MONDAY, FEBRUARY 14
6:00 am – 6:45 am  Breakfast with Exhibitors ............................................................................................................................................. Griffins Hall
6:30 am – 7:00 am  Breakfast with the Novices ........................................................................................................................................ Griffins Hall
6:30 am – 7:30 pm  NOVEL/Editorial Board/Curriculum Committee Meeting  .............................................................................................. Brazos
6:30 am – 12:00 pm  Registration/Help Desk ........................................................................................................................................... Lone Star Foyer
6:30 am – 7:30 am  JNO Editorial Board Meeting ........................................................................................................................................... Brazos
7:30 am – 9:30 am  State of the Art in Neuro-Ophthalmic Disease (2.0) ........................................................................................................ Lone Star DEFGH
7:30 am – 11:00 am  Coffee with Exhibitors ........................................................................................................................................ Griffins Hall
12:00 pm – 12:15 pm  JNO Update ..................................................................................................................................................................... Lone Star DEFGH
12:30 pm – 1:15 pm  Lunch Break
12:30 pm – 1:30 pm  ANAOS: Differentiating New Advances in the Diagnostic and Treatment Armamentarium* ................................................... Lone Star DEFGH
1:30 pm – 1:30 pm  Real-World Experience With a Treatment for Thyroid Eye Disease (T30)*............................................................................... Lone Star ABC
1:30 pm – 3:15 pm  Fostering Leadership and Mentorship in Neuro-Ophthalmology: Evolving Concepts from Medical School to Retirement, Challenging Cases for Surgical Neuro-Ophthalmologists, and Vestibular and Ocular Motor Skills Transfer. To accommodate the continual growth of high-quality abstract submissions, NANOS will host two Meet the Poster Author Sessions that will include both Descriptive Studies and Analytical Studies in Neuro-Ophthalmology. By popular demand, our posters will be featured virtually to allow for more viewing time prior to the Meet the Poster Author sessions. Our platform sessions will feature innovative scientific presentations.
3:30 pm – 4:45 pm  Challenging Cases for Surgical Neuro-Ophthalmologists [1.25] ................................................................................................................................. Lone Star DEFGH
5:00 pm – 7:00 pm  Scientific Platform Session II [2.0] ........................................................................................................................................ Lone Star DEFGH
5:00 pm – 7:00 pm  Scientific Platform Session II [2.0] ........................................................................................................................................ Lone Star DEFGH

TUESDAY, FEBRUARY 15
6:00 am – 6:45 am  Breakfast with Exhibitors ............................................................................................................................................. Griffins Hall
6:30 am – 7:00 am  Breakfast with the Novices ........................................................................................................................................ Griffins Hall
6:30 am – 12:00 pm  Registration/Help Desk ........................................................................................................................................... Lone Star Foyer
6:30 am – 7:30 pm  NOVEL Editorial Board Meeting  ........................................................................................................................................... Brazos
7:30 am – 9:30 am  Scientific Platform Session II [2.0] ........................................................................................................................................ Lone Star DEFGH
9:30 am – 10:00 am  Coffee with Exhibitors (with support from Greensight Biologics) ........................................................................................... Lone Star DEFGH
10:00 am – 12:00 pm  Scientific Platform Session III [2.0] ........................................................................................................................................ Lone Star DEFGH
12:00 pm – 12:15 pm  NOVEL Update ..................................................................................................................................................................... Lone Star DEFGH
12:30 pm – 6:00 pm  Afternoon for activities.
12:30 pm – 2:15 pm  Workshop: Identifying and Addressing Social Determinants of Health: A Systems Approach to Evaluate the Impact of Social Determinants on Neuro-Ophthalmic Health Outcomes
3:30 pm – 5:15 pm  Meet the Poster Author: Analytical Studies (with support from Vindico Medical Education) ................................................................ Lone Star DEFGH
3:30 pm – 5:15 pm  Meet the Poster Author: Analytical Studies (with support from Vindico Medical Education) ................................................................ Lone Star DEFGH
6:30 pm – 8:30 pm  Abstract Committee Meeting ................................................................................................................................................. Brazos
6:30 pm – 8:30 pm  Abstract Committee Meeting ................................................................................................................................................. Brazos

WEDNESDAY, FEBRUARY 16
6:00 am – 6:45 am  Breakfast with Exhibitors ............................................................................................................................................. Griffins Hall
6:30 am – 7:00 am  Breakfast with the Novices ........................................................................................................................................ Griffins Hall
6:30 am – 12:30 pm  Registration/Help Desk ........................................................................................................................................... Lone Star Foyer
6:30 am – 7:30 am  CMS Committee Meeting  ........................................................................................................................................... Brazos
6:45 am – 7:15 am  OIS Committee Meeting
7:15 am – 9:30 am  Migraine: More Than the Optic Nerve (2.0) ...................................................................................................................................... Lone Star DEFGH
9:30 am – 10:00 am  Coffee with Exhibitors ........................................................................................................................................ Griffins Hall
10:00 am – 11:15 am  Does My Patient Need Surgery? (Peripheral Indications, Outcomes, and More) [1.5] ................................................................ Lone Star DEFGH
11:30 am – 12:00 pm  Jacobsen Lecture – The Power of Connection [0.5] .............................................................................................................. Lone Star DEFGH
12:00 pm – 1:30 pm  Research Committee Meeting ........................................................................................................................................ Brazos
1:00 pm – 2:30 pm  WIT Forum – Our Time is Now ........................................................................................................................................ Lone Star DEFGH
2:30 pm – 4:30 pm  Vestibular and Ocular Motor Skills Transfer (2.0) ............................................................................................................. Lone Star DEFGH
4:45 pm – 5:45 pm  Consortium of Pediatric Neuro-Ophthalmologists (CPNO) ................................................................................................. Brazos
6:30 pm  Banquet .................................................................................................................................................................................................. Brazos

THURSDAY, FEBRUARY 17
6:00 am – 12:00 pm  Registration/Help Desk ........................................................................................................................................... Lone Star Foyer
6:30 am – 7:30 am  Breakfast ................................................................................................................................................................................................ Griffins Hall
7:30 am – 9:30 am  Functional Disorders and the Neuro-Ophthalmologist [2.0] ........................................................................................................ Lone Star DEFGH
9:30 am – 10:00 am  Coffee Break ................................................................................................................................................................................................ Lone Star DEFGH
10:00 am – 12:00 pm  Complex Cases in Pediatric Neuro-Ophthalmology: Avoiding Mimics, Missteps, and Misdiagnosis [2.0] ......................... Lone Star DEFGH
CME
The North American Neuro-Ophthalmology Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Claiming CME is easy:
1. Click on the Evaluations icon in the mobile app and complete the evaluation for each session you attended OR visit the Annual Meeting Website (login required) and click on the Evaluations tile to complete the evaluations for each session you attended.
2. Complete the Overall Meeting Evaluation.
3. If claiming MOC credits, you must complete the Pre-Test and Post-Test.

