



Duke Eye Center

Duke
AVS
COURSE



23RD DUKE ADVANCED VITREOUS SURGERY COURSE

MAY 16-17, 2025
WASHINGTON DUKE INN • 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



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2025



"PROGRESS COMES FROM DOING THE UNCONVENTIONAL."

– *Dr. Robert Machemer*

DUKE RETINA FACULTY



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Course Director



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



Xi Chen, MD, PhD
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Durga S. Borkar, MD, MMCI
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Oleg Alekseev, MD, PhD



Michael J. Allingham, MD, PhD



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Stefanie G. Schuman, MD



Amol A. Sura, MD



Cynthia A. Toth, MD

Dear Colleagues,

On behalf of the entire Duke Eye Center Retina Faculty, it is our great pleasure to welcome you to the 23rd Duke Advanced Vitreous Surgery (AVS) Course at the Washington Duke Inn.

The Duke AVS Course, held biennially, was founded nearly five decades ago by the late Dr. Robert Machemer upon his arrival at Duke as Chair of Ophthalmology. Today, we proudly carry forward his legacy of surgical innovation, education, and collaboration.

This year's course brings together an outstanding group of faculty and approximately 100 vitreoretinal fellows from across the country. We are also pleased to support a select group of PGY-3 residents applying for retina fellowships through our AVS Travel Grant Program.

The course will feature dynamic lectures, expert-led panels, and lively discussions—offering a uniquely interactive learning experience. We are especially honored to welcome several internationally recognized speakers who will share their insights and expertise.

We are thrilled you could join us and hope you find this course both enriching and inspiring.

Warm regards,

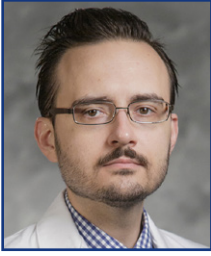
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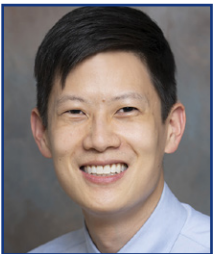
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7:00 AM – 4:45 PM	Registration	10:15 – 11:43 AM	Scientific Session 2: New Paradigms for Retinal Diseases <i>Chairs:</i> Glenn J. Jaffe, MD & Nick Ulrich, MD
7:00 AM – 4:45 PM	Exhibits		
7:00 – 8:00 AM	Breakfast		
8:00 – 8:15 AM	Welcome Remarks Lejla Vajzovic, MD, FASRS	10:15 – 10:23 AM	Optimizing Surgical Outcomes with the Port Delivery System (PDS) Carl C. Awh, MD, FASRS
8:15 – 9:43 AM	Scientific Session 1: Retinal Detachment <i>Chairs:</i> Cynthia A. Toth, MD & David Zacks, MD, PhD	10:23 – 10:31 AM	Gene Therapy: Surgical Tips and Tricks Avni P. Finn, MD, MBA
8:15 – 8:23 AM	Suprachoroidal Buckling for Retinal Detachment Repair Shohista Saidkasimova, FRCOPhth	10:31 – 10:37 AM	Discussion
8:23 – 8:31 AM	Timing and Techniques for Retinal Detachment Repair David Zacks, MD, PhD	10:37 – 10:45 AM	Gene Therapy for AMD: Are We There Yet? Glenn C. Yiu, MD, PhD
8:31 – 8:37 AM	Discussion	10:45 – 10:53 AM	Complement Inhibition in GA Eleonora G. Lad, MD, PhD
8:37 – 8:45 AM	Are all Retinal Breaks the Same? Andrea Govetto, MD, PhD	10:53 – 10:59 AM	Discussion
8:45 – 8:53 AM	Mitigating and Managing Proliferative Vitreoretinopathy Jason Hsu, MD	10:59 – 11:07 AM	AI Innovation in Retina Daniel S.W. Ting, MD, PhD
8:53 – 8:59 AM	Discussion	11:07-11:15 AM	Role of AI in Clinical Trials Glenn J. Jaffe, MD
8:59 – 9:07 AM	Findings from the Wilmer Eye Institute RD Study Group Sally S. Ong, MD	11:15-11:21 AM	Discussion
9:07 – 9:15 AM	Trauma: All Hands-On Deck Lizzy J. Rossin, MD, PhD	11:21-11:29 AM	Inhibiting the Fas Receptor: A Platform for Neuroprotection and Results from Early-Stage Clinical Trials David Zacks, MD, PhD
9:15 – 9:21 AM	Discussion	11:29 – 11:37 AM	Leveraging Real-World Evidence to Enhance Clinical Trials Durga S. Borkar, MD, MMCi
9:21 – 9:29 AM	Cost Effectiveness of Vitreoretinal Treatments William E. Smiddy, MD	11:37 – 11:43 AM	Discussion
9:29 – 9:37 AM	Laser Light Source for Vitreoretinal Surgery Carl C. Awh, MD, FASRS	11:43 AM – 12:15 PM	Drugs and Devices Panel <i>Moderators:</i> Yannek I. Leiderman, MD, PhD & Lejla Vajzovic, MD, FASRS <i>Panelists:</i> Carl C. Awh, MD Glenn J. Jaffe, MD Aleksandra V. Rachitskaya, MD, FASRS Cynthia A. Toth, MD Glenn C. Yiu, MD, PhD David Zacks, MD, PhD
9:37 – 9:43 AM	Discussion		
9:43 – 10:15 AM	Break		

