145TH ANNUAL MEETING  
OF THE AMERICAN NEUROLOGICAL ASSOCIATION

Enjoy scientific symposia highlighting cutting-edge research in neurology, poster sessions packed with the latest emerging science, and professional development courses to help neurologists at all career levels connect and excel at the ANA2020 Virtual Meeting.

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Dear Colleagues,

This fall, for the first time in its 145-year history, the Annual Meeting of the American Neurological Association (ANA) will be fully virtual. We cordially invite you to join us for this historic event October 4–9, 2020.

This year, the ANA is giving back to the neurological community by providing ANA members with complimentary registration for ANA2020 and offering significantly reduced registration rates for non-members. We expect to welcome more than 800 academic neurologists and neuroscientists from around the world to share exciting research updates and best practices. As always, there will be myriad opportunities for professional networking and education. Attendees will be able to network with colleagues through virtual networking events, which will bring the global neurological community together.

In addition to outstanding talks and poster presentations representing the latest advances in translational neuroscience, neurobiology of disease, and academic neurology, Special Interest Group (SIG) sessions and Interactive Workshops will spotlight advances across the full spectrum of neurologic subspecialties. Additionally, the professional development sessions at this year’s event have something for everyone whether you are a student deciding which subspecialty to pursue or a department chair seeking best practices in administration. New this year are Emerging Scholar sessions focused on providing a platform for young investigator presentations.

This year’s symposia dives into the science behind recent breakthroughs in our understanding and treatment of neurological disorders across a broad etiological spectrum. Topics include the emerging recognition that glia cells can serve as principal effectors of neuron degeneration and repair; the role of a tumor’s microenvironment in CNS malignancy; and how personalized medicine approaches have been transformed by advances in genomic medicine.

The 2020 Presidential Symposium features experts and leaders in the field of wearable technologies discussing how wearable sensors can predict functional outcomes, diagnose patients, improve functional recovery post-stroke, or serve as outcomes in clinical trials.

Continuing its dedication to promoting and extending collaborations in neurological education and research among academic neurologists across the globe, this year the ANA is pleased to welcome colleagues from the Pan American Federation of Neurological Societies to the Annual Meeting.

The festivities will commence with the Translational and Clinical Research Course (TCRC), designed for early career physician-scientists interested or engaged in translational or clinical neuroscience research on October 3, followed by a reception and virtual happy hour for junior and early career attendees. This year, TCRC will be complimentary for ANA members and offered at a significantly reduced rate for non-members.

On behalf of the Board of Directors, Scientific Program Advisory Committee (SPAC), ANA President Justin McArthur, Interactive Workshops Subcommittee, and the Career Development Subcommittee, we look forward to connecting with you virtually this fall.

With warmest wishes,

Conrad “Chris” Weihl, MD, PhD
Chair, Scientific Program Advisory Committee (SPAC)
Professor, Washington University School of Medicine in St. Louis
### Schedule at a Glance

**OCTOBER 4–9, 2020 • #ANA2020  REGISTER AT 2020.MYANA.ORG**

**Friday, October 2, 2020**
- 9:30 AM – 7:30 PM  **ANA-NINDS Career Development Symposium** *(by invitation only)*

**Saturday, October 3, 2020**
- 9:30 AM – 6:30 PM  **Translational and Clinical Research Course (TCRC)**
- 7:00 PM – 8:00 PM  **Junior and Early Career Virtual Reception**

**Sunday, October 4, 2020**
- 8:00 AM – 9:00 PM  **Poster Viewing**
- 10:00 AM – 12:00 PM  **Plenary Session**  
  Presidential Symposium: Leveraging Digital Technologies in Neurology*<sup>NEW</sup>  
- 12:30 PM – 2:30 PM  **Plenary Session**  
  Derek Denny-Brown Young Neurological Scholar Symposium
- 3:00 PM – 4:00 PM  **Emerging Scholar Lectures**<sup>NEW</sup>  
- 4:30 PM – 6:30 PM  **Plenary Session**  
  Targeting Glia for Therapy: Mediators of Neuroinflammation, Degeneration and Repair  
- 7:15 PM – 9:00 PM  **Poster Presentations**

**Tuesday, October 6, 2020**
- 8:00 AM – 7:30 PM  **Poster Viewing**
- 10:00 AM – 11:30 AM  **Professional Development Courses**  
  Early (Student, Resident, Trainee, Postdoc Fellow) & Early to Mid-Career Level  
  Course 1: View from the NINDS, NIA, NICHD, DoD, and VA  
  Chair Career Level Course 1: How to Get More Medical Students to Choose Neurology as a Career
- 11:30 PM – 12:00 PM  **Special Interest Group Networking Session**  
  Global Neurology
- 12:00 PM – 1:15 PM  **Interactive Workshops**  
  Emerging Neurological Infections  
  Recent Advances in Amyloidosis: A Disease You Can't Afford to Miss  
  Twitter and Social Media: A Role for Neurology and Neuroscience Engagement
- 12:00 PM – 2:00 PM  **Special Interest Group**  
  Global Neurology
- 1:45 PM – 2:30 PM  **Poster Presentations**
- 3:00 PM – 5:00 PM  **Special Interest Groups**  
  ANA-AHS Headache  
  Behavioral Neurology  
  Clinical Logic  
  Epilepsy  
  Neuromuscular Disease
- 5:00 PM – 6:00 PM  **Special Interest Groups Networking Sessions**  
  ANA-AHS Headache  
  Behavioral Neurology  
  Clinical Logic  
  Epilepsy  
  Neuromuscular Disease
- 5:00 PM – 6:00 PM  **Dedicated Exhibit Hall Hours**
- 6:00 PM – 7:30 PM  **Poster Presentations**

