

ADVANCE PROGRAM



ANA2022

147TH ANNUAL MEETING
OF THE AMERICAN NEUROLOGICAL ASSOCIATION

OCTOBER 22-25, 2022
CHICAGO, IL

Opening Symposium: October 22, 2022



2022.myana.org

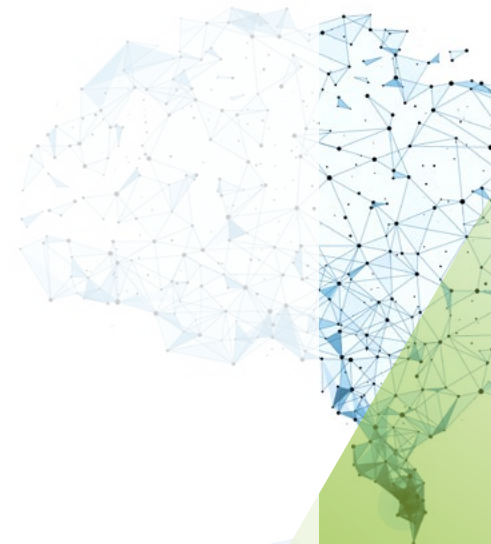
147TH ANNUAL MEETING

OF THE AMERICAN NEUROLOGICAL ASSOCIATION

Enjoy scientific symposia highlighting cutting-edge research in neurology, poster sessions with the latest emerging science, and professional development courses to help academic neurologists and neuroscientists at all career levels connect and excel at ANA2022. We are excited to be holding the meeting in-person for the first time in three years at the Hyatt Regency Chicago, Chicago, IL, October 22–25, 2022, with the Opening Symposium taking place on October 22.

Table of Contents

Welcome	2
Schedule at a Glance	3
Meeting Highlights	5
Research Careers Reimagined	7
Satellite Symposia	7
Detailed Program	8
Registration Options	26
General Meeting Information	28
Cancellation Policy	28
Poster Viewing	28
Important Dates	28
Recording, Reproduction, and Distribution of Content ...	28
Consent to Recording, Capture, and Distribution	28
Language	28
Hotel Accommodations	29
Continuing Medical Education	29
COVID-19 Protocol	29
Key Meeting Information	29
Board of Directors	30
Committees	31
Scientific Program Advisory Committee	31
Career Development Subcommittee	31
Interactive Lunch Workshops Subcommittee	32
Research Careers Reimagined Course Subcommittee ..	32



Dear ANA2022 Annual Meeting attendees and prospective attendees,



Rebecca Gottesman, MD PhD

Welcome to the 147th Annual Meeting of the American Neurological Association! How we have missed you! We are delighted to join together once again for our first in-person meeting in 3 years, for the 2022 American Neurological Association Annual Meeting, to be held October 22nd through October 25th in

the great city of Chicago, Illinois. This will be a chance to gather to discuss science, cultivate new ideas and collaborations, network with colleagues, professional development opportunities, and learn about cutting-edge developments in how we model, evaluate, diagnose, and treat neurologic disease.

We have an exciting program this year, with plenary topics ranging from “Brain Organoid Models of Neurological Disorders”, as our Opening Symposium (to be held the evening of October 22nd), to sessions on new developments in neurodegeneration, somatic mutations, peripheral contributions to neurologic disorders, and health disparities in neurologic disease. The Presidential Symposium this year, “Neurologic Dark Matter: Exploring the Exposome that Drives Neurological Disorders”, will address current research on the role of the environment in neurologic disease, and the Derek Denny-Brown Young Neurological Scholar Symposium will showcase leading research by future leaders in the field.

Beyond the opportunities for scientific inspiration from the plenaries, this meeting will provide numerous opportunities to interact with colleagues. We are excited about our new “Cross-cutting” Special Interest Groups (SIGs). These expand beyond the standard specialty-based SIGs (which will still be held) to allow opportunities to bring together investigators and trainees working in cross-cutting fields such as **Neurodevelopment**, or **Neurorecovery and**

Neuroplasticity, or **Neuroinflammation and Neuroinfection**; there are 6 of these new sessions in total. Our Interactive Lunch Workshop series will address important topics in research and clinical care, and our Professional Development courses offer a range of topics for individuals across the range of career stages. We will have lively poster sessions with opportunities to network and hear about (and present) new advances in the field.

New and junior members will not only enjoy the rigor of the scientific discussions and plenaries, lunch workshops, SIGs, and Professional Development courses, but there will be opportunities for selected abstracts submitted by trainees and early career members to be presented at the plenary sessions as Emerging Scholars. We also offer, new this year, the “Research Careers Reimagined” Course, directed by Dr. Laura Balcer, and immediately preceding the meeting (October 21-22nd). This session will provide input from experts in multiple career paths, with a focus on both traditional and nontraditional pathways for career success. Early career attendees may also enjoy the kickoff Junior and Early Career Member Reception on the night of October 22nd, after the Opening Symposium. The ANA provides numerous networking opportunities for junior and early career members, and we hope you will come take advantage of them.

On behalf of ANA President Dr. Frances Jensen, the Scientific Program Advisory Committee (SPAC), the Board of Directors, the Interactive Lunch Workshops subcommittee, and the Career Development subcommittee, I’m delighted to welcome you—in-person—to the ANA2022 Annual Meeting.

Best wishes,

Rebecca Gottesman, MD PhD, FANA

Chair, Scientific Program Advisory Committee (SPAC)
Stroke Branch Chief and Senior Investigator
National Institute of Neurological Disorders and Stroke
Intramural Research Program, NIH
Bethesda, MD

ANA2022

OCTOBER 22–25, 2022

HYATT REGENCY CHICAGO CHICAGO, IL

Opening Symposium: October 22, 2022

All session times are listed in Central Daylight Time.



AMERICAN
NEUROLOGICAL
ASSOCIATION
INNOVATORS IN DISCOVERY,
EDUCATION, AND CARE

SCHEDULE AT A GLANCE

Friday, October 21, 2022

4:00 PM–8:45 PM **ANA–NINDS Career Development Symposium Welcome Reception**

(Invitation only)

6:00 PM–8:00 PM **Research Careers Reimagined Course ^{NEW} Welcome Reception**

(Pre-registration required)

Saturday, October 22, 2022

8:00 AM–5:45 PM **ANA–NINDS Career Development Symposium** (Invitation only)

8:00 AM–4:30 PM **Research Careers Reimagined Course ^{NEW}** (Pre-registration required)

3:00 PM–4:00 PM **ANA Futures Program*** (Invitation only)

5:00 PM–5:45 PM **Opening Reception***

5:45 PM–7:15 PM **Plenary Session**

Opening Symposium: Brain Organoid Models of Neurological Disorders*

7:30 PM–9:00 PM **Junior and Early Career Networking Reception***

Sunday, October 23, 2022

6:00 AM–5:30 PM **Registration**

7:00 AM–8:00 AM **Breakfast**

7:00 AM–7:30 AM **Trainee Breakfast with ANA Board of Directors***

7:30 AM–9:00 AM **Professional Development Courses**

Early Career & Early to Mid-Career Level
Course 1: View from the NINDS, NIA, NICHD, DOD, and the VA

AUPN Chair Career Level
Course 1: Governmental Advocacy for Neurology Departments

9:00 AM–9:15 AM **Break**

9:15 AM–11:30 AM **Plenary Session**

Novel Perspectives on Neurodegeneration*

11:30 AM–11:45 AM **Break**

11:45 AM–1:00 PM **Lunch**

12:00 PM–7:00 PM **Poster Viewing***

Sunday, October 23, 2022 *continued*

11:45 AM–1:00 PM

Interactive Lunch Workshops

A String of Pearls: Key Considerations in the Care of Neurological Infections

Advancing the Science in Autoimmune Encephalitis

Clinical Logic

Neurological Complications in Women

Systemic Phenotypes of SMA and their Clinical Implications

Updates on Functional Neurological Disorder

11:45 AM–1:00 PM

Additional Lunch Workshops

22nd Annual Women of the ANA Lunch Program

1:15 PM–3:15 PM

Plenary Session

Presidential Symposium—Neurologic Dark Matter: Exploring the Exposome that Drives Neurological Disorders

3:30 PM–5:30 PM

Cross-Cutting Special Interest Groups ^{NEW}

Health Services and Health Equity Research

Neurodegeneration and Cell Death

Neurodevelopment

Neurogenetics and Gene Therapy*

Neuroinflammation and Neuroinfection

Neurorecovery and Neuroplasticity

5:30 PM–7:00 PM

Poster Presentation & Reception*

6:30 PM–8:30 PM

ANA–AUPN Career Fair*

*CME not available for this session.

Note: The Annual Meeting offers CME to eligible participants. Complete CME information, including a breakdown of the credits offered for each session and the instructions for claiming credit, is available online at 2022.myana.org/continuing-medical-education.

The American Neurological Association is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Schedule Subject to Change: The event's operating hours, schedules, and speakers are subject to change or cancellation without notice. Refunds will be not issued for failure to attend a live session.

SCHEDULE AT A GLANCE, *continued*

All session times are listed in Central Daylight Time.

