







Workshops, Meetings, and Events

Professional Development, Advocacy, and Networking Resources

 Preregistration Required
  Course Fee
  Networking
 Professional Development
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 Online Content

FEES FOR SFN PRE-CONFERENCE SESSIONS

SfN Pre-Conference Sessions are sessions sponsored by the Society that occur prior to the official start of the annual meeting. Paid registration is required for Short Courses and the Neurobiology of Disease Workshop. To attend, add the appropriate course to your annual meeting registration.

Short Courses 1 and 2

(Includes electronic syllabus and lunch)

Student member.....	\$150
Student nonmember.....	\$225
Postdoctoral member.....	\$225
Postdoctoral nonmember.....	\$340
Faculty member.....	\$295
Faculty nonmember.....	\$445

Short Course 3

(Includes electronic syllabus)

Student member.....	\$100
Student nonmember.....	\$150
Postdoctoral member.....	\$150
Postdoctoral nonmember.....	\$225
Faculty member.....	\$200
Faculty nonmember.....	\$300

Neurobiology of Disease Workshop\$40

(Includes breakfast, lunch, and reception)

Friday, November 11

SfN Pre-Conference Sessions

NEUROBIOLOGY OF DISEASE WORKSHOP

Support contributed by the National Institute of Neurological Disorders and Stroke of the National Institutes of Health under Award Number 5R25NS054767. The content does not necessarily represent the official views of the National Institutes of Health.

From Pediatric Encephalopathy to Alzheimer's: Linking Mitochondria to Neurological Diseases

8 a.m.–5 p.m.

San Diego Convention Center: 6A

Organizers: Giovanni Manfredi, MD, PhD;

Heidi McBride, PhD

Contact: training@sfn.org

The last decade has seen an explosion in our understanding of the cell biology of mitochondria,

and has provided a renewed understanding of their contribution to neurological diseases ranging from pediatric encephalomyopathies to Alzheimer's, Huntington's, and others. In this workshop, leading experts will provide a better understanding of the etiology of mitochondrial diseases, the importance of mitochondrial plasticity within brain function, the mechanisms of mitochondrial motility in neurons, the critical importance of mitochondrial contacts with other organelles for the flux of metabolites, and the mitochondrial quality control pathways that ensure cellular survival.

SHORT COURSE 2

Data Science and Data Skills for Neuroscientists

8 a.m.–6 p.m.

San Diego Convention Center: 6C

Organizers: Alyson Fletcher, PhD;

Konrad Kording, PhD

Contact: training@sfn.org

Data skills and data science are moving from something that a small minority of computational scientists got excited about to central tools used by the bulk of neuroscientists. The objectives of this short course will be two-fold. First, leading experts will teach basic data skills that are useful and should be in the toolkit of virtually all neuroscientists. Second, speakers will survey the field of more advanced data science methods, to give participants an overview of which techniques to use under which circumstances. The course will be tutorial-based using technical computing software, with about half of the time spent on hands-on exercises, with data and support from experienced teaching assistants.

SHORT COURSE 1

Support contributed by Otsuka America Pharmaceutical, Inc. and Lundbeck (partial support)

Using Single-Cell Genomics to Analyze Neurons, Glia, and Circuits

8:30 a.m.–6 p.m.

San Diego Convention Center: 6B





Organizer: Steve McCarroll, PhD

Contact: training@sfn.org

NEW for 2016: Professional Development Workshop Tracks

Professional Development Workshops offered at Neuroscience 2016 are now categorized by tracks to help attendees quickly identify the workshops that are of the greatest interest to them.

Professional Development Workshop Tracks:

-  Career Paths On and Off the Bench
-  Career Skills
-  Teaching Neuroscience
-  Funding

Recent advances in technologies for preparing and analyzing cells, and for sequencing nucleic acids, are quickly making it possible to study the nervous system in information-rich, highly multi-dimensional ways. This rapidly-evolving field is presenting many exciting scientific opportunities — and also new challenges in computational data analysis and the integration of emerging technologies with classical research questions. In this short course, leading experts will enable neuroscientists across different specialties to apprehend these emerging technologies, to deploy them in their own research, and to define emerging research opportunities relevant to their areas of interest.