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

Note: The American Board of Psychiatry and Neurology has reviewed the 145th Annual Meeting of the American Neurological Association and has approved this program as part of a comprehensive CME program, which is mandated by the ABMS as a necessary component of Maintenance of Certification.

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 view a live session.
### Wednesday, October 7, 2020

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<td>8:00 AM – 7:30 PM</td>
<td>Poster Viewing*</td>
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<td>10:00 AM – 11:30 AM</td>
<td>Professional Development Courses</td>
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<td>Early (Student, Resident, Trainee, Postdoc Fellow) Career Level Course 2: Skills</td>
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<td>Development for Success in Research</td>
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<td>Early to Mid Career Level Course 2: Essential Skills for Academic Productivity in the First 5-10 Years</td>
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<td>Chair Career Level Course 2: How to Foster Development of Junior Faculty</td>
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<td>Teleneurology in Academic Practice: Current State and Future Directions</td>
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<td>The Gene Therapy Toolbox: AAV</td>
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<td>2:00 PM – 3:00 PM</td>
<td>Emerging Scholar Lectures*</td>
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<td>5:30 PM – 6:00 PM</td>
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<td>8:00 AM – 7:30 PM</td>
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<td>10:00 AM – 11:30 AM</td>
<td>Professional Development Courses</td>
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<td>Early (Student, Resident, Trainee, Postdoc Fellow) Career Level Course 3: Landing Your First Faculty Position</td>
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<td>Early to Mid-Career Level Course 3: Critical Decisions in Your Academic Neurology Career</td>
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<td>Chair Career Level Course 3: Managing Up and Down: Getting What You Need from Your Faculty and Your Dean</td>
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<td>11:30 AM – 12:30 PM</td>
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<td>11:45 AM – 12:15 PM</td>
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<td>12:30 PM – 1:45 PM</td>
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<td>What Type of Evidence Should Drive Clinical Decision-Making?</td>
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<td>2:00 PM – 3:00 PM</td>
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<td>Cerebrovascular Disease and Interventional Neurology</td>
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<td>Health Services Research</td>
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<td>Health Services Research</td>
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<td>Poster Presentations*</td>
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<td>12:30 PM – 1:45 PM</td>
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<td>Clinical Genetic Testing For Parkinson’s Disease: What, When and How?</td>
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<td>The 2020 NINDS Strategic Plan: A Progress Report and Request for Input</td>
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<td>Sleep Disorders &amp; Circadian Rhythms</td>
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<td>5:30 PM – 6:00 PM</td>
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* This session is not available for AMA PRA Category 1 Credit(s).**

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ANA2020 Virtual Meeting Highlights

Points of Interest

Who Should Attend

The ANA Annual Meeting has something to offer for everyone: medical students, residents, academic neurologists and neuroscientists in their first faculty position, mid-level professionals and department chairs. ANA2020 is the ideal meeting for any clinician-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.

Translational and Clinical Research Course (TCRC) for Physician–Scientists

Saturday, October 3, 2020

The Translational and Clinical Research (TCRC) Course is designed to further the development of early career physician-scientists interested or engaged in translational or clinical neuroscience research. Those selected to participate will walk away with practical information to support their career development as well as strategies for developing research grant proposals.

Tailor-made for trainees and junior faculty interested in pursuing a career in academic neurology, this one-day course combines engaging sessions with unique networking opportunities. Participants will have the chance to interact with senior clinician leaders and current clinician scientists who are well-placed to facilitate the success of neurology’s next generation of academic and research-focused faculty. Programming will include a mix of talks, case examples, and small group discussions allowing participants to further explore and develop specific areas of interest.

Plenary Sessions

- Presidential Symposium: Leveraging Digital Technologies
- Derek Denny-Brown Young Neurological Scholar Symposium
- Genomics of Personalized Medicine
- Microenvironment Control of Brain Tumor Pathogenesis
- Targeting Glia for Therapy: Mediators of Neuroinflammation, Degeneration and Repair
Points of Interest

Special Interest Group (SIG) Sessions

- Autoimmune Neurology
- Behavioral Neurology
- Cerebrovascular Disease and Interventional Neurology
- Clinical Logic (previously Case Studies)
- Dementia and Aging
- Education
- Epilepsy
- Global Neurology
- Headache
- Health Services Research
- Movement Disorders
- Multiple Sclerosis
- Neurocritical Care
- Neurogenetics
- Neuromuscular Disease
- Neuro-Oncology
- Sleep Disorders and Circadian Rhythm
- Traumatic Brain Injury

NEW!