Total Annual Meeting Credits (in-person): 30 AMA PRA Category 1 Credits™
Total Annual Meeting Credits (on-demand): 28 AMA PRA Category 1 Credits™

ABPN Self-Assessment CME
The American Board of Psychiatry and Neurology has reviewed the NANOS Annual Meeting and has approved this activity as part of a comprehensive self-assessment activity, which is managed by the ABMS as a necessary component of continuing certification. More information can be found at www.abpn.com.

ABO Self-Assessment CME
Successful completion of this CME activity, which includes participation in the evaluation component, earns credit toward the Lifelong Learning Self-Assessment requirement for the American Board of Ophthalmology’s Continuing Certification program. It is the CME activity provider’s responsibility to submit learner completion information to ACCME for the purpose of granting credit. More information can be found at www.abop.org.

NEW THIS YEAR!
PROFESSIONAL HEADSHOT PHOTO BOOTH
Need a new professional headshot? Stop by the professional headshot booth from Sunday through Tuesday located in room 304 to have one taken. Complimentary for all attendees and guests. Sign up here:

Sunday, February 13th   6:30 am – 4:30 pm
Monday, February 14th   6:30 am – 4:30 pm
Tuesday, February 15th   6:30 am – 4:30 pm

WIFI INSTRUCTIONS:
Network name: JWMarriott_Conference
Passcode: NANOS22
1. Download the eventScribe® App

Scan the QR Code or go to the Apple App Store or Google Play and search for “eventScribe”

INSTALL and OPEN the eventscribe app, then look for your event icon or SEARCH for your event app by entering “2022 NANOS 48th Annual Meeting”

CLICK to launch your event’s app.

2. Login to NANOS 48th Annual Meeting App

To start using your event app, select the “Login” to proceed to the login page. You need to enter your username and password.

Forgot Password? Use the “Reset Password” link on the login page.

3. Use the app and engage with the event!

Locate the full conference schedule from the mobile app. Learn about our speakers, network and message other attendees (be sure to agree to “share” your information when you log in).

Our exhibitors have exciting booths set up and ready for you to visit in person. Use the app’s interactive floor plan to find your favorite exhibitors.

Look for instant notifications with the mobile app from event organizers for important updates and messages.

Enjoy the Conference!

NEED HELP USING THE APP?

TECHNICAL SUPPORT
Mon-Fri, 8am-5pm EST
877-426-6203 / 410-636-9239

*Download the app before the event starts to make sure you login properly.

LEVEL 2

LEVEL 3

- Receptions – Lone Star ABC
- General Session – Lone Star ABCDEFGH
- Registration – Lone Star Foyer
- Committee Meetings – Brazos and Room 205
- Exhibits/Coffee Breaks/Meals/Meet the Poster Author – Griffin Hall
SANCTIONS, FEBRUARY 12TH
8:00 am – 12:00 pm  NANOS Board of Directors Meeting .................................................. Brazos
2:00 pm – 7:30 pm  Registration/Help Desk ............................................................... Lone Star Foyer
4:00 pm – 5:00 pm  Neuro-Radiology Symposium [1.0] .......................................... Lone Star DEFGH
Manraj K.S. Heran, MD, FRCPC
This neuroradiology session is designed to provide participants with education and information regarding (1) the imaging appearance and evaluation of orbital vascular anomalies and (2) discuss management strategies for a range of low- and high-flow malformations involving the orbit and cavernous sinus region.

Upon completion of this session, participants should be able to: (1) diagnose the common vascular anomalies affecting the orbit, as well as identify their key imaging features and (2) become familiar with the types of medications and image-guided interventional techniques used for treatment of these conditions.

6:00 pm – 9:30 pm  Welcome Reception and Line Dancing Lesson ............................................ Lone Star ABC
(with support from Viridian Therapeutics, Inc.)
All are welcome! Reconnect with your NANOS colleagues during the reception from 6:00 – 7:30 pm and then join us for a lesson in line dancing led by professionals. Heavy hors d’oeuvres provided at the reception.

SUNDAY, FEBRUARY 13TH
6:30 am – 7:30 am  Breakfast ................................................................................................. Griffin Hall
6:30 am – 5:30 pm  Registration/Help Desk ............................................................... Lone Star Foyer
7:30 am – 9:30 am  Frank B. Walsh (I) [2.0] .................................................................................... Lone Star DEFGH
Host: University of British Columbia
Chair: Jason Barton, MD, PhD, FRCPc
Committee Members: Jean Y. Chua, MD, Kristopher Kowal, MD, Anastasia Neufeld, MD, FRSCC, DABO, Claire Sheldon, MD, PhD, Sara Ann Simpson, MD, FRCPc, and Salina Toja, MD, FRSCC
Expert Panel:
Neuroradiologist: Manraj K.S. Heran, MD, FRCPC
Neuropathologist: Veronica Hirsch-Reinshagen, MD, PhD, FRCPc
This session is designed to present complex neuro-ophthalmic cases that impact the human visual pathways and ocular motor systems. The format is a clinicopathologic conference. Clinical cases will be presented by neuro-ophthalmologists with comments by a neuroradiologist, neuropathologist and other selected experts. Neuroimaging, laboratory and surgical pathology data will help illustrate clinical point. Cases will be discussed from clinical, anatomic, radiologic and pathologic aspects with emphasis on diagnosis, pathophysiology and management.