Monday, October 24, 2022

6:30 AM–5:30 PM	Registration
7:00 AM–8:00 AM	Breakfast
7:00 AM–8:30 AM	Professional Development Courses Early Career & Early to Mid-Career Level Course 2A: Early Career Development for International Graduates Early Career & Early to Mid-Career Level Course 2B: Career Tracks in Academic Neurology AUPN Chair Career Level Course 2: Neuroscience Service Line: What's the Best Model?
8:45 AM–10:45 AM	Plenary Session Emerging Role of Somatic Mutations in Neurology
10:45 AM–11:45 AM	Executive Session of Membership*
11:45 AM–12:00 PM	Break
12:00 PM–1:00 PM	Lunch
12:00 PM–7:30 PM	Poster Viewing*
12:00 PM–1:00 PM	Interactive Lunch Workshops Advances in Neuro-Imaging for Clinical Neurology An Update on Neurotoxicity After Cellular Therapies Epilepsy in Older Adults—Dilemmas, Challenges and Paradigms Teaching the Teachers—A Role for Clinical Educators The Impact of Gut Microbiome in Clinical Neurological Conditions
12:00 PM–1:00 PM	Additional Lunch Workshops American Board of Psychiatry and Neurology (ABPN) Maintenance of Certification* AUPN-ANA Meet the Chairs Interactive Workshop*
1:00 PM–1:15 PM	Break
1:15 PM–3:30 PM	Plenary Session Derek Denny-Brown Young Neurological Scholar Symposium*
3:30 PM–3:45 PM	Break
3:45 PM–5:45 PM	Traditional Special Interest Groups Autoimmune Neurology & MS Behavioral Neurology and Dementia Epilepsy Global Neurology Neurocritical Care and Traumatic Brain injury Neuromuscular Disease

Monday, October 24, 2022 *continued*

6:00 PM–7:30 PM	Poster Presentation & Reception*
7:30 PM–10:30 PM	President's Reception*
Tuesday, October 25, 2022	
6:30 AM–2:30 PM	Registration
6:30 AM–7:30 AM	Breakfast
7:00 AM–8:30 AM	Professional Development Courses Early Career Level Course 3: Strategies for Landing your Target Fellowship/Faculty Early to Mid-Career Level Course 3: Demystifying the Academic Promotion Process AUPN Chair Career Level Course 3: Chair Evaluations of Faculty
8:30 AM–8:45 AM	Break
8:45 AM–10:45 AM	Plenary Session Peripheral Contributions to Neurologic Disorders: Adaptive Immunity and Metabolic Influences
10:45 AM–11:00 AM	Break
11:00 AM–12:30 PM	Lunch
11:00 AM–12:30 PM	Traditional Special Interest Groups ANA-AHS Headache Cerebrovascular Disease Movement Disorders* Neuro-Oncology Neuro-Ophthalmology and Neurovestibular Disease ^{NEW} Sleep Disorders and Circadian Rhythms
11:00 AM–12:30 PM	Additional Lunch Workshops Media Roundtable* AUPN Networking Lunch for Small Academic Departments*
12:30 PM–12:45 PM	Break
12:45 PM–2:30 PM	Plenary Session Advancing Neurologic Equity: Challenges and Paths Forward
2:30 PM	Meeting Adjourn

*CME not available for this session.

Note: The Annual Meeting offers CME to eligible participants. Complete CME information, including a breakdown of the credits offered for each session and the instructions for claiming credit, is available online at 2022.myana.org/continuing-medical-education.

The American Neurological Association is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Schedule Subject to Change: The event's operating hours, schedules, and speakers are subject to change or cancellation without notice. Refunds will be not issued for failure to attend a live session.

ANA2022 Meeting Highlights

Points of Interest

Who Should Attend

The ANA Annual Meeting has something to offer everyone: medical students, residents, academic neurologists and neuroscientists in their first faculty position, mid-level professionals and department chairs. ANA2022 is the ideal meeting for any physician-scientist looking to learn about cutting-edge research in the field and exchange ideas with thought leaders in academic neurology and neuroscience.

Neurology students and residents can benefit from the insight of senior investigators, while experienced academic neurologists can meet up-and-coming talent in the field. The Annual Meeting also features professional development sessions that offer strategies for achieving career success, whether you are a student deciding which subspecialty to pursue or a department chair seeking best practices in administration.

Plenary Sessions

- Opening Symposium: Brain Organoid Models of Neurological Disorders*
- Presidential Symposium - Neurologic Dark Matter: Exploring the Exosome that Drives Neurological Disorders
- Novel Perspectives on Neurodegeneration*
- Emerging Role of Somatic Mutations in Neurology
- Derek Denny-Brown Young Neurological Scholar Symposium
- Peripheral Contributions to Neurologic Disorders: Adaptive Immunity and Metabolic Influences
- Health Disparities in Neurologic Diseases: Challenges and Paths Forward

*These sessions are not available for AMA PRA Category I Credit(s)™

Special Interest Group (SIG) Sessions

NEW for 2022: Cross-Cutting SIG Sessions

- Health Services and Health Equity Research
- Neurodegeneration and Cell Death
- Neurodevelopment
- Neurogenetics and Gene Therapy
- Neuroinflammation and Neuroinfection
- Neurorecovery and Neuroplasticity



Traditional SIG Sessions

- ANA-AHS Headache
- Autoimmune Neurology & MS
- Behavioral Neurology and Dementia
- Cerebrovascular Disease
- Epilepsy
- Global Neurology
- Movement Disorders
- Neurocritical Care and Traumatic Brain Injury
- Neuromuscular Disease
- Neuro-Oncology
- Neuro-Ophthalmology and Neurovestibular Disease ^{NEW}
- Sleep Disorders and Circadian Rhythms

Interactive Lunch Workshops

- A String of Pearls: Key Considerations in the Care of Neurological Infections
- Advances in Neuro-Imaging for Clinical Neurology
- Advancing the Science in Autoimmune Encephalitis
- An Update on Neurotoxicity After Cellular Therapies
- Clinical Logic
- Epilepsy in Older Adults—Dilemmas, Challenges and Paradigms
- Neurological Complications in Women
- Systemic Phenotypes of SMA and their Clinical Implications
- Teaching the Teachers—A Role for Clinical Educators
- The Impact of Gut Microbiome in Clinical Neurological Conditions
- Updates on Functional Neurological Disorder

Additional Lunch Workshops

- 22nd Annual Women of the ANA Lunch Program—*Career Advancement: Hurdles and Successes*
- American Board of Psychiatry ANA Lunch Program and Neurology (ABPN) Maintenance of Certification (MOC) Program
- AUPN-ANA Meet the Chairs Interactive Workshop
- AUPN Networking Lunch for Small Academic Departments
- Media Roundtable

Professional Development Courses

Early Career Level (Student, Resident, Trainee, Postdoc Fellow):

- **Course 1:** A View from the NINDS, NIA, NICHD, DOD and the VA
- **Course 2A:** Early Career Development for International Graduates
- **Course 2B:** Career Tracks in Academic Neurology
- **Course 3:** Strategies for Landing your Target Fellowship/Faculty

Early to Mid-Career Level:

- **Course 1:** View From the NINDS, NIA, NICHD, DOD and the VA
- **Course 2A:** Early Career Development for International Graduates
- **Course 2B:** Career Tracks in Academic Neurology
- **Course 3:** Demystifying the Academic Promotion Process

AUPN Chair Career Level Courses:

- **Course 1:** Governmental Advocacy for Neurology Departments
- **Course 2:** Neuroscience Service Line: What's the Best Model?
- **Course 3:** Chair Evaluations of Faculty

Research Careers Reimagined

This is a new program for 2022, replacing the former Translation and Clinical Research Course. It will take place immediately prior to ANA2022, beginning on Friday, October 21 with an optional welcome reception and dinner. The course itself will take place from **8:00 AM–4:30 PM** on **Saturday, October 22** at the Hyatt Regency Chicago, Chicago, IL.

This course is complimentary for anyone registering for the full ANA2022 program. For anyone wishing to participate solely in the RCR Course, the cost is \$125.

CME will be offered.

Space is limited, so please register early!

Satellite Symposia

The ANA values the participation of our corporate partners and is supportive of the role that members of this community continue to play in our efforts to provide academic neurologists & neuroscientists with quality educational programs. These symposia are not part of the ANA official educational program and the sessions and content are not endorsed by ANA.

ANA 2022 Detailed Program

Friday, October 21, 2022

4:00 PM – 8:45 PM

ANA-NINDS Career Development Symposium *(Invitation only)*

Welcome Reception

This symposium is a joint collaborative effort between the ANA and NINDS which is designed for clinician-scientists with NIH career development awards (K08 and K23) and is chaired by senior neurologists and neuroscientists who have proven success in career building and navigation, scientific grant writing, networking, and balancing clinical and research efforts.

CHAIR: Lauren Sansing, MD, MS, FAHA, FANA, Yale University

CO-CHAIR: Stephen Korn, PhD, National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH)

6:00 PM – 8:00 PM

Research Careers Reimagined Course ^{NEW} *(Pre-registration required)*

Welcome Reception

This is an update to the prior Translational and Clinical Research Course (TCRC). The goal of the course is to educate a select group of young neurologists who are committed to academic careers, and to help them to explore the potential resources available while networking with nationally-renowned mentors and colleagues.

CHAIR: Laura J. Balcer, MD, MSCE, FANA, New York University

MODERATOR: Craig D. Blackstone, MD, PhD, FANA, Massachusetts General Hospital

Saturday, October 22, 2022

8:00 AM – 5:45 PM

ANA-NINDS Career Development Symposium *(Invitation only)*

This symposium is a joint collaborative effort between the ANA and NINDS which is designed for clinician-scientists with NIH career development awards (K08 and K23) and is chaired by senior neurologists and neuroscientists who have proven success in career building and navigation, scientific grant writing, networking, and balancing clinical and research efforts.

CHAIR: Lauren Sansing, MD, MS, FAHA, FANA, Yale University

CO-CHAIR: Stephen Korn, PhD, National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH)

8:00 AM – 4:30 PM

Research Careers Reimagined Course ^{NEW} *(Pre-registration required)*

This is an update to the prior Translational and Clinical Research Course (TCRC). The goal of the course is to educate a select group of young neurologists who are committed to academic careers, and to help them to explore the potential resources available while networking with nationally-renowned mentors and colleagues.

