



**Duke Eye Center**



**MARCH 22-23, 2024**

# **10<sup>th</sup> Annual Duke Fellows Advanced Vitreous Surgery Course**

DUKE EYE CENTER • DURHAM, NC

COURSE DIRECTOR

**LEJLA VAJZOVIC, MD, FASRS**

COURSE CO-CHAIRS

**DILRAJ S. GREWAL, MD, FASRS**

**XI CHEN, MD, PhD**

**DURGA S. BORKAR, MD, MMCI**

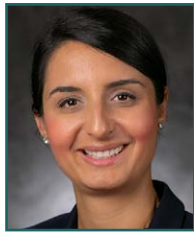
2024



"PROGRESS COMES FROM  
DOING THE UNCONVENTIONAL."

*– Dr. Robert Machemer*

# DUKE RETINA FACULTY



**Lejla Vajzovic, MD, FASRS**  
Course Director



**Dilraj S. Grewal, MD, FASRS**  
Course Co-Chair



**Xi Chen, MD, PhD**  
Course Co-Chair



**Durga S. Borkar, MD, MMCi**  
Course Co-Chair



Oleg Alekseev, MD, PhD



Michael J. Allingham, MD, PhD



Sharon Fekrat, MD, FASRS



Majda Hadziahmetovic, MD



Glenn J. Jaffe, MD



Eleonora G. Lad, MD, PhD



Ramiro S. Maldonado, MD



Arpita S. Maniar, MD



Miguel A. Materin, MD



Prithu S. Mettu, MD



Eric A. Postel, MD



Stefanie G. Schuman, MD



Amol A. Sura, MD



Cynthia A. Toth, MD

Dear Esteemed Participants,

We are thrilled to extend a heartfelt welcome to all trainees, guest faculty, and industry partners to the landmark 10th Annual Duke Fellows Advanced Vitreous Surgery (fAVS) Course, proudly hosted by the esteemed Duke Eye Center Retina Faculty.

This year marks a significant milestone in our journey of education and collaboration, as we celebrate a decade of excellence in advancing vitreoretinal surgery. As we gather for this special anniversary meeting, we reflect on the transformative impact this course has had on countless individuals within our field.

In honoring this momentous occasion, we extend our warmest welcome to North American vitreoretinal surgical, medical retina, and uveitis fellows, alongside our esteemed international colleagues. Additionally, we are delighted to embrace the fresh perspectives of PGY-3 residents embarking on their journey towards retina fellowships.

Our commitment to fostering innovation and excellence remains steadfast, and we are privileged to feature a lineup of distinguished speakers who will share their invaluable insights and expertise. With over 100 fellow and resident participants converging, alongside our esteemed faculty, we anticipate vibrant discussions and unparalleled learning experiences.

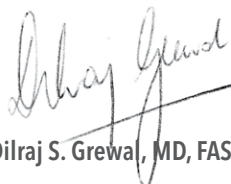
As we embark on this educational journey together, expect a comprehensive retina program encompassing enlightening lectures, engaging interactive panels, and immersive hands-on sessions, tailored to elevate your skills and knowledge.

Your presence is the cornerstone of this celebration, and we are genuinely excited to have you join us. May this anniversary meeting be a testament to the enduring spirit of collaboration and advancement within our retina community.

Warm regards,



Lejla Vajzovic, MD, FASRS



Dilraj S. Grewal, MD, FASRS



Xi Chen, MD, PhD



Durga S. Borkar, MD, MMCi



# DUKE RETINA FACULTY



**Oleg Alekseev, MD, PhD**  
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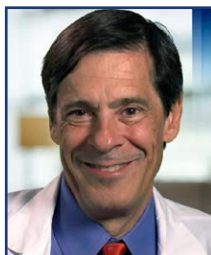
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**Miguel A. Materin, MD**  
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**Lejla Vajzovic, MD, FASRS**  
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# GUEST FACULTY



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Bascom Palmer Eye Institute  
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**John B. Miller, MD**  
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**Frank L. Brodie, MD, MBA**  
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**Prithvi Mruthyunjaya, MD, MHS**  
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**Carl D. Regillo, MD**  
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**Leo Kim, MD, PhD**  
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**Sumit Sharma, MD**  
Cole Eye Institute, Cleveland Clinic  
sumitsharmamd@gmail.com

