

**Inspiration. Innovation. Impact.**

**2026 Program**

# NANOS

**52<sup>ND</sup> ANNUAL MEETING**

MARCH 20 - 24 • MARRIOTT COPLEY PLACE • BOSTON, MA





# VIRIDIAN THERAPEUTICS

## FDA APPLICATION ACCEPTED

Viridian submitted a Biologics License Application to the FDA for an investigational Thyroid Eye Disease therapy\* and received Breakthrough Therapy Designation and Priority Review



EXPLORE OUR RESEARCH  
IN THYROID EYE DISEASE

\*The safety and efficacy of this product has not been established.



## NANOS Mission Statement

The North American Neuro-Ophthalmology Society (NANOS) is dedicated to achieving inclusive excellence in the care of patients with neuro-ophthalmic diseases by the support and promotion of equitable education, research, and the practice of neuro-ophthalmology.

# Welcome

to the North American Neuro-Ophthalmology Society (NANOS) 52nd Annual Meeting in Boston. It is a privilege to gather with you once again as we continue the work that defines our specialty.

NANOS has always been more than a meeting. It is a community—one built on curiosity, collaboration, and a shared commitment to advancing the care of patients with complex neuro-ophthalmic conditions. Each year, this gathering offers us the opportunity to reconnect with colleagues, welcome new members into the field, and engage in the conversations that move our specialty forward.

This year's program reflects the breadth and depth of neuro-ophthalmology today. The Scientific Program Committee has crafted a schedule that brings together cutting-edge research, case-based learning, cross-disciplinary dialogue, and practical skill-building. From scientific platforms and symposia to workshops and informal exchanges, the meeting is designed to support clinicians and scientists at every stage of their careers. It is a place where new ideas emerge, where difficult questions are explored, and where the collective expertise of our community becomes a catalyst for growth.

As always, the strength of this meeting lies in the people who make it possible. I am deeply grateful to the Scientific Program Committee, the Walsh Committee and Organizers, the Abstract Committee, the Development Committee, our dedicated faculty, the NANOS Executive Office, and the many volunteers who give their time and energy to this organization. Your commitment ensures that NANOS remains a home for rigorous science, thoughtful dialogue, and meaningful connection.

I also want to acknowledge the spirit of mentorship and generosity that defines this community. Whether you are attending your first meeting or returning for your twentieth, you will find colleagues who are eager to share their experience, offer guidance, and learn alongside you. This culture of openness is one of the greatest strengths of NANOS, and it is what makes this gathering such an important moment each year.

Thank you for being part of this community and for the work you do every day to advance our field. I am honored to welcome you to Boston and to this year's Annual Meeting. I hope the days ahead bring insight, inspiration, and the connections that sustain our shared mission.

Welcome to NANOS 2026. Enjoy the meeting.

Peter A. Quirós, MD  
NANOS President



### 2026 Exhibitor Hours

Saturday: 10:00 am – 6:00 pm  
Sunday: 6:30 am – 7:30 am (poster session)  
9:00 am – 8:00 pm  
1:30 pm - 3:30pm (poster session)  
6:00 pm – 8:00 pm (poster session)  
Monday: 7:00 am – 8:00 am (poster session)  
9:30 am – 7:00 pm

### Registration Desk Hours

Friday: 3:00 pm – 9:00 pm  
Saturday: 6:30 am – 5:30 pm  
Sunday: 6:30 am – 5:30 pm  
Monday: 6:30 am – 5:30 pm

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# Mobile App

The NANOS Annual Meeting is a living, connected community—and the mobile app is how you stay in step with it all by helping you:

- **Stay oriented** with real-time schedule updates and room locations.
- **Engage fully** with session Q&A, feedback tools, and CME tracking.
- **Connect easily** through the attendee directory and in-app chat.
- **Access everything** from syllabi to Walsh Cases to program details.
- **Never miss a moment** with push notifications for key updates.

To be part of the moments that shape this year’s meeting, begin by downloading the app.



## How to Get Started

1. **Download the App.** Search for “NANOS Connect” in your app store, or scan the QR code provided above.
2. **Install & Open.** Look for the NANOS logo and tap Download.
3. **Log In.** Press “Login to NANOS” and enter the same credentials you used for meeting registration. Forgot your password? You can reset it at [nanosweb.org](https://nanosweb.org).
4. **Enable Notifications.** Say “Yes” to push notifications so you receive reminders, updates, and important announcements throughout the meeting.
5. **You’re In!** Your app will reopen automatically. If your browser asks to open the app, simply accept.



# The NANOS Executive Office

Supporting the community that moves neuro-ophthalmology forward.

Behind every Annual Meeting, every member experience, and every initiative that strengthens our specialty is a team dedicated to serving the NANOS community with clarity, care, and professionalism. The Executive Office is here to support you—whether you're presenting, attending, volunteering, mentoring, or simply reconnecting with colleagues who understand your work.

Our staff partners closely with the Board, committees, faculty, and members throughout the year to ensure that NANOS remains a home for rigorous science, meaningful connections, and shared purpose. If you have questions, need assistance, or want to get more involved, we're here to help.



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# Leadership

## Board of Directors

Peter A. Quiros, MD—*President*

Heather E. Moss, MD, PhD—*President Elect*

Prem Subramanian, MD, PhD—*Past President/Board Chair*

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Nancy J. Newman, MD—*Sr VP for Neuro-Ophthalmic Education*

Larry Frohman, MD—*Executive Vice President*

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Lindsey DeLott, MD—*Member at Large*

Julie Falardeau, MD—*Member at Large*

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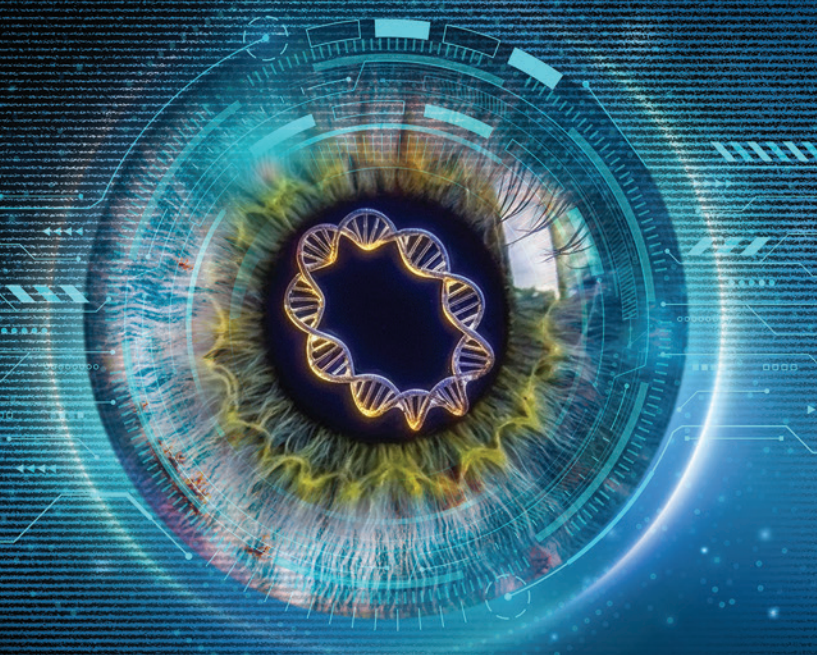
Victoria Pelak, MD—*Member at Large*

Susan Mollan, MBCHB, FRCOPHTH—*International Board Member*

**The NANOS Board of Directors provides steady, thoughtful leadership that keeps our mission moving forward. Their work reflects a shared commitment to service—guiding the organization, supporting our members, and strengthening the future of neuro-ophthalmology with clarity and purpose.**

# FUTURE IN FOCUS

## EXPERT PERSPECTIVES ON LEBER HEREDITARY OPTIC NEUROPATHY (LHON)



### JOIN US

Monday, March 23, 2026

12:30 PM – 1:30 PM

Gloucester Room

Boston Marriott Copley Place

Boston, Massachusetts

### Lunch to be served

Join us for an engaging and informative session where expert faculty explore the genetic and clinical characteristics of LHON, including its natural history, clinical course, and prognosis.

The program provides a comprehensive overview of the US LHON experience, highlighting real-world diagnostic and clinical management challenges.

Attendees will also learn about the current clinical evidence surrounding emerging and novel therapies, and considerations for their use in real-world patient management.

### AGENDA & FACULTY

#### Clinical Evidence for Emerging and Novel Therapies in LHON



**Nancy J. Newman, MD, Chairperson**

Emory Eye Center, Emory University School of Medicine, Atlanta, Georgia

#### Current Understanding of Genetics, Phenotypes, Prognosis, and Natural History of LHON



**Alfredo A. Sadun, MD, PhD**

Doheny Eye Institute, UCLA School of Medicine, Los Angeles, California

#### Current Management of LHON in the US: Diagnosis, Unmet Need, and Treatment Strategy



**Y. Joyce Liao, MD, PhD**

Stanford Byers Eye Institute, Stanford University School of Medicine, Palo Alto, California

#### Panel Discussion and Q & A: All

# Membership. Mentorship. Momentum.

*“Before joining NANOS, I thought of medicine as something which was an individual endeavor.*

*Since being part of this organization, I recognize we work together to build our specialty and honor the traditions of those who have set the foundation.”*

*—John Pula, MD*

Membership in NANOS connects you to the people, resources, and shared purpose that strengthen our specialty throughout the year. It is a professional home built on collaboration, mentorship, and the collective advancement of neuro-ophthalmology.