12:15 – 1:40 PM	Lunch and Satellite Symposium (non-CME)	3:25 – 4:40 PM	Scientific Session 3: Macular Surgery I
12:45 – 1:30 PM	Satellite Symposium (non-CME): Beyond Anti-VEGF: Real World Cases in nAMD, DME, and RVO Durga S. Borkar, MD, MMCI & Scott D. Walter, MD, MSc <i>Sponsored by Genentech, Inc.</i>	3:25 – 3:33 PM	Minimizing Peel Induced Maculopathy during Macular Surgery Carl C. Awh, MD, FASRS
1:40 – 2:10 PM	Fellows' Surgical Video Panel 1 (non-CME) <i>Moderators:</i> <i>Xi Chen, MD, PhD & Cynthia A. Toth, MD</i> <i>Panelists:</i> Carl C. Awh, MD Durga S. Borkar, MD, MMCI Javier Elizalde, MD, PhD, FEBO Avni P. Finn, MD, MBA Aleksandra V. Rachitskaya, MD, FASRS Shohista Saidkasimova, FRCOPhth Gavin Tan, MD, PhD, FRCSEd Daniel S.W. Ting, MD, PhD <i>Fellows:</i> Isaac Bleicher, MD Gökçen Deniz Gülpınar İkiz, MD, FICO, FEBO, MRCSEd Yu Te Huang, MD Maria Ludovica Ruggeri, MD, FEBO Yuxi Zheng, MD	3:33 – 3:41 PM	Traumatic Macular Holes Javier Elizalde, MD, PhD, FEBO
		3:41 – 3:47 PM	Discussion
		3:47 – 3:55 PM	Mastering ILM Flaps Avni P. Finn, MD, MBA
		3:55 – 4:03 PM	Complex Macular Holes Nick Ulrich, MD
		4:03 – 4:09 PM	Discussion
		4:09 – 4:40 PM	Macular Surgery Panel <i>Moderators:</i> <i>Sharon Fekrat, MD, FASRS & Yannek I. Leiderman, MD, PhD</i> <i>Panelists:</i> Jason Fan, MD, PhD Andrea Govetto, MD, PhD Lizzy J. Rossin, MD, PhD Shohista Saidkasimova, FRCOPhth William E. Smiddy, MD Gavin Tan, MD, PhD, FRCSEd Daniel S.W. Ting, MD, PhD
2:10 – 2:54 PM	Industry Presentations (non-CME) 2:10 Alcon 2:20 Retina Consultants of America 2:26 Apellis Pharmaceuticals 2:29 Bausch + Lomb 2:32 Genentech, Inc. 2:35 Regeneron Pharmaceuticals, Inc. 2:38 AbbVie 2:40 ANI Pharmaceuticals, Inc. 2:42 EyePoint Pharmaceuticals 2:44 LumiThera, Inc. 2:46 Harrow, Inc. 2:48 MedOne Surgical, Inc. 2:50 Norlase 2:52 REGENXBIO, Inc.	4:40 – 4:45 PM	Closing Remarks Xi Chen, MD, PhD
		4:45 PM	Adjourn
		4:45 – 6:00 PM	Duke Alumni Reception
		6:45 PM	Meet in Washington Duke Inn lobby for a short walk to Dinner at Duke University's Wallace Wade Stadium
2:54 – 3:25 PM	Break	7:00 – 10:00 PM	Dinner at Duke University's Wallace Wade Stadium <i>Sponsored by Astellas</i>

