



# 9<sup>TH</sup> ANNUAL PACIFIC RETINA CLUB

## June 2-3, 2023

Mission Bay Conference Center  
San Francisco, CA



*Presented by*

**INTERNATIONAL  
RETINAL IMAGING  
SOCIETY**

## Beaumont

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Beaumont Health designates this live activity for a maximum of **7.0\* AMA PRA Category 1 Credit(s)**™.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Dear Colleagues,



Welcome to the 9<sup>TH</sup> annual meeting of the Pacific Retina Club!

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 Satta. LAICRS later merged with the WRSC in 2013, bringing together retinal specialists from the entire western coast.

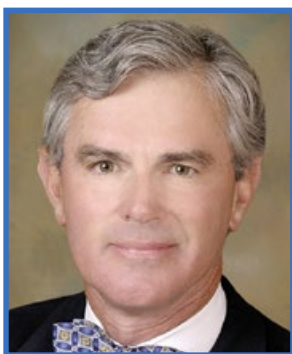
PRC started as a one-day case presentation meeting but evolved into a two-day conference after the Covid Pandemic. This year we have organized a slate of 55 clinical cases to be presented on the first day, as “unknowns” to be discussed by renowned retinal experts from throughout the country. The first day promises to be a marvelous mix of the game show “Jeopardy” and the Oral Board Examination. 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. Richard F. Spaide of New York.

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.

We are indebted to the International Retinal Imaging Society (IntRIS) for their support of this meeting. Without the expertise and professionalism of Medical Conference Planners Intl. this meeting could not take place. We extend a special thank you to Dr. Jacque Duncan, the Chair of the Department of Ophthalmology at UCSF, to Dr. Frank Brodie, and the rest of the UCSF Retina Faculty for their help in securing the Mission Bay Conference Center for this meeting. We look forward to growing the Pacific Retina Club by partnering with UCSF for future meetings. In addition, we hope to expand into new partnerships with our Northern Californian colleagues at Stanford, UC Davis, and Cal-Pacific, as well as with colleagues from Washington, Oregon, Nevada, Arizona, and Hawaii, while continuing to attract a national faculty presence.

Sincerely,

The Program Co-Directors



A handwritten signature in black ink, appearing to read "R. McDonald".

**H. Richard McDonald, MD**  
West Coast Retina, CPMC



A handwritten signature in black ink, appearing to read "S. Satta".

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



A handwritten signature in black ink, appearing to read "D. Sarraf".