SHORT COURSE 3

Record Keeping and Data Management for High-Quality Science

1–5:30 p.m.

San Diego Convention Center: 11B

Organizers: Michele Basso, PhD; Katja Brose, PhD;

Horacio de la Iglesia, PhD; Sabine Kastner, MD, PhD;

Rae Nishi, PhD

Contact: training@sfn.org

Proper record keeping and data management are critical for the work we do as scientists.



Download the meeting mobile app for up-to-date session information

This course will focus on topics related to scientific record keeping and data management, including discussions of basic principles and best practices; information on responsibilities as an investigator, grantee, and author; recommendations on how to manage these responsibilities as part of collaborations; and an understanding of how funding agencies and journals address these issues when there are challenges around data integrity. Data and resource sharing as it contributes to open science and efforts to enhance data reproducibility will also be discussed. The course will feature three lectures interspersed with small group discussions to allow ample time for the examination of case studies.

Saturday, November 12

MEET-THE-CLINICIAN-EXPERT

8–9:15 a.m.

Manchester Grand Hyatt

Contact: program@sfn.org

At this year's inaugural Meet-the-Clinician-Expert session, Dennis Choi will describe his research techniques and accomplishments as a clinician-scientist. No registration is required, but seating is limited. Continental breakfast will be provided.

Dennis Choi, MD, PhD

Chasing Translation

Support contributed by MilliporeSigma

Room: Cortez Hill

Dennis Choi will outline his career travelogue, beginning with returning to a medical school as an academic neurologist, while simultaneously working full-time in a pharmaceutical company, a university, and a

non-profit disease foundation. When Choi began his training 40 years ago, clinical neuroscience was predominantly focused on bedside exams and prognosis, as treatment options were limited. Much has improved since then, but many therapeutic breakthroughs for nervous system diseases still remain undiscovered. Ready for the next charge of able neuroscientists and clinician-investigators? Choi will describe his own efforts to understand and interdict mechanisms of pathological neuronal death, working with both cell cultures and humans, and share personal perspectives gained along the way.

MEET-THE-EXPERT SERIES

8–9:15 a.m., 9:30–10:45 a.m.

Manchester Grand Hyatt

Contact: training@sfn.org

Experts will describe their research techniques and accomplishments in a personal context that offers participants a behind-the-scenes look at factors influencing each expert's work. The session will offer an opportunity for students and postdoctoral researchers to engage the expert in an informal dialogue over continental breakfast. No registration is required, but seating is limited.

SESSION 1: 8–9:15 A.M.

Ricardo Araneda, PhD

Following the Scents of Discovery

Support contributed by MilliporeSigma

Room: Mission Beach

Ricardo Araneda will discuss his journey as a scientist growing up in Patagonia, Chile, and migrating north following scents of discovery. Olfaction has an inherent complexity due to vast numbers of olfactory receptors employed in odor detection, and neuronal plasticity of the network involved in processing odor

signals. Araneda uses the olfactory system as a model to address two important questions in neurobiology: 1) the contribution of inhibitory components of neuronal networks to sensory processing; and 2) how the activity of these networks is regulated by neuromodulatory systems.

Michael Goldberg, MD

Single Unit Recording in Awake Monkeys:

Studying the Physiology of Cognition

Room: Solana Beach

The development of the awake monkey preparation was a transformative event in neuroscience. Until midcentury, neurophysiology was done exclusively in anesthetized animals. The awake monkey revolution began with Ed Evarts at the National Institute of Mental Health (NIMH), who studied motor cortex in awake, behaving monkeys. Bob Wurtz then showed that you could use this method to study visual perception. Fifty years later the awake monkey has contributed immensely to our knowledge of the physiology of psychological topics like perception, movement, decision-making, reward, and attention. Michael Goldberg will discuss the history of the field, his personal journey, and the joys of both serendipity and strong-hypothesis science.