As a member, you gain access to the premier neuro-ophthalmology education in North America, a global network of colleagues who understand your clinical reality, and opportunities to contribute through committees, leadership, and research. You also receive a subscription to the Journal of Neuro-Ophthalmology and benefit from advocacy that represents the specialty at the national level.

#### NANOS Membership Features:

- Online access to the Journal of Neuro-Ophthalmology
- Discounted Annual Meeting registration (including CME)
- Member resources: curricula, patient materials, and the Neuro-Ophthalmology Collection
- Community tools: member directory, discussion forums, and networking opportunities
- Career and leadership pathways: job postings, committees, and leadership roles

**Learn more or join at:**



## CME Information

### Joint Accreditation

In support of improving patient care, this activity has been planned and implemented by Medical Education Resources (MER) and the North American Neuro-Ophthalmology Society (NANOS). MER 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.

### Statement of Need

The purpose of the North American Neuro-Ophthalmology Society's Continuing Medical Education (CME) program is to present neuro-ophthalmologists with quality lifelong learning opportunities to promote improvement and change in physician practices, performance, and competence needed to provide the best possible neuro-ophthalmic care for their patients.

### Educational Objectives

After completing this activity, participants should be better able to:

- Identify recent advances in the diagnosis and treatment of neuro-ophthalmic diseases.
- Identify advances in key areas of cutting-edge research and technology in neuro-ophthalmology.
- Apply skills and techniques from the educational sessions into their daily practice.

### Target Audience

This activity is designed to meet the educational needs of neuro-ophthalmologists (neurologists and ophthalmologists) involved in the care of patients with neuro-ophthalmic disorders.

### Disclosure of Relevant Financial Relationships

Medical Education Resources ensures balance, independence, objectivity, and scientific rigor in all educational activities. In accordance with this policy, MER identifies relevant financial relationships with instructors, content managers, and other individuals who are in a position to control the content of an activity. Reported relevant financial relationships are mitigated by MER to ensure that all scientific research referred to, reported, or used in a CE activity conforms to accepted standards of experimental design, data collection, and analysis. MER is committed to providing learners with high-quality CE activities that promote

improvements in healthcare and not the business interests of an ineligible company.

### Credit Designation

Medical Education Resources designates this live activity for a maximum of 25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Jointly provided by Medical Education Resources and the North American Neuro-Ophthalmology Society.

## Self-Assessment Credit

### ABPN Self-Assessment Credit

The American Board of Psychiatry and Neurology (ABPN) has reviewed the 2026 NANOS Annual Meeting and has approved this activity as part of a comprehensive Self-Assessment (SA) CME activity, which is mandated by the ABMS as a necessary component of Continuing Certification.

### ABO Self-Assessment Credit

As of 2023, the American Board of Ophthalmology (ABO) is no longer participating in the ACCME collaboration. NANOS is no longer able to upload ABO credit directly through the ACCME site. Diplomates will self-report and attest to the amount of credit they claim when submitting credit. Complete information regarding ABO Self-Assessment CME Maintenance of Certification requirements is available at: <https://abop.org/maintain-certification>

## Claiming CME is as easy as 1-2-3

- 1. Complete the meeting evaluation** by clicking the CME icon in the NANOS 2026 app. The evaluation must be submitted before CME credits can be issued.
- 2. Download your CME certificate** once you submit the evaluation. You will receive a link to download your certificate and an email confirmation with the same link.
- 3. Complete the Pre-Test and Post-Test** and self-report this data if claiming Maintenance of Certification (MOC) credits; complete as MOC reporting is separate from ACCME credit submission.

# Program

**Program Notice: Content in this schedule is accurate as of March 4, 2026. Because updates may occur after printing, some details may have changed. For the most current information, please refer to our digital resources.**

*Times are listed in eastern standard time (EST).*

## FRIDAY, MARCH 20th

11:00 am – 3:00 pm	<b>NANOS Board of Directors Meeting</b> ( <i>board members only</i> )	Regis
3:00 pm – 9:00 pm	<b>Registration/Help Desk</b>	3rd Floor Atrium
4:15 pm – 5:00 pm	<b>Presidential Lecture at AAPOS by John G. Samuels</b> ( <i>advanced registration required</i> ) Mingle with the members of the American Association for Pediatric Ophthalmology and Strabismus and attend an inspiring lecture on “the IDEA of belonging.” Sign up as part of online registration. Attendees are responsible for their own transportation to the venue, please allow at least 30 minutes for travel.	Westin Seaport Hotel
5:00 pm – 9:00 pm	<b>NANOS Activity Fair</b> Pick up your NANOS badge, grab a drink, catch up with old friends and meet new ones while learning about NANOS and neuro-ophthalmology opportunities and resources at the meeting and beyond. Drink tickets printed with your badge, will be accepted.	3rd Floor Atrium
5:00 pm – 6:00 pm	<b>Walsh Practice &amp; Orientation</b> ( <i>Walsh presenters &amp; moderators only</i> ) Mandatory for all Walsh presenters and moderators.	Salon G-K
5:00 pm – 6:00 pm	<b>Descriptive Posters Set-Up</b> If presenters are unable to meet these times, they may set up their posters as soon as they are onsite during registration desk hours. We kindly ask all presenters to ensure their posters are displayed prior to the start of the poster session on Saturday at 1:30 pm to avoid any disruption. Thank you for your understanding and cooperation!	Back Bay Exhibit Hall

## SATURDAY, MARCH 21st

6:30 am – 5:30 pm	<b>Registration/Help Desk</b>	4th Floor Registration Booth
7:00 am – 8:00 am	<b>Breakfast</b>	Salon G-K
7:00 am – 8:00 am	<b>NOVEL/Editorial Board/Illustrated Curriculum Committee Meeting</b> ( <i>committee members only</i> )	Provincetown
7:00 am - 8:00 pm	<b>YONO Breakfast with Experts</b> - Career Pathways for the Neurology-Trained Neuro Ophthalmologist - Career Pathways for the Ophthalmology-Trained Neuro Ophthalmologist - What I Wish I Knew in the First 5 Years	Salon G-K
7:00 am – 12:00 pm	<b>Descriptive Posters Set-Up</b> If presenters are unable to meet these times, they may set up their posters as soon as they are onsite during registration desk hours. We kindly ask all presenters to ensure their posters are displayed prior to the start of the poster session on Saturday at 1:30 pm to avoid any disruption. Thank you for your understanding and cooperation!	Back Bay Exhibit Hall

## SATURDAY, MARCH 21st (continued)

### 58th Frank B. Walsh Symposium

Host: Harvard Medical School

Lead Host: Gena Heidary, MD, PhD

Host Committee Members: Joseph Rizzo III, MD; Eric Gaier, MD, PhD; Ryan Gise, MD; Tais Estrela, MD

Expert Panel: Neuroradiologist - Mary Beth Cunnane, MD; Neuropathologists - Matthew Frosch, MD, PhD; Anna M. Stagner, MD

These sessions will present complex cases that impact the visual pathways and ocular motor systems. The format is a clinicopathologic conference. Clinical cases will be presented by neuro-ophthalmologists with comments by invited experts in neuro-radiology and neuro-pathology. Neuroimaging, laboratory, and surgical pathology data will illustrate clinical points. Cases will be discussed from clinical, anatomic, radiologic, and pathologic aspects with emphasis on diagnosis, pathophysiology, and management.

Upon completion of these sessions, participants should be able to:

- (1) Describe the varied clinical presentations of neuro-ophthalmic disease.
- (2) Formulate effective diagnostic testing strategies for complex neuro-ophthalmic cases including the use of new diagnostic tests.
- (3) Explain the value and limitations of neuropathology and neuroimaging.
- (4) Identify newly described neuro-ophthalmic diseases in clinical practice.