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

# FACULTY

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Nisha Acharya, MD, MS

Armin Afshar, MD, MBA

Anita Agarwal, MD

Paul S. Bernstein, MD, PhD

David S. Boyer, MD

Frank L. Brodie, MD, MBA

Alexander J. Brucker, MD

Judy J. Chen, MD

Emmett T. Cunningham, Jr., MD, PhD, MPH

Christine A. Curcio, PhD

Amr Dessouki, MD

Diana V. Do, MD

Jay S. Duker, MD

Amani A. Fawzi, MD

K. Bailey Freund, MD

Roger A. Goldberg, MD, MBA

Mary Elizabeth Hartnett, MD

Michael S. Ip, MD

Robert N. Johnson, MD

J. Michael Jumper, MD

Jesse J. Jung, MD

Baruch D. Kuppermann, MD, PhD

Caesar Luo, MD

Tara A. McCannel, MD, PhD

H. Richard McDonald, MD

William F. Mieler, MD

Andrew A. Moshfeghi, MD, MBA

Darius M. Moshfeghi, MD

Prithvi Mruthyunjaya, MD, MHS

Aaron Nagiel, MD, PhD

Quan D. Nguyen, MD, MSc

Carolyn K. Pan, MD

Mark E. Pennesi, MD, PhD

Dante J. Pieramici, MD

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

Ehsan Rahimy, MD

SriniVas R. Sadda, MD

David Sarraf, MD

Daniel Schwartz, MD

Gaurav K. Shah, MD

Jessica G. Shantha, MD, MSc

Richard F. Spaide, MD

Jay M. Stewart, MD

Edmund Tsui, MD

Robin A. Vora, MD

David J. Wilson, MD

Glenn C. Yiu, MD, PhD



# ALEXANDER R. IRVINE LECTURE

FRIDAY, JUNE 2, 2023 | 11:25 AM

## Foveation

RICHARD F. SPAIDE, MD

**Richard F. Spaide, MD** is a specialist in retinal diseases and has published more than 350 articles in peer-reviewed journals, more than 50 book chapters, and edited several books. He is a graduate of Muhlenberg College and Jefferson Medical College in Philadelphia. He completed his Ophthalmology Residency at St. Vincent's Hospital and Medical Center in New York and his Retina Fellowship at the Manhattan Eye, Ear, and Throat Hospital. His major research interests include macular diseases, retinal surgery, and ocular imaging. Past highlights in his published papers include indocyanine angiography, fundus autofluorescence, characterization of central serous chorioretinopathy, application of mechanical engineering principles to macular hole formation, development of concepts concerning oxidative damage and characterization of lipid peroxides in Bruch's membrane, the combination of photodynamic therapy and intravitreal triamcinolone for age-related macular degeneration, and development of new methodologies to image the retina and choroid. His current research interests include multimodal imaging, optical coherence tomography angiography, and new computer-based rendering techniques to visualize retinal anatomy. Dr. Spaide has been cited in multiple Who's Who and Best Doctors lists and has received many awards including the Richard and Linda Rosenthal Foundation Award in the Visual Sciences, Prix Soubrane de la Recherche en Ophthalmologie, Award of Merit from the Retina Society, Henkind Award, Coscas Award, Nataraja Pillai Award from the Vitreoretinal Society of India, W. Richard Green MD Award, George Theodossiadis Award from the Greek Retinal Society, Founders Award from the American Society of Retinal Surgeons, Life Achievement Honor Award from the American Academy of Ophthalmology, the Simon Gratz Award from Thomas

Jefferson University, Roger Johnson Memorial Award for Macular Degeneration Research, J. Donald Gass Award from the Macula Society, the Doyne Medal, and the Wacker Prize from the Club Jules Gonin. He is a Fellow of the Association for Research and Vision in Ophthalmology. He is on the Editorial Board of several journals, an Associate Editor of the journal *Retina*. In a recent publication by John Ioannidis, MD, DSc recently published a study of the impact of publications by nearly 7 million scientists around the globe and Richard Spaide was ranked in the top 0.01%.

### 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

# CASE PRESENTATIONS (non-CME)^

## FRIDAY | JUNE 2, 2023

<b>6:30 AM – 5:30 PM</b>	<b>Registration</b>
<b>6:30 AM – 4:30 PM</b>	<b>Exhibits</b>
<b>6:30 – 7:25 AM</b>	<b>Breakfast</b>
<b>7:25 – 7:30 AM</b>	<b>Welcome Remarks</b> <i>H. Richard McDonald, MD</i>
<b>7:30 – 9:42 AM</b>	<b>Session 1</b> Chair: <i>H. Richard McDonald, MD</i>
7:30 – 7:36 AM	<i>Néda Abraham, MSc</i>
7:36 – 7:42 AM	<i>Saghar Bagheri, MD, PhD</i>
7:42 – 7:48 AM	<i>Yicheng Bao, MD</i>
7:48 – 7:54 AM	<i>Jacques Bijon, MD</i>
7:54 – 8:00 AM	<i>Charlene Choo, MD</i>
8:00 – 8:06 AM	<i>Christopher Chung, MD, MS</i>
8:06 – 8:12 AM	<i>Sam R. Feldman, MD</i>
8:12 – 8:18 AM	<i>Jodi Hwang, MD</i>
8:18 – 8:24 AM	<i>Georgia Kamboj, MBBS, PhD</i>
8:24 – 8:30 AM	<i>Discussion</i>
8:30 – 8:36 AM	<i>Chu Jian Ma, MD, PhD</i>
8:36 – 8:42 AM	<i>Akshay R. Mentreddy, DO</i>
8:42 – 8:48 AM	<i>Jamie L. Odden, MD, MPH</i>
8:48 – 8:54 AM	<i>Malini V. Pasricha, MD</i>
8:54 – 9:00 AM	<i>Punyanuch Pisitpayat, MD</i>
9:00 – 9:06 AM	<i>Prithvi Ramtohol, MD</i>
9:06 – 9:12 AM	<i>Ahmad Santina, MD</i>
9:12 – 9:18 AM	<i>Craig Schallhorn, MD</i>
9:18 – 9:24 AM	<i>Delu Song, MD, PhD</i>
9:24 – 9:30 AM	<i>Shilo Voichanski, MD</i>
9:30 – 9:36 AM	<i>Jingwen Zhang, MBBS</i>
9:36 – 9:42 AM	<i>Discussion</i>