CHAIR: Laura J. Balcer, MD, MSCE, FANA, New York University

MODERATOR: Craig D. Blackstone, MD, PhD, FANA, Massachusetts General Hospital

8:00 AM – 8:15 AM

Welcome and Introductions

8:15 AM – 8:40 AM

Development of Neurological Therapies: Update from 30,000 Feet

SPEAKER: Walter J. Koroshetz, MD, National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH)

8:40 AM – 9:05 AM

Perspective: Research Careers Reimagined

SPEAKER: Frances E. Jensen, MD, FANA, University of Pennsylvania

* This session is not available for AMA PRA Category I Credit(s)™

Saturday, October 22, 2022, *continued***Research Careers Reimagined Course** *NEW continued***9:05 AM – 9:30 AM****Treatments and Guidelines: Paths to Clinical Application**

SPEAKER: Jacqueline A. French, MD, FANA, New York University

9:30 AM – 9:55 AM**Starting and Developing a Successful Career as A Clinical Trialist**

SPEAKER: James D. Berry, MD, MPH, Massachusetts General Hospital

9:55 AM – 10:25 AM**Panel Discussion and Q&A****10:25 AM – 10:55 AM****Coffee Break and Networking****10:55 AM – 11:20 AM****Life and Investigation in Industry**

SPEAKER: Michael Panzara, MD, MPH, Wave Live Sciences

11:20 AM – 11:40 AM**Q&A****11:40 AM – 12:30 PM****Lunch and Networking****12:30 PM – 1:00 PM****Philanthropic Support for Research: A Perspective**

SPEAKER: Deven Parekh, Insight Partners

1:00 PM – 1:25 PM**CTSI and Other Resources for Research at Your Institution**

SPEAKER: Anthony S. Kim, MD, FANA, University of California, San Francisco

1:25 PM – 1:50 PM**Nontraditional Research: Education, Quality Improvement and Bioethics**

SPEAKER: Ariane Lewis, MD, New York University

1:50 PM – 2:20 PM**Panel Discussion and Q&A****2:20 PM – 2:50 PM****Coffee Break and Networking****2:50 PM – 3:15 PM****The Path to Achieving K-Level Funding**

SPEAKER: Stephen Korn, PhD, National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH)

3:15 PM – 3:40 PM**Keys to Non-NIH Mechanisms of Funding**

SPEAKER: Justin C. McArthur, MBBS, MPH, FANA, Johns Hopkins University

3:40 PM – 4:05 PM**The Intramural NIH Research Experience**

SPEAKER: Avindra Nath, MD, FANA, National Institutes of Health (NIH)

4:05 PM – 4:30 PM**Panel Discussion and Q&A****4:30 PM****Closing Remarks & Adjourn**

CHAIR: Laura J. Balcer, MD, MSCE, New York University

* This session is not available for AMA PRA Category I Credit(s)™

Saturday, October 22, 2022, *continued***3:00 PM – 4:00 PM****ANA Futures Program*** *(Invitation only)***5:00 PM – 5:45 PM****Opening Reception*****5:45 PM – 7:15 PM****Plenary Session****Opening Symposium: Brain Organoid Models of Neurological Disorders***

Human brain organoids are an exciting new approach to study brain disorders using 3D human cerebral structures. Brain organoid methods involve growing human pluripotent stem cell (hPSC) aggregates in suspension, with or without patterning factors, that then differentiate into self-organizing cerebral-like 3D neural structures. Depending upon the specific protocol, the structures resemble diverse regions of brain and recapitulate several key in vivo features of brain organogenesis. Because of limited access to human brain tissue and critical differences between human and mouse brain, brain organoids are attractive models for studies of unique aspects of brain development and function, and allow modeling of human brain disorders in 3D human tissue. A growing number of protocols have been developed to differentiate organoids that partly recapitulate specific CNS regions such as the cortex, hippocampus, thalamus, choroid plexus and others. Other protocols may be used to enrich for specific cell types, including oligodendrocytes. In addition, the recent development of assembloid protocols enables modeling of multiple brain regions and their connections, and advances are ongoing to combine brain organoids with other cell types (e.g., microglia, vascular cells). The techniques are being applied for mechanistic studies and pharmacological assays for various neurological disorders. This symposium will highlight recent work using brain organoid models to explore neurodegenerative disease, genetic epilepsies, CNS infections, brain evolutionary mechanisms and neurodevelopmental disorders.

Learning Objectives:

- Describe the use of brain organoids to study development, function and diseases of the brain.
- Discuss the advantages and limitations of brain organoid models.
- Explain recent advances and future directions in the brain organoid field.

CHAIR: Jack M. Parent, MD, FANA, University of Michigan

CO-CHAIR: Sally Temple, PhD, Neural Stem Cell Institute

Brain Organoids to Study Evolution and Disease

SPEAKER: Arnold R. Kriegstein, MD, PhD, University of California, San Francisco

Human Neurodevelopmental Disorders Modeled in 2-D and Brain Organoid Cultures

SPEAKER: Margaret Elizabeth Ross, MD, PhD, FANA, Cornell University

Fusion Brain Organoid Studies to Uncover Circuit Dysfunction in Genetic Epilepsy

SPEAKER: Ranmal Samarasinghe, MD, PhD, University of California, Los Angeles

Human Brain Organoid Modeling of Neurodegenerative Disease

SPEAKER: Sally Temple, PhD, Neural Stem Cell Institute

7:30 PM – 9:00 PM**Junior and Early Career Networking Reception***

Learn how to make the most of your ANA Meeting. Join the members of the Junior Membership Committee for a reception to discuss how to take advantage of the ANA, identify mentors and discuss career tracks in academic neurology and neuroscience.

* This session is not available for AMA PRA Category I Credit(s)™

Sunday, October 23, 2022**6:00 AM – 5:30 PM****Registration****7:00 AM – 8:00 AM****Breakfast****7:00 AM – 7:30 AM****Trainee Breakfast with ANA Board of Directors***

Join the Board for breakfast and an informal discussion on preparing for, entering, and succeeding in a career in academic neurology and neuroscience. This is a wonderful opportunity to interact with leading academic physician-scientists and discuss the selection of an academic path, areas of research focus, or how to navigate the faculty position seeking process.

7:30 AM – 9:00 AM**Professional Development Courses****Early Career & Early to Mid-Career Level****Course 1: View from the NINDS, NIA, NICHD, DOD, and the VA**

This is a panel session of leadership from the NINDS, NIA, NICHD, DOD and VA.

Learning Objectives:

- List opportunities for neuroscience and neurology research at the NINDS, NIA, NICHD, DOD, and VA.
- Describe the infrastructure of the NINDS, NIA, NICHD, DOD, and VA as it pertains to neurology and neuroscience research.
- Identify training and career development opportunities available for academic neurologists and neuroscientists at the NINDS, NIA, NICHD, DOD, and VA.

CHAIR: Claire Henchcliffe, MD, DPhil, FANA, University of California, Irvine

CO-CHAIR: Daniela M. Menichella, MD, PhD, Northwestern University

View from the NIA

SPEAKER: Eliezer Masliah, MD, National Institute on Aging (NIA)

View from the NINDS

SPEAKER: Nina Schor, MD, PhD, FANA, National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH)

View from the VA

SPEAKER: Amanda Hunt, PhD, US Department of Veterans Affairs

View from the NICHD

SPEAKER: Eliezer Masliah, MD, National Institute on Aging (NIA)

View from the DOD

SPEAKER: Melissa R. Miller, PhD

7:30 AM – 9:00 AM**AUPN Chair Career Level****Course 1: Governmental Advocacy for Neurology Departments**

The session will review the role of state and federal governmental advocacy for Department Chairs as a means of supporting their academic, educational, and patient care missions.

Learning Objectives:

- Following this session, attendees will be to identify areas for departmental state and federal governmental advocacy programs.
- Following this session, the attendees will be able to discuss departmental opportunities to develop or participate in state or federal governmental advocacy programs.

MODERATOR: Larry B. Goldstein, MD, FANA, University of Kentucky

SPEAKER: Derek C. Brandt, JD, American Academy of Neurology

SPEAKER: Eddie L. Patton, Jr., MD, Vyripharm Enterprises

* This session is not available for AMA PRA Category I Credit(s)™

Sunday, October 23, 2022 *continued***9:00 AM – 9:15 AM****Break****9:15 AM – 11:30 AM****Plenary Session****Novel Perspectives on Neurodegeneration***

Discussions of neurodegenerative disorders typically focus on specific disease such as Alzheimer's disease. This symposium instead examines cross-cutting mechanisms and approaches, the importance of which is increasingly being appreciated. Dr. Julie Schneider will open the symposium with an account of the very frequent co-existence of multiple neuropathologies at autopsy, in large samples, implying that a focus on a single causal cascade may be too limited. Dr. David Holtzman will next present a therapeutic approach targeting apolipoprotein E4, showing how this can ameliorate levels of both amyloid and tau, as opposed to an isolated emphasis on amyloid-directed therapies with monoclonal antibodies that predominates current therapeutic research. Dr. Ana Maria Cuervo will then discuss chaperone-mediated autophagy and its role in aging and neurodegeneration. Finally, Dr. Vassilis Koliatsos will talk about mechanisms of axonal degeneration in the CNS, with a focus on traumatic brain injury.