#### Frank B. Walsh I [2.0 CME] Moderators: Joseph Rizzo III, MD; Nurhan Torun, MD; Bart Chwalisz, MD

8:00 am – 8:15 am	Welcome/Introduction Heather Moss, MD, PhD; John Chen, MD, PhD; Lindsay DeLott MD, MS; Gena Heidary, MD, PhD & Joseph Rizzo III, MD	Salon A-F
8:15 am – 8:35 am	Bright Ain't Right: When Optic Nerve Enhancement Persists Lauren Colwell, MD	Salon A-F
8:35 am – 8:55 am	More than Skin Deep: When the Skin Talks and the Brain Listens Sannah Vasaya, DO	Salon A-F
8:55 am – 9:15 am	A Diagnosis in Plain Sight Stephanie Syc-Mazurek, MD, PhD	Salon A-F
9:15 am – 9:35 am	DNA on Tap Sydney R. Roston, MD	Salon A-F
9:35 am – 9:55 am	Acute Monocular Vision Loss: A Diagnostic Labyrinth J. Tatiana Hathaway, MD, MPH	Salon A-F
9:55 am – 10:00 am	Wrap Up Joseph Rizzo III, MD; Nurhan Torun, MD; Bart Chwalisz, MD	Salon A-F
10:00 am – 6:00 pm	<b>Exhibit Hours</b>	Back Bay Exhibit Hall
10:00 am – 10:30 am	<b>Morning Coffee Break with Exhibitors</b> Sponsored by Oculis	Back Bay Exhibit Hall

#### Frank B. Walsh II [2.0 CME] Moderators: Tais Estrela, MD; Robert Mallery, MD; Marc Bouffard, MD

10:30 am - 10:35 am	Introduction Tais Estrela, MD; Robert Mallery, MD; Marc Bouffard, MD	Salon A-F
10:35 am – 10:55 am	A Wolf in Sheep's Coating Sahar Noorani, MD	Salon A-F
10:55 am – 11:15 am	Beyond the Usual Suspects: When Painless Progressive Vision Loss and Neuroimaging Don't Align Neringa Jurkute, MD, PhD, FEBO	Salon A-F
11:15 am – 11:35 am	Hummingbird -A Jabbing and Terrifying Monster Shikha Bassi Talwar, FRCS	Salon A-F
11:35 am – 11:55 am	When the Retina Spoke Up Sumana Naidu, MD	Salon A-F
11:55 am – 12:15 pm	If Referred by Retina, it's Retinal...or Not? Abigail Healy, MD	Salon A-F
12:15 pm – 12:20 pm	Wrap-Up Tais Estrela, MD; Robert Mallery, MD; Marc Bouffard, MD	Salon A-F

12:20 pm – 12:30 pm	<b>NANOS Award Presentations</b>	Salon A-F
12:30 pm – 1:00 pm	<b>NANOS Business Meeting</b> ( <i>all invited</i> )	Salon A-F
1:00 pm – 1:30 pm	<b>Lunch</b> Sponsored by UCB	Salon G-K
1:00 pm – 2:00 pm	<b>Fellowship Committee Meeting</b> ( <i>lunch provided/ committee members only</i> )	Regis
1:30 pm – 3:30 pm	<b>Meet the Poster Author: Descriptive Studies</b> In this poster session, the first authors of case reports and case series will be available to answer questions about their posters in person. This is a great opportunity to interact with trainees and expand your knowledge about interesting and unusual presentations of neuro-ophthalmologic conditions.	Back Bay Exhibit Hall
	1:30 pm – 2:30 pm	Session I: Authors standing by odd numbered posters
	2:30 pm – 3:30 pm	Session II: Authors standing by even numbered posters
3:00 pm – 3:30 pm	<b>Afternoon Coffee Break with Exhibitors</b> Sponsored by Oculis	Back Bay Exhibit Hall

**Frank B. Walsh III** [2.0 CME] Moderators: Gena Heidary, MD, PhD; Eric Gaier, MD, PhD; Ryan Gise, MD

3:30 pm - 3:35 pm	Introduction Gena Heidary, MD, PhD; Eric Gaier, MD, PhD; Ryan Gise, MD	Salon A-F
3:35 pm – 3:55 pm	A Diagnosis Bubbles to the Surface Madhura Shah, MD	Salon A-F
3:55 pm – 4:15 pm	One gene to explain them all? Jorge Cárdenas-Belaunzarán, MD, MSc	Salon A-F
4:15 pm – 4:35 pm	Hidden in Not So Plain Sight Steven F. Stasheff, MD, PhD	Salon A-F
4:35 pm – 4:55 pm	Low Visibility & An Air Traffic Control Outage Aaron Warning, MD	Salon A-F
4:55 pm – 5:15 pm	In the Garden of the Rare Blooms the Profound Zofia Hetman, MD	Salon A-F
5:15 pm – 5:20 pm	Wrap-up Gena Heidary, MD, PhD; Eric Gaier, MD, PhD; Ryan Gise, MD	Salon A-F
5:20 pm – 5:30 pm	Closing remarks John Chen, MD, PhD and Lindsey De Lott, MD, MS	Salon A-F
5:30 pm – 6:00 pm	<b>Walsh Committee Meeting</b> ( <i>committee members only</i> )	Regis
6:00 pm – 9:00 pm	<b>Welcome Reception</b> Sponsored by Viridian ( <i>advanced registration required</i> ) Ascend to the 52nd floor observation deck of the Prudential tower to reconnect with your NANOS colleagues and enjoy immersive exhibits alongside bird’s eye view of Boston. Hors d’oeuvres, included with registration and drink tickets printed with your badge will be accepted. View Boston is a 10 minute indoor walk from the conference venue.	View Boston <b>SOLD OUT</b>

**SUNDAY, MARCH 22nd**

6:00 am – 6:45 am	<b>Yoga with the NANOS President</b> ( <i>advanced registration required</i> )	Hyannis
6:30 am – 5:30 pm	<b>Registration/Help Desk</b>	4th Floor Registration Booth
6:30 am – 7:30 am	<b>Breakfast</b>	Salon G-K
6:30 am – 7:30 am	<b>Descriptive Poster Encore</b> ( <i>no author standby</i> ) Poster authors are encouraged to leave their posters on display for perusal during breakfast. Descriptive posters not removed by authors by the end of this session will be removed by NANOS staff and stored in the registration area until the end of the NANOS 52nd annual meeting.	Back Bay Exhibit Hall

**SUNDAY, MARCH 22nd (continued)**

6:30 am - 7:30 am	<b>YONO Breakfast With Experts</b> - Compensation Structures - Finding a Great Mentor	Salon G-K
6:30 am – 7:30 am	<b>JNO Editorial Board Committee Meeting</b> ( <i>board members only</i> )	Regis
6:30 am – 7:30 am	<b>EYE AM NANOS Committee Meeting</b> ( <i>committee members only</i> )	Provincetown
7:00 am – 7:25 am	<b>NAION: A Closer Look at Disease Burden and Therapeutic Gaps</b> ( <i>healthcare providers only</i> ) This non-CME breakfast symposium is an industry-sponsored activity organized by Dompe and is intended for healthcare professionals only. The NANOS Program Committee was not involved in the planning of this event. Breakfast will be served.	Gloucester
7:30 am – 9:00 am	<p><b>Small Patients, Big Mysteries: Diagnostic &amp; Management Dilemmas that Test the Experts of AAPOS &amp; NANOS</b> [1.50 CME] <b>Breakfast will be provided</b></p> <p>Live from AAPOS: Moderator - Jason Peragallo, MD; Panelists - Elena Bitrian, MD; Stefanie Davidson, MD; Efren Gonzalez, MD. Live at NANOS: Moderator - Rob Avery, DO; Panelists - Alexis Flowers MD; Grant Liu; MD, Ellen Mitchell, MD</p> <p>This combined AAPOS and NANOS workshop will discuss pediatric ophthalmology cases in which the diagnosis, findings, and / or treatment pose a clinical dilemma to even an experienced pediatric ophthalmologist. These cases may include rare diagnoses or more common diagnoses with unusual presentations and / or atypical courses. Discussion will include the experiences with similar cases of a panel of seasoned pediatric ophthalmologists, as well as audience participants, and consideration of alternative evaluation and treatment plans.</p> <p>Upon completion of this session, participants should be able to:</p> <ol style="list-style-type: none"> <li>(1) To share experiences and strategies for the diagnosis and management of challenging non-strabismus pediatric ophthalmology cases.</li> <li>(2) The practitioner in the audience is expected to gain new insights into the clinical reasoning behind each diagnosis and the purpose of any intervention</li> <li>(3) Be able to describe the treatment and approach to pediatric neuro-ophthalmic disease</li> </ol>	Salon A-F
9:00 am – 9:15 am	<b>Morning Coffee Break</b> Sponsored by Oculis	Salon G-K & Back Bay Exhibit Hall
9:00 am – 5:00 pm	<b>Analytical Posters Set-Up</b> We kindly ask all presenters to ensure their posters are displayed prior to the start of the poster session on Sunday at 6:00 pm to avoid any disruption. Thank you for your understanding and cooperation!	Back Bay Exhibit Hall
9:15 am – 10:45 am	<p><b>Two Eyes, Two Images, Two Subspecialties: A Strabismus Case Symposium Featuring Experts from AAPOS and NANOS</b> [1.5 CME]</p> <p>Live from AAPOS: Moderator - Stacy Pineles, MD; Panelists - Janet Alexander, MD; Ramesh Kekunnaya, MD; Federico Velez, MD. Live at NANOS: Moderator - Nicholas J. Volpe, MD; Panelists - Jane Edmond, MD; Mays El Dairi, MD; Veeral Shah, MD, PhD</p> <p>The workshop will consist of case-based presentations of patients with interesting and/or difficult forms of strabismus. Each panelist will present a difficult strabismus case for discussion by other panelists and the audience. The cases will be related to Neuro-Ophthalmology, as well as craniofacial and complicated childhood strabismus cases. Panelists will discuss the differential diagnoses and potential treatment options.</p> <p>Upon completion of this session, participants should be able to:</p> <ol style="list-style-type: none"> <li>(1) Describe complicated patterns of strabismus due to neurological diseases</li> <li>(2) Discuss various surgical approaches to complex paralytic strabismus</li> <li>(3) Discuss surgical approaches to multiplanar nystagmus</li> </ol>	Salon A-F