OCTOBER 4–9, 2020 • #ANA2020 —6— REGISTER AT 2020.MYANA.ORG
Interactive Workshops

• The Gene Therapy Toolbox: AAV
• Recent Advances in Amyloidosis: A Disease You Can't Afford to Miss
• The 2020 NINDS Strategic Plan: A Progress Report and Request for Input
• Emerging Neurological Infections
• Teleneurology in Academic Practice - Current State and Future Directions
• Twitter and Social Media: A Role for Neurology and Neuroscience Engagement
• What Type of Evidence Should Drive Clinical Decision-Making?
• Clinical Genetic Testing for Parkinson’s Disease: What, When and How?
• Biomarker in Clinical Studies

Professional Development Courses

Students, Residents, and Postdoc Fellows Career Level Courses:

• Course 1: Meet the NINDS, NIA, NICHD, DoD, and VA
• Course 2: Skills Development for Success in Research
• Course 3: Landing Your First Faculty Position

Early to Mid-Career Level Courses:

• Course 1: Meet the NINDS, NIA, NICHD, DoD, and VA
• Course 2: Essential Skills for Academic Productivity in the First 5-10 Years
• Course 3: Critical Decisions in Your Academic Neurology Career

AUPN Chair Career Level Courses:

• Course 1: How to Get More Medical Students to Choose Neurology as a Career
• Course 2: How to Foster Development in Junior Faculty
• Course 3: Managing Up and Down: Getting What You Need from Your Faculty and Your Dean

*This session is not available for AMA PRA Category I Credit(s)™*
ANA2020 Detailed Virtual Program

Friday, October 2, 2020

9:30 AM – 7:30 PM ANA–NINDS Career Development Symposium
(by 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.

Saturday, October 3, 2020

9:30 AM – 6:30 PM Translational and Clinical Research Course (TCRC)
The course is designed to further the development of young physician-scientists interested in or engaged in translational or clinical neuroscience research. This course will provide selected research fellows, residents, and junior faculty members with strategies for career development and developing research grant proposals that are designed to encourage trainees and junior faculty to pursue careers in academic neurology. The sequence of topics will include sessions geared towards early stages of career development along with as unique opportunities to interact with senior clinician leaders and current clinician scientists that are well-placed to facilitate the success of neurology’s next generation of academic and research-focused faculty. Talks, small group discussions, and case examples will be used as learning strategies. Small group discussions will also allow participants to further explore and develop specific areas of interest. Each day will also include time for networking with other participants and speakers.

7:00 PM – 8:00 PM Junior and Early Career Virtual Reception
Learn how to make the most of your ANA Meeting. Join the members of the Junior and Early Career Membership Committee for a virtual 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 Credits™
Sunday, October 4, 2020

8:00 AM – 9:00 PM
Poster Viewing*

10:00 AM – 12:00 PM
Plenary Session

Presidential Symposium: Leveraging Digital Technologies in Neurology*
This symposium will provide clinicians and researchers with information on how to successfully incorporate virtual visits and digital and wearable devices in clinical care and clinical research settings. The introduction and deployment of digital therapeutics into neurology will be discussed. The implications of the deployment of digital technologies for clinical trials and clinical research will be discussed.

Learning Objectives:
• Assess current clinical practice and/or research platforms to determine where technology has the potential to improve processes
• Anticipate the future direction of digital therapeutics in neurological research and clinical practice
• Opine the impact of regulatory oversight and develop tactics to overcome hurdles

CHAIR: Justin McArthur, MBBS, MPH, Johns Hopkins University
CO-CHAIR: Lindsey Wooliscroft, MD, Oregon Health & Science University

Deep Phenotyping of Parkinson’s Disease Using Digital Technology
SPEAKER: Jamie Adams, MD, University of Rochester

Digital Therapeutics
SPEAKER: Adam Gazzaley, MD, PhD, University of California, San Francisco

Precision Rehabilitation Strategies for Motor Recovery Post Stroke
SPEAKER: Preeti Raghavan, MD, Johns Hopkins University

Developing Novel Outcome Measures for Clinical Trials
SPEAKER: Jang-ho Cha, MD, PhD, Novartis Institutes for BioMedical Research

High-Performance Digital Biomarkers: Ethmic Markers for Rapid, Precise Monitoring of Disease Progression
SPEAKER: Aldo Faisal, PhD, Imperial College London

* This session is not available for AMA PRA Category I Credit(s)™
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 2020 Derek Denny-Brown awardees, the Wolfe Neuropathy Research Prize and the Grass Foundation-ANA Award in Neuroscience recipients.

The Derek Denny-Brown Young Neurological Scholar Award recognizes early to mid-career neurologists and neuroscientists. This award honors those neurologists and neuroscientists in the first 10 years of their career at the assistant/associate faculty (equivalent) level who have made outstanding basic and clinical scientific advances toward the prevention, diagnosis, treatment and cure of neurological diseases. The Honorary Membership and Awards Committee can designate up to a total of three (3) awards in any of the following three areas: Physician Scientist-Basic, Physician Scientist-Clinical, Neuroscientist-relevant to disease.