Upon completion of this session, participants should be able to: (1) recognize the varied presentations of neuro-ophthalmic disease, (2) correlate the anatomic localization and histopathologic appearance with the clinical presentations, (3) use radiologic procedures in diagnosis effectively, (4) recognize both the value and limitations of neuropathology, and (5) discuss newly described diseases and their connection.

Moderators: Kristopher Kowal, MD, Anastasia Neufeld, MD, FRSCC, DABO, Dane Breker, MD, and Sophia Chung, MD
PROGRAM

7:30 am – 7:45 am Welcome/Introduction
7:45 am – 8:05 am Hydrocephalus Appetizer, TED Entrée, Side of Bipolar Disease. Would You Like a Meatball With That? Eric Casey, MD
8:05 am – 8:25 am Not Another IgG4 Case! Anne R. Kao, MD
8:25 am – 8:45 am Some Heads Are Harder Than Others, Steven A. Newman, MD
8:45 am – 9:05 am Is the Treatment Working? Yes, the Patient Is Getting Worse! Walid Bouthour, MD
9:05 am – 9:25 am MD-40: A Multi-Use Product, Georgie Kasomni, MD, PhD
9:25 am – 9:30 am Wrap Up

9:30 am – 10:00 am
Lynn K. Gordon, MD, PhD, and Sangeeta Khanna, MD

10:00 am – 10:20 am Just a Flu? Lily “Tali” Okrent Smolar, MD
10:20 am – 10:40 am All in the Family, Homer Chang, MD
10:40 am – 11:00 am Waiting for That ’Bing’ Moment to Get the Diagnosis, Jenny L. Hepschle, MBBS, BSc(Med), DM
11:00 am – 11:20 am Thinking Outside of the Lines, Carleigh N. Bruce, MD
11:20 am – 11:40 am Double Crossed, Jeffrey Gluckstein, MD
11:40 am – 11:45 am Morning Wrap-Up

11:45 am – 12:30 pm Lunch

12:00 pm – 1:00 pm Fellowship Directors Committee Meeting
12:30 pm – 2:30 pm Meet the Poster Author: Descriptive Studies

12:30 pm – 1:30 pm Odd Numbered Posters
1:30 pm – 2:30 pm Even Numbered Posters

2:30 pm – 3:00 pm Business Meeting
Frank B. Walsh (II) [1.75]

3:00 pm – 5:15 pm

3:00 pm – 3:20 pm The Inconspicuous Cysts, Lily Zhang, MD
3:20 pm – 3:40 pm The Nidus of the Neuropathies, Heather M. McDonald, BSc, MD
3:40 pm – 4:00 pm A Nod to the Nodule, Natale Brassard, MD, MSc
4:00 pm – 4:20 pm Pseudo-Pseudotumor Cerebri? Etienne Berard-Seguin, MD, Bsc
4:20 pm – 4:40 pm An Apple a Day... Joseph W. Fong, MD
4:40 pm – 5:00 pm The Grey Area of White Matter, Parker Bohm, MD
5:00 pm – 5:15 pm Closing Remarks

5:30 pm – 6:00 pm Walsh Committee Meeting
5:45 pm – 6:45 pm Members-in-Training Reception

This program is for Students, Residents, Fellows-in-Training, NANOS Board of Directors members, Fellowship Directors, Student Clerkship, and Neurology and Ophthalmology Residency Directors.

Back this year! All fellowship directors with availability and applicants or potential applicants looking for a fellowship are invited to participate in fellowship “speed dating.” If you have a vacancy during these fellowship periods, please stop by.

MONDAY, FEBRUARY 14TH

6:00 am – 6:45 am Yoga
6:30 am – 7:30 am Breakfast with Exhibitors
6:30 am – 7:30 am Breakfast with the Novices

Join us in the reserved YONO area at breakfast for table discussions led by senior members and/or YONOs to discuss topics relevant to aspiring or current YONOs.

6:30 am – 7:30 am Choosing Neurology vs Ophthalmology and Building a Successful Application, Melinda Y. Chang, MD and Stacy V. Smith, MD
6:30 am – 7:30 am Surgical Neuro-Ophthalmology, Lauren Ditta, MD and Howard R. Krauss, MD, SM, BEEE
6:30 am – 7:30 am Clinical Neuro-Ophthalmology - Combining With Other Neuro Subspecialties, Fiona Costello, MD and Kathleen Digre, MD

6:30 am – 7:00 pm Registration/Help Desk
6:30 am – 7:30 am NOVEL/Editorial Board/Curriculum Committee Meeting
7:30 am – 9:30 am State of the Art in Neuro-Ophthalmic Disease [2.0]

In the past several years, significant progress has been made in the understanding of the pathogenesis, clinical manifestations, and management of a variety of neuro-ophthalmic diseases. The goal of this session is to provide a review on the current status and new developments of five important disease processes: neurotrophic keratopathy, cerebrospinal fluid dynamics, multiple sclerosis, glaucoma, and orbital inflammatory disease. Neurotrophic keratopathy can be vision threatening and, in some patients, calcitant to standard therapy. The indications and surgical technique of corneal neurotization will be discussed. The exact etiopathogenesis of idiopathic intracranial hypertension remains unclear. However, recent research has suggested that the central nervous system lymphatic and glymphatic systems may contribute to the development of elevated intracranial pressure. This complex issue will be presented with a focus on the current literature. The therapeutic armamentarium of multiple sclerosis continues to grow at an extraordinary and accelerated pace. New immunomodulating therapies will be reviewed, which provide physicians and patients alike with an unprecedented number of options. Glaucoma remains an enigma not only in terms of the cause but treatment. The diagnostic challenge of glaucomatous optic neuropathy mimicking other types of optic neuropathies will be discussed with an emphasis on clinical manifestations and a targeted evaluation. A wide variety of inflammatory conditions can affect the orbit. The diagnostic evaluation and treatment modalities of orbital inflammatory disease will be summarized.
PROGRAM

Upon completion of this symposium, learners should be able to: (1) define the indications for corneal neurotization, (2) explain the role of the lymphatic and glymphatic system in cerebrospinal fluid dynamics, (3) identify new and important advances in multiple sclerosis therapeutics, (4) differentiate glaucomatous from non-glaucomatous optic neuropathies, and (5) recognize the variety of different etiologies resulting in orbital inflammation.