9:00 am – 8:00 pm	<b>Exhibit Hours</b>	Back Bay Exhibit Hall								
10:45 am – 11:15 am	<b>Morning Coffee Break with Exhibitors</b> Sponsored by Oculis	Back Bay Exhibit Hall								
11:15 am – 12:45 pm	<p><b>Bugs, Brains and Blindness</b> [1.5 CME] Moderators: Drew Carey, MD &amp; Nora S. Lincoff, MD.</p> <p>The diagnosis and management of neuro-ophthalmic manifestations of infectious diseases and infectious uveitides are a complex and evolving challenge. The clinical spectrum, causative agents, and therapeutic strategies are continuously changing, influenced by factors such as emerging pathogens, drug resistance, the increasing population of immunocompromised patients, as well as spread of old and novel pathogens in an increasingly interconnected world. This session aims to provide neuro-ophthalmologists with a practical, case-based update on the latest developments in the diagnosis and treatment of these vision-threatening and potentially life-threatening conditions.</p> <p>Upon completion of this session, participants should be able to:</p> <ul style="list-style-type: none"> <li>(1) Assess when patients with visual complications from neuro-infectious disease warrant IV anti-microbial treatment vs oral therapies</li> <li>(2) Identify clues on the eye exam that point to infectious causes of uveitis in patients presenting to neuro-ophthalmic clinic</li> <li>(3) Formulate an evidence-based diagnostic plan to assess patients for neuro-infectious organisms</li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">11:15 am – 11:45 am</td> <td>Updates in Neuro-Infectious Disease Caleb McEntire, MD</td> </tr> <tr> <td>1:45 am – 12:15 pm</td> <td>Updates in Infectious Uveitis Lucia Sobrin, MD, MPH</td> </tr> <tr> <td>12:15 pm – 12:30 pm</td> <td>Case for Discussion Jorge Cárdenas-Belaunzarán, MD, MSc</td> </tr> <tr> <td>12:30 pm – 12:45 pm</td> <td>Case for Discussion Deena Tajifirouz, MD</td> </tr> </table>	11:15 am – 11:45 am	Updates in Neuro-Infectious Disease Caleb McEntire, MD	1:45 am – 12:15 pm	Updates in Infectious Uveitis Lucia Sobrin, MD, MPH	12:15 pm – 12:30 pm	Case for Discussion Jorge Cárdenas-Belaunzarán, MD, MSc	12:30 pm – 12:45 pm	Case for Discussion Deena Tajifirouz, MD	Salon A-F
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12:45 pm – 1:45 pm	<p><b>Bringing Focus to the Burden and Diagnostic Challenges of Ocular Myasthenia Gravis</b> (<i>healthcare providers only, lunch included</i>)</p> <p>This non-CME lunch symposium is an industry-sponsored activity organized by argenX Medical Affairs and is intended for healthcare professionals only. The NANOS Program Committee was not involved in the planning of this event. Speakers: Andrew Lee, MD &amp; Vivek R. Patel, MD</p> <p>Faculty will discuss the pathogenesis, symptoms and progression of ocular myasthenia gravis and discuss approaches that support earlier, accurate diagnosis. We will also hear directly from a patient representative living with ocular myasthenia gravis as they present their insights into the diagnostic hurdles and day-to-day burden of the condition, helping bridge clinician and patient perspectives.</p>	Gloucester								

**SUNDAY, MARCH 22nd (continued)**

12:45pm - 1:45pm	<p><b>Capitalizing on Advances in TED Treatment - 350 Lunch Capacity</b> [1.0 CME] Speakers: Madhura A. Tamhankar, MD &amp; Jody G. Abrams, MD</p> <p>This continuing education activity is provided by Vindico Medical Education and is supported by educational funding provided by Amgen and Viridian Therapeutics, Inc. The NANOS Program Committee was not involved in the organization of this event.</p> <p>In this CE activity, expert clinicians distinguish between active and chronic TED using appropriate diagnostic tools, develop individualized treatment plans based on the latest evidence, and evaluate the impact of late-stage investigational agents on treatment paradigms for TED.</p> <p>Upon successful completion of this activity, participants should be better able to:</p> <p>(1) Integrate appropriate clinical tools and diagnostic criteria to distinguish between active and chronic TED. (2) Develop individualized treatment plans for patients with TED based on the latest evidence and patient characteristics. (3) Evaluate how late-stage investigational agents may impact treatment paradigms and improve quality of life for patients with TED.</p>	Salon A-F
12:45 pm – 1:45 pm	<p><b>Members in Training Luncheon</b> (<i>trainees &amp; educators only</i>) All students, Residents and Fellows-in-Training, NANOS Board of Directors, Fellowship Directors, Student Clerkship and Neurology and Ophthalmology Residency Directors are invited to this luncheon. This event is a great opportunity to network and connect with NANOS leadership and fellowship directors.</p>	Salon G-K
12:45 pm – 1:45 pm	<p><b>International Relations Committee Meeting</b> (<i>committee members only</i>)</p>	Regis
2:00 pm – 3:30 pm	<p><b>Neuro-Ophthalmology Bootcamp: Vision, Movement, and the Unexpected</b> [1.5CME] Moderator: Steven Galetta, MD; Faculty: Ore Ofe Adesina, MD; Valerie Biousse, MD; Julie Falardeau, MD; Deb Friedman, MD, MPH, FAAN; Larry Frohman, MD; Andrew G. Lee, MD; Nancy J. Newman, MD</p> <p>This trainee focused session will feature a game style format. Teams of residents and fellows will choose from a list of categories and point values to reveal cases that they will rush against time to solve. Come join in this fun session to improve and reinforce your knowledge of fundamentals of clinical neuro-ophthalmology! Everyone is welcome in the audience.</p> <p>Upon completion of this session, participants should be able to:</p> <p>(1) Identify clinical conditions that cause neuro-ophthalmic symptoms (2) Approach eye movement evaluations in a systematic way (3) Interpret ancillary testing including OCT and visual fields</p>	Salon G-K
2:00 pm – 3:30 pm	<p><b>Recently Recognized, Clinically Relevant: New Conditions Every Neuro-Ophthalmologist Should Know</b> [1.5 CME] Moderators: Victoria Pelak, MD &amp; Leanne Stunkel, MD</p> <p>This session will highlight cutting-edge developments in clinical care for neuro-ophthalmologic conditions related to genetic disease, complications of cancer treatments, and autoimmune nodopathies. A comprehensive review of the latest research and knowledge about these conditions will equip participants to provide the best possible clinical care for neuro-ophthalmology patients by incorporating recent updates.</p>	Salon A-F

(continued)