The Distinguished Neurology Teacher Award was established in 1996 to recognize outstanding accomplishments in teaching neurology to residents and medical students. The purpose is to encourage efforts to recognize and reward contributions by gifted and talented teachers in neurology. Each Neurology Department in the U.S. and Canada is encouraged to nominate one individual from the entire field of neurology each year.

The 2020 Grass Foundation–ANA Award in Neuroscience was established in 2007 to recognize outstanding young physician scientists conducting research in basic and clinical neuroscience. The Grass Foundation was established in 1955 by Albert and Ellen Grass to advance research and education in neuroscience, with a special focus on investigators early in their careers.

The Wolfe Neuropathy Research Prize for Investigators Identifying New Causes or Novel Treatments of Axonal Peripheral Neuropathy was established to honor outstanding investigators who identify a new cause or treatment of axonal peripheral neuropathy. Eligible candidates include faculty members at any stage in their career (MD, MD/PhD, or PhD) who identify either a new cause or treatment of axonal peripheral neuropathy. The same researcher can qualify for this award annually if s/he can demonstrate evidence of repeated success in identifying new causes or treatments for axonal peripheral neuropathy.

Emerging Scholar Lectures

New in 2020, the ‘Emerging Scholar Lectures’ series is designed exclusively for junior and early career annual meeting attendees. These sessions provide the opportunity for junior and early career members to present in front of a full virtual audience amongst their peer group. Attend a session to learn what cutting edge research the future leaders of the ANA have to share!
Plenary Session
Targeting Glia for Therapy: Mediators of Neuroinflammation, Degeneration and Repair

Nearly half of the brain is composed of glial cells, including oligodendrocytes, astrocytes, and microglia, and each likely contribute to the etiology and progression of neurological disease. In the past several years there have been an increasing number of high-profile, high-impact stories that implicate each of these cells in various neurological disorders that have no curative treatment. This session will focus on recent work highlighting the role of glial cells as the mediators of degeneration, inflammation and repair. A better understanding of the role of glial cells is likely critical to develop novel effective therapies.

Learning Objectives:
• Identify the specific glial cell types—astrocyte, oligodendrocyte lineage cells and microglia that are currently being studies in the context of neuroinflammatory and neurodegenerative disease
• Identify basic pathomechanisms addressing the role of glial cells mediate in inflammatory and neurodegenerative disease
• Identify glial-specific targets to develop reparative therapies

CHAIR: Jennifer Orthman-Murphy, MD, PhD, University of Pennsylvania

CO-CHAIR: Timothy Greenamyre, MD, PhD, University of Pittsburgh

Oligodendrocyte Precursor Cell Present Antigen and are Cytotoxic Targets in Inflammatory Demyelination
SPEAKER: Peter Calabresi, MD, FACP, Johns Hopkins University

Glia-Mediated Mechanisms of Chemotherapy-Related Cognitive Impairment
SPEAKER: Erin Gibson, PhD, Stanford University

Targeting Microglia-Mediated Synapse Elimination for Therapeutic Intervention in Demyelinating Disease
SPEAKER: Sebastian Werneburg, PhD, University of Massachusetts Medical School

Dissecting Out the Contribution of A1 Astrocytes to Alzheimer’s Disease
SPEAKER: Jessica S. Sadick, PhD, NYU Langone

Poster Presentations*
Monday, October 5, 2020

8:00 AM – 7:30 PM  Poster Viewing*

10:00 AM – 12:00 PM  Plenary Session

Genomics of Personalized Medicine
Unraveling the genetic etiology of neurological disease provides fundamental insights into the cellular pathways underlying disease pathogenesis. It also facilitates disease modeling, as well as the design and testing of targeted therapeutics. This session will illustrate how genomics is paving the way for the field to move towards precision-based treatments. Pediatric neurologists have demonstrated that gene modification of a previously untreatable disease, spinal muscular atrophy, is feasible. Here, we will explore how genomic knowledge may be translated into disease-modifying interventions in other neurologic diseases.

Learning Objectives:
• To review current genetic understanding of neurologic disease
• To delineate how genetic knowledge can be leveraged to advance the precision medicine paradigm

CHAIR: Conrad Weihl, MD, PhD, Washington University in St. Louis
CO-CHAIR: Tritia Yamasaki, MD, PhD, University of Kentucky
CO-CHAIR: Bryan J. Traynor, MD, PhD, NIA, NIH

Genetic Discovery and Translation in Neuromuscular Diseases
SPEAKER: Monkol Lek, PhD, Yale University

Patient-Customized Antisense Therapies for Rare Neurogenetic Diseases
SPEAKER: Timothy Yu, MD, PhD, Boston Children’s Hospital

Towards Primary Prevention of Genetic Prion Disease
SPEAKER: Sonia Vallabh, PhD, Broad Institute of MIT and Harvard University

CRISPR-mediated Therapeutics for Duchenne Muscular Dystrophy
SPEAKER: Melissa Spencer, PhD, University of California, Los Angeles

12:15 PM – 1:45 PM  Poster Presentations*

2:00 PM – 3:00 PM  Emerging Scholar Lectures*NEW!
New in 2020, the ‘Emerging Scholar Lectures’ series is designed exclusively for junior and early career annual meeting attendees. These sessions provide the opportunity for junior and early career members to present in front of a full virtual audience amongst their peer group. Attend a session to learn what cutting edge research the future leaders of the ANA have to share!