7:30 am – 7:35 am
Introduction

7:35 am – 7:55 am
Preserving and Re-innervating the Corneal Surface, Kimberly Cockerham, MD

7:55 am – 8:15 am
CNS Lymphatics and Glymphatics and the Eye, Esriel H. Keller, MD

8:15 am – 8:35 am
Advances in MS Therapy, Bart K. Chwalisz, MD

8:35 am – 8:55 am
Glaucoma and the Neuro-Ophthalmologist: A Case-Based Approach, Helen Danesh-Meyer, MD, PhD

8:55 am – 9:15 am
Inflammatory Orbital Disorders, Nailyn Rasool, MD, QBA

9:15 am – 9:30 am
Coffee with Exhibitors

This symposium is designed to provide the audience with a practical, evidence-based discussion on how to manage important and emerging clinical scenarios, which are of specific and contemporary interest to the neuro-ophthalmic community. "Hot topics" will be presented by established experts and thought leaders for the respective conditions.

Upon completion of this symposium, learners should be able to: (1) recognize when a neuro-ophthalmic problem is related to COVID-19, (2) summarize the treatment of MOG-related disorders, (3) state when a myasthenia gravis patient should be referred for thymectomy, and (4) recognize the utility of multimodal OCT in the diagnosis of optic disc drusen (ODD) and exclusion of mimics.

10:00 am – 10:20 am
Patient-Reported Outcome Measures in Neuro-Ophthalmic Clinical Research, Lindsey De Lott, MD, MS

10:20 am – 10:40 am
Treatment of MOG-Related Disorders, John J. Chen, MD, PhD

10:40 am – 11:00 am
Myasthenia Gravis: Time for Thymectomy? Judith Warner, MD

11:00 am – 11:20 am
Mining for ODD Using Multimodal OCT, Steffen Hamann, MD, PhD

11:20 am – 12:00 pm
Q&A

12:00 pm – 12:10 pm
NOVEL Update, Kathleen Digne, MD

12:10 pm – 1:30 pm
Lunch Break

12:20 pm – 1:20 pm
Real-World Experience With a Treatment for Thyroid Eye Disease (TED)*, Madhura A. Tamhankar, MD

*This lunch symposium is organized by Horizon Therapeutics plc.

Learn about key clinical data and explore case studies of chronic TED and compressive optic neuropathy (CON) patients. This presentation is intended for U.S.-based healthcare professionals.

1:30 pm – 1:35 pm
Fostering Leadership and Mentorship in Neuro-Ophthalmology: Evolving Concepts from Medical School to Retirement [1.75] Lone Star DEFGH

The importance of leadership through mentorship impacts every aspect of one’s neuro-ophthalmology career. This symposium will focus on fostering mentorship cultures and leadership opportunities by: introducing the concepts of mentorship from a 360-degree perspective; discussing approaches to recruitment of trainees into our discipline; highlighting diverse early career paths; exploring continued leadership roles outside the clinical sphere; and reflecting on later career contributions. Come for stories, discussion, and advice for all career stages. Attendance welcomed by all!

Upon completion of this symposium, learners should be able to: (1) identify the common perceived barriers to hosting medical students in a neuro-ophthalmology clinic, (2) describe ways to minimize barriers to hosting medical students in a neuro-ophthalmology clinic, (3) enumerate different neuro-ophthalmologist practice models, and (4) describe revenue-generating activities outside the clinic that can be gratifying for the neuro-ophthalmologist.

1:30 pm – 1:35 pm
Introduction, Kimberly Winges, MD

1:35 pm – 2:05 pm
How to Foster a Mentorship Culture

Moderators: Kimberly Winges, MD and Nailyn Rasool, MD

Panels: Sangeeta Khanna, MD, Susan Mollan, FRCOphth and Barbara Yates, MD

2:05 pm – 2:30 pm
How to Encourage Future Generations of Neuro-Ophthalmology Leaders Through the Medical Student and Resident Pipeline

Moderators: Kevin Lai, MD and Colin McClelland, MD

Panels: Courtney E. Francis, MD, Nancy J. Newman, MD and Peter Quiros, MD

2:30 pm – 3:10 pm
Seeking New Opportunities to Train and Lead Throughout One’s Career

Moderators: Madhurom Tamhankar, MD and Barbara Yates, MD

Panels: Gene Heidary, MD, PhD, Melissa W. Ko, MD, Nailyn Rasool, MD, and Valerie Purvin, MD

3:10 pm – 3:15 pm
Closing, Kevin Lai, MD

3:30 pm – 4:45 pm
Challenging Cases for Surgical Neuro-Ophthalmologists [1.25]

Lone Star DEFGH

Moderators: Ore-ofe Adesina, MD and Courtney E. Francis, MD

Panels: Lauren Ditto, MD, Valerie Elmaleh, MD, Howard K. Krauss, MD, SM, BEEEE, Vivek Patel, MD, Roger Turbin, MD, FACS and Nicholas Volpe, MD

This symposium has been created to highlight the surgical aspects of our field and to educate neuro-ophthalmologists and trainees through the presentation and discussion of complex surgical neuro-ophthalmic case scenarios.

Upon completion of this symposium, learners should be able to: (1) recognize when surgical intervention can or should be applied to the management of neuro-ophthalmic patients, (2) compare and contrast surgical options for patients with neuro-ophthalmic diagnoses amenable to surgical intervention, and (3) identify gaps in understanding of surgical interventions for neuro-ophthalmic patients and utilize the skills gained to apply to patient care.