## 7:00 - 7:50 AM

### Registration and Breakfast Trent Semans 6th Floor

7:00 AM - 5:10 PM

#### Exhibits

7:50 - 8:00 AM

#### Welcome Remarks

Lejla Vajzovic, MD, FASRS

## 8:00 - 9:40 AM

### Session 1: Retinal Pharmacotherapies and AI: What to look forward in 2024 and Beyond

#### Moderators:

Sharon Fekrat, MD, FASRS

Leo Kim, MD, PhD

8:00 - 8:08 AM

#### Neovascular AMD:

##### Clinical Update

Prithu S. Mettu, MD

8:08 - 8:10 AM

#### Discussion

8:10 - 8:18 AM

#### Complement Inhibition in GA

Eleonora G. Lad, MD, PhD

8:18 - 8:20 AM

#### Discussion

8:20 - 8:28 AM

#### Therapeutic Pipeline for Diabetic Eye Diseases

Michael J. Allingham, MD, PhD

8:28 - 8:30 AM

#### Discussion

8:30 - 8:38 AM

#### Biosimilars: What are They and What is Their Role in Retina

Judy E. Kim, MD, FARVO, FASRS

8:38 - 8:40 AM

#### Discussion

8:40 - 8:48 AM

#### Gene Therapy Update

Lejla Vajzovic, MD, FASRS

8:48 - 8:50 AM

#### Discussion

8:50 - 8:58 AM

#### Role of AI in Clinical Trials

Glenn J. Jaffe, MD

8:58 - 9:00 AM

#### Discussion

9:00 - 9:08 AM

#### Latest AI Trend in Ophthalmology in 2024

Daniel S.W. Ting, MD, PhD

9:08 - 9:10 AM

#### Discussion

9:10 - 9:18 AM

#### Deep Learning for AMD Progression Prediction

Majda Hadziahmetovic, MD

9:18 - 9:20 AM

#### Discussion

9:20 - 9:28 AM

#### Pediatric Voretigene Treatment Update

Audina M. Berrocal, MD

9:28 - 9:30 AM

#### Discussion

9:30 - 9:38 AM

#### Best Practices for Intravitreal Injections and Office Based Procedures

Caroline R. Bauman, MD

9:38 - 9:40 AM

#### Discussion

## 9:40 - 10:10 AM

9:40

9:50

9:53

9:56

9:59

10:02

10:04

10:06

10:08

## 10:10 - 10:40 AM

## 10:40 - 11:30 AM

10:40 - 10:48 AM

10:48 - 10:50 AM

10:50 - 10:58 AM

10:58 - 11:00 AM

11:00 - 11:08 AM

11:08 - 11:10 AM

11:10 - 11:18 AM

11:18 - 11:20 AM

11:20 - 11:28 AM

11:28 - 11:30 AM

## 11:30 AM - 12:00 PM Medical Retina Case Panel

#### Moderators:

Michael J. Allingham, MD, PhD

Dilraj S. Grewal, MD

Prithu S. Mettu, MD

#### Panelists:

Caroline R. Bauman, MD

Sharon Fekrat, MD, FASRS

Eleonora G. Lad, MD, PhD

Yannek I. Leiderman, MD, PhD

Ramiro S. Maldonado, MD

John B. Miller, MD

Prithvi Mruthyunjaya, MD, MHS

Stefanie G. Schuman, MD

Sumit Sharma, MD

Daniel S.W. Ting, MD, PhD

## Corporate Presentations

Alcon

Apellis Pharmaceuticals

Genentech, Inc.

Iveric Bio, An Astellas Company

Regeneron Pharmaceuticals, Inc.