3:00 PM – 3:30 PM  Dedicated Exhibit Hall Hours*

* This session is not available for AMA PRA Category I Credit(s)™
Plenary Session
Microenvironment Control of Brain Tumor Pathogenesis
Brain tumors are complex cellular ecosystems composed of both neoplastic and non-neoplastic cell types. While considerable research has focused on the genetics, genomics, and growth control pathways operative in the cancer cells, there has been comparatively less focus on the non-neoplastic cells. This session will focus on recent findings that non-neoplastic cells in the brain, including neurons, microglia, and T cells, regulate brain tumor formation and progression, as well as metastasis to the brain. Moreover, each of these cellular dependencies represent opportunities for targeted therapies against tumors of the central nervous system.

Learning Objectives:
• To understand that neurons in the tumor microenvironment are critical drivers of brain tumor formation and growth
• To understand that immune system cells in the tumor microenvironment are critical drivers of brain tumor formation and growth
• To understand that immune system cells represent therapeutic vehicles for the treatment of brain tumors

CHAIR: Steven Small, MD, PhD, University of Texas at Dallas
CO-CHAIR: David Gutmann, MD, PhD, FAAN, FANA, Washington University in St. Louis

Neuronal Regulation of Brain Tumor Pathobiology
SPEAKER: Michelle Monje, MD, PhD, Stanford University

Immune System Cell Regulation of Brain Tumor Pathobiology
SPEAKER: David Gutmann, MD, PhD, FAAN, FANA, Washington University in St. Louis

The Brain Microenvironment and Metastasis
SPEAKER: Adrienne Boire, MD, PhD, Memorial Sloan Kettering Cancer Center

Immunotherapy for Brain Tumors
SPEAKER: Pedro Lowenstein, MD, PhD, University of Michigan

Poster Presentations*
Tuesday, October 6, 2020

8:00 AM – 7:30 PM  Poster Viewing*

10:00 AM – 11:30 AM  Professional Development Courses
Early (Student, Resident, Trainee, Postdoc Fellow) & Early to Mid-Career Level
Course 1: View from the NINDS, NIA, NICHD, DoD, and VA

Chair Career Level
Course 1: How to Get More Medical Students to Choose Neurology as a Career

11:30 PM – 12:00 PM  Special Interest Group Networking Session*
Global Neurology

12:00 PM – 1:15 PM  Interactive Workshops
Emerging Neurological Infections
Within the last year there has been an (re)emergence of Powassan encephalitis, Eastern equine encephalitis, measles, dengue and there is likely going to be an epidemic of acute flaccid myelitis due to an enterovirus which is expected to peak in October 2020. Hence it is critical that neurologists be informed of these diseases and know how to properly diagnose and treat them. Also, it is critical for them to know what specimens to collect and how to access help from state and federal health agencies. This session will feature leaders in the field and in the frontline who can provide the latest information, share personal experiences and engage the audience in a discussion. They also have developed novel assays in their own laboratory that they can share with the audience.

Recent Advances in Amyloidosis: A Disease You Can’t Afford to Miss
Amyloidosis represents a heterogeneous group of disorders that may present with a diverse spectrum of clinical manifestations. In recent years there have been great advances in our understanding of the pathogenesis of this complex condition. This has led to an increase in the ability to provide more directed care, including novel, molecular-based therapeutic approaches. In this session and hear from leading experts as they discuss the latest advances in the pathogenesis, clinical care and features of amyloidosis, ranging from its effects on the cerebrovascular system to peripheral neuropathy. This along with data from ongoing clinical trials will provide the attendee with the most up to date evidence for this complex disorder.

Twitter and Social Media: A Role for Neurology and Neuroscience Engagement
Social media platforms like Twitter allow physicians and scientists to rapidly communicate and share information with millions of people. This workshop will explore in what capacity using Twitter can help physicians and scientists to improve care by creating a communicative and collaborative atmosphere with patients, physicians, scientists and researchers. Workshop discussants will also share best practices for increasing engagement with followers, such as the use of visual abstracts to disseminate their research findings. However, those who participate in social networking must not only be aware of best practices for social media engagement but also potential professional pitfalls and how to honor the patient-doctor relationship even when using these sites. Ultimately, this workshop will allow neurologists and researchers to determine, and make an informed decision about, how best to engage with Twitter and other social media platforms.