Learning Objectives:

- Appreciate the frequent coexistence of multiple neuropathologies in aging-associated neurodegeneration, and incorporate into clinical diagnosis and management.
- Appreciate the multiple genetic factors and pathophysiologic processes underlying neurodegeneration and stimulate thinking about common mechanisms across multiple disorders.
- Enhance understanding of therapeutic approaches to neurodegeneration and modify counseling and treatment accordingly.

CHAIR: Krishnankutty Sathian, MBBS, PhD, FANA, Pennsylvania State University

CO-CHAIR: Stefanie Geisler, MD, Washington University in St. Louis

Multiple Neuropathologies in Aging

SPEAKER: Julie Schneider, MD, Rush University

Genetic Factors in Neurodegeneration: Viewpoint from Multi-Ethnic Studies

SPEAKER: Rita Guerreiro, MSc, PhD, Van Andel Institute

APOE4 As a Therapeutic Target in Neurodegeneration

SPEAKER: David Holtzman, MD, Washington University in St. Louis

Mechanisms of Axonopathy in the CNS

SPEAKER: Vassilis Koliatsos, MD, Johns Hopkins University

11:30 AM – 11:45 AM**Break****11:45 AM – 1:00 PM****Lunch**

Boxed lunches will be available to take into the Interactive and Additional Lunch Workshops

12:00 PM – 7:00 PM**Poster Viewing***

Poster presenters will be in attendance from 5:30 PM–7:00 PM

* This session is not available for AMA PRA Category I Credit(s)™

Sunday, October 23, 2022 *continued*

11:45 AM – 1:00 PM

Interactive Lunch Workshops

A String of Pearls: Key Considerations in the Care of Neurological Infections

CHAIR: Beau M. Ances, MD, PhD, MSc, FANA, Washington University in St. Louis

Advancing the Science in Autoimmune Encephalitis

CHAIR: Stacey L. Clardy, MD, PhD, University of Utah

CO-CHAIR: Gregory S. Day, MD, MSc, MSCI, FAAN, Mayo Clinic

Clinical Logic

CHAIR: Neeraj Badjatia, MD, MS, FANA, University of Maryland

Neurological Complications in Women

CHAIR: Dina Jacobs, MD, University of Pennsylvania

CO-CHAIR: Tanya Simuni, MD, FANA, Northwestern University

Systemic Phenotypes of SMA and their Clinical Implications

CHAIR: Mark Wainwright, MD, PhD, FANA, Seattle Children's Hospital

CO-CHAIR: Crystal Yeo, MD, PhD, Northwestern University

Updates on Functional Neurological Disorder

CHAIR: Seemant Chaturvedi, MD, FANA, University of Maryland

CO-CHAIR: Farzaneh Sorond, PhD, FANA, Northwestern University

11:45 AM – 1:00 PM

Additional Lunch Workshops

22nd Annual Women of the ANA Lunch Program

Career Advancement: Hurdles and Successes

CHAIR: Junie Paula Warrington, PhD, FAHA, University of Mississippi

CO-CHAIR: Christa O'Hana S. Nobleza, MD, MSCI, University of Mississippi



* This session is not available for AMA PRA Category I Credit(s)™

Sunday, October 23, 2022 *continued***1:15 PM – 3:15 PM****Plenary Session****Presidential Symposium—Neurologic Dark Matter: Exploring the Exposome that Drives Neurological Disorders**

Recent and emerging research is revealing the exquisite sensitivity of the nervous system to environmental toxicants. The exposome refers to all of an individual's environmental exposures—chemicals but also factors such as psychological stress and diet—experienced during the lifespan. Environmental neurotoxicology is a relatively new scientific area, whereas pollutants and other exposures have long been studied for their roles in neurodevelopment, other organ systems, immune disorders, and cancer. This plenary has been inspired by a recent National Academy of Medicine Neuroscience Forum and will provide an overview of what is known about neurotoxic exposures and how they lead to not only to neurodevelopmental but a wide range of neurological and neurodegenerative disorders. This symposium will also consider the consequences on public health and health disparities, and discuss research gaps and collaborative opportunities between neuroscientists and environmental health scientists.

Learning Objectives:

- Understand the role of environmental chemical exposure on neurodevelopmental disorders and neurodegenerative diseases.
- Recognize how the convergence of social disadvantage and pollutant exposures impacts the higher risk of disease.
- Identify research gaps and collaborative opportunities between neuroscientists and environmental health scientists.

CHAIR: Frances E. Jensen, MD, FANA, University of Pennsylvania

MODERATOR: Walter Koroshetz, MD, National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH)

MODERATOR: Rick Woychik, PhD, National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health (NIH)

Chemical Exposures: The Ignored Environmental Risk Factor(s) for Neurodegenerative Diseases and Neurodevelopmental Disorders

SPEAKER: Deborah Cory-Slechta, PhD, University of Rochester

Racial Disparities in Exposures to Environmental Contaminants

SPEAKER: Devon Payne-Sturges, DrPh, University of Maryland

Leveraging the Exposome for ALS Prevention

SPEAKER: Eva Feldman, MD, PhD, University of Michigan

Convergent Mechanisms of Environmental Toxicant-Induced Parkinson's Disease

SPEAKER: J. Timothy Greenamyre, MD, PhD, FANA, University of Pittsburgh

Is the Rise in Incidence of Parkinson's Largely Human-Made?

SPEAKER: Ray Dorsey, MD, FANA, University of Rochester

* This session is not available for AMA PRA Category I Credit(s)™

Sunday, October 23, 2022 *continued*

3:30 PM – 5:30 PM

Cross-Cutting Special Interest Groups ^{NEW}

Health Services and Health Equity Research

CHAIR: Sahar Zafar, MD, MBBS, Massachusetts General Hospital

CO-CHAIR: Neha Dangayach, MD, Mount Sinai Health System

Neurodegeneration and Cell Death

CHAIR: Aimee W. Kao, MD, PhD, FANA, University of California, San Francisco

CO-CHAIR: Alice Chen-Plotkin, MD, PhD, FANA, University of Pennsylvania

Neurodevelopment

CHAIR: Jodi Lindsey, MD, West Virginia University

CO-CHAIR: Miya Asato, MD, Kennedy Krieger Institute

Neurogenetics and Gene Therapy*

CHAIR: Suman Jayadev, MD, University of Washington

CO-CHAIR: Andrea L. Gropman, MD, FANA, Children's National Medical Center

Neuroinflammation and Neuroinfection

CHAIR: Serena Spudich, MD, MA, Yale School of Medicine

Neurorecovery and Neuroplasticity

CHAIR: S. Thomas Carmichael, MD, PhD, FANA, University of California, Los Angeles

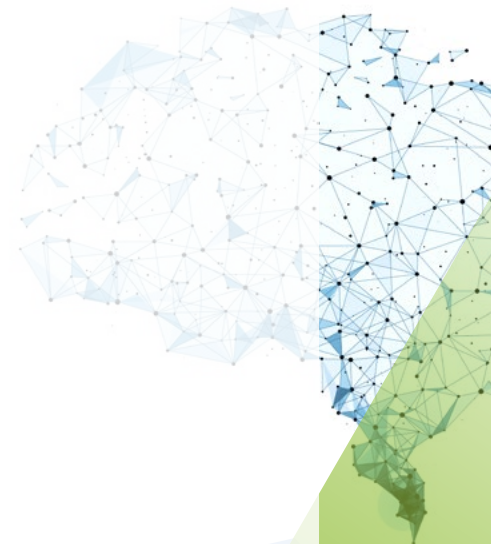
CO-CHAIR: Steve C. Cramer, MD, FANA, University of California, Los Angeles

5:30 PM – 7:00 PM

Poster Presentation & Reception*

6:30 PM – 8:30 PM

ANA-AUPN Career Fair*



* This session is not available for AMA PRA Category I Credit(s)™

Monday, October 24, 2022**6:30 AM – 5:30 PM****Registration****7:00 AM – 8:00 AM****Breakfast****7:00 AM – 8:30 AM****Professional Development Courses****Early Career & Early to Mid-Career Level****Course 2A: Early Career Development for International Graduates**

International medical graduates (IMGs) make up approximately a third of neurology trainees and active neurologists in the USA. They play a major role in providing greater access to health care for millions of patients, especially in underserved regions. With the current shortage of neurologists, which is projected to increase in the next few decades, and increased role for neurologists during the global health care crisis with the pandemic, there is an even greater need for IMG neurologists. In order to remain in the US after training, IMGs face numerous visa-related and other challenges that can limit their scope of practice and range of opportunities in academic medicine. Advocacy and legislation efforts to address immigration complexities, increased recruitment of IMG neurologists in academic departments and a systematic approach to reducing bias and supporting diversity are necessary. During this session, speakers will present the landscape, challenges, and opportunities for in-training and early-career IMGs for a successful academic career in neurology.

Learning Objectives

- Illustrate visa issues faced by IMG neurologists.
- Highlight challenges and opportunities for IMG neurologists pursuing academic careers.
- Provide recruitment and counseling strategies for IMG neurologists.