	<p>Upon completion of this session, participants should be able to:</p> <p>(1) Review new concepts related to selected genetic diseases, including advancements in understanding relapsing autoimmune genetic conditions and eye movement abnormalities that may occur due to genetic disease.</p> <p>(2) Identify neuro-ophthalmic complications of cancer treatments and understand how to address these complications and how they affect the overall treatment plan.</p> <p>(3) Identify neuro-ophthalmic manifestations of autoimmune nodopathies and initiate diagnostic testing for these conditions.</p>											
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3:30 pm – 4:00 pm	<b>Afternoon Coffee Break with Exhibitors</b> Sponsored by Oculis	Back Bay Exhibit Hall										
4:00 pm – 6:00 pm	<p><b>Scientific Platform Session I [2.0 CME]</b> Moderators: Melinda Chang, MD; Shlomo Dotan, MD; Eric Gaier, MD, PhD.</p> <p>In the scientific platform sessions, investigators will present results of clinical trials, epidemiologic studies, and basic science research that will advance the field of neuro-ophthalmology. The sessions focus on treatments, diagnostic techniques, and mechanistic investigations that have the potential to improve our understanding and management of neuro-ophthalmic conditions.</p> <p>Upon completion of these sessions, participants should be able to:</p> <p>(1) Describe findings of natural history studies, prospective observational studies, and clinical trials in the field of neuro-ophthalmology.</p> <p>(2) List novel ophthalmic imaging techniques that can be applied to neuro-ophthalmic conditions.</p> <p>(3) Discuss potential applications of genetic testing and artificial intelligence for diagnosis and prognostication of neuro-ophthalmologic disorders.</p> <p><i>Traditional format presentations with live Q&amp;A after each presentation:</i></p> <table border="1"> <tr> <td>4:00 pm – 4:12 pm</td> <td>Non-Image-Forming Light Perception and ipRGC Dysfunction In Alzheimer’s Disease: Results from a Combined Retinal and Brain Study Nicolae Sanda, Jr., MD, PhD</td> </tr> <tr> <td>4:12 pm – 4:24 pm</td> <td>Application of the 2024 McDonald criteria in the International Acute Optic Neuritis Network, Hadas Stiebel-Kalish, MD</td> </tr> <tr> <td>4:24 pm – 4:36 pm</td> <td>Ultrasound, PET/CT, or Temporal Artery Biopsy for Giant Cell Arteritis? A Prospective Diagnostic Accuracy Study (the GAME-study), Michael Stormly Hansen, MD</td> </tr> <tr> <td>4:36 pm – 4:48 pm</td> <td>Phase 3 Myasthenia Gravis Inebilizumab Trial: Improvement in Myasthenia Gravis Activities of Daily Living and Quantitative Myasthenia Gravis Ocular Domain Scores, Richard J. Nowak, MD</td> </tr> <tr> <td>4:48 pm – 5:00 pm</td> <td>Inebilizumab in IgG4-Related Disease: Safety and Efficacy Results from the Phase 3 MITIGATE Trial, Guy Katz, MD</td> </tr> </table>	4:00 pm – 4:12 pm	Non-Image-Forming Light Perception and ipRGC Dysfunction In Alzheimer’s Disease: Results from a Combined Retinal and Brain Study Nicolae Sanda, Jr., MD, PhD	4:12 pm – 4:24 pm	Application of the 2024 McDonald criteria in the International Acute Optic Neuritis Network, Hadas Stiebel-Kalish, MD	4:24 pm – 4:36 pm	Ultrasound, PET/CT, or Temporal Artery Biopsy for Giant Cell Arteritis? A Prospective Diagnostic Accuracy Study (the GAME-study), Michael Stormly Hansen, MD	4:36 pm – 4:48 pm	Phase 3 Myasthenia Gravis Inebilizumab Trial: Improvement in Myasthenia Gravis Activities of Daily Living and Quantitative Myasthenia Gravis Ocular Domain Scores, Richard J. Nowak, MD	4:48 pm – 5:00 pm	Inebilizumab in IgG4-Related Disease: Safety and Efficacy Results from the Phase 3 MITIGATE Trial, Guy Katz, MD	Salon A-F
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**SUNDAY, MARCH 22nd (continued)**

5:00 pm – 5:12 pm	Towards Whole Eye Transplantation with Electric Field Stimulation, Kimberly K. Gokoffski, MD, PhD	
<i>Rapid fire presentations: in this new format, authors will give a brief overview of their work without time allocated for questions. Come and meet them at the poster session immediately following to engage with them.</i>		
5:12 pm – 5:16 pm	3D Imaging and Filament Tracing of Human Orbital Vasculature and Lymphatic System, Drenushe Krasniqi-Vanmeter, BS	
5:16 pm – 5:20 pm	Neurovascular Compression Between the Supraclinoid Internal Carotid Artery and Anterior Optic Pathway: Establishing Clinical and MRI Diagnostic Criteria, Francesco Cutrupi, MD	
5:20 pm – 5:24 pm	Targeting Lipid Peroxidation As A Treatment For NAION, Ming Yang, MD, PhD	
5:24 pm – 5:28 pm	Investigating CYP27B1-Driven Neuroprotective Pathways in Acute Retinal Ganglionopathy, Kabeer Thaker	
5:28 pm – 5:32 pm	Optic Disc Drusen Association to NAION, David Szanto, BA	
5:32 pm – 5:36 pm	Anatomical Characterization of Optical Coherence Tomography Abnormalities in Friedreich Ataxia: Data from a 400-Patient Heterogeneous Cohort, David Lynch, MD, PhD	
5:36 pm – 5:40 pm	AI-Based Classification of Parkinson’s Disease Using Quantitative Ocular Motor Biomarkers, Erika Han, MD	
5:40 pm – 5:44 pm	Features of Transient Vision Loss: A Study of 300 Patients, Mickey Nguyen	
5:44 pm – 5:48 pm	Investigating Regional Cerebrospinal Fluid Flow Alterations In Patients Diagnosed With Idiopathic Intracranial Hypertension, Sofia John, BA	
5:48 pm – 5:52 pm	Lenadogene Nolparvovec Gene Therapy for Leber Hereditary Optic Neuropathy in the Real-Life Setting, Chiara La Morgia, MD	
5:52 pm – 6:00 pm	JNO update and J. Lawton Smith Award Presentation, Timothy McCulley, MD, JNO editor in chief	
6:00 pm – 8:00 pm	<p><b>Analytical Studies Poster Reception</b> Sponsored by Catalyst Pharmaceuticals, Inc.</p> <p>In this poster session, first authors of clinical trials, epidemiologic studies, quality improvement projects, and basic science studies will be available to answer questions about their posters in person. Come learn about the cutting-edge research being conducted by your NANOS colleagues! Light hors d’oeuvres buffet and ticketed drink bar included with meeting registration. Guests may purchase tickets for \$175 per person on-line or onsite.</p>	Back Bay Exhibit Hall
6:00 pm – 7:00 pm	Session I: Authors standing by odd numbered posters	
7:00 pm – 8:00 pm	Session II: Authors standing by even numbered posters	

## MONDAY, MARCH 23rd

6:30 am – 5:30 pm	<b>Registration/Help Desk</b>	4th Floor Registration Booth	
6:30 am – 7:15 am	<b>Yoga with the NANOS President</b> ( <i>advanced registration required</i> )	Hyannis	
7:00 am – 8:00 am	<b>Breakfast</b>	Salon G-K	
7:00 am – 8:00 am	<b>Analytical Posters Encore</b> ( <i>no author standby</i> ) Poster authors are encouraged to leave their posters on display for perusal during breakfast. Analytical posters not removed by authors by the end of this session will be removed by NANOS staff and stored in the registration area until the end of the NANOS 52nd annual meeting.	Back Bay Exhibit Hall	
7:00 am - 8:00 am	<b>YONO Breakfast With Experts</b> -Advocacy -Contract Negotiations	Salon G-K	
7:00 am – 8:00 am	<b>Research Committee Meeting</b> ( <i>committee members only</i> )	Regis	
7:00 am – 8:00 am	<b>WIN Steering Committee Meeting</b> ( <i>committee members only</i> )	Provincetown	
7:00 am – 8:00 am	<b>NMOSD in the Neuro-Ophthalmology Clinic: From Diagnosis to Management</b> ( <i>healthcare providers only, non-CME</i> ) This non-CME breakfast symposium is an industry-sponsored activity organized by Alexion Pharmaceuticals, Inc. and is intended for healthcare professionals only. The NANOS Program Committee was not involved in the planning of this event. Speaker: Benjamin Osborne, MD	Gloucester	
8:00 am – 10:00 am	<b>Scientific Platform Session II</b> [2.00 CME] Moderators: Jeffrey L. Bennett, MD, PhD & Y. Joyce Liao, MD, PhD. Traditional format presentations with live Q&A after each presentation	Salon A-F	
	8:00 am – 8:12 am		Risk of Sequential Non-Arteritic Anterior Ischemic Optic Neuropathy Madhura Shah, MD
	8:12 am – 8:24 am		Partial Epigenetic Reprogramming; Preclinical Profile of ER-100 in a Nonhuman Primate Model of NAION, Joseph Rizzo, MD
	8:24 am – 8:36 am		Topical 15-PGDH inhibitor restores visual function after NAION via dampening of ferroptosis and preservation of mitochondrial function, Yaping Joyce Liao, MD, PhD
	8:36 am – 8:48 am		Intravenous Pulse Methylprednisolone (IVMP) in management of Ethambutol-induced optic neuropathy (EtON), Vivek Lal, MD
	8:48 am – 9:00 am		Improved Low-Contrast Visual Acuity and Reduction in Retinal Ganglion Cell Loss with Privosegtor in Acute Optic Neuritis: Results from a Multicenter, Randomized, Placebo-Controlled, Double-Masked Trial, Martin S. Zinkernagel, MD, PhD
	9:00 am – 9:12 am		Primary Results of the Phase 3 SatraGO-1 and SatraGO-2 Trials: Efficacy and Safety of Satralizumab in Thyroid Eye Disease, Prem S. Subramanian, MD, PhD
	9:12 am – 9:24 am		THRIVE Phase 3 Trial of Veligrotug in Active Thyroid Eye Disease (TED): Efficacy, Safety, and Quality of Life at 15 Weeks, Madhura Tamhankar, MD
	9:24 am – 9:36 am		Strabscan: Interpretable Biometrics-Based Machine Learning for Automated Quantification of Horizontal Manifest Deviations in Pediatric Strabismus, Rahul M. Dhodapkar, MD
	9:36 am – 9:48 am		Vision In SyndrOmic Neurodevelopmental disorders (VISiON)-15q Study: Eye Tracking to Detect Cerebral/cortical Visual Impairment (CVI) in Children with Dup15q and Angelman Syndrome, Melinda Chang, MD