12:00 PM – 2:00 PM  Special Interest Group
Global Neurology

1:45 PM – 2:30 PM  Poster Presentations*

* This session is not available for AMA PRA Category I Credit(s)™
### Tuesday, October 6, 2020 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>3:00 PM – 5:00 PM</td>
<td><strong>Special Interest Groups</strong></td>
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<tr>
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<td>ANA-AHS Headache</td>
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<td>Behavioral Neurology</td>
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<td>Epilepsy</td>
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<td>Neuromuscular Disease</td>
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<tr>
<td>5:00 PM – 6:00 PM</td>
<td><strong>Special Interest Groups Networking Sessions</strong></td>
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<td></td>
<td>Neuromuscular Disease</td>
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<tr>
<td>5:00 PM – 6:00 PM</td>
<td><strong>Dedicated Exhibit Hall Hours</strong></td>
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<tr>
<td>6:00 PM – 7:30 PM</td>
<td><strong>Poster Presentations</strong></td>
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### Wednesday, October 7, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 AM – 7:30 PM</td>
<td><strong>Poster Viewing</strong></td>
</tr>
<tr>
<td>10:00 AM – 11:30 AM</td>
<td><strong>Professional Development Courses</strong></td>
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<td></td>
<td>Early (Student, Resident, Trainee, Postdoc Fellow) Career Level</td>
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<tr>
<td></td>
<td>Course 2: Skills Development for Success in Research</td>
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<tr>
<td>11:30 AM – 12:30 PM</td>
<td><strong>Dedicated Exhibit Hall Hours</strong></td>
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<tr>
<td>12:30 PM – 1:45 PM</td>
<td><strong>Interactive Workshops</strong></td>
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<td>Biomarker in Clinical Studies</td>
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<td>One of key reasons for the failed clinical trials is often due to inadequate biomarkers used for outcome measurements. There have been increasing NIH-funding mechanisms toward disease biomarker studies. This workshop will group a team of experts who are experienced in this area and share their insights in the establishment of biomarkers in clinical studies.</td>
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<td><strong>Teleneurology in Academic Practice: Current State and Future Directions</strong></td>
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<td>The workshop will be interactive case based discussion of the current state of teleneurology in an academic setting. The workshop will lay out the foundation of how to set up teleneurology practice in a academic setting, pros-cons of setting up teleneurology, and provide an evidence based overview of how teleneurology can be used in the current setting for different neurological sub-specialties. The workshop will be filled with case studies from authors practice including a overview of tele multiple sclerosis practice in a large academic setting.</td>
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<tr>
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<td><strong>The Gene Therapy Toolbox: AAV</strong></td>
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<td>Following the approval of the first gene therapy for a neurological disease, a growing number of clinical trials predicts additional approvals in the next decade, most using AAV as a vehicle. Neurologists should familiarize with the status of the field for these “one and done” therapies.</td>
</tr>
</tbody>
</table>

*This session is not available for AMA PRA Category I Credit(s)*
Wednesday, October 7, 2020

2:00 PM – 3:00 PM **Emerging Scholar Lectures**
New in 2020, the ‘Emerging Scholar Lectures’ series is designed exclusively for junior and early career annual meeting attendees. These sessions provide the opportunity for junior and early career members to present in front of a full virtual audience amongst their peer group. Attend a session to learn what cutting edge research the future leaders of the ANA have to share!

3:30 PM – 5:30 PM **Special Interest Groups**
- Multiple Sclerosis
- Neurocritical Care
- Traumatic Brain Injury (TBI)

5:30 PM – 6:00 PM **Special Interest Groups Networking Sessions**
- Multiple Sclerosis
- Neurocritical Care
- Traumatic Brain Injury (TBI)

6:00 PM – 7:30 PM **ANA-AUPN Career Fair**
The ANA-AUPN Career Fair is an opportunity for residents, post-doc fellows and graduate students to virtually interact with academic neurology departments to discuss career opportunities.
In its third year, the ANA-AUPN Career Fair will take place during its own dedicated hours at ANA2020. Neurology residents, postdoc fellows and graduate students can present their CVs and have brief discussions with institutions, pharma companies and recruitment companies regarding open positions. Last year, Career Fair attendees met with department chairs from 28 prominent universities.

6:00 PM – 7:30 PM **Dedicated Exhibit Hall Hours**

Thursday, October 8, 2020

8:00 AM – 7:30 PM **Poster Viewing**

10:00 AM – 11:30 AM **Professional Development Courses**
- Early (Student, Resident, Trainee, Postdoc Fellow) Career Level
  Course 3: Landing Your First Faculty Position
- Early to Mid-Career Level
  Course 3: Critical Decisions in Your Academic Neurology Career
- Chair Career Level
  Course 3: Managing Up and Down: Getting What You Need from Your Faculty and Your Dean

11:30 AM – 12:30 PM **Interactive Workshop**
**Meet the Chairs**
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.

11:45 AM – 12:15 PM **Dedicated Exhibit Hall Hours**

* This session is not available for AMA PRA Category 1 Credit(s)™
Interactive Workshop
What Type of Evidence Should Drive Clinical Decision-Making?
Clinical decisions need to be fueled by solid data. Until recently, this was translated to mean that well conducted randomized controlled trials (RCTs) or meta-analyses that derive from them should be the primary source of data for all “evidence based” guidelines. However, recently there is more discussion regarding the biases that can be introduced by RCT’s with excellent methodology but limited generalizability. This workshop will use examples derived from several neurologic conditions to address the contribution of RCTs vs other forms of data to clinical decision-making.