CHAIR: Jayant N. Acharya, MD, DM, FANA, Pennsylvania State University

CO-CHAIR: Erica A. Schuyler, MD, FANA, University of Connecticut

The Glass Ceiling of J1 Visas

SPEAKER: Abhimanyu Mahajan, MD, MHS, Rush University

Choosing a Career Pathway on a Visa

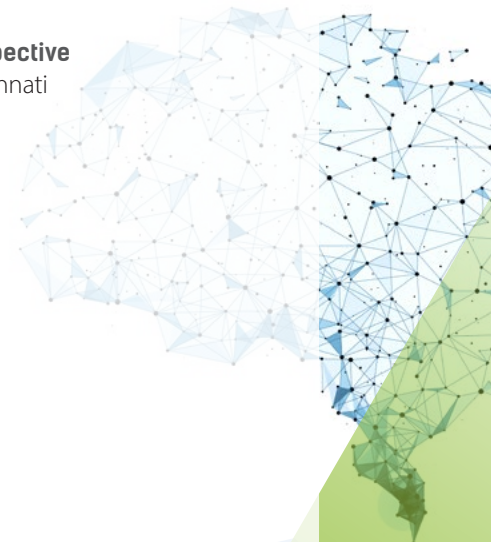
SPEAKER: Neha S. Dangayach, MD, Mount Sinai Health System

Opportunities for Academic Career Development for IMG Neurologists

SPEAKER: Imama A. Naqvi, MD, Columbia University

Recruiting and Counseling IMG Neurologists: Chair's Perspective

SPEAKER: Brett Kissela, MD, MS, FANA, University of Cincinnati



* This session is not available for AMA PRA Category I Credit(s)™

Monday, October 24, 2022 *continued***7:00 AM – 8:30 AM****Early Career & Early to Mid-Career Level****Course 2B: Career Tracks in Academic Neurology**

Speakers will discuss the various pathways in academic neurology including physician-scientist, clinician-teacher, clinician-administrator, and scientist-teacher.

Learning Objectives

- Detail career track options in academic neurology.
- Identify the most appropriate career track for their interests and goals.
- List strategies for exploring and advancing within their career track.

CHAIR: Tracy A. Cho, MD, FANA, University of Iowa

CO-CHAIR: Romergryko G. Geocadin, MD, FANA, Johns Hopkins University

Clinician-Scientist Track

SPEAKER: Peter K. Todd, MD, PhD, FANA, University of Michigan

Scientist-Educator Track

SPEAKER: Cassie S. Mitchell, PhD, Georgia Institute of Technology

Clinician-Educator Track

SPEAKER: Tracey A. Cho, MD, FANA, University of Iowa

Clinician-Administrator Track

SPEAKER:

7:00 AM – 8:30 AM**AUPN Chair Career Level****Course 2: Neuroscience Service Line: What's the Best Model?**

There has been a rapid development of the Neuroscience Service Line in many hospitals across the nation. This effort often requires the collaboration of multiple departments, which aim to provide multi-disciplinary care with higher quality. On the other hand, this reformation also brings challenges such as coordination between various teams and its impact on revenue and research activities. In this course, several speakers involved in this process will share their experiences and thoughts on this subject.

Learning Objectives

- Describe various models at present and their pros and cons.
- Describe effective ways to collaborate with neurosurgery partners.

CHAIR: Jun Li, MD, PhD, FANA, Wayne State University

SPEAKER: Sanjay Singh, MD, FANA, Creighton University

SPEAKER: Sarah Benish, MD, FAAN, University of Minnesota



* This session is not available for AMA PRA Category I Credit(s)™

Monday, October 24, 2022 *continued***8:45 AM – 10:45 AM****Plenary Session****Emerging Role of Somatic Mutations in Neurology**

In this plenary session, we will discuss the recently recognized role of somatic (post-zygotic) mutation in neurological conditions across the lifespan. We will discuss somatic mutation in the context of cancer, where it was recognized early to play a role in disease. We will then discuss somatic mutation that, in the developing brain, leads to childhood neurodevelopmental disorders, such as epilepsy and autism. We will then discuss somatic mutation that occurs in post-mitotic neurons in normal aging and in neurodegenerative disease. Finally, we will outline a path to translation from gene discovery to pre-clinical models of mosaic neurological disorders.

Learning Objectives

- To understand that somatic mutation occurs as a normal process during development and post-natally and has a role outside of cancer.
- To understand the extent to which somatic mutation influences normal development and aging as well as neurological diseases.
- To recognize which neurological disorders are likely to have resulted from somatic mutation.
- To understand how models of mosaic variants can lead to targeted, mechanism-based, 'precision' therapies.

CHAIR: Annapurna Poduri, MD, MPH, Boston Children's Hospital

CO-CHAIR: Sattar Khoshkoo, MD, Brigham and Women's Hospital

Somatic Mutation: What have we Learned from Cancer?

SPEAKER: Mary Armanios, MD, Johns Hopkins University

Somatic Mutation in Neurodevelopmental Disorders

SPEAKER: Annapurna Poduri, MD, MPH, Boston Children's Hospital

Somatic Mutation in Aging and Neurodegeneration

SPEAKER: Mike Lodato, PhD, University of Massachusetts

Models of Somatic Neurological Disease

SPEAKER: Ghayda (Rayda) Mirzaa, MD, Seattle Children's Hospital

10:45 AM – 11:45 AM**Plenary Session****Executive Session of Membership***

All ANA members are encouraged to attend this session. New officers and directors will be elected to the ANA Board of Directors during the Executive Session of Membership.

11:45 AM – 12:00 PM**Break****12:00 PM – 1:00 PM****Lunch**

Boxed lunches will be available to take into the Interactive and Additional Lunch Workshops

12:00 PM – 7:30 PM**Poster Viewing***

Poster presenters will be in attendance from 6:30 PM–7:30 PM

* This session is not available for AMA PRA Category I Credit(s)™

Monday, October 24, 2022 *continued***12:00 PM – 1:00 PM****Interactive Lunch Workshops****Advances in Neuro-Imaging for Clinical Neurology**

CHAIR: Neeraj Badjatia, MD, MS, University of Maryland

CO-CHAIR: Sarah Nelson, MD, MPH, Mount Sinai Health System

An Update on Neurotoxicity After Cellular Therapies

CHAIR: Thomas E. Lloyd, MD, PhD, FANA, Johns Hopkins University

CO-CHAIR: Matthew Frank, MD, PhD, Stanford University

Epilepsy in Older Adults—Dilemmas, Challenges and Paradigms

CHAIR: Cassie S. Mitchell, PhD, Georgia Institute of Technology

CO-CHAIR: Vineet Punia, MD, MS, Cleveland Clinic

Teaching the Teachers—A Role for Clinical Educators

CHAIR: Alissa A. Thomas, MD, University of Vermont

CO-CHAIR: Romergryko G. Geocadin, MD, FANA, Johns Hopkins University

The Impact of Gut Microbiome in Clinical Neurological Conditions

CHAIR: Beau M. Ances, MD, PhD, MSc, FANA, Washington University in St. Louis

12:00 PM – 1:00 PM**Additional Lunch Workshops****American Board of Psychiatry and Neurology (ABPN) Maintenance of Certification***

Dr. John Bodensteiner, ABPN Board Chair and Child Neurology Director, will lead the session by providing background on the ABMS Continuing Certification (CC) program, recent changes to the CC program, and perspective on the future of CC. Dr. Bodensteiner will detail the four-part ABPN CC Program, giving specific requirements related to licensure, self-assessment, CME, and performance in practice components. The new option for opting out of the 10 year secure examination using the Article Based Continuing Certification program will be discussed in detail.

Learning Objectives

- To become familiar with the rationale and background of MOC.
- To learn the 4-part ABPN MOC Program components.
- To become familiar with the online ABPN personalized physician Folios system.
- To learn about the future direction for the ABPN MOC Program.

CHAIR: John Bodensteiner, PhD, FAHA, ABPN Board Chair and Child Neurology Director

AUPN-ANA Meet the Chairs Interactive Workshop*

Prominent chairs of neurology will discuss how they handle their position, including what's involved with being a chair; what the process is for attaining their position, and how to interact with chairs.

MODERATOR: L. John Greenfield, MD, University of Connecticut Health

1:00 PM – 1:15 PM**Break**

* This session is not available for AMA PRA Category I Credit(s)™

Monday, October 24, 2022 *continued***1:15 PM – 3:30 PM****Plenary Session****Derek Denny-Brown Young Neurological Scholar Symposium***

The Derek Denny-Brown Young Neurological Scholar Symposium is an opportunity for young researchers to share groundbreaking research in the field of Neurology and Neuroscience. This symposium will feature presentations from the 2022 Derek Denny-Brown awardees, the Wolfe Neuropathy Research Prize, the Grass Foundation-ANA Award in Neuroscience recipients and the Audrey S. Penn Lectureship awardee. Awardees receiving the Distinguished Teacher Award, the ANA-Persyst IDEAS Professional Development Award, and the ANA Awards for Excellence will also be recognized during this session.

CHAIR: Michael D. Geschwind, MD, PhD, FANA, University of California, San Francisco

CO-CHAIR: Laurie Gutmann, MD, FANA, Indiana University

3:30 PM – 3:45 PM**Break****3:45 PM – 5:45 PM****Traditional Special Interest Groups****Autoimmune Neurology & MS**

CO-CHAIR: Stephanie K. Tankou, MD, PhD, Mount Sinai Health System

CO-CHAIR: Gregory S. Day, MD, MSc, MSCI, FAAN, Mayo Clinic

Behavioral Neurology and Dementia

CHAIR: Richard (Ryan) Darby, MD, Vanderbilt University

CO-CHAIR: Thomas Wingo, MD, Emory University

Epilepsy

CHAIR: Chloe E. Hill, MD, MS, University of Michigan

CO-CHAIR: Colin A. Ellis, MD, University of Pennsylvania

Global Neurology

CHAIR: Felicia Chow, MD, University of California, San Francisco

CO-CHAIR: Monica Maria Diaz, MD, MS, University of North Carolina

Neurocritical Care and Traumatic Brain Injury

CHAIR: H.E. Hinson, MD, MCR, Oregon Health & Science University

CO-CHAIR: Marion Buckwalter, MD, PhD, Stanford University

Neuromuscular Disease

CHAIR: Michelle Mauermann, FANA, MD, Mayo Clinic

CO-CHAIR: Teerin Liewluck, MD, Mayo Clinic

6:00 PM – 7:30 PM**Poster Presentation & Reception*****7:30 PM – 10:30 PM****President's Reception***

* This session is not available for AMA PRA Category I Credit(s)™

Tuesday, October 25, 2022**6:30 AM – 2:30 PM****Registration****6:30 AM – 7:30 AM****Breakfast****7:00 AM – 8:30 AM****Professional Development Courses****Early Career Level****Course 3: Strategies for Landing your Target Fellowship/Faculty**

Successfully navigating the search for a fellowship or faculty position is a critical step in launching and advancing your career. In this session, academic leaders will share their advice from beginning the search to finding the best fit and negotiating your first position. Their talks will be followed by an interactive panel discussion with questions from the audience.