**MONDAY, MARCH 23rd (continued)**

	9:48 am – 10:00 am	A Phase 1A Single Ascending Dose Study To Evaluate Safety Of PYC-001; A Peptide-Conjugated Oligonucleotide Designed To Treat OPA1 Mutation-Associated Autosomal Dominant Optic Atrophy, Clare L. Fraser, FRANZCO	
9:30 am – 7:00pm	<b>Exhibit Hours</b>		Back Bay Exhibit Hall
10:00 am – 10:30 am	<b>Morning Coffee Break with Exhibitors</b> Sponsored by Oculis		Back Bay Exhibit Hall
10:00 am - 10:05 am	<b>NOVEL Update</b> Presented by Meagan Seay, DO		Salon A-F
10:30 am – 11:00 am	<p><b>Jacobson Lecture [0.5 CME]</b> Valerie Biousse, MD (Introduction by Nancy Newman, MD) Non-mydrriatic ocular imaging has been shown to be useful in emergency departments and neurology clinics where it can replace the rarely used direct ophthalmoscope. Recent advancements in technology have made possible direct connection to patients’ electronic medical records and remote interpretation by ophthalmologists and neuro-ophthalmologists of imaging obtained in the emergency department and neurology clinics. This presentation will review the major studies performed over the past decade and propose strategies to increase the deployment of ocular imaging outside of eye clinics.</p> <p>Upon completion of this session, participants should be able to:</p> <ol style="list-style-type: none"> <li>(1) Review recent advancements in non-mydrriatic ocular imaging</li> <li>(2) Discuss strategies to implement non-mydrriatic ocular imaging in the emergency department and in neurology clinics</li> <li>(3) Develop outcome measures to evaluate the impact of non-mydrriatic ocular imaging in emergency departments and in neurology clinics</li> </ol>		Salon A-F
11:00 am – 12:30 pm	<b>Eyes on the Evidence: What’s New in Treating Neuro-Ophthalmic Disease?</b> Moderators: Tatiana Bakaeva, MD, PhD & Marc Bouffard, MD		Salon A-F
	11:00 am – 11:15 am	CRAO Treatments, Valerie Biousse, MD	
	11:15 am – 11:30 am	Gene Therapies, Patrick Yu-Wai Man, MD, PhD	
	11:30 am – 11:45 am	Idiopathic Intracranial Hypertension, Susan P. Mollan, MBChB, PhD	
	11:45 am – 12:00 pm	Thyroid Eye Disease, Michael S. Lee, MD	
	12:00 pm – 12:30 pm	Brain Health and Neuro-Ophthalmology, Natalia S. Rost, MD, MPH, FAAN, President, American Academy of Neurology	
12:30 pm – 1:30 pm	<b>Lunch</b> (on your own or join the lunch symposium)		
12:30 pm – 1:30 pm	<p><b>Emerging Focus in NAION: Sharpening Diagnostic Precision for Tomorrow’s Treatments [1.0 CME]</b> This continuing education activity is provided by Evolve Medical Education and is supported by educational funding provided by Dompe. The NANOS Program Committee was not involved in the organization of this event. Faculty: Prem S. Subramanian, MD, PhD; Valerie Biousse, MD; Andrew G. Lee, MD</p>		Salon G-K

(continued)

12:30 pm – 1:30 pm	<p>This symposium addresses critical practice gaps in the evaluation and management of non-arteritic anterior ischemic optic neuropathy (NAION). Faculty will review acute ischemic pathophysiology, diagnostic variability, and structured approaches to improve diagnostic accuracy and readiness for clinical trials. Through case-based discussions, participants will learn how to identify key mimickers (eg, optic neuritis, AION) through targeted testing, apply evidence-based evaluation pathways, improve documentation practices, and recognize referral scenarios.</p> <p>The program will also highlight the impact of systemic risk factors, including GLP-1 receptor agonists, and provide the latest data on investigational agents like cenegermin and privosegtor. Designed for neuro-ophthalmologists, ophthalmologists, and neurologists, this activity supports enhanced diagnostic precision, informed patient counseling, and preparation for emerging NAION therapies.</p> <p>Upon completion of this session, participants should be able to:</p> <ol style="list-style-type: none"><li>(1) Integrate evidence-based concepts of non-arteritic anterior ischemic optic neuropathy (NAION) natural history, prognosis, systemic risk assessment, and emerging drug-associated risk into structured acute management and patient counseling practice</li><li>(2) Apply evidence-based diagnostic pathways for suspected NAION by selecting appropriate laboratory tests, imaging modalities, and documentation elements that differentiate NAION from key mimickers</li><li>(3) Discuss past and current NAION therapeutic strategies</li></ol>	Salon G-K
12:30 pm – 1:30 pm	<p><b>Future in Focus: Expert Perspectives on Leber Hereditary Optic Neuropathy (LHON)</b> (<i>healthcare providers only</i>) This non-CME lunch symposium is an industry-sponsored activity organized by Chiesi Global Rare Diseases and is intended for healthcare professionals only. The NANOS Program Committee was not involved in the planning of this event. Faculty: Nancy J. Newman, MD, Chairperson; Alfredo A. Sadun, MD, PhD; Y. Joyce Liao, MD, PhD</p>	Gloucester
12:30 pm – 1:30 pm	<p><b>Abstract Committee Meeting</b> (committee members only)</p>	Provincetown
12:30 pm – 1:30 pm	<p><b>Optic Disc Drusen (ODDS) Consortium Meeting</b> (all welcome)</p>	Regis
2:00 pm – 3:30 pm	<p><b>Member Initiated Symposium: Negotiation Skills Workshop</b> [1.5 CME] Directors: Sangeeta Khanna, MD; Catherine Soehner, BSN, MLS; Leanne Stunkel, MD Speakers: Barbara Yates, MD; Nuhan Torun, MD, FRCSC, MCSO; Andrew Melson, MD; Kimberly Winges, MD; Rashmi Verman, MD; Victoria Pelak, MD; Amanda Henderson, MD, Negar Moheb, MD</p> <p>In this symposium, we aim to provide participants with skills to approach difficult conversations and negotiations, to empower them in advocating for their needs in neuro-ophthalmic practice. Our expert panel includes providers who have experience in neuro-ophthalmic practice and in formal negotiation training, and Catherine Soehner, MLS, BSN, is the Associate Dean and Executive Director of the Eccles Health Sciences Library (home to NOVEL) and the author of <i>Effective Difficult Conversations</i>. The panel will provide didactic teaching on the principles of negotiation and illustrative role-playing scenarios. Afterward, participants will have the opportunity to practice techniques in one-on-one structured role playing. This symposium is co-sponsored by the Women in Neuro-ophthalmology (WIN) Committee and the Young Neuro-ophthalmologist (YONO) Committee.</p>	Salon G-K

**MONDAY, MARCH 23rd (continued)**

Upon completion of this session, participants should be able to: (1) Understand how to plan for successful difficult conversations (2) Understand the principles of negotiation techniques (3) Improve communication and negotiation skills through role playing and practice at the symposium	
2:00 pm – 2:05 pm	Introduction, Sangeeta Khanna, MD, Leanne Stunkel, MD
2:05 pm – 2:15 pm	Approaching Difficult Conversations, Catherine Soehner, BSN, MLS
2:15 pm – 2:35 pm	Principles of Negotiation, Barbara Yates, MD; Nurhan Torun, MD, FRCSC, MCSO; Andrew Melson, MD
2:35 pm – 2:50 pm	Scenario-Based Teaching, Kimberly Wings, MD; Rashmi Verman, MD; Victoria Pelak, MD
2:50 pm – 3:10 pm	Skills Workshop, Sangeeta Khanna, MD; Leanne Stunkel, MD; Catherine Soehner, BSN, MLS; Andrew Melson, MD; Nailyn Rasool, MD; Barbara Yates, MD; Kimberly Wings, MD; Victoria Pelak, MD; Nurhan Torun, MD, FRCSC, MCSO; Amanda Henderson, MD; Rashmi Verman, MD; Negar Moheb, MD
3:10 pm – 3:25 pm	Discussion/Debrief

2:00 pm – 3:30 pm

**Member initiated symposium: OCT Odyssey [1.5 CME]** Directors: Susan P. Mollan, MBChB, PhD & Clare L. Fraser, FRANZCO

Salon A-F

Optical Coherence Tomography (OCT) is a non-invasive, light-based imaging technique which enables in vivo, high-resolution, cross-sectional imaging of structures, including human tissues. Current OCT devices can now accurately resolve the individual retinal layers and provide automated measures estimated to the nearest micron. OCT imaging has become important in the routine management of optic neuropathies (including papilledema) and a variety of related central nervous system disorders including multiple sclerosis, brain tumors, neurodegeneration and syndromes of raised intracranial pressure. Understanding the different device measures is helpful when trying to compare research to your clinical practice, where you might have a different machine. There are key quantitative and qualitative features that have been established in neuro-ophthalmology to aid clinical practice. This session will bring wide ranging expertise across devices to highlight areas of growth for our subspecialty. The speakers will share the latest in artificial intelligence and OCT imaging research. Importantly this session will bring the research findings back to real world clinical practice. Be ready for the OCT Odyssey!