7:00 AM – 5:00 PM	Registration	9:19 – 9:27 AM	Trends in Anesthesia use for the Vitreoretinal Surgery in Ocular Trauma Jason Fan, MD, PhD
7:00 AM – 3:00 PM	Exhibits		
7:00 – 8:00 AM	Breakfast		
8:00 – 8:05 AM	Opening Remarks Durga S. Borkar, MD, MMCi	9:27 – 9:33 AM	Discussion
8:05 – 9:11 AM	Scientific Session 4: Diabetic Retinopathy <i>Chairs:</i> Sharon Fekrat, MD, FASRS & William E. Smiddy, MD	9:33 – 9:41 AM	Is Endoresection for Choroidal Melanoma Still Relevant? Gavin Tan, MD, PhD, FRCSEd
8:05 – 8:13 AM	Therapeutic Pipeline for Diabetic Eye Diseases Michael J. Allingham, MD, PhD	9:41 – 9:49 AM	Management of Uveal Melanoma in 2025 Miguel A. Materin, MD
8:13 – 8:21 AM	GLP-1 Receptor Agonists and Diabetic Retinopathy Majda Hadziahmetovic, MD	9:49 – 9:55 AM	Discussion
8:21 – 8:27 AM	Discussion	9:55 – 10:03 AM	Uveitic Therapeutics Pipeline Update Dilraj S. Grewal, MD, FASRS
8:27 – 8:35 AM	Diabetic Tractional Retinal Detachment Surgery: The Good, the Bad and the Ugly Duckling Sally S. Ong, MD	10:03 – 10:11 AM	What Every Retina Specialist Should Know About Immunosuppression Amol A. Sura, MD
8:35 – 8:43 AM	PRP for PDR: Is There Still a Role for Laser? David Zacks, MD, PhD	10:11 – 10:17 AM	Discussion
8:43 – 8:49 AM	Discussion	10:17 – 10:25 AM	Dislocated IOL Repositioning for Typical and Atypical Designs William E. Smiddy, MD
8:49 – 8:57 AM	Teleophthalmology for Diabetic Eye Screening: Advances & Challenges Glenn C. Yiu, MD, PhD	10:25 – 10:33 AM	IOL Procedures for the VR Surgeon - Scleral Fixated IOLs Yannek I. Leiderman, MD, PhD
8:57 – 9:05 AM	Preemptive Diabetic Vitrectomy Shohista Saidkasimova, FRCOPhth	10:33 – 10:41 AM	Streamlining Gore-Tex Sutured Intraocular Lens Implantation Jason Hsu, MD
9:05 – 9:11 AM	Discussion	10:41 – 10:50 AM	Discussion
9:11 – 10:50 AM	Scientific Session 5: Tumors, Uveitis and Secondary IOL's <i>Chairs:</i> Miguel A. Materin, MD & Glenn C. Yiu, MD, PhD	10:50 – 11:15 AM	Break
9:11 – 9:19 AM	Transvitreal Biopsy Technique for Posterior Choroidal Tumors Javier Elizalde, MD, PhD, FEBO	11:15 AM – 12:07 PM	Scientific Session 6: Macular Surgery II <i>Chairs:</i> Dilraj S. Grewal, MD, FASRS & Shohista Saidkasimova, FRCOPhth
		11:15 – 11:23 AM	Thick Submacular Hemorrhages: Options and Outcomes Jason Hsu, MD