Learning Objectives

- Learn what to expect during the fellowship and faculty application process.
- Understand how to negotiate for an academic neurology position.
- Discover advice on best approaches to apply to and obtain your ideal fellowship or faculty position.

CHAIR: Peter K. Todd, MD, PhD, FANA, University of Michigan

CO-CHAIR: Christa O'Hana S. Nobleza, MD, MSCI, University of Mississippi

Strategies for Landing your Target Faculty Position: a Chair's Perspective

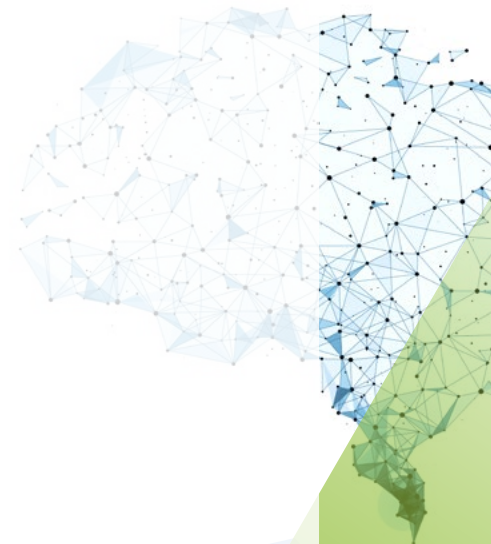
SPEAKER: Claire Henschcliffe, MD, DPhil, FANA, University of California, Irvine

Strategies for Landing your Target Fellowship Position: A Fellowship Director's Perspective

SPEAKER: Charles Flippen II, MD, FANA, University of California, Los Angeles

Strategies for Landing your Target Faculty Position: a Clinician Educator and Researcher's Perspective

SPEAKER: Lori Shutter, MD, FNCS, FCCM, FANA, University of Pittsburgh



* This session is not available for AMA PRA Category I Credit(s)™

Tuesday, October 25, 2022 *continued***7:00 AM – 8:30 AM****Early to Mid-Career Level****Course 3: Demystifying the Academic Promotion Process**

The promotion process in academic medical centers can be opaque and difficult for early career faculty members to navigate. This is likely to adversely affect promotion outcomes, particularly for women and physicians from ethnic groups underrepresented in medicine. Moreover, it has been demonstrated that current efforts to encompass a diverse workforce of academic physician faculty are inadequate and improvements are needed. While specific procedures vary across institutions, many requirements for promotion are shared among institutions, including selection of a “track” (typically research, clinical care, or medical education), establishment of a regional or national reputation, and input from external reviewers. This session will include talks from a mid-career academic neurologist who recently completed the process of promotion to associate professor, as well as a senior academic neurologist with experience evaluating candidates for promotion. These speakers will present a clear and practical overview of the process and take questions from attendees in a candid, informal environment.

Learning Objectives

- Learners will know the tracks available for academic promotion at most institutions.
- Learners will know the typical requirements for promotion in each track.
- Learners will understand the importance of building a regional and national reputation, and gain ideas about strategies for doing so (e.g. networking at regional and national meetings or via social media, invited talks, publications).
- Learners will know that letters from external reviewers are required for promotion and gain ideas about how to select appropriate reviewers.

CHAIR: Anna M. Bank, MD, Lennox Hill Hospital, Northwell Health

CO-CHAIR: Larry Charleston IV, MD, MSc, FAHS, Michigan State University

Charting your Path to Associate Professor: Practical Tips for the Process

SPEAKER: Heidi M. Munger Clary, MD, MPH, Wake Forest University

Readiness for Promotion

SPEAKER: Barbara G. Vickrey, MD, Mount Sinai Health System

7:00 AM – 8:30 AM**AUPN Chair Career Level****Course 3: Chair Evaluations of Faculty**

This course is designed for physician leaders to improve their feedback skills. Leaders will gain insight into goal setting, defining expected behavior, and optimizing communication tools.

Learning Objectives

- Review effective communication for physicians’ leaders.
- Explore strategies for goal setting.
- Understand the role of chairs in managing and measuring faculty expectations.

CHAIR: Michel Torbey, MD, MPH, FANA, University of New Mexico

SPEAKER: David Greer, MD, MA, FANA, Boston University

SPEAKER: William Martin, PsyD, MPH, MSc, DePaul University

8:30 AM – 8:45 AM**Break**

* This session is not available for AMA PRA Category I Credit(s)™

Tuesday, October 25, 2022 *continued***8:45 AM – 10:45 AM****Plenary Session****Peripheral Contributions to Neurologic Disorders: Adaptive Immunity and Metabolic Influences**

In this session, panelists will discuss the recent discovery of peripheral contributions to the pathomechanisms of neurological disorders, including Alzheimer's disease and Parkinson's disease. While these neurological disorders have the primary pathology in the central nervous system, the metabolic controls and immune-mediated mechanism from the body have recently been found to be critically important in modulating the neurodegenerative processes. These novel pathways are now at the forefront of therapeutic development. Specifically, insulin and metabolic controls are known to influence how the proteins accumulate and aggregate in the brain, which could be the common pathways across neurodegenerative disorders. Immunological cells, such as T cells coming from the peripheral system, can accelerate the neurodegeneration in the parkinsonism disorders and the antigen-specific mechanism may explain selective vulnerability in these diseases. To review the field, panelists will gather evidence from animal models as well as patients to provide context for attendees and the overview for recent advances. This session will further create dialogues between neurologists and neuroscientists to develop ways to treat these neurodegenerative diseases.

Learning Objectives

- Understand the role of insulin in metabolic control of neurodegenerative disease.
- Appreciate the interaction between T cells and synuclein in Parkinson's disease.
- Recognize the regulatory influence of meningeal lymphatics on microglia.
- Identify mechanisms of peripheral immune cells in multiple system atrophy.

CHAIR: Sheng-Han Kuo, MD, Columbia University

CO-CHAIR: Matthew Robert Burns, MD, PhD, University of Florida

Metabolic Controls and Insulin across Neurogenerative Diseases

SPEAKER: Josephine Egan, MD, FRCPI, National Institutes of Health (NIH), National Institute on Aging (NIA)

Synuclein Recognizing T Cells Contribute to Parkinson's Disease

SPEAKER: David Sulzer, PhD, Columbia University

Meningeal Lymphatics Regulate Microglia in Alzheimer's Disease

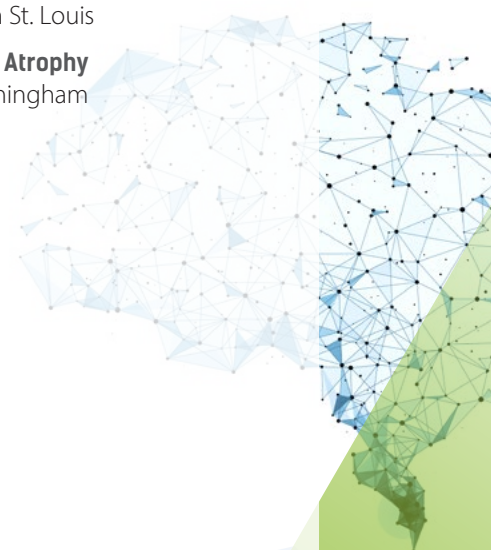
SPEAKER: Jonathan Kipnis, PhD, Washington University in St. Louis

Infiltration of Peripheral Immune Cells in Multiple System Atrophy

SPEAKER: Ashley Harms, PhD, University of Alabama, Birmingham

10:45 AM – 11:00 AM**Break**

* This session is not available for AMA PRA Category I Credit(s)™



Tuesday, October 25, 2022 *continued***11:00 AM – 12:30 PM****Lunch**

Boxed lunches will be available to take into the SIG Sessions and Additional Lunch Workshops

11:00 AM – 12:30 PM**Traditional Special Interest Groups****ANA-AHS Headache**

CHAIR: Will Renthal, MD, PhD, Brigham and Women's Hospital

CO-CHAIR: Charles Flippen II, MD, FAAN, FANA, University of California, Los Angeles

Cerebrovascular Disease

CHAIR: Alexandra L. Czap, MD, University of Texas, Houston

CO-CHAIR: Andrei Alexandrov, MD, University of Tennessee

Movement Disorders*

CHAIR: Michelle Gray, PhD, University of Alabama, Birmingham

CO-CHAIR: Erin F. Strimling, MD, FAAN, University of Texas, Houston

Neuro-Oncology

CHAIR: Megan Mantica, MD, University of Pittsburgh

CO-CHAIR: Kevin Elmore, MD, Mount Sinai Health System

Neuro-Ophthalmology and Neurovestibular Disease ^{NEW}

CHAIR: Daniel R. Gold, DO, Johns Hopkins University

CO-CHAIR: Ali G. Hamedani, MD, MHS, University of Pennsylvania

Sleep Disorders and Circadian Rhythms

CHAIR: Lynn Marie Trotti, MD, MSc, FANA, Emory University

CO-CHAIR: Sabra Abbott, MD, PhD, Northwestern University

11:00 AM – 12:30 PM**Additional Lunch Workshops****Media Roundtable***

The ANA will host an interactive panel for members of the press to learn from top neurologists about the key science being presented at the meeting

AUPN Networking Lunch for Small Academic Departments*

While all Neurology departments share some common attributes, there are challenges unique to smaller academic departments, including handling teaching and clinical service responsibilities, while protecting time for research and faculty development. This lunch, sponsored by the AUPN, provides an opportunity for chairs of smaller departments to meet, discuss issues and share strategies.