Russell Swerdlow, MD

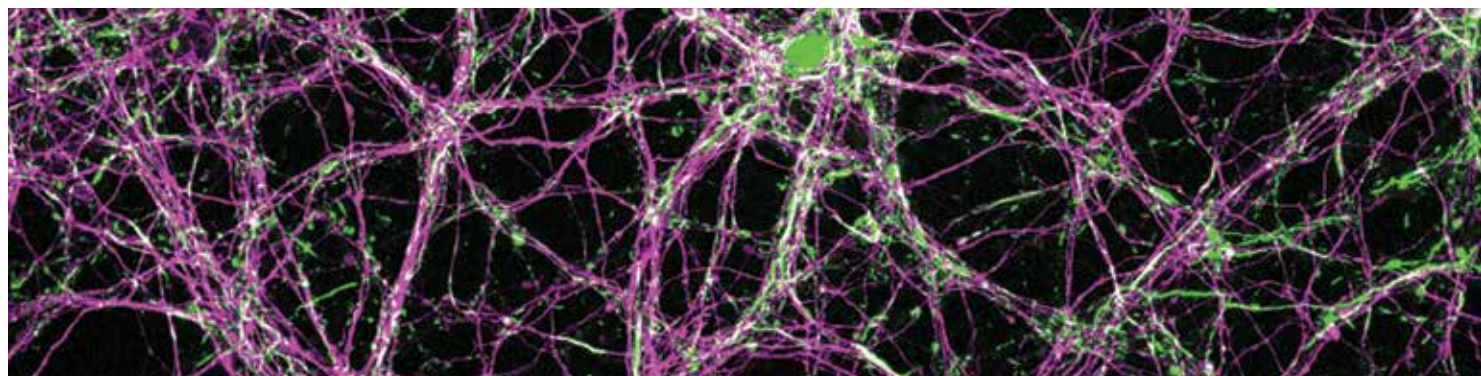
Mitochondria and Bioenergetics in

Alzheimer's Disease

Support contributed by MilliporeSigma







Room: Hillcrest CD

What initiates Alzheimer's disease histology changes in those with late-onset Alzheimer's is unclear. An association between advancing age, Alzheimer's histology changes, and Alzheimer's disease incidence suggests brain aging-related factors may play a role or even initiate the disease. Brain energy metabolism and mitochondrial function change with



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advancing age and in Alzheimer's, leading some to propose a "mitochondrial cascade hypothesis" in which bioenergetic changes are hypothesized to initiate Alzheimer's histology and clinical decline. Russell Swerdlow will discuss how this idea has evolved over past decades, its current contributions to the Alzheimer's disease field, and how it might impact future Alzheimer's research.

Rachel Wong, PhD

The Retina: A Colorful Window to the Brain

Support contributed by Thor Labs

Room: Hillcrest AB

Rachel Wong is interested in how circuits of the vertebrate retina are assembled during development and reassembled during regeneration. To this end, the Wong lab has developed and applied structural and functional approaches to investigate the mechanisms responsible for patterning retinal circuits. Comparisons across species have also helped them to identify common or separate mechanisms that generate retinal circuits with specific functions. Wong will discuss how she became fascinated by the retina and its development and how she built a program beyond her own expertise to tackle questions of interest.

SESSION 2: 9:30–10:45 A.M.

Edward Callaway, PhD

Viral Connectomics: Tracing a Monosynaptic Path With Glycoprotein-Deleted Rabies Viruses

Support contributed by MilliporeSigma

Room: Cortez Hill

Callaway's lab showed that modified rabies viruses could genetically target neurons and selectively label direct monosynaptic inputs. Subsequent efforts have built on that demonstration to label the direct inputs to genetically targeted cell types or single

neurons across the whole brain, *in vivo*. These reagents continue to be refined for neural circuit studies, allowing defined circuits to be directly linked to function through correlational and manipulative studies. Callaway will describe the development of these tools and present unpublished negative results in which his team attempted to achieve monosynaptically-restricted trans-synaptic circuit mapping through different approaches.