Biogen

Castle Biosciences

EyePoint Pharmaceuticals

Notal Vision

## Break

### Trent Semans 6th Floor

## Session 2:

### Inherited Retinal Diseases, Uveitis and Ocular Oncology

#### Moderators:

Audina M. Berrocal, MD

Glenn J. Jaffe, MD

### Inherited Retinal Degenerations: Present and Future

Ramiro S. Maldonado, MD

#### Discussion

### Rethinking XLRS

Audina M. Berrocal, MD

#### Discussion

### Never Say Never:

#### Vitreoretinal Surgery in Eyes with Ocular Tumors

Prithvi Mruthyunjaya, MD, MHS

#### Discussion

### New Radiation Treatment for Uveal Melanoma

Miguel A. Materin, MD

#### Discussion

### Diagnostic Surgery for Uveitis

Sumit Sharma, MD

#### Discussion

12:00 – 12:02 PM **Introduction of the 2023 Robert Machemer Foundation Vitreoretinal Research Scholarship Winner**  
Cynthia A. Toth, MD  
*Chairman, The Robert Machemer Foundation Board*

12:02 – 12:10 PM **Inventing a Lens Capsule Based Extended Drug Delivery Device**  
Charles DeBoer, MD, PhD  
*2023 Robert Machemer MD and International Retinal Research Foundation Fellowship Winner*

**12:10 – 1:10 PM Lunch**  
**Trent Semans 6th Floor**

**1:10 – 2:30 PM Session 3: Crazy Surgical Retina: My Approach**  
*Moderators:*  
John B. Miller, MD  
Prithvi Mruthyunjaya, MD, MHS

1:10 – 1:18 PM **Tackling the Pediatric Hyaloid**  
Xi Chen, MD, PhD

1:18 – 1:20 PM **Discussion**

1:20 – 1:28 PM **Early Vitrectomy for Diabetic Vitreous Hemorrhage**  
Durga S. Borkar, MD, MMCi

1:28 – 1:30 PM **Discussion**

1:30 – 1:38 PM **Optimizing 3D Heads Up Display**  
John B. Miller, MD

1:38 – 1:40 PM **Discussion**

1:40 – 1:48 PM **10 Commandments for Secondary IOLs**  
Dilraj S. Grewal, MD

1:48 – 1:50 PM **Discussion**

1:50 – 1:58 PM **Uveitis Retinal Detachment Repair**  
Sumit Sharma, MD

1:58 – 2:00 PM **Discussion**

2:00 – 2:08 PM **PVR Surgery: Techniques and Pearls**  
Carl D. Regillo, MD

2:08 – 2:10 PM **Discussion**

2:10 – 2:18 PM **Mechanisms and Management of Proliferative Vitreoretinopathy**  
Leo Kim, MD, PhD

2:18 – 2:20 PM **Discussion**

2:20 – 2:28 PM

2:28 – 2:30 PM

**2:30 – 3:10 PM**

**3:10 – 3:27 PM**

3:10

3:13

3:16

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**3:27 – 3:50 PM**

**3:50 – 4:30 PM**

3:50 – 3:58 PM

3:58 – 4:00 PM

4:00 – 4:08 PM

4:08 – 4:10 PM

4:10 – 4:18 PM

4:18 – 4:20 PM

4:20 – 4:28 PM

4:28 – 4:30 PM

**MICROSURGICAL TRAINING - Preparation and Optimizing Performance (Dealing with Your Worst Surgical Nightmare)**

Yannek I. Leiderman, MD, PhD

**Discussion**

**Surgical Rounds Panel**

*Moderators:*

Carl D. Regillo, MD

Cynthia A. Toth, MD

*Panelists:*

Caroline R. Bauman, MD

Audina M. Berrocal, MD

Durga S. Borkar, MD, MMCi

Frank L. Brodie, MD, MBA

Xi Chen, MD, PhD

Judy E. Kim, MD, FARVO, FASRS

Leo Kim, MD, PhD

John B. Miller, MD

Sumit Sharma, MD

Daniel S.W. Ting, MD, PhD

**Corporate Presentations**

Alimera Sciences

Bausch + Lomb

Johnson & Johnson

AbbVie

Retina Today

Norlase

Vortex Surgical

**Break**

**Trent Semans 6th Floor**

**Session 4: Real-World Retina: Job Search and Contract Negotiations**

*Moderators:*

Xi Chen, MD, PhD

Carl D. Regillo, MD

**How to Identify your Dream Academic Job and How to Get It**  
Prithvi Mruthyunjaya, MD, MHS

**Discussion**

**A Pathway to Academic Success**  
Judy E. Kim, MD, FARVO, FASRS

**Discussion**

**Transitioning From Trainee To Teacher**  
Caroline R. Bauman, MD

**Discussion**

**Innovation in Training**  
Frank L. Brodie, MD, MBA

**Discussion**



**4:30 - 5:10 PM**

**The Great Job Search Panel**

*Moderators:*

Sharon Fekrat, MD, FASRS  
Glenn J. Jaffe, MD  
Cynthia A. Toth, MD

*Panelists:*

Audina M. Berrocal, MD  
Durga S. Borkar, MD, MMCI  
Frank L. Brodie, MD, MBA  
Xi Chen, MD, PhD  
Judy E. Kim, MD, FARVO, FASRS  
Leo Kim, MD, PhD  
Yannek I. Leiderman, MD, PhD  
Prithvi Mruthyunjaya, MD, MHS  
Carl D. Regillo, MD  
Sumit Sharma, MD