<b>9:42 – 9:57 AM</b>	<b>Industry Presentations</b>
9:42 – 9:45 AM	<i>Introductions</i>
9:45 – 9:51 AM	<i>Apellis Pharmaceuticals, Inc.</i>
9:51 – 9:54 AM	<i>Castle Biosciences</i>
9:54 – 9:57 AM	<i>Genentech, Inc.</i>
<b>9:57 – 10:30 AM</b>	<b>Break</b>
<b>10:30 – 11:18 AM</b>	<b>Session 2</b> Chair: <i>SriniVas R. Sadda, MD</i>
10:30 – 10:36 AM	<i>Joseph Alsberge, MD</i>
10:36 – 10:42 AM	<i>Benjamin Bakall, MD, PhD</i>
10:42 – 10:48 AM	<i>Ananda Kalevar, MD CM, FRCSC, DABO</i>
10:48 – 10:54 AM	<i>Ala Moshiri, MD, PhD</i>
10:54 – 11:00 AM	<i>J. Michael Jumper, MD</i>
11:00 – 11:06 AM	<i>Paul S. Bernstein, MD, PhD</i>
11:06 – 11:18 AM	<i>Discussion</i>
<b>11:18 – 11:25 AM</b>	<b>Introduction of the Alexander R. Irvine Lecture</b> <i>H. Richard McDonald, MD and David Sarraf, MD</i>
<b>11:25 – 11:55 AM</b>	<b>Alexander R. Irvine Lecture Foveation</b> <i>Richard F. Spaide, MD</i>
<b>11:55 AM – 1:00 PM</b>	<b>Lunch</b>
<b>12:15 – 12:45 PM</b>	<b>Satellite Symposium (non-CME)^ Integrating Treatment After Initial Therapy for Diabetic Macular Edema</b> <i>Ehsan Rahimy, MD</i> Sponsored by Allergan, an AbbVie Company