Upon completion of this session, participants should be able to:  
(1) Summarize the differences between the main OCT devices  
(2) Describe the OCT imaging findings of ischemic optic neuropathy, optic neuritis, papilledema and neurodegeneration  
(3) Gain knowledge of the use of artificial intelligence in OCT imaging

2:00 pm – 2:02 pm	Introduction, Susan P. Mollan, MBChB, PhD; Clare L. Fraser, FRANZCO
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2:02 pm – 2:17 pm	OCT Imaging Features of Ischemic Optic Neuropathy, Steffen Hamann, MD, PhD
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(continued)

2:17 pm – 2:22 pm	Systematic review of OCT in Papilledema, What Did We Learn? Fiona Chan	
2:22 pm – 2:37 pm	OCT in concussion and neurodegeneration that you can use in clinic, Clare L. Fraser, FRANZCO	
2:37 pm – 2:42 pm	Can You Interchange Values from OCT Cirrus (Zeiss) and Spectralis (Heidelberg Engineering) in Papilledema? Gabriele Berman, MD	
2:42 pm – 2:52 pm	A trip to White Mars, tips for working with OCT angiography data, Susan P. Mollan, MBChB, PhD	
2:52 pm – 2:57 pm	Seeing the Unseen: OCT in Acute Retrobulbar Optic Neuritis, Ana Banc, MD, PhD	
2:57 pm – 3:12 pm	AI-Based Optimization of OCT findings in Neuro-Ophthalmology, Dan Milea, MD, PhD	
3:12 pm – 3:30 pm	Closing Questions and Remarks	
3:30 pm – 4:00 pm	<b>Afternoon Coffee Break with Exhibitors</b> Sponsored by Oculis	Back Bay Exhibit Hall
4:00 pm – 5:30 pm	<b>Member Initiated Symposium: Update on Neurovascular Interventions</b> [1.5 CME] Directors: Laurel N. Vuong, MD; Thomas R. Hedges, MD; Yosbelkys Martin Paez, MD; Adel Malek, MD, PhD  This symposium is designed to discuss neurovascular conditions diagnosed and followed in neuro-ophthalmology, as well different neurosurgical management available. The case examples will be provided and local neurosurgeons will discuss their experiences with and the outcomes of different interventions. By the end of the symposium, the audience should know when to refer to neurosurgery and the surgical options available to better advise their patients on management options, outcomes, and prognoses.  Upon completion of this session, participants should be able to:  (1) Know common neurovascular conditions seen in neuro-ophthalmology and co- managed with neurosurgeons (2) Identify most up-to-date treatment options for each neurovascular process (3) Advise patients accordingly regarding treatment options, outcomes, and prognosis	Salon A-F
4:00 pm – 4:05 pm	Introduction	
4:05 pm – 4:06 pm	Case: Ophthalmic Artery Aneurysm	
4:06 pm – 4:20 pm	Intracranial Aneurysm Management and Arterial Flow Dynamics, Adel Malek, MD, PhD	
4:20 pm – 4:21 pm	Case: Long Standing Dural AVM	
4:21 pm – 4:35 pm	Classification and treatment of Dural AVMS and CCFs, Timo Krings, MD, PhD, FRCPC	
4:35 pm – 4:36 pm	Case: Post-Stent Stenosis	

**MONDAY, MARCH 23rd (continued)**

	4:36 pm – 4:50 pm	Venous Stenting for IIH, Mohamad Abdalkader, MD	
	4:50 pm – 4:51 pm	Case: Subdural Hematoma	
	4:51 pm – 5:05 pm	Endovascular Treatment of Chronic Subdural Hematoma, Christopher S. Ogilvy, MD	
	5:05 pm – 5:06 pm	Case: Intracranial Hypotension	
	5:06 pm – 5:20 pm	Intracranial Hypotension Treatment, M. Ali Aziz-Sultan, MD	
	5:20 pm – 5:30 pm	Discussion and Debrief	
4:00 pm – 5:30 pm	<p><b>Member Initiated Symposium: Advances in Mitochondrial Genetics and Relevance to Neuro-Ophthalmology Practice</b> [1.5 CME] Directors: Patrick Yu-Wai-Man, MD, PhD &amp; Nancy J. Newman, MD</p> <p>Mitochondrial diseases affect ~ 1 in 4,300 people in the general population with over half of them developing prominent ocular manifestations. There are often significant diagnostic delays due to the variable clinical presentations and the rapidly expanding list of disease-causing variants within the mitochondrial and nuclear genomes. This symposium will provide a state-of-art review of the evolving genetic landscape of mitochondrial diseases, focusing on involvement of the optic nerve, outer retina and extraocular muscles. Genetic diagnostic pathways will be discussed, in particular, which tests would be more appropriate based on the clinical features and family history. The application of next-generation sequencing will be described together with the challenges of genetic counselling when a variant of unknown significance (VUS) is identified.</p> <p>Upon completion of this session, participants should be able to:</p> <p>(1) Appreciate the variable and expanding clinical manifestations of mitochondrial disease and potential diagnostic clues  (2) List the investigations that can be used to diagnose mitochondrial disease depending on the clinical presentation  (3) Understand the genetic tests that are currently available and their advantages and disadvantages</p>		Salon G-K
	4:00 pm – 4:10 pm	When Should I Suspect That Someone Has a Mitochondrial Disease? Chiara La Morgia, MD	
	4:10 pm – 4:20 pm	The expanding genetic landscape of inherited optic neuropathies, Neringa Jurkute, MD, PhD, FEBO	
	4:20 pm – 4:30 pm	My practical approach to genetic testing for suspected mitochondrial disease – Optic neuropathy and/or retinopathy, Eric D. Gaier, MD, PhD	
	4:30 pm – 4:40 pm	Ophthalmoplegia, Michael J. Gilhooley, MD, PhD, FRCOphth	
	4:40 pm – 4:50 pm	Panel Discussion - Genetics, Chiara La Morgia, MD; Neringa Jurkute, MD, PhD, FEBO; Eric D. Gaier, MD, PhD; Michael J. Gilhooley, MD, PhD, FRCOphth	

(continued)

4:50 pm – 5:00 pm	Case 1: Unilateral/Asymmetrical CPEO, Rustum Karanjia, MD, PhD	
5:00 pm – 5:10 pm	Case 2: LHON-MS Overlap Syndrome, Benson S. Chen, MBChB, PhD, FRACP	
5:10 pm – 5:20 pm	Case 3: Syndromic Dominant Optic Atrophy, Jing Liang Loo, MD	
5:20 pm – 5:30 pm	Discussion and Debrief, Chiara La Morgia, MD; Neringa Jurkute, MD, PhD, FEBO; Eric D. Gaier, MD, PhD; Michael J. Gilhooley, MD, PhD, FRCOphth	
5:30 pm – 7:00 pm	<b>Happy Hour &amp; NANOS Awards</b> Sponsored by Oculis. Drink tickets will be accepted and cash bar will be available.	Back Bay Exhibit Hall

## TUESDAY, MARCH 24th

7:00 am – 8:00 am	<b>Breakfast</b>	Salon G-K
7:00 am – 8:00 am	<b>Consortium of Pediatric Neuro-ophthalmologists Meeting</b>	Provincetown
8:00 am – 10:00 am	<b>New Eyes on NAION: Revisiting Risk in a Changing Medical Landscape</b> [2.0 CME] Moderators: Kenneth Shindler, MD, PhD & Amanda Henderson, MD  This session will highlight potential risk factors for non-arteritic anterior ischemic optic neuropathy, focusing on systemic, anatomical, and iatrogenic factors. By reviewing and discussing the available evidence, we aim to equip neuro-ophthalmologists to provide their patients with evidence-based clinical recommendations.  Upon completion of this session, participants should be able to:  (1) Name potential risk factors for NAION. (2) Discuss the available evidence for each risk factor. (3) Apply this evidence to the counseling of patients.	Salon A-F
8:00 am – 8:20 am	How Do We Identify Risk Factors? Beau B. Bruce, MD, PhD	
8:20 am – 8:35 am	GLP1 Medications as a Possible Risk Factor, Lindsey De Lott, MD, MS	
8:35 am – 8:45 am	Systemic Conditions as Possible Risk Factors, Anthony Arnold, MD	
8:45 am – 8:55 am	Anatomical Factors as Possible Risk Factors, Steffen Hamann, MD, PhD	
8:55 am – 9:05 am	Iatrogenic Possible Risk Factors, Clare L. Fraser, FRANZCO	
9:05 am – 9:25 am	NAION Risk Factors Discussion, Beau B. Bruce, MD, PhD; Lindsey De Lott, MD, MS; Anthony Arnold, MD; Steffen Hamann, MD, PhD; Clare L. Fraser, FRANZCO	
9:25 am – 9:40 am	What is Actionable, Julie Falardeau, MD	