5:10 - 5:15 PM

**Wrap Up**

Dilraj S. Grewal, MD

5:15 - 6:00 PM

**Tour of Duke University Chapel**

6:00 PM

**Transportation to  
Durham Marriott**

**7:00 PM**

**Dinner at Urban Axes**

*Sponsored by  
Apellis Pharmaceuticals*

## SATURDAY | MARCH 23, 2024

**7:00 - 8:00 AM**

**Breakfast  
Trent Semans 6th Floor**

7:00 AM - 4:20 PM

**Exhibits**

8:00 - 8:15 AM

**What's New in Surgical Retina  
2024: Wet-lab Overview**  
Lejla Vajzovic, MD, FASRS

8:15 - 8:25 AM

**Relocate  
Group 1:  
Hudson Eye Building, 4th floor  
(Room 4510 A/B/C)**

**Group 2:  
Trent Semans Great Hall**

**Group 1 - Hudson Eye Building,  
4th floor (Room 4510 A/B/C)**

**8:25 - 11:25 AM**

**Hands on Experience**

*Faculty:*

Caroline R. Baumal, MD  
Audina M. Berrocal, MD  
Durga S. Borkar, MD, MMCI  
Frank L. Brodie, MD, MBA  
Xi Chen, MD, PhD  
Sharon Fekrat, MD, FASRS  
Dilraj S. Grewal, MD  
Glenn J. Jaffe, MD  
Judy E. Kim, MD, FARVO, FASRS  
Leo Kim, MD, PhD  
Yannek I. Leiderman, MD, PhD  
Miguel A. Materin, MD  
John B. Miller, MD  
Prithvi Mruthyunjaya, MD, MHS  
Carl D. Regillo, MD  
Sumit Sharma, MD  
Daniel S.W. Ting, MD, PhD  
Cynthia A. Toth, MD  
Lejla Vajzovic, MD, FASRS



## Group 2 - Trent Semans Great Hall

<b>8:25 - 9:40 AM</b>	<b>Medical Retina Update: Part 1</b> <i>Moderators:</i> Majda Hadziahmetovic, MD Prithu S. Mettu, MD
8:25 - 8:35 AM	<b>Genetic Testing in IRDs: What Every Fellow Should Know</b> Oleg Alekseev, MD, PhD
8:35 - 8:40 AM	<b>Discussion</b>
8:40 - 8:50 AM	<b>Tips for Management of Retinal Vein Occlusion</b> Michael J. Allingham, MD, PhD
8:50 - 8:55 AM	<b>Discussion</b>
8:55 - 9:05 AM	<b>Photodynamic Therapy for Neovascular Age-Related Macular Degeneration in the Era of Injectables</b> Majda Hadziahmetovic, MD
9:05 - 9:10 AM	<b>Discussion</b>
9:10 - 9:20 AM	<b>Biosimilars in Retina 2024: What you Need to Know</b> Stefanie G. Schuman, MD
9:20 - 9:25 AM	<b>Discussion</b>
9:25 - 9:35 AM	<b>Retinoblastoma and Mimickers</b> Arpita S. Maniar, MD
9:35 - 9:40 AM	<b>Discussion</b>
<b>9:40 - 10:00 AM</b>	<b>Break</b> <b>Trent Semans 6th Floor</b>
<b>10:00 - 10:45 AM</b>	<b>Medical Retina Update: Part 2</b> <i>Moderators:</i> Michael J. Allingham, MD, PhD Stefanie G. Schuman, MD
10:00 - 10:10 AM	<b>Uveitis: New Treatments and Clinical Trials Update</b> Amol A. Sura, MD
10:10 - 10:15 AM	<b>Discussion</b>
10:15 - 10:25 AM	<b>Autoimmune Retinopathies: How to Diagnose and Treat</b> Ramiro S. Maldonado, MD
10:25 - 10:30 AM	<b>Discussion</b>
10:30 - 10:40 AM	<b>Dry AMD: Biomarkers and Therapies in the Pipeline</b> Eleonora G. Lad, MD, PhD
10:40 - 10:45 AM	<b>Discussion</b>
<b>10:45 - 11:25 AM</b>	<b>Medical Retina, Uveitis and IRD Case Panel</b> <i>Moderators:</i> Eleonora G. Lad, MD, PhD Ramiro S. Maldonado, MD  <i>Panelists:</i> Majda Hadziahmetovic, MD Arpita S. Maniar, MD Prithu S. Mettu, MD Stefanie G. Schuman, MD Amol A. Sura, MD