**1:00 – 3:00 PM**

1:00 – 1:06 PM

1:06 – 1:12 PM

1:12 – 1:18 PM

1:18 – 1:24 PM

1:24 – 1:30 PM

1:30 – 1:36 PM

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2:54 – 3:00 PM

**3:00 – 3:30 PM**

**3:30 – 4:45 PM**

3:30 – 3:36 PM

3:36 – 3:42 PM

3:42 – 3:48 PM

3:48 – 3:54 PM

3:54 – 4:00 PM

4:00 – 4:06 PM

**Session 3**

Chair: *David Sarraf, MD*

*Frank L. Brodie, MD, MBA*

*Judy J. Chen, MD*

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

*Christine A. Curcio, PhD*

*Jay S. Duker, MD*

*K. Bailey Freund, MD*

*Roger A. Goldberg, MD, MBA*

*Robert N. Johnson, MD*

*Discussion*

*Anita Agarwal, MD*

*Jesse J. Jung, MD*

*Tara A. McCannel, MD, PhD*

*William F. Mieler, MD*

*Andrew A. Moshfeghi, MD, MBA*

*Prithvi Mruthyunjaya, MD, MHS*

*Aaron Nagiel, MD, PhD*

*Quan D. Nguyen, MD, MSc*

*Mark E. Pennesi, MD, PhD*

*Discussion*

**Break**

**Session 4**

Chair: *H. Richard McDonald, MD*

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

*Ehsan Rahimy, MD*

*Gaurav K. Shah, MD*

*Jessica G. Shantha, MD, MSc*

*Richard F. Spaide, MD*

*Jay M. Stewart, MD*

4:06 – 4:12 PM

4:12 – 4:18 PM

4:18 – 4:24 PM

4:24 – 4:30 PM

**4:30 – 4:35 PM**

**4:35 – 5:30 PM**

*Edmund Tsui, MD*

*Robin A. Vora, MD*

*Glenn C. Yiu, MD, PhD*

*Discussion*

**Closing Remarks**

*H. Richard McDonald, MD*

**Reception**

*^Not part of the educational activity.*



# COMPREHENSIVE RETINA UPDATE

## SATURDAY | JUNE 3, 2023

7:00 AM – 5:30 PM	<b>Registration</b>	9:10 – 9:40 AM	<b>Session 3: Vitreoretinal Surgery Panel</b> Moderator: <i>H. Richard McDonald, MD</i>  Panelists: <i>Amr Dessouki, MD</i> <i>J. Michael Jumper, MD</i> <i>Carolyn K. Pan, MD</i> <i>Gaurav K. Shah, MD</i> <i>Jay M. Stewart, MD</i>
7:00 AM – 4:00 PM	<b>Exhibits</b>	9:40 – 10:00 AM	<b>Session 4: Tumors</b> Chairs: <i>H. Richard McDonald, MD and Prithvi Mruthyunjaya, MD, MHS</i>
7:00 – 8:00 AM	<b>Breakfast</b>	9:40 – 9:50 AM	Update on Retinal and Choroidal Vascular Tumors <i>William F. Mieler, MD</i>
8:00 – 8:10 AM	<b>Opening Remarks</b> <i>H. Richard McDonald, MD</i>	9:50 – 10:00 AM	Diagnosis of VRL: Imaging and Molecular Biomarkers <i>Jose S. Pulido, MD, MS, MPH, MBA and David Sarraf, MD</i>
8:10 – 9:00 AM	<b>Session 1: Basic Science and Pathology</b> Chairs: <i>Alexander J. Brucker, MD and H. Richard McDonald, MD</i>	10:00 – 10:25 AM	<b>Session 5: Tumor Panel</b> Moderator: <i>Prithvi Mruthyunjaya, MD, MHS</i>  Panelists: <i>Armin Afshar, MD, MBA</i> <i>Robert N. Johnson, MD</i> <i>Tara A. McCannel, MD, PhD</i> <i>William F. Mieler, MD</i> <i>Jose S. Pulido, MD, MS, MPH, MBA</i>
8:10 – 8:20 AM	Update on CRISPR Technology for Neovascular AMD <i>Glenn C. Yiu, MD, PhD</i>	10:25 – 10:50 AM	<b>Break</b>
8:20 – 8:30 AM	Insights into the Ultrastructure and Composition of Subretinal Drusenoid Deposits <i>Christine A. Curcio, PhD</i>	10:50 – 11:20 AM	<b>Session 6: Imaging</b> Chairs: <i>Jay S. Duker MD and K. Bailey Freund, MD</i>
8:30 – 8:40 AM	Lutein and Zeaxanthin for Prevention of Ocular Disease Throughout the Lifespan: They're not just for AMD Anymore <i>Paul S. Bernstein, MD, PhD</i>	10:50 – 11:00 AM	En Face Ultra-Widefield Optical Coherence Tomography of the Vortex Vein System in Central Serous Chorioretinopathy <i>K. Bailey Freund, MD</i>
8:40 – 8:50 AM	Retinal Response to Therapeutic Intervention <i>David J. Wilson, MD</i>		
8:50 – 9:00 AM	Ocular Stiffness Measurement and Mechanobiology <i>Jose S. Pulido, MD, MS, MPH, MBA</i>		
9:00 – 9:10 AM	<b>Session 2: Vitreoretinal Surgery</b> Chairs: <i>Alexander J. Brucker, MD and H. Richard McDonald, MD</i>		
9:00 – 9:10 AM	When the Going Gets Tough... Surgical Management of Complex Vitreoretinal Disease <i>J. Michael Jumper, MD</i>		