2:00 PM – 3:00 PM  Dedicated Exhibit Hall Hours*

2:00 PM – 3:00 PM  Special Interest Groups Networking Sessions*
Autoimmune Neurology
Cerebrovascular Disease and Interventional Neurology
Dementia and Aging
Education
Health Services Research

2:00 PM – 3:00 PM  Additional Workshop*
Media Roundtable

3:00 PM – 5:00 PM  Special Interest Groups
Autoimmune Neurology
Cerebrovascular Disease & Interventional Neurology
Dementia and Aging
Education
Health Services Research

5:15 PM – 6:00 PM  Executive Session of Membership*
All ANA members are encouraged to attend this session where new officers and directors will be elected to the ANA Board of Directors.

6:00 PM – 7:30 PM  Poster Presentations*

* This session is not available for AMA PRA Category I Credit(s)™
Friday, October 9, 2020

8:00 AM – 7:30 PM  Poster Viewing*

10:00 AM – 12:00 PM  Poster Presentations*

12:30 PM – 1:45 PM  Interactive Workshops
  
  Clinical Genetic Testing For Parkinson’s Disease: What, When and How?
  This workshop will provide an update of the common PD related genetic mutations and focus on the implications of recent discoveries on patient clinical care and clinical research. Specifically the program will cover the currently existing mechanisms for genotyping of PD patients (including direct to consumer, research and commercial testing) and discuss role of genetic counseling. Ethical issues surrounding genetic testing of the PD manifest and at risk individuals will be discussed.

The 2020 NINDS Strategic Plan: A Progress Report and Request for Input
  This workshop will introduce the audience to the process by which National Institute of Neurological Disorders and Stroke (NINDS) is creating its next strategic plan; provide an update on where in this process NINDS is currently and what progress has been made to date; and obtain input from the audience directly during the session and subsequently through an online interface.

AUPN’s Networking Session 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 session, sponsored by the AUPN and hosted by Sanjay Singh, MBBS, Chairman and Professor of the Department of Neurology at the Creighton University School of Medicine, provides an opportunity for chairs of smaller departments to meet, discuss issues and share strategies.

2:00 PM – 3:00 PM  Emerging Scholar LecturesNEW!
  New in 2020, the ‘Emerging Scholar Lectures’ series is designed exclusively for junior and early career annual meeting attendees. These sessions provide the opportunity for junior and early career members to present in front of a full virtual audience amongst their peer group. Attend a session to learn what cutting edge research the future leaders of the ANA have to share!

3:30 PM – 5:30 PM  Special Interest Groups
  Movement Disorders
  Neuro-Oncology
  Neurogenetics
  Sleep Disorders & Circadian Rhythms

5:30 PM – 6:00 PM  Special Interest Groups Networking Sessions*
  Movement Disorders
  Neuro-Oncology
  Neurogenetics
  Sleep Disorders and Circadian Rhythms

6:00 PM – 7:30 PM  Poster Presentations*

7:30 PM  Meeting Adjourns*

* This session is not available for AMA PRA Category 1 Credit(s)™

Note: The American Board of Psychiatry and Neurology has reviewed the 145th Annual Meeting of the American Neurological Association and has approved this program as part of a comprehensive CME program, which is mandated by the ABMS as a necessary component of Maintenance of Certification.

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 view a live session.
ANA2020 Registration Options

ANA is happy to offer active ANA Members complimentary ANA2020 Virtual Meeting registration. Be sure to take a moment to register for the virtual meeting and take advantage of this complimentary offer! To learn more about ANA membership, click here or contact the ANA at info@myana.org or 856-380-6892.

REGISTRATION RATES

<table>
<thead>
<tr>
<th></th>
<th>Early Bird Rate (Before September 8, 2020)</th>
<th>Standard Rate</th>
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</thead>
<tbody>
<tr>
<td>ANA-Member</td>
<td>COMPLIMENTARY</td>
<td>COMPLIMENTARY</td>
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<tr>
<td>Non-Member</td>
<td>$355</td>
<td>$455</td>
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<tr>
<td>Non-Member from LLMIC*</td>
<td>$80</td>
<td>$120</td>
</tr>
<tr>
<td>Non-Member Student, Resident, Trainee, PostDoc Fellow</td>
<td>$80</td>
<td>$120</td>
</tr>
</tbody>
</table>

*LLMIC: Low- or Lower-Middle-Income country as defined by the World Bank which can be accessed here.

ANA2020 Session Recordings

All full registrations will include access to the ANA2020 Meetings Recording package, which will be made available in the weeks following the virtual meeting.

• Capture key sessions of ANA2020 for review or earn CME for presentations that you missed with ANA2020 session Recordings, the Online Education Package that brings the groundbreaking research of ANA2020 to your fingertips 24/7.

• CME is based on content eligibility and not all sessions may award credit.

• Note: Specific presentations within a session may not be available if the presenter has confidential patient information or otherwise declines to be recorded.

Early Bird Deadline

To take advantage of early bird registration rates, register by September 8, 2020. After September 8, standard rates will apply.
Cancellation Policy

To cancel your registration and receive a refund, a written request with your registration confirmation must be received by September 8, 2020. 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 8, 2020, 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 Hours

Posters will be viewable throughout the entire meeting.