5:00 pm – 7:00 pm
Scientific Platform Session I [2.0]

Lone Star DEFGH

Moderators: Beau Bruce, MD, PhD and Caroline Froment, MD, PhD

5:00 pm – 5:15 pm
Modulation of the Neuro-Glia-Vascular Niche by Plasma From Patients With Nonarteritic Anterior Ischemic Optic Neuropathy, Yaping Joyce Liao, MD, PhD

5:15 pm – 5:30 pm
Portable Vacuum Goggles Significantly Increase OpticNerve Blood Flow in Human Glaucoma and NAION Eyes, Randy Kardon, MD, PhD

5:30 pm – 5:45 pm
Do Retinal Microvascular Changes Improve TIA Risk Stratification Scores? ABC2D vs. ABCDEye, Beau Bruce, MD, PhD

5:45 pm – 6:00 pm
Retinal Vessel Dynamics as a Surrogate Marker for Intracranial Pressure in Idiopathic Intracranial Hypertension, Elisabeth Wikreb, MD

6:00 pm – 6:15 pm
Magnitude and Evolution of Optic Nerve Head and Peripapillary Hyperemic Response Depends on Flicker Duration, Moe Aung, MD, PhD

6:15 pm – 6:30 pm
Do Retinal Microvascular Changes Improve TIA Risk Stratification Scores? ABC2D vs. ABCDEye, Beau Bruce, MD, PhD

6:30 pm – 6:45 pm
Proton Nuclear Magnetic Resonance Spectroscopy Metabolomic Analysis in Idiopathic Intracranial Hypertension Identifies Insights Into Pathogenesis, Andreas Yangou, MRCP
**PROGRAM**

**TUESDAY, FEBRUARY 15TH**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:00 am – 6:45 am</td>
<td>Yoga</td>
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<tr>
<td>6:30 am – 7:30 am</td>
<td>Breakfast with Exhibitors</td>
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<td>6:30 am – 7:30 am</td>
<td>Breakfast with the Novices</td>
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<tr>
<td>7:00 am – 9:30 am</td>
<td>Scientific Platform Session II [2.0]</td>
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<td>Scientific Platform Session II [2.0]</td>
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<td>7:30 am – 7:45 am</td>
<td>Impact of Glucose on Mitochondrial Function in a Brain Slice</td>
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<td>7:45 am – 8:00 am</td>
<td>How Much Weight Loss Is Required to Reduce Intracranial Pressure</td>
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<td>8:00 am – 8:15 am</td>
<td>Intra-Cranial Pressure in Idiopathic Intracranial Hypertension</td>
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<td>8:15 am – 8:30 am</td>
<td>Intracranial Pressure in Idiopathic Intracranial Hypertension, Insights From Long-Term Telemetric Monitoring, Alex Sinclair, MD, PhD</td>
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<td>8:30 am – 8:45 am</td>
<td>A Randomized Prospective Trial Comparing Retinal Corticortex Injection and Intravenous Methylprednisolone in Acute Optic Neuritis, Jeffrey Bennett, MD, PhD</td>
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<td>8:45 am – 9:00 am</td>
<td>International Multicenter Retrospective Study on Maintenance Intravenous Immunoglobulin in Preventing Relapse in Adult MOG-Ab Anti-body-Associated Disease, John J. Chen, MD, PhD</td>
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<td>9:00 am – 9:15 am</td>
<td>Long-Term Efficacy of Satralizumab in Neuromyelitis Optica Spectrum Disorder: Results from SAKURASky and SAKURAstar, Ingo Kleiter, MD</td>
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<td>9:15 am – 9:30 am</td>
<td>Referral Patterns to Neuro-Ophthalmology for Presumptive Idiopathic Intracranial Hypertension (MH) Based on Isolated Neuroimaging Findings, Andre Aung, MD</td>
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<td>9:30 am – 10:00 am</td>
<td>Coffee with Exhibitors (with support from GenSight Biologics)</td>
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<td>10:00 am – 12:00 pm</td>
<td>Scientific Platform Session III [2.0]</td>
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<td>10:00 am – 12:00 pm</td>
<td>Scientific Platform Session III [2.0]</td>
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<td>10:00 am – 10:15 am</td>
<td>Sustainability of Teprotumumab Efficacy in Thyroid Eye Disease, Prem S. Subramanian, MD, PhD</td>
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<td>10:15 am – 10:30 am</td>
<td>Prevalence of Choroidal Abnormalities and Lisch Nodules in Children Meeting Clinical/Molecular Diagnosis of NF1, Mariana Flores Pimentel, MD, FICO</td>
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<td>10:30 am – 10:45 am</td>
<td>Peripapillary Hyperreflective Ovoid Mass-like Structures (PHOMS) in a Child Cohort, Lasse Malmqvist, MD, PhD</td>
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<td>10:45 am – 11:00 am</td>
<td>Continuous Hypoxia Reduces Retinal Ganglion Cell Degeneration in a Mouse Model of Mitochondrial Optic Neuropathy, Sidney Gao, MD, PhD</td>
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<td>11:00 am – 11:15 am</td>
<td>Genotype-Phenotype Correlations in Autosomal Dominant Optic Atrophy, Joshua Harvey, BM, BCh, FRCPht</td>
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<td>11:15 am – 11:30 am</td>
<td>REFiCT Trial: Efficacy and Safety of Bilateral Gene Therapy for Leber Hereditary Optic Neuropathy, Nancy J. Newman, MD</td>
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<td>11:30 am – 11:45 am</td>
<td>Retrograde Transport to Retinal Ganglion Cells: An Alternative Strategy for Gene Delivery in Optic Neuropathies, Jonathan Horton, MD, PhD</td>
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<td>11:45 am – 12:00 pm</td>
<td>Electric Fields Direct Full-LENGTH Optic Nerve Regeneration and Partial Restoration of Visual Function, Micalla Peng, BS</td>
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<td>12:00 pm – 12:10 pm</td>
<td>JNO Update, Laura Balcer, MD, MSCE</td>
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<td>12:10 pm – 6:00 pm</td>
<td>Afternoon free for activities</td>
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<tr>
<td>12:25 pm – 1:25 pm</td>
<td>NMOsD: Differentiating New Advances in the Diagnosti c and Treatment Armamentarium*, Lone Star ABC</td>
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*This lunch symposium is organized by Vindico Medical Education with grant support from Genentech. NANS is not the CME provider for this symposium.