12:30 PM – 12:45 PM**Break**

* This session is not available for AMA PRA Category I Credit(s)™

Tuesday, October 25, 2022 *continued***12:45 PM – 2:30 PM****Plenary Session****Health Disparities in Neurologic Diseases: Challenges and Paths Forward**

Many of the most common and burdensome neurologic disorders disproportionately affect persons belonging to marginalized and minoritized groups. These persons face challenges that increase their likelihood of developing a range of neurologic disorders, impose barriers to their ability to access neurologic care, and give rise to inequities in how they are treated by health professionals. Addressing these disparities is critical to ensuring that excellent neurologic care is provided to an increasingly diverse population. In this symposium, presenters will discuss how racial and ethnic disparities impact two highly prevalent neurologic disorders, Alzheimer's disease and multiple sclerosis. Special attention will be paid to the topic of cognitive and behavioral assessment in diverse populations. Presenters will also address how neurologic disorders impact LGBTQ health. In addition to discussing the causes and consequences of neurologic disparities, speakers will point to approaches to ameliorating these disparities in order to advance more equitable, inclusive neurologic care.

Learning Objectives

- Following this session, learners will better understand the degree to which marginalized and minoritized populations are disproportionately impacted by neurologic disorders such as Alzheimer's disease and Multiple Sclerosis, and the causes and consequences of these disparities.
- Following this session, learners will better understand how to apply demographic information appropriately when evaluating cognitive and behavioral performance in neurologic patients from marginalized and minoritized groups.
- Following this session, learners will be better prepared to recognize and address neurologic issues as they occur in LGBTQ patients.

CHAIR: Roy H. Hamilton, MD, MS, FANA, University of Pennsylvania

CO-CHAIR: Lesli E. Skolarus, MD, FANA, University of Michigan

A Roadmap for Advancing Dementia Equity in Science and Care

SPEAKER: Monica Rivera-Mindt, PhD, ABPP, Fordham University

Diagnosis and Management Disparities in Multiple Sclerosis

SPEAKER: Lilyana Amezcua, MD, University of Southern California

LGBTQ Care in Neurology

SPEAKER: Nicole Rosendale, MD, University of California, San Francisco

Social Determinants of Health, the Exposome and Dementia: A Focus on Action

SPEAKER: Amy Kind, MD, PhD, University of Wisconsin

2:30 PM**Adjourn****Meeting Adjourn**

*CME not available for this session.

Note: The Annual Meeting offers CME to eligible participants. Complete CME information, including a breakdown of the credits offered for each session and the instructions for claiming credit, is available online at 2022.myana.org/continuing-medical-education.

The American Neurological Association is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Schedule Subject to Change: The event's operating hours, schedules, and speakers are subject to change or cancellation without notice. Refunds will be not issued for failure to attend a live session.

* This session is not available for AMA PRA Category I Credit(s)™

ANA2022 Registration Options

Registration is now open for the ANA2022 Annual Meeting! Be sure to take a moment to [register](#) and join your colleagues for this exciting event! To learn more about ANA membership, click [here](#) or contact the ANA at info@myana.org or [856-380-6893](tel:856-380-6893).

	Early Bird 4/19–9/16	Regular/ On-Site 9/17–10/25
ANA–Member: Instructor/Assistant Professor		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$555	\$605
Research Careers Reimagined Course Add-On <i>(Optional & Complimentary with Full Meeting Registration)</i>	FREE	FREE
One-Day Registration	\$335	\$385
One-Day & Opening Symposium Registration	\$460	\$510
One-Day & Research Careers Reimagined Course Registration	\$460	\$510
Opening Symposium Registration	\$125	\$125
Research Careers Reimagined Course Registration	\$125	\$125
Research Careers Reimagined Course & Opening Symposium Registration	\$250	\$250
Fellow: Associate Professor / Full Professor / Department Chair		
Full Meeting Registration** <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$555	\$605
One-Day Registration	\$335	\$385
One-Day & Opening Symposium Registration	\$460	\$510
Opening Symposium Only Registration	\$125	\$125
Corresponding Fellow: Associate Professor / Full Professor / Department Chair		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$555	\$605
One-Day Registration	\$335	\$385
One-Day & Opening Symposium Registration	\$460	\$510
Opening Symposium Registration	\$125	\$125

ADA Accommodations

ADA accommodations will be made in accordance with the law. If you require ADA accommodations, **please indicate what your needs are at the time of registration.** We cannot ensure the availability of appropriate accommodations without prior notification.

	Early Bird 4/19–9/16	Regular/ On-Site 9/17–10/25
Corresponding Member: Instructor / Assistant Professor		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$555	\$605
Research Careers Reimagined Course Add-On <i>(Optional & Complimentary with Full Meeting Registration)</i>	FREE	FREE
One-Day & Opening Symposium Registration	\$335	\$385
One-Day & Research Careers Reimagined Course Registration	\$460	\$510
One-Day Registration	\$460	\$510
Opening Symposium Registration	\$125	\$125
Research Careers Reimagined Course Registration	\$125	\$125
Research Careers Reimagined Course & Opening Symposium Registration	\$250	\$250
Honorary/Senior Member		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$455	\$505
One-Day Registration	\$335	\$385
One-Day & Opening Symposium Registration	\$460	\$510
Opening Symposium Registration	\$125	\$125
Associate: Trainee / Resident / Postdoc Fellow		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$220	\$220
Research Careers Reimagined Course Add-On <i>(Optional & Complimentary with Full Meeting Registration)</i>	FREE	FREE
One-Day Registration	\$60	\$60
One-Day & Opening Symposium Registration	\$185	\$185
One-Day & Research Careers Reimagined Course Registration	\$185	\$185
Opening Symposium Registration	\$125	\$125
Research Careers Reimagined Course Registration	\$125	\$125
Research Careers Reimagined Course & Opening Symposium Registration	\$250	\$250

continued next page

ANA2022
Meeting Recordings
Package**
FREE
with ANA2022
Full Registration

	Early Bird 4/19–9/16	Regular/ On-Site 9/17–10/25
Non-Member: Associate Professor / Professor / Department Chair		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$755	\$805
One-Day Registration	\$460	\$510
One-Day & Opening Symposium Registration	\$585	\$635
Opening Symposium Registration	\$125	\$125
Non-Member: Instructor/Assistant Professor		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$755	\$805
Research Careers Reimagined Course Add-On <i>(Optional & Complimentary with Full Meeting Registration)</i>	FREE	FREE
One-Day Registration	\$460	\$510
One-Day & Opening Symposium Registration	\$585	\$635
One-Day & Research Careers Reimagined Course Registration	\$585	\$635
Opening Symposium Registration	\$125	\$125
Research Careers Reimagined Course Registration	\$125	\$125
Research Careers Reimagined Course & Opening Symposium Registration	\$250	\$250
Student: Undergraduate / Postgraduate		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$220	\$220
One-Day Registration	\$60	\$60
One-Day & Opening Symposium Registration	\$120	\$120
Opening Symposium Registration	\$60	\$60
Non-Member Student: Undergraduate / Postgraduate		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$220	\$220
One-Day Registration	\$60	\$60
One-Day & Opening Symposium Registration	\$120	\$120
Opening Symposium Registration	\$60	\$60

	Early Bird 4/19–9/16	Regular/ On-Site 9/17–10/25
Low or Lower-Middle-Income Country		
Full Meeting Registration <i>(Includes ANA2022 Meeting Recordings Package**)</i>	\$220	\$220
Research Careers Reimagined Course Add-On (Instructor/ Assistant Professor / Trainee / Resident / Postdoc Fellow Only)	FREE	FREE
One-Day Registration	\$60	\$60
One-Day & Opening Symposium Registration	\$120	\$120
One-Day & Research Careers Reimagined Course Registration (Instructor/ Assistant Professor / Trainee / Resident / Postdoc Fellow Only)	\$185	\$185
Opening Symposium Registration	\$60	\$60
Research Careers Reimagined Course Registration (Instructor/ Assistant Professor / Trainee / Resident / Postdoc Fellow Only)	\$125	\$125
Research Careers Reimagined Course & Opening Symposium Registration (Instructor/ Assistant Professor / Trainee / Resident / Postdoc Fellow Only)	\$185	\$185

Add-On Items

Price

President's Reception Guest \$50.00

ANA2022 Meeting Recordings Package for ONE DAY or INDIVIDUAL workshops/sessions**

ANA Member	\$80
Student	\$50
Non-Member	\$100

** The ANA2022 Meeting Recordings Package includes recorded Plenary and SIG presentations from the October 2022 ANA Annual Meeting. Using ANA OnDEC, the ANA's new online education portal, you may easily view the videos and secure AMA PRA Category I Credits™

ANA2022
Meeting Recordings
Package**
FREE
with ANA2022
Full Registration

General Meeting Information

Cancellation Policy

To cancel your registration and receive a refund, a written request with your registration confirmation must be received by **September 16, 2022**. Please send your request to meetings@myana.org. Cancellation requests received by this date will receive a refund less a \$50 processing fee. Refunds will be processed after the meeting. All requests received after **September 16, 2022**, will forfeit 100% of monies paid. The event's operating hours, schedules, and speakers are subject to change or cancellation without notice. Refunds will not be issued for failure to view a live session.