## 11:25 AM - 12:40 PM Lunch and Satellite Event Trent Semans 6th Floor

11:35 AM - 12:20 PM	<b>Satellite Event: Integrating Anti-Inflammatory Treatment for Diabetic Macular Edema</b> Michael A. Singer, MD <i>Sponsored by AbbVie</i>
<b>12:40 - 12:53 PM</b>	<b>Corporate Presentations</b>
12:40	Retina Consultants of America
12:46	DORC Intl / Dutch Ophthalmic USA
12:49	Annexon Bio
12:51	ZEISS
12:53 - 1:00 PM	<b>Relocate</b> <b>Group 1:</b> <b>Trent Semans Great Hall</b>  <b>Group 2:</b> <b>Hudson Eye Building, 4th floor (Room 4510 A/B/C)</b>

**Group 2 - Hudson Eye Building**  
4th floor (Room 4510 A/B/C)

**1:00 - 4:00 PM**

**Hands on Experience**

*Faculty:*

Caroline R. Baumal, MD  
Audina M. Berrocal, MD  
Durga S. Borkar, MD, MMCi  
Frank L. Brodie, MD, MBA  
Xi Chen, MD, PhD  
Sharon Fekrat, MD, FASRS  
Dilraj S. Grewal, MD  
Glenn J. Jaffe, MD  
Judy E. Kim, MD, FARVO, FASRS  
Leo Kim, MD, PhD  
Yannek I. Leiderman, MD, PhD  
Miguel A. Materin, MD  
John B. Miller, MD  
Prithvi Mruthyunjaya, MD, MHS  
Carl D. Regillo, MD  
Sumit Sharma, MD  
Daniel S.W. Ting, MD, PhD  
Cynthia A. Toth, MD  
Lejla Vajzovic, MD, FASRS