Patricia Janak, PhD

Getting Psych-ed for the Future of Behavioral Neuroscience

Room: Hillcrest AB

The ultimate function of the nervous system is to produce behavior. Patricia Janak will make the case that the rich history of animal behavioral research emanating from experimental psychology has been, and continues to be, invaluable for modern neuroscience. In this discussion, Janak will discuss recent studies from her lab and others that use a neural circuit dissection approach, and will suggest that a similarly sophisticated approach with respect to "behavioral dissection" is also required for a thorough understanding of neural function.

Peyman Golshani, MD, PhD

Open-Source New-Generation Miniaturized Microscopes

Room: Hillcrest CD

One of the biggest challenges in neuroscience is to understand how neural circuits process, encode, store, and retrieve information. Meeting this challenge will require methods to record the activity of intact neural networks in freely behaving animals. Peyman Golshani and colleagues develop open source next-generation wireless, multi-channel miniaturized microscopes that, when combined with genetically encoded indicators of neural activity, can image and track activity patterns

of large neural-cell populations in freely moving mice. Golshani and his colleagues have developed an online environment to share their technology with the neuroscience community to accelerate the speed of neuroscience research.

Viviana Gradinaru, PhD

Toward Intact Tissue Mapping and Phenotyping With Optogenetics, Tissue Clearing, and Viral Vector Engineering

Support contributed by MilliporeSigma

Room: Solana Beach

Viviana Gradinaru's work has focused on developing and using optogenetics and tissue clearing to dissect the circuitry underlying neurological disorders such as Parkinson's. Her group is now working to understand how perturbations of neuronal network activity can permanently impact the function and even viability of comprising neurons, and ultimately change network properties and animal behavior. The Gradinaru lab also continues to develop and disseminate enabling technologies for high content anatomical and functional mapping. The informal discussion will cover these topics while also highlighting scientific and career development challenges that Gradinaru has faced.

Hongkui Zeng, PhD

Decoding Cellular Diversity in the Brain

Support contributed by MilliporeSigma

Room: Mission Beach

In this session, Hongkui Zeng will discuss her research team's experience in developing cell type-specific mouse genetic tools; in using these tools to profile single cell properties at different levels and to determine how these properties correlate with each other; and in mapping their interconnections at both anatomical and physiological levels. Zeng will highlight the features of the Allen Institute for Brain Science's large-scale databases, which



Download the meeting mobile app for up-to-date session information

collectively provide an integrated resource to the neuroscience community to facilitate the investigation of the cellular diversity, circuit composition, and circuit function.

NEUROJOBS CAREER CENTER

Saturday, November 12–Tuesday, November 15,
8 a.m.–5 p.m.

Wednesday, November 16, 8 a.m.–3 p.m.

San Diego Convention Center: Sails Pavilion

The on-site SfN NeuroJobs Career Center connects employers with a pool of well qualified candidates seeking opportunities ranging from postdoctoral and faculty positions to neuroscience-related jobs in industry and other areas. Job seekers and employers can take advantage of interview booths and computers for posting jobs and scheduling interviews. For prices and more information on how to set up a NeuroJobs account, visit sfn.org/neurojobs. On-site payment can only be made by credit card.

■ NEUROSCIENCE DEPARTMENTS AND PROGRAMS WORKSHOP — TRAINING THE TRAINERS

Diverse Career Trajectories in Neuroscience: Helping Trainees Chart a Course for Success

9–11 a.m.