Poster Viewing

Designated hours for Poster Viewing are as follows:

Sunday, October 23	12:00 PM–7:00 PM
Monday, October 24	12:00 PM–7:30 PM

Important Dates

April 12, 2022	Registration Opens
September 16, 2022	Early Bird Registration Deadline
September 23, 2022	Deadline for Discounted Group Rate at Hyatt Regency Chicago*
October 22, 2022	Opening Symposium
October 22–23, 2022	Research Careers Reimagined Course (optional, separate registration required)
October 22–25, 2022	ANA2022 Annual Meeting

**The group block could sell out prior to this date, so we encourage you to register as soon as possible!*

Recording, Reproduction, and Distribution of Content

By registering and attending the ANA2022 Annual Meeting I agree to not record, photograph, reproduce, or distribute any presentations or scientific content presented at the meeting as session and slide content is the intellectual property of our speakers.



Consent to Recording, Capture, and Distribution

ANA will be recording in audio and/or video format the sessions and events taking place during the Annual Meeting. ANA may elect to distribute the recordings and associated materials either individually or as part of a compilation. By attending, an attendee's image and/or voice in photographs, video recordings, electronic reproductions, audio recordings, and other media throughout the world may be used and you acknowledge these activities and consent to such recording, capture, and distribution by ANA, royalty-free. Additionally, ANA contractors and sponsors may be audio and/or video recording sessions and events at this event. By attending, your image and/or voice in photographs, video recordings, electronic reproductions, audio recordings, and other media throughout the world may be used, including, but not limited to publications, on their websites, and in any other marketing and promotional materials. You acknowledge these activities and consent to such recording, capture, and distribution, royalty-free.



Language

The official language of the Annual Meeting is English. No simultaneous translation is available.

Hotel Accommodations

For your convenience, a block of sleeping rooms has been reserved at the **Hyatt Regency Chicago** at a conference rate of \$279 (plus taxes) per night for a traditional single or double room.

The special group room rate will be available through **September 23, 2022**, or until the ANA block is sold out. After this date, the prevailing rates for the hotel will apply.

General Hotel Information

To reserve a room(s) at the group rate, please visit the meeting website at 2022.myana.org and click on the Housing tab.

Disclaimer: ANA strongly encourages you to make hotel reservations for the Annual Meeting directly with the official host hotel, the Hyatt Regency Chicago. Please be aware, any solicitation you receive regarding housing services coming from a third party company

is not endorsed by or affiliated with ANA in any way. Room reservations made on your behalf by any outside company may not be guaranteed. ANA is not responsible for any reservations made outside of the official hotel block.

Hyatt Regency Chicago 151 E Wacker Dr, Chicago, IL 60601

Offering an energetic urban retreat near Navy Pier, Hyatt Regency Chicago features the most hotel rooms and largest selection of meeting space in downtown Chicago. A gateway to the city's top attractions, you can walk to Millennium Park, or shop on Magnificent Mile.

CHECK-IN TIME: 3:00 PM | CHECK-OUT TIME: 12:00 PM

SPECIAL ACCOMMODATIONS: If you require special accommodations in order to fully participate in the program, please contact the ANA Meeting Coordinator at meetings@myana.org.

Continuing Medical Education

Accreditation & Designation Statement(s)

The Annual Meeting offers CME to eligible participants. Complete CME information, including a breakdown of the credits offered for each session and the instructions for claiming credit, is available online at 2022.myana.org/continuing-medical-education.

The American Neurological Association is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

COVID-19 Protocol

ANA will be following relevant guidance provided by CDC and local government and health officials as it pertains to COVID-19 protocols. Attendees registering for ANA2022 should understand and expect to comply with any health and safety measures in place at the time of the Annual Meeting.

Key Meeting Information

Hotel Reservation Deadline:

September 23, 2022

Book Online: 2022.myana.org/housing

Early Registration Deadline:

September 16, 2022

Online

Registration: 2022.myana.org/event-registration

Registration & Meeting Questions:

Phone: [856-380-6893](tel:856-380-6893)

Email: meetings@myana.org

Hours: **Mon–Fri | 9:00 am–5:00 pm ET**

Meeting Location:

**Hyatt Regency Chicago
51 E Wacker Dr
Chicago, IL 60601**

Board of Directors

President

Frances E. Jensen, MD, FANA 2021–2023
University of Pennsylvania

President-Elect

M. Elizabeth Ross, MD, PhD, FANA 2021–2023
Cornell University

Past President

Justin McArthur, MBBS, MPH, FANA 2019–2023
Johns Hopkins University

Vice President

David Standaert, MD, PhD, FANA 2021–2022
University of Alabama at Birmingham

Treasurer

Clifton L. Gooch, MD, FANA 2018–2022
University of South Florida

Secretary

S. Thomas Carmichael, MD, PhD, FANA 2021–2023
University of California, Los Angeles

Directors

Romer Gryko G. Geocadin, MD, FANA 2020–2023
Johns Hopkins University

Ming Guo, MD, PhD, FANA 2021–2024
University of California, Los Angeles

Dimitri Krainc, MC, PhD, FANA 2019–2022
Northwestern University

Jun Li, MD, PhD, FANA 2020–2022
Wayne State University

Elisabeth S. Marsh, MD, FANA 2021–2024
Johns Hopkins University

M. Maral Mouradian, MD, FANA 2020–2023
Rutgers University

Avindra Nath, MD, FANA 2021–2024
National Institutes of Health (NIH)

Lesli E. Skolarus, MD, FANA 2019–2022
University of Michigan

Erik Roberson, MD, FANA, PhD 2020–2023
University of Alabama at Birmingham

Kevin Sheth, MD, FANA 2021–2022
Yale University

Ex-Officio

John (Jack) Kessler, MD, FANA 2018–2022
Northwestern University

Eric Landsness, MD, PhD, 2021–2022
Washington University in St. Louis

Kenneth L. Tyler, MD, FANA 2022–2025
University of Colorado

Scientific Program Advisory Committee

The overall educational focus of ANA's Annual Meeting has been planned by the following dedicated and accomplished ANA committee members:

Chair

Rebecca Gottesman, MD, PhD, FANA 2021–2023
National Institutes of Health (NIH)

Members

Beau Ances, MD, PhD, MSc, FANA 2021–2024
Washington University in St. Louis

Stefanie Geisler, MD 2020–2022
Washington University in St. Louis

Howard Goodkin, MD, PhD, FANA 2021–2024
University of Virginia

Maria Luisa Gorno-Tempini, MD, PhD, FANA 2020–2022
University of California, San Francisco

Roy H. Hamilton, MD, MS, FANA 2021–2024
University of Pennsylvania

Sheng-Han Kuo, MD 2020–2022
Columbia University

Jack M. Parent, MD, FANA 2021–2024
University of Michigan

Annapurna Poduri, MD, MPH 2021–2024
Boston Children's Hospital

Lauren Sansing, MD, MS, FANA 2021–2024
Yale University

Krishnankutty Sathian, MBBS, PhD, FANA 2020–2023
Pennsylvania State University

Bryan Traynor, MD, PhD, FANA 2020–2023
National Institutes of Health (NIH)

Ex-Officio

Frances E. Jensen, MD, FANA 2019–2025
University of Pennsylvania

Justin C. McArthur, MBBS, MPH, FANA 2019–2023
Johns Hopkins University

M. Elizabeth Ross, MD, PhD, FANA 2020–2022
Cornell University

Career Development Subcommittee

Chair

Tracey A. Cho, MD, FANA 2020–2022
University of Iowa

Members

Jayant N. Acharya, MD, FANA 2021–2024
Pennsylvania State Hershey Medical Center

Larry (LC) Charleston IV, MD, MSc 2020–2022
Michigan State University

Claire Henchcliffe, MD, DPhil, FANA 2020–2022
University of California, Irvine

Daniela Maria Menichella, MD, PhD 2020–2023
Northwestern University

Christa Nobleza, MD 2021–2024
University of Mississippi

Peter K. Todd, MD, PhD, FANA 2020–2023
University of Michigan

Ex-Officio

Romergryko G. Geocadin, MD, FANA 2020–2022
Johns Hopkins University

Interactive Lunch Workshops Subcommittee

Chair

Beau Ances, MD, PhD, MSc, FANA 2016–2022
Washington University in St. Louis

Members

Neeraj Badjatia, MD, MS, FANA 2016–2022
University of Maryland

Stacey Clardy, MD, PhD 2018–2022
University of Utah

Seemant Chaturvedi, MD, FANA 2020–2023
University of Maryland

Thomas E. Lloyd, MD, PhD, FANA 2020–2022
Johns Hopkins University

Cassie S. Mitchell, PhD 2020–2023
Georgia Institute of Technology

Tanya Simuni, MD, FANA 2016–2023
Northwestern University

Mark S. Wainwright, MD, PhD, FANA 2016–2023
Seattle Children's Hospital

Ex-Officio

Romer Gryko G. Geocadin, MD, FANA 2020–2023
Johns Hopkins University

Research Careers Reimagined Course Subcommittee

Chair

Laura J. Balcer, MD, MSCE, FANA 2019–2023
New York University

Members

Craig Blackstone, MD, PhD, FANA 2019–2022
Massachusetts General Hospital

Lawrence R. Wechsler, MD, FANA 2017–2022
University of Pittsburgh