Upon completion of this symposium, learners should be able to: (1) summarize evidence-based criteria that aids in early detection and staging of neuromyelitis optica spectrum disorder (NMOSD), (2) differentiate the mechanisms of action of currently available NMOSD therapeutics to better understand how they can be utilized in individual patients, and (3) assess current evidence pertaining to the safety and efficacy of monoclonal antibodies used in the treatment of NMOSD, including their control to acute attacks and prevent future relapses.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>3:30 pm – 5:35 pm</td>
<td>Meet the Poster Author: Analytical Studies</td>
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<tr>
<td>3:30 pm – 3:35 pm</td>
<td>Introduction, Kevin Lai, MD</td>
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<tr>
<td>3:35 pm – 3:50 pm</td>
<td>Improving Your Professional Efficiency, Andrew G. Lee, MD</td>
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<tr>
<td>3:50 pm – 4:05 pm</td>
<td>Roundtable Discussion: Improving Your Professional Efficiency</td>
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<td>4:05 pm – 4:20 pm</td>
<td>Building Professional Support Networks, Prem S. Subramanian, MD, PhD and Valerie Brousse, MD</td>
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<tr>
<td>4:20 pm – 4:35 pm</td>
<td>Roundtable Discussion: Building Professional Support Networks</td>
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<td>4:35 pm – 4:50 pm</td>
<td>Maintaining Work/Life Balance, Alfredo Sadun, MD</td>
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<tr>
<td>4:50 pm – 5:05 pm</td>
<td>Roundtable Discussion: Maintaining Work/Life Balance</td>
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<tr>
<td>5:05 pm – 5:20 pm</td>
<td>Molding a Job You Love, Nancy J. Newman, MD</td>
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<tr>
<td>5:20 pm – 5:35 pm</td>
<td>Roundtable Discussion: Molding a Job You Love</td>
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<td>5:35 pm – 6:00 pm</td>
<td>Conclusion</td>
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**Even Numbered Posters**

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<th>Time</th>
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<tr>
<td>6:30 pm – 7:30 pm</td>
<td>Odd Numbered Posters</td>
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<tr>
<td>7:30 pm – 8:00 pm</td>
<td>Even Numbered Posters</td>
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**Odd Numbered Posters**

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<th>Time</th>
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<tr>
<td>8:30 pm – 9:00 pm</td>
<td>Abstract Committee Meeting</td>
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</table>

Heavy hors d’oeuvres buffet included. Guest must purchase tickets for $150 per person online or onsite.
Does My Patient Need Surgery/A Procedure?
10:00 am – 11:30 am

Yoga
6:30 am – 7:30 am
Brazos

Breakfast with Exhibitors
6:30 am – 7:30 am
Griffin Hall

Breakfast with the Novices
6:30 am – 7:30 am
Griffin Hall

Join us in the reserved YONO area at breakfast for table discussions led by senior members and/or YONOs to discuss topics relevant to aspiring or current YONOs.

6:30 am – 7:30 am
Things I Wish I Knew Early in My Practice, Andrew Melson, MD

6:30 am – 12:30 pm
Registration/Help Desk

6:30 am – 7:30 am
CME Committee Meeting

6:45 am – 7:15 am
DEI Committee Meeting

7:30 am – 9:30 am
Mitochondrial Disorders: More Than the Optic Nerve [2.0]

Moderators: Kimberly Goldfusski, MD, PhD and Patrick Yu-Wai-Man, MD, PhD

Defects in mitochondrial metabolism result in a heterogeneous group of genetic disorders characterized by marked variability in clinical presentation. Uncovering the underlying causative mutations is challenging, complicated by the fact that two sets of genomes, the nuclear and mitochondrial genomes, can contribute to disease pathogenesis. This session will provide a clinically oriented overview of the latest advances made in uncovering the genetic basis of mitochondrial disorders, their variable phenotypes, including both ocular and extracranial manifestations, and the emerging treatment options that are being evaluated.

Upon completion of this symposium, learners should be able to: (1) describe the common genetic defects underlying mitochondrial disease, (2) recognize the ocular and extracranial manifestations of mitochondrial disease, and (3) discuss current and emerging treatments for mitochondrial disease.

7:30 am – 7:50 am
Mitochondrial Optic Neuropathies – Expanding Genotypes and Phenotypes,
Rustum Karanjia, MD, PhD

7:50 am – 8:00 am
Q&A

8:00 am – 8:20 am
Mitochondrial Genetics – From Genes to Disease Mechanisms, Valerio Carelli, MD, PhD

8:20 am – 8:30 am
Q&A

8:30 am – 8:50 am
Myopathies and Cerebral Dysfunction, Michel Hirano, MD

8:50 am – 9:00 am
Q&A

9:00 am – 9:20 am
Current Treatment Strategies and Future Prospects for Mitochondrial Disease,
Nancy J. Newman, MD and Michio Hirano, MD

9:20 am – 9:30 am
Q&A

9:30 am – 10:00 am
Coffee with Exhibitors

10:00 am – 11:30 am
Does My Patient Need Surgery/A Procedure?
Indications, Outcomes, and More! [1.5]

Moderators: Madhu Agarwal, MD and Valerie Elmalem, MD

Nuts and Bolts of Shunts: What to Tell My Patient About Them, Tonya Stefić, MD
10:00 am – 10:18 am

Orbital Surgery: Approaches and Outcomes, Howard R. Krauss, MD, SM, BEEE
10:18 am – 10:36 am

Endovascular Treatments of Neuro-Ophthalmic Disorders, Marc Dinkin, MD
10:36 am – 10:54 am

Advanced Strabismus for the Non-Surgeon, Madhura Tomankar, MD
10:54 am – 11:12 am

11:12 am – 11:30 am
Q&A

11:30 am – 12:00 pm
Jacobson Lecture – The Power of Connection [0.5], Fiona Costello, MD

WIN Forum – Our Time is Now
1:00 pm – 2:30 pm

We welcome all attendees to our WIN forum where we will focus on our WIN member accomplishments and highlight Dr. Sangeeta Khanna’s (2020 awardees) and Dr. Jane Bailey’s (2021 awardee) Leadership Development Grant experience, now named the Dr. Iry Dreizin Leadership Development Grant. We look forward to reconnecting with our friends and colleagues in a social networking activity and hosting games with prizes.

2:30 pm – 4:30 pm
Vestibular and Ocular Motor Skills Transfer [2.0]

Moderator: Dan Gold, DO

Facilitators: Shannon Beres, MD, Anthony Brune, DO, Marc Dinkin, MD, Eric Eggengerber, DO, MSeip, Caroline Froment, MD, PhD, Kemar Green, DO, Scott N. Grassman, MD, Nicholas E. F. Hat, MD, David E. Hale, MD, Jorge Kattah, MD, Mark Morrow, MD, Sashank Prasad, MD, and Veeal Shoh, MD, PhD

This symposium will provide a practical ocular motor/vestibular hands-on experience. With the help of roughly 18 ANOS members with expertise in the field, there will be 6 stations for the following: VOR testing, Positional Testing of Posterior Semicircular Canals, Positional Testing of Horizontal Semicircular Canals, Provocative Testing (nystagmus elicitation), Gaze Testing (ocular alignment, saccades, smooth ocular pursuit, and smooth eye-head tracking), and Nystagmus Interpretation.