San Diego Convention Center: 30C

Organizer: Elisabeth Van Bockstaele, PhD

Panelists: Michael Friedlander, PhD; Walter Koroshetz, PhD; Edda Thiels, PhD

Contact: ndp@sfn.org

The Forum on Neuroscience and Nervous System Disorders of the National Academies of Sciences, Engineering, and Medicine held a workshop in October 2014 to discuss how best to develop the next generation of scientists to advance neuroscience. Results of this forum were summarized in an article published on June 1 in *Neuron*. In this workshop, authors of the *Neuron* paper will highlight: (1) how to best train and retain a talented work force to ensure a bright future for the field of neuroscience, and (2) strategies for preparing the next generation of neuroscience trainees with the skills and expertise necessary for diverse career opportunities.

■ Success in Academia: A Focus on Strategies for Women

9–11 a.m.

San Diego Convention Center: 31C

Organizer: Tracy Bale, PhD

Panelists: Huda Akil, PhD; Jean King, PhD; Margaret McCarthy, PhD; Catherine Woolley, PhD

Contact: mpd@sfn.org

Academia is an exciting and engaging career field but possesses special challenges that are daunting to most young scientists. As trainees and as faculty, women face unique concerns and obstacles that can be difficult to navigate. This panel of female leaders in neuroscience will share their stories, discuss their approaches to success, and offer suggestions across different stages of career development. Discussion will focus on topics specific to academic careers and success such as finding and negotiating a job, promotion and tenure, dealing with salary and space negotiations, and how to handle being the only female in the room.

Meeting Mobile App Tutorial

10–11 a.m.

San Diego Convention Center: 10

Contact: program@sfn.org

To ensure that attendees are able to take advantage of the newest features for the meeting mobile app, a free user tutorial led by the app's developers will be held. This tutorial is open to all meeting attendees.

The meeting mobile app is available in the Google Play™ App Store and on iTunes™.

■ Careers in Making Medicines: Translating Basic Research Into Pharmaceutical Development

noon–2 p.m.

San Diego Convention Center: 31C

Organizer: Fiona Randall, PhD

Panelists: Janet Clark, PhD; Meriem Gaval-Cruz, PhD; Susan Learned, PhD; Norimasa Miyamoto, PhD; Arash Rassoulpour, PhD

Contact: mpd@sfn.org

Have you ever wondered about a career outside of academia? Scientific careers in the pharmaceutical industry can offer an exciting alternative to the traditional academic career path. This workshop will outline how medicine is made in industry and will provide an overview of career opportunities within the pharmaceutical industry. Perspectives from preclinical and clinical experts will be shared, and examples of how basic and innovative biology can be turned into a drug discovery program will be showcased.

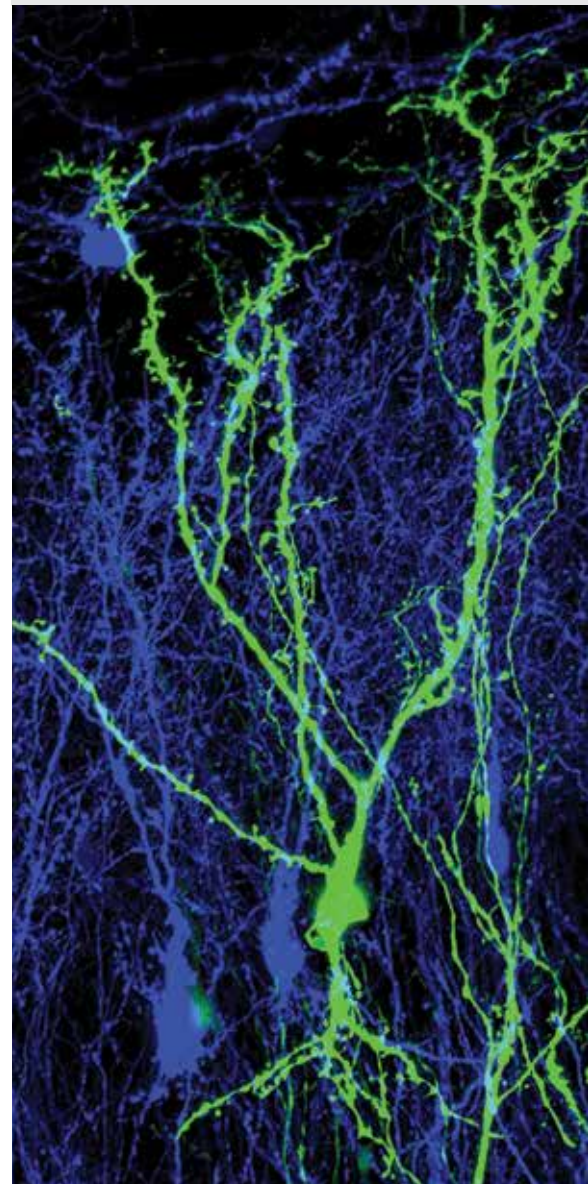
■ Creating, Sustaining, and Enhancing Undergraduate Neuroscience Programs