## TUESDAY, MARCH 24th (continued)

	9:40 am – 10:00 am	Panel Discussion, Beau B. Bruce, MD, PhD; Lindsey De Lott, MD, MS; Anthony Arnold, MD; Steffen Hamann, MD, PhD; Clare L. Fraser, FRANZCO; Julie Falardeau, MD	
10:00 am – 10:30 am	<b>Morning Coffee Break</b> Sponsored by Oculis		Salon G-K (Foyer)
10:30 am – 12:30 pm	<p><b>Neuro-Ophthalmology in the Age of AI: Insights, Innovations, and Implementation</b> [2.0 CME] Moderators: Kevin E. Lai, MD &amp; Meagan Seay, DO</p> <p>Artificial intelligence (AI) has rapidly transformed society. In medicine, AI-based developments impact multiple domains, including image analysis, education, clinical documentation, and research. This session will introduce key AI concepts, including machine learning and deep learning, foundation models, large language models (LLMs), and vision-language models (VLMs), and discuss how these technologies intersect with neuro-ophthalmic care. Participants will explore practical considerations for bringing AI into clinical practice, including data ethics, defining appropriate clinical applications and limitations, system integration, regulation, and liability. The session will also demonstrate practical applications of AI in ocular motility assessment, medical education, EMR integration, and academic writing and research. Attendees will leave with a framework for critically evaluating and responsibly implementing AI tools in both clinical and academic settings.</p> <p>Upon completion of this session, participants should be able to:</p> <ol style="list-style-type: none"> <li>(1) Define and describe the terms artificial intelligence (AI), machine learning (ML), deep learning (DL), foundation models, large language models (LLMs), and vision-language models (VLMs).</li> <li>(2) Identify and explain the ethical, technical, logistic, regulatory, and legal factors involved in deploying ophthalmic imaging AI in clinical settings.</li> <li>(3) Evaluate emerging applications of artificial intelligence in ocular motility, education, electronic medical record systems (EMR), and research, and apply this understanding to improve clinical workflows and academic output.</li> </ol>		Salon A-F
	10:30 am – 10:40 am	Definitions: What is AI? Kelvin Z. Li, MTech, MMed	
	10:40 am – 11:20 am	Getting Ophthalmic Imaging AI in the Clinic, Aaron Y. Lee, MD, MSCI	
	11:20 am – 11:35 am	Will AI be Helpful for Ocular Motility? Kemar E. Green, DO	
	11:35 am – 11:50 am	How Can AI Help Us Today: Education, Sachin Kedar, MBBS, MD	
	11:50 am – 12:05 pm	How Can AI Help Us Today: Clinical Activities With PHI, Shannon Beres, MD	
	12:05 pm – 12:20 pm	How Can AI Help Us Today: Clinical Activities Without PHI, Devin D. Mackay, MD	
	12:20 pm – 12:30 pm	Panel Discussion, Aaron Y. Lee, MD, MSCI; Shannon Beres, MD; Kemar E. Green, DO; Devin D. Mackay, MD; Kelvin Z. Li, MTech, MMed; Sachin Kedar, MBBS, MD	
12:30 pm – 3:00 pm	<b>NANOS Board of Directors Meeting</b> (board members only)		Regis

# Abstract Nominees

The recipients of this year's abstract awards will be announced during the Happy Hour & NANOS Awards on Monday, March 23, from 5:30 PM in the Back Bay Exhibit Hall. We invite you to join us for the celebration and to recognize the outstanding work represented by this year's nominees.

## Fellow-in-Training

Stephanie Syc-Mazurek  
Madhuri Akella  
Anas Alkhabaz  
Geulah Ben-David

## Residents

Madhura Shah  
Rahul Dhodapkar  
Jae Ryong Song  
Francesco Cutrupi  
Anthony Cordisco  
Sydney Chatfield

## Students

Moiz Lakhani  
Eden Tefera  
Jainam Shah  
Mickey Nguyen  
Sofia John  
Kathryn Huang  
Arsalaan Asad  
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Roger Sheffmaker  
Alex Hattenhauer  
J. Benjamin Gordon  
Marius Maartensson  
Drenushe Krasniqi-Vanmeter



## BREAKFAST SYMPOSIUM FROM ALEXION

### *NMOSD in the Neuro-Ophthalmology Clinic: From Diagnosis to Management*

#### SPEAKER

### Benjamin Osborne, MD

Associate Professor of Neurology and Ophthalmology,  
MedStar Georgetown University Hospital



	<b>WHEN?</b> Date: <b>Monday, March 23</b> Time: <b>7:00 AM - 8:00 AM EST</b>
	<b>WHERE?</b> Gloucester Room, Marriott Copley Place

NMOSD, Neuromyelitis Optica Spectrum Disorder.

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Intended for US audiences only.

## **NANOS symposium:** Bringing focus to the burden and diagnostic challenges of ocular myasthenia gravis

**Sunday, March 22; 12:45 pm**  
**Gloucester Room, Boston Marriott Copley Place,**  
**Boston, Massachusetts**  
Lunch will be served

Join us for lunch on **Sunday, March 22**, to take a closer look at ocular myasthenia gravis.

Expert faculty will explore the pathogenesis, symptoms and progression of the disease and discuss approaches that support earlier, accurate diagnosis.

Hear directly from a patient living with ocular myasthenia gravis as they provide insight into the diagnostic hurdles and day-to-day burden of the condition, helping bridge clinician and patient priorities.



### **Andrew Lee, MD**

Professor of Ophthalmology, Neurology and Neurosurgery,  
Weill Cornell Medical College, New York, NY;  
Chairman for the Department of Ophthalmology Blanton  
Eye Institute, Houston Methodist Hospital, Houston, TX



### **Vivek R. Patel, MD**

Vice-Chair, Academic Affairs;  
Professor of Clinical Ophthalmology;  
Chief, Neuro-Ophthalmology and Adult Strabismus,  
School of Medicine, Gavin Herbert Eye Institute,  
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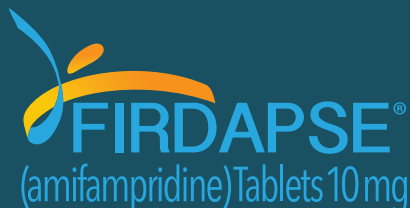
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Take your NANOS 2026 Exhibitor Bingo card for a spin around the Exhibit Hall and meet the partners who help make NANOS possible. Every signature gets you one step closer to winning a major discount on your registration for NANOS 2027 in San Diego — and this year, the prizes are worth playing for.

## Prizes

- First Place: 100% off NANOS 2027 registration
- Second Place: 50% off NANOS 2027 registration
- Third Place: 25% off NANOS 2027 registration

## How to Play

- Visit each exhibitor on your card
- Collect their signature in the matching circle
- Add your name, email, and cellphone
- Turn in your completed card at the registration desk by Monday, 5:30 pm
- Drawing will occur, and the winners will be announced at the Oculis-sponsored Happy Hour and Awards event on Monday at 6:00 pm

## CME Lunch Symposium

# CAPITALIZING ON ADVANCES IN TED TREATMENT

**Sunday, March 22 | 12:45 – 1:45 PM**

Boston Marriott Copley Place | Salon G-K




**Madhura A. Tamhankar, MD**

University of Pennsylvania  
Scheie Eye Institute  
Philadelphia, PA



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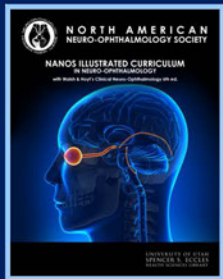
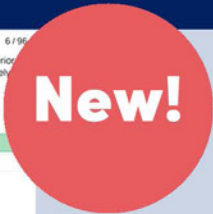
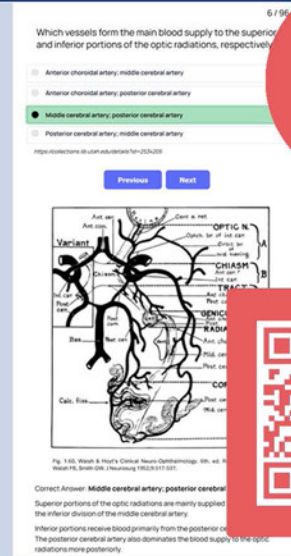
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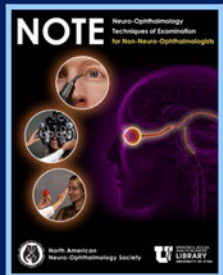
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