Upon completion of this symposium, learners should be able to: (1) perform the HINTS exam (head impulse [VOR], nystagmus [namming and interpretation], test of skew [alignment]), (2) perform other ocular motor (saccades, pursuit, eye-head tracking) and provocative testing (head shaking) to aid in localization, (3) apply the diagnostic Dix-Hallpike and supine roll positional maneuvers with proper technique, and (4) implement the most appropriate therapeutic maneuver.

4:45 pm – 5:45 pm
Consortium of Pediatric Neuro-Ophthalmologists (CPNO)

Moderator: Shannon Beres, MD and Gene Heidary, MD, PhD

All are welcome to attend!

Facilitators: Shannon Beres, MD and Gene Heidary, MD, PhD

6:30 pm – 12:00 am
Banquet

Lone Star DEFGH

Put on your best Western attire and join us for a fun night of celebration! Dinner and awards from 6:30 – 8:00 pm. Music and dancing to begin at 8:00 pm. Group line dancing performances are encouraged! We will also have a photo booth with props so you can take home a memento from the evening. Guest tickets are available for purchase at $150 with online registration or onsite.
7:30 am – 9:30 am
Registration/Help Desk ................................................................. Lone Star Foyer
6:30 am – 7:30 am
Breakfast .................................................................................. Griffin Hall
7:30 am – 9:30 am
Functional Disorders and the Neuro-Ophthalmologist (2.0) .......... Lone Star DEFGH
Moderators: Norah Lincoff, MD and Meagan D. Seay, DO

This symposium will clarify the definition of functional neurologic disorder (FND) and explore how it may present to a neuro-ophthalmologist. FND, previously known as “conversion disorder”, can include a constellation of symptoms, including sensory symptoms, fatigue states, change in mental status, movement disorders, as well as seizure. It is a separate entity from malingering, in which patients knowingly feign symptomatic illness. Treatment of FND usually necessitates a multidisciplinary team approach of physicians in neurology, psychiatry, and physical therapists. We will review the condition, treatment recommendations, and the differential diagnosis of this complicated disorder.

Upon completion of this symposium, learners should be able to: (1) understand the etiology of FND and how it differs from malingering, (2) establish a broad differential diagnosis and ensure accuracy in making a diagnosis of FND, and (3) increase awareness of treatments for FND.

7:30 am – 8:00 am
Classification of Functional Disorders and Role of Modern Neuroimaging, Jeffrey P. Staab, MD, MS

8:00 am – 8:22 am
Functional Visual Loss: Diagnosis, Pearls, and Pitfalls, Gregory Van Stavern, MD

8:22 am – 8:45 am
Delusions, Hallucinations, and Functional Neurological Disorders: What are the “Connections”?

Victoria S. Pelak, MD

8:45 am – 9:15 am
Treatments and Outcomes, Jeffrey P. Staab, MD, MS

9:15 am – 9:30 am
Q&A

9:30 am – 10:00 am
Coffee Break

10:00 am – 12:00 pm
Avoiding Mimickers, Missteps, and Misdiagnoses (2.0) .......... Lone Star DEFGH

Moderators: Shannon Beres, MD and Gena Heidary, MD, PhD

2022 EXHIBITORS:
Alexion, AstraZeneca Rare Disease
Benign Essential Blepharospasm Research Foundation
Bulbitch AS
Diagnosys LLC
M&S Technologies
Medi Laser
Nextovar
Optomed USA
PTC Therapeutics
Soleo Health

CONTRIBUTORS $1- $99
• Anil Patel, MD  (In memoriam of Jane Sargent, MD)
• Mark Morris, MD  (In memoriam of Susan Carlow, MD)
• Kathy Rieder  (In memoriam of Thomas J. Carlow, MD)

ZARET SOCIETY $100 - $249
• Anil Patel, MD (In memoriam of Jane Sargent, MD)
• Mark Morris, MD (In memoriam of Susan Carlow, MD)

WIRTSCHAFTER CLUB $250 - $499
• Anil Patel, MD  (In memoriam of Jane Sargent, MD)
• Mark Morris, MD (In memoriam of Susan Carlow, MD)

HEDGES CLUB $500 - $999
• Anil Patel, MD  (In memoriam of Jane Sargent, MD)
• Mark Morris, MD (In memoriam of Susan Carlow, MD)

GLASSER SOCIETY $5,000 - $9,999
• Hassan Bhatti, MD  (In memoriam of Jane Sargent, MD)
• Mark Morris, MD (In memoriam of Susan Carlow, MD)

SILVER
• Cataract Society, MD  (In memoriam of Jane Sargent, MD)
• Mark Morris, MD (In memoriam of Susan Carlow, MD)

GOLD
• Cornerstone Society, MD  (In memoriam of Jane Sargent, MD)
• Mark Morris, MD (In memoriam of Susan Carlow, MD)

PLATINUM
• Cornerstone Society, MD  (In memoriam of Jane Sargent, MD)
• Mark Morris, MD (In memoriam of Susan Carlow, MD)

This activity is supported by a grant from Horizon Therapeutics.
SOCIAL FUNCTIONS

RECEPTIONS AND ENTERTAINMENT

SATURDAY, FEBRUARY 12th

WELCOME RECEPTION
(with support from Viridian Therapeutics, Inc.)
Reconnect with your NANOS colleagues at the Welcome Reception on Saturday, February 12th from 6:00 - 9:30 pm. All attendees and guests are welcome at the reception from 6:00 - 7:30 pm followed by a line dancing lesson led by professionals from 7:30 - 9:30 pm. Heavy hors d’oeuvres provided at the reception.