noon–2 p.m.

San Diego Convention Center: 30C







Individual Career Coaching with Marty Nemko

Whether you're still in school or a senior scientist looking toward retirement, career issues can abound: What should I do next? How do I get there? How do I deal with internal and external barriers? Dr. Marty Nemko has been a career and personal coach to over 5,000 people, including many people in neuroscience and related fields, both in academia and industry. During the conference, Dr. Nemko will be available for complimentary 15-minute coaching sessions via Skype to provide insight on how to achieve success in your career. For more information, contact neurojobs@sfn.org.



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Professional Development Workshop Tracks: ■ Career Paths On and Off the Bench ■ Career Skills ■ Teaching Neuroscience ■ Funding

Organizer: Janet Finlay, PhD

Panelists: Carlos Aizenman, PhD; Barbara Beltz, PhD; Ellen Carpenter, PhD; Barbara Lom, PhD; Alan Sved, PhD

Contact: mpd@sfn.org

It is an exciting time for undergraduate neuroscience education. To meet demand in this area, colleges and universities are increasingly exploring opportunities to create and enhance undergraduate neuroscience programs. Panelists representing a variety of academic institutions and neuroscience programs will briefly describe how undergraduate neuroscience education has been advanced at their institutions. This workshop is intended to be interactive, with an emphasis on creating a forum for audience and panelists to engage in discussion of mechanisms for creating and enhancing undergraduate neuroscience education.

Graduate School Fair

Organizer: Neuroscience Training Committee

Saturday, November 12, 1–3 p.m.

Sunday, November 13–Tuesday, November 15, noon–2 p.m.

San Diego Convention Center: Sails Pavilion

Contact: training@sfn.org

Meet face-to-face with student advisors, program faculty, and graduate school representatives at the Graduate School Fair.

BRAIN AWARENESS CAMPAIGN EVENT

Sharing the Magic of Brain

Awareness   

3–4:30 p.m.

San Diego Convention Center: Room 16

Contact: baw@sfn.org

Celebrate brain awareness and share your outreach achievements with Brain Awareness Week organizers from around the world. Recognize award winners from the Brain Awareness Video Contest, the Faculty for Undergraduate Neuroscience, and National

Science Olympiad. Also hear from Susana Martinez-Conde, Director of the Laboratory of Integrative Neuroscience at State University of New York, Executive Producer of the Best Illusion of the Year Contest, co-author of the book “Sleights of Mind,” and winner of the 2014 SfN Science Educator Award.

■ Biomedical Education and Career Options for Scientists (PhD) and Physician-Scientists (MD, PhD)

3–5 p.m.

San Diego Convention Center: 30C

Organizer: Lique Coolen, PhD

Panelists: Sherilynn Black, PhD; John Horn, PhD; M. Kerry O'Banion, MD, PhD; Nancy Schwartz, PhD; Gregorio Valdez, PhD

Contact: mpd@sfn.org

Participants in this session will discover the wide variety of careers open to graduates of PhD and MD-PhD programs. Although many PhDs and MD-PhDs go on to become research faculty at medical schools and universities, other career pathways are available within research institutes or the pharmaceutical industry, as well as in other science-related fields. This workshop will discuss ways to prepare for such careers.