**Group 1 - Trent Semans Great Hall**

**1:00 - 2:15 PM**

**Medical Retina Update: Part 1**

*Moderators:*

Majda Hadziahmetovic, MD  
Prithu S. Mettu, MD

1:00 - 1:10 PM

**Genetic Testing in IRDs: What Every Fellow Should Know**

Oleg Alekseev, MD, PhD

1:10 - 1:15 PM

**Discussion**

1:15 - 1:25 PM

**Tips for Management of Retinal Vein Occlusion**

Michael J. Allingham, MD, PhD

1:25 - 1:30 PM

**Discussion**

1:30 - 1:40 PM

**Photodynamic Therapy for Neovascular Age Related Macular Degeneration in the Era of Injectables**

Majda Hadziahmetovic, MD

1:40 - 1:45 PM

**Discussion**

1:45 - 1:55 PM

**Biosimilars in Retina 2024: What you Need to Know**

Stefanie G. Schuman, MD

1:55 - 2:00 PM

**Discussion**

2:00 - 2:10 PM

**Retinoblastoma and Mimickers**

Arpita S. Maniar, MD

2:10 - 2:15 PM

**Discussion**

**2:15 - 2:35 PM**

**Break**

**Trent Semans 6th Floor**

**2:35 - 3:20 PM**

**Medical Retina Update: Part 2**

*Moderators:*

Michael J. Allingham, MD, PhD  
Stefanie G. Schuman, MD

2:35 - 2:45 PM

**Uveitis: New Treatments and Clinical Trials Update**

Amol A. Sura, MD

2:45 - 2:50 PM

**Discussion**

2:50 - 3:00 PM

**Autoimmune Retinopathies: How to Diagnose and Treat**

Ramiro S. Maldonado, MD

3:00 - 3:05 PM

**Discussion**

3:05 - 3:15 PM

**Dry AMD: Biomarkers and Therapies in the Pipeline**

Eleonora G. Lad, MD, PhD

3:15 - 3:20 PM

**Discussion**

**3:20 - 4:00 PM**

**Medical Retina, Uveitis and IRD Case Panel**

*Moderators:*

Prithu S. Mettu, MD  
Stefanie G. Schuman, MD

*Panelists:*

Majda Hadziahmetovic, MD  
Eleonora G. Lad, MD, PhD  
Ramiro S. Maldonado, MD  
Arpita S. Maniar, MD  
Amol A. Sura, MD

**4:00 - 4:20 PM**

**Break and Relocate**  
**Group 1 remains in**  
**Trent Semans Great Hall**  
**Group 2 to Trent**  
**Semans Great Hall**

**4:20 - 4:50 PM**

**Session 5:**  
**Life After Fellowship:**  
**Career Development**  
**and Practice Pearls**  
*Moderators:*  
Sharon Fekrat, MD, FASRS  
Judy E. Kim, MD, FARVO, FASRS

4:20 - 4:28 PM

**My Perspective as a**  
**Clinician Scientist**  
Leo Kim, MD, PhD

4:28 - 4:30 PM

**Discussion**

4:30 - 4:38 PM

**"So I have this idea...."**  
Frank L. Brodie, MD, MBA

4:38 - 4:40 PM

**Discussion**

4:40 - 4:48 PM

**Advancing Your Career**  
Cynthia A. Toth, MD

4:48 - 4:50 PM

**Discussion**

4:50 - 5:00 PM

**Corporate Passport Awards**  
Sharon Fekrat, MD, FASRS

**5:00 - 6:00 PM**

**Session 6:**  
**Classic Duke Vitreoretinal**  
**Rounds Unleashed:**  
**Fellows' Surgical Videos**  
*Moderators:*  
Durga S. Borkar, MD, MMCI  
Lejla Vajzovic, MD, FASRS  
*Panelists:*  
Caroline R. Bauman, MD  
Audina M. Berrocal, MD  
Frank L. Brodie, MD, MBA  
Xi Chen, MD, PhD  
Judy E. Kim, MD, FARVO, FASRS  
Yannek I. Leiderman, MD, PhD  
John B. Miller, MD  
Daniel S.W. Ting, MD, PhD  
*Fellows:*  
Etienne Boulanger, MD  
S. Tammy Hsu, MD  
Tom Liu, MD  
Saumya M. Shah, MD  
Tadashi Yokoi, MD, PhD

6:00 - 6:05 PM

**Closing Remarks**  
Lejla Vajzovic, MD, FASRS

6:05 PM

**Program Adjourns**

6:15 PM

**Transportation to**  
**Durham Marriott**

**7:00 PM**

**Closing Dinner at**  
**Geer Street Garden**



The 10<sup>th</sup> Annual Duke Fellows Advanced Vitreous Surgery Course would like to thank the following industry partners:

**DIAMOND**

Alcon

**PLATNUM**

Retina Consultants of America

**GOLD**

Alimera Sciences	Genentech, Inc.
Apellis Pharmaceuticals	Iveric Bio, An Astellas Company
Bausch + Lomb	Johnson & Johnson
DORC Intl / Dutch Ophthalmic USA	Regeneron Pharmaceuticals, Inc.

**SILVER**

AbbVie	Norlase
Annexon Biosciences	Notal Vision
Biogen	Sandoz
Castle Biosciences	Vortex Surgical
EyePoint Pharmaceuticals	ZEISS

**BRONZE**

Adverum Biotechnologies	Lexitas Pharma Services
EyeBio	Ocular Therapeutix
Heidelberg Engineering	

**EDUCATIONAL GRANTS AND IN-KIND SUPPORT**

Alcon  
Bausch + Lomb  
Carl Zeiss Meditec, Inc.

**EDUCATIONAL GRANTS**

Apellis Pharmaceuticals  
Regeneron Pharmaceuticals, Inc.  
REGENXBIO, Inc.

**MEDIA PARTNER**

Retina Today/EyeTube