SUNDAY, FEBRUARY 13th

MEMBERS IN TRAINING RECEPTION
All Students, Residents, and Fellows-in-Training are invited to this reception on Sunday, February 13th from 5:45 - 6:45 pm. This reception is a great opportunity to network and connect with NANOS leadership and Fellowship Directors as well as learn about neuro-ophthalmology fellowships.
This reception is for Students, Residents, Fellows-in-Training, NANOS Board of Directors members, Fellowship Directors, Student Clerkship, and Neurology and Ophthalmology Residency Directors

TUESDAY, FEBRUARY 15th

MEET THE POSTER AUTHOR: ANALYTICAL STUDIES RECEPTION
(with support from Viridian Therapeutics, Inc.)
Tuesday, February 15th from 6:30 - 8:30 pm. This is your chance to ask questions and learn more about the Analytical Studies posters. Heavy hors d’oeuvres buffet included.
Guest tickets are available for purchase for $150 with online registration or onsite.

WEDNESDAY, FEBRUARY 16th

ANNUAL BANQUET
Put on your best Western attire and join us Wednesday, February 16th at 6:30 pm for a fun night of celebration! Dinner and awards from 6:30 - 8:00 pm. Music and dancing begin at 8:00 pm and group line dancing performances are encouraged! We will also have a photo booth with props so you can take home a memento from the evening. Guest tickets are available for purchase for $150 with online registration or onsite.

TOURS

TUESDAY, FEBRUARY 15th

A limited number of tours are available for NANOS attendees on Tuesday afternoon, February 15th. Scan the QR codes below to learn more and book the tour. The below tours will depart from the lobby of the JW Marriott Austin. Meet in the hotel lobby 15 minutes prior to tour start time. Tours are organized and managed by AO Tours Austin.
Phone: 512-659-9478

AUSTIN ARTS AND ARCHITECTURE
1:30 – 4:00 pm

AUSTIN AND HILL COUNTRY WITH STOPS
2:00 – 4:30 pm

AUSTIN HILL COUNTRY NONSTOP 90-MINUTE TOUR
2:30 – 4:00 pm
Advancing diagnostics with eye tracking by offering multiple neuro-ophthalmic examinations in a single, mobile diagnostic device.

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Our mission is to discover new ways to improve and extend people's lives. As a leading global medicines company, we use innovative science and digital technologies to create transformative treatments in areas of great medical need. In our quest to find new medicines, we consistently rank among the world's top companies investing in research and development. ©2021 Novartis 3/21 T-NSF-1402234

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EDUCATION: NANOS is the premier source of Neuro-Ophthalmology education in North America.
• Discounted registration for the Annual Meeting offering up to 30 CME credits
• Access to past Annual Meeting materials
• Access to Neuro-Ophthalmology Curriculum on NOVEL

RESEARCH: NANOS provides annual subscription to the Journal of Neuro-Ophthalmology (JNO) and access to Neuro-Ophthalmology Virtual Education Library (NOVEL).
• Subscription to JNO
• Abstract submission and presentation opportunities
• Research Assistance Program
• Research Grant programs

NETWORKING AND PROFESSIONAL DEVELOPMENT: NANOS connects medical professionals who practice Neuro-Ophthalmology in their day-to-day clinical practice and provide opportunities for involvement on committees and the Board of Directors.
• Networking opportunities with fellow professionals
• Listing in the member directory
• Posting rights to the scientific discussion listservs, NANOSnet and YONO.net
• Leadership and volunteer opportunities on NANOS committees and the Board
• Voting rights
• Complimentary job postings and career planning tools

ADVOCACY: NANOS represents the interests of Neuro-Ophthalmologists in the AMA House of Delegates, collaborates with AAO and AAN, and tackles issues that impact the subspecialty.
• Representation in the AMA House of Delegates, with access to the AMA policy-making bodies to present a unified position on issues pertaining to Neuro-Ophthalmology
• Involvement in the process of creating guidelines for the performance of different Neuro-Ophthalmology procedures in the workup of patients with neuro-ophthalmic disorders
• Advocacy and counsel on Neuro-Ophthalmology issues
• Practice management tips and tools for Neuro-Ophthalmologists.

Become a NANOS member today!
www.nanosweb.org
Apply by March 15th, 2022 and use code FIRSTMEM to receive a 20% discount!

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

The opportunity to interact with a community that has a practice just like you and hence understands the complexity of care and that sometimes diagnosis is not straightforward – A new member of NANOS

NANOS membership has provided me with unparalleled networking and career-advancement opportunities while providing resources that also benefit my clinical practice. I truly look forward to the annual meeting each year – it’s like a career family reunion! – Devin Mackay

I always find the annual meetings excellent. So nice to get CME hours that are relevant to what I do every day. – Marybeth Grazko

Visit www.nanosweb.org to become a member and get involved with NANOS today!

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GenSight Biologics seeks to transform the lives of patients with severe degenerative diseases of the eye and central nervous system with novel gene therapy-based treatments.

GenSight-Biologics.com

What do you treasure most in your NANOS membership?

NANOS connects neuro-ophthalmologists not only in North America but all over the world, and informs the members about the new developments by the JNO and Annual Meeting. It also helps to solve difficult and interesting cases by discussing them through the NANOSNET. I am proud of being a member of NANOS. – An international member of NANOS

I always find the annual meetings excellent. So nice to get CME hours that are relevant to what I do every day. – Marybeth Grazko

Visit www.nanosweb.org to become a member and get involved with NANOS today!
“You have to keep going. Don’t ever give up.”

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Horizon is focused on researching, developing and commercializing medicines that address critical needs for people impacted by rare, autoimmune and severe inflammatory diseases. Our pipeline is purposeful: we apply scientific expertise and courage to bring clinically meaningful therapies to patients. At Horizon, we believe science and compassion must work together to transform lives.
SAVE THE DATES

FUTURE NANOS MEETINGS:

2023

49TH ANNUAL MEETING
NANOS
OMNI ORLANDO RESORT AT CHAMPIONSGATE, ORLANDO, FL
MARCH 11-16, 2023

2024

50TH ANNUAL MEETING
NANOS
SHERATON WAIKIKI, HONOLULU, HI
MARCH 2-7, 2024

2025

51ST ANNUAL MEETING
NANOS
JW MARRIOTT TUCSON STARR PASS, TUCSON, AZ
MARCH 15-20, 2025

For More Information:
www.nanosweb.org