faes, MD*

*(Sponsored by K. Bailey Freund, MD)*

*(continued)*

5:27

**Macular Neovascularization Automated  
Morphologic Extraction in Treated Exudative  
Age-related Macular Degeneration: OCT  
Angiography and Quantitative Assessment**

*Claudia Fossataro, MD*

*(Sponsored by David Sarraf, MD)*

5:34 – 5:40 PM

**Closing Remarks**

*David Sarraf, MD*



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