11:23 – 11:31 AM **Metamorphopsia in ERM: How to Maximize Surgical Outcomes**
Andrea Govetto, MD, PhD

11:31 – 11:37 AM **Discussion**

11:37 – 11:45 AM **Vitreomacular Traction Disorders: What, If and How**
William E. Smiddy, MD

11:45 AM– 12:01 PM **Myopic Tractional Maculopathy and Macular Hole Management**
Gavin Tan, MD, PhD, FRCSEd

12:01 – 12:07 PM **Discussion**

12:07 – 12:20 PM **Group Photos**

12:20 – 1:30 PM **Lunch and Satellite Symposium (non-CME)**

12:35 – 1:20 PM **Satellite Symposium (non-CME): The Aflibercept You Know: With More to Explore**
David Chin Yee, MD, FASRS
Sponsored by Regeneron Pharmaceuticals, Inc.

1:30 – 2:00 PM **NCRC Surgical Video Panel (non-CME)**
Co-Moderators:
Dilraj S. Grewal, MD, FASRS
Omar S. Punjabi, MD
Rajiv E. Shah, MD
Panelists:
Javier Elizalde, MD, PhD, FEBO
Andrea Govetto, MD, PhD
Jason Fan, MD, PhD
Jason Hsu, MD
Sally S. Ong, MD
William E. Smiddy, MD
Nick Ulrich, MD
Glenn C. Yiu MD, PhD
David Zacks, MD, PhD

2:00 – 2:30 PM **Industry Presentations (non-CME)**
2:00 Neurotech Pharmaceuticals, Inc.
2:06 ZEISS
2:12 Astellas
2:15 Mallinckrodt Pharmaceuticals
2:18 Castle Biosciences
2:20 4DMT

2:30 – 3:00 PM **Break**

3:00 – 4:50 PM

3:00 – 3:08 PM

3:08 – 3:16 PM

3:16 – 3:22 PM

3:22 – 3:30 PM

3:30 – 3:38 PM

3:38 – 3:44 PM

3:44 – 3:52 PM

3:52 – 4:00 PM

4:00 – 4:06 PM

4:06 – 4:14 PM

4:14 – 4:22 PM

4:22 – 4:28 PM

4:28 – 4:36 PM

4:36 – 4:44 PM

Scientific Session 7: Pediatric Retina and Imaging

Chairs:

Xi Chen, MD, PhD &
Cynthia A. Toth, MD

Approaching Young Patients Without a PVD: Surgical Tips and Tricks
Xi Chen, MD, PhD

FEVR: How to Best Manage this Disease
Gavin Tan, MD, PhD, FRCSEd

Discussion

Pediatric Retinal Diseases in Adulthood
Lejla Vajzovic, MD, FASRS

Multimodal Imaging in Adults with History of Prematurity
Aleksandra V. Rachitskaya, MD, FASRS

Discussion

Inherited Retinal Diseases: Present and Future
Ramiro S. Maldonado, MD

Surgical Management of Tractional Complications Related to Combined Hamartoma
Javier Elizalde, MD, PhD, FEBO

Discussion

Oculomics: How Retinal Imaging Can Improve the Management of Systemic Diseases
Gavin Tan, MD, PhD, FRCSEd

Integrating Home OCT in Clinical Practice
Majda Hadziahmetovic, MD

Discussion

Multimodal Imaging in Retinal Retinoschisis and Progression over Time
Aleksandra V. Rachitskaya, MD, FASRS

OCT Imaging in ROP
Xi Chen, MD, PhD

4:44 – 4:50 PM	Discussion
4:50 – 5:00 PM	Closing Remarks Lejla Vajzovic, MD, FASRS
5:00 PM	Adjourn
6:30 PM	Shuttles from Washington Duke Inn to Dinner
7:00 – 10:00 PM	Dinner at Geer Street Garden <i>Sponsored by 4DMT</i>

The 23rd Duke Advanced Vitreous Surgery Course
gratefully acknowledges the following industry partners:

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