11:00 – 11:10 AM	Inflammatory Cells in the Outer Retina in Neovascular AMD <i>Richard F. Spaide, MD</i>	12:15 – 12:40 PM	<b>Session 9: Wet AMD Panel</b> Moderator: <i>Dante J. Pieramici, MD</i>  Panelists: <i>Frank L. Brodie, MD, MBA</i> <i>Judy J. Chen, MD</i> <i>Michael S. Ip, MD</i> <i>Ehsan Rahimy, MD</i>
11:10 – 11:20 AM	Multimodal, Complementary Vascular Imaging: Harnessing AOSLO and OCTA to Understand Diabetic Retinopathy <i>Amani A. Fawzi, MD</i>	12:40 – 2:00 PM	Lunch
11:20 – 11:45 AM	<b>Session 7: Imaging Panel</b> Moderator: <i>Jay S. Duker, MD</i>  Panelists: <i>Anita Agarwal, MD</i> <i>Amani A. Fawzi, MD</i> <i>K. Bailey Freund, MD</i> <i>Richard F. Spaide, MD</i> <i>Robin A. Vora, MD</i>	12:50 – 1:50 PM	<b>Satellite Symposium (non-CME)^</b> <b>Power of 2: Dual-Pathway Inhibition with VABYSMO for the Treatment of Diabetic Macular Edema</b> <i>Roger A. Goldberg, MD, MBA</i> Sponsored by Genentech, Inc.
11:45 AM – 12:15 PM	<b>Session 8: Wet AMD/ Clinical Trials</b> Chairs: <i>David S. Boyer, MD and</i> <i>Dante J. Pieramici, MD</i>	2:00 – 2:20 PM	<b>Session 10: Dry AMD/ Clinical Trials</b> Chairs: <i>Gaurav K. Shah, MD and</i> <i>SriniVas R. Sadda, MD</i>
11:45 – 11:55 AM	Wet AMD: What is in the Pipeline <i>David S. Boyer, MD</i>	2:00 – 2:10 PM	Complement Therapies for Dry AMD <i>SriniVas R. Sadda, MD</i>
11:55 AM – 12:05 PM	ADVM-022 (ixoberogene soroparvovec) Intravitreal Gene Therapy for Neovascular Age-Related Macular Degeneration: 2 Year Study Results from the OPTIC Trial and Rationale for the LUNA Study <i>Michael S. Ip, MD</i>	2:10 – 2:20 PM	Choriocapillaris Preservation: A Novel Therapy for Geographic Atrophy <i>Daniel Schwartz, MD</i>
12:05 – 12:15 PM	Biomarkers of NV AMD and an Approach to the Management of Persistent Fluid <i>David Sarraf, MD</i>	2:20 – 2:55 PM	<b>Session 11: Dry AMD Panel</b> Moderator: <i>Gaurav K. Shah, MD</i>  Panelists: <i>Paul S. Bernstein, MD, PhD</i> <i>Frank L. Brodie, MD, MBA</i> <i>Roger A. Goldberg, MD, MBA</i> <i>Ehsan Rahimy, MD</i>
		2:55 – 3:05 PM	<b>Session 12: Diabetes/ Retinal Vascular Diseases</b> Chairs: <i>Alexander J. Brucker, MD and</i> <i>Baruch D. Kuppermann, MD, PhD</i>



# COMPREHENSIVE RETINA UPDATE (continued) .....

2:55 – 3:05 PM Non-Intraocular Pipeline Therapies for the Treatment of Diabetic Retinopathy & Diabetic Macular Edema  
*Andrew A. Moshfeghi, MD, MBA*

**3:05 – 3:30 PM** **Session 13: Diabetes/Retinal Vascular Diseases Panel**  
Moderator:  
*Baruch D. Kuppermann, MD, PhD*  
Panelists:  
*Diana V. Do, MD*  
*Jesse J. Jung, MD*  
*Caesar Luo, MD*  
*Dante J. Pieramici, MD*

**3:30 – 4:00 PM** **Break**

**4:00 – 4:30 PM** **Session 14: Uveitis Panel**  
Moderator:  
*Emmett T. Cunningham, Jr., MD, PhD, MPH*  
Panelists:  
*Nisha Acharya, MD, MS*  
*Anita Agarwal, MD*  
*Quan D. Nguyen, MD, MSc*  
*Jessica G. Shantha, MD, MSc*  
*Edmund Tsui, MD*

**4:30 – 5:00 PM** **Session 15: Pediatric Retina/Inherited Disease**  
Chairs:  
*Mary Elizabeth Hartnett, MD and Aaron Nagiel, MD, PhD*

4:30 – 4:40 PM Benign Lobular Inner Nuclear Layer Proliferations (BLIPs) of the Retina Associated with Congenital Hypertrophy of the Retinal Pigment Epithelium  
*Aaron Nagiel, MD, PhD*

4:40 – 4:50 PM Are We Close to a Therapy for X-Linked Retinitis Pigmentosa?  
*Mark E. Pennesi, MD, PhD*

4:50 – 5:00 PM Familial Exudative Vitreoretinopathy (FEVR) – A Disease with Many Presentations  
*Mary Elizabeth Hartnett, MD*

**5:00 – 5:25 PM** **Session 16: Pediatric Retina/Inherited Disease Panel**  
Moderator:  
*Darius M. Moshfeghi, MD*

Panelists:  
*Anita Agarwal, MD*  
*Mary Elizabeth Hartnett, MD*  
*Aaron Nagiel, MD, PhD*  
*Mark E. Pennesi, MD, PhD*

**5:25 – 5:30 PM** **Closing Remarks**  
*H. Richard McDonald, MD*

**5:30 – 6:30 PM** **Reception**

*^Not part of the educational activity.*

The Pacific Retina Club gratefully acknowledges  
the following companies for their support:

**DIAMOND**

Apellis Pharmaceuticals, Inc.

**PLATINUM**

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Regeneron Pharmaceuticals, Inc.

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DORC Intl / Dutch Ophthalmic USA  
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