Designated hours with poster presenters present are as follows:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Sunday, October 4</td>
<td>7:15 PM–9:00 PM</td>
</tr>
<tr>
<td>Monday, October 5</td>
<td>12:15 PM–1:45 PM</td>
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<td></td>
<td>6:00 PM–7:30 PM</td>
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<tr>
<td>Tuesday, October 6</td>
<td>1:45 PM–2:30 PM</td>
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<td></td>
<td>6:00 PM–7:30 PM</td>
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<tr>
<td>Thursday, October 8</td>
<td>6:00 PM–7:30 PM</td>
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<tr>
<td>Friday, October 9</td>
<td>10:00 AM–12:00 PM</td>
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<td>6:00 PM–7:30 PM</td>
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</table>

Exhibit Hall Hours

The virtual exhibit hall will be open all day every day for attendees to view materials by the exhibitors.

Dedicated Exhibit Hours: A company representative should be present to answer any questions in person:

<table>
<thead>
<tr>
<th>Day</th>
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<tbody>
<tr>
<td>Monday, October 5</td>
<td>3:00 PM–3:30 PM</td>
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<tr>
<td>Tuesday, October 6</td>
<td>5:00 PM–6:00 PM</td>
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<tr>
<td>Wednesday, October 7</td>
<td>11:30 AM–12:30 PM</td>
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<tr>
<td>Thursday, October 8</td>
<td>11:45 AM–12:15 PM</td>
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<td>2:00 PM–3:00 PM</td>
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Recording, Reproduction, and Distribution of Content

By registering and attending ANA2020 Virtual 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 virtual 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 virtual 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.
Continuing Medical Education
Accreditation & Designation Statement(s)

The 145th Annual Meeting of the American Neurological Association:

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

The American Neurological Association designates this live activity for a maximum of **29.5 AMA PRA Category 1 Credit(s)™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Neurological Association hosts a wide range of educational programs. These programs seek to enhance the development and success of those pursuing a career in academic neurology at all levels. There are educational offerings to benefit those at the beginning stages of their careers, including students and those in their first faculty position, as well as those looking for best practices in Chair level positions. These programs seek to enhance attendee success in the field of academic neurology and to contribute to the overall education of neurologists and neuroscientists.

*The American Board of Psychiatry and Neurology has reviewed the 145th Annual Meeting of the American Neurological Association and has approved this program as a part of a comprehensive CME program, which is mandated by the ABMS as a necessary component of Maintenance of Certification.*

Additional information is also available online at [2020.myana.org/continuing-medical-education](http://2020.myana.org/continuing-medical-education)

PLEASE NOTE: A session that has an asterisk (*) next to the session title is not available for AMA PRA Category 1 Credit(s)™.

DISCLAIMER: The ANA does not endorse or affiliate with third-party companies, products or services including those that may have elected to support the 145th Annual Meeting.
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Clifford Saper, MD, PhD 2018–2021
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The overall educational focus of ANA’s Annual Meeting has been planned by the following dedicated and accomplished ANA committee members:

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Washington University in St. Louis

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Jennifer Frontera, MD 2019–2021
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Timothy Greenamyre, MD 2019–2021
University of Pittsburgh
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Johns Hopkins University
Juan Sanchez-Ramos, MD 2019–2021
University of South Florida
Steven L. Small, MD, PhD 2017–2020
University of Texas, Dallas

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David M. Holtzman, MD 2015–2021
Washington University in St. Louis
Justin C. McArthur, MBBS, MPH 2017–2019
Johns Hopkins University
Frances E. Jensen, MD 2019–2021
University of Pennsylvania
M. Elizabeth Ross, MD, PhD 2017–2020
Weill Cornell Medical College

Key Meeting Information

**Early Registration Deadline:**
September 8, 2020

Online Registration: [2020.myana.org/registration-information](2020.myana.org/registration-information)

**Meeting Contacts:**
Phone: 856-380-6892
Email: meetings@myana.org

**Registration & Meeting Questions:**
meetings@myana.org

Save the Date for ANA2021
146th Annual Meeting of the American Neurological Association
October 17–19, 2021
Washington, DC

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Yale School of Medicine

**Members**
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University of Iowa
Caitlin Loomis, MD 2019–2021
Yale School of Medicine
Jonathan Rosand, MD, MSc 2018–2020
Massachusetts General Hospital
Mary Willis, MD 2018–2020
Cleveland Clinic

**Ex-Officio**
Allison Willis, MD, MS 2018–2020
University of Pennsylvania
Interactive Workshops Subcommittee

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University of Pennsylvania

Members
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Brent Fogel, MD, PhD  2016–2020
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Emory University

Jun Li, MD, PhD  2018–2020
Wayne State University School of Medicine

Tanya Simuni, MD  2016–2020
Northwestern University

Mark Wainwright, MD, PhD  2016–2020
Seattle Children’s Hospital

Ex-Officio
Allison Willis, MD, MS  2018–2020
University of Pennsylvania
ANA2020 Important Dates

Registration Opens
June 15, 2020

Early Bird Deadline
September 8, 2020

145th Virtual Annual Meeting
October 4–9, 2020

Save the Date
146th Annual Meeting
Washington D.C.
October 17–19, 2021