■ NIH Funding and You: A Practical Guide to Successfully Navigating Your Research Training Career

3–5 p.m.

San Diego Convention Center: Room 31C

Organizer: Stephen Korn, PhD

Panelists: Nancy Desmond, PhD; Mimi Ghim, PhD; Chyren Hunter, PhD; Michelle Jones-London, PhD

Contact: mpd@sfn.org

This workshop will discuss factors that NIH staff have found to be important to the success of trainees in the realm of both training itself and grant writing. Funding opportunities will be discussed in the context of different issues

that arise for different funding mechanisms that contribute to successful and unsuccessful applications. Brief talks will be followed by an extensive question and answer session.

Diversity Fellows Poster Session

Support contributed by eNeuro and

The Journal of Neuroscience

6:30–8:30 p.m.

San Diego Convention Center: Hall A

Contact: nsp@sfn.org

Join a special poster session and networking event featuring participants of the Neuroscience Scholars Program, ENDURE, and other diversity fellowship programs.

International Fellows Poster Session

Support contributed by eNeuro and

The Journal of Neuroscience

6:30–8:30 p.m.

San Diego Convention Center: Hall A

Contact: globalaffairs@sfn.org

Meet the next generation of leading young investigators from the Latin American Training Program and award winners selected by the International Brain Research Organization and the Japan Neuroscience Society.

Trainee Professional Development Awards Poster Session

Support contributed by eNeuro and

The Journal of Neuroscience

6:30–8:30 p.m.

San Diego Convention Center: Hall A

Contact: awards@sfn.org

This networking event will honor award-winning posters from undergraduate and graduate students and postdoctoral fellows.

Career Development Topics: A Networking Event

7:30–9:30 p.m.

San Diego Convention Center: Hall A

Contact: mpd@sfn.org



Download the meeting mobile app for up-to-date session information

Experienced neuroscientists will offer advice on a wide range of topics in an informal, roundtable format. Topics include work-life balance, securing grants, career transitions, careers away from the bench, choosing graduate schools and postdoctoral fellow positions, etc. Participants from diverse backgrounds, fields, and work sectors are encouraged to attend.

Sunday, November 13

■ A Guide to Publishing in Journals

9–11 a.m.

San Diego Convention Center: 31C

Organizer: Ross Hildrew

Panelists: Bruno Frenguelli, PhD; Juan Lerma, PhD; Kaia Motter, PhD; Marina Picciotto, PhD

Contact: mpd@sfn.org

Journals exist to disseminate new research findings and the latest new thinking to scholarly and professional communities worldwide.

This workshop will present a rare opportunity to gain insights into journal publishing from the editors and publishers of Elsevier journals such as *Neuroscience*, *Brain Research*, *Neuropharmacology*, and *JNeurosci*. Topics will include: how to write and review a paper, new publishing initiatives, and publishing ethics.

■ Stand Up and Be Heard: Navigating Career Communications

9–11 a.m.

San Diego Convention Center: 30C

Organizer: Fiona Randall, PhD

Panelists: Janet Clark, PhD; Amicia Elliot, PhD; Mara Dierssen, MD, PhD; Paul McGonigle, PhD; Elisabeth Van Bockstaele, PhD

Contact: mpd@sfn.org

There may be times in your career when you have something to say but lack the confidence or the skill to say what you think with clarity and grace. Speaking contrary to the opinions of others, raising an innovative or controversial idea, or otherwise challenging the status quo can take a lot of courage. Difficult discussions are par for the course in your career, but good communication and negotiation skills can help you overcome a wide range of challenges. This workshop will provide insight into best practices for interpreting a job offer, asking for what you want, and bringing colleagues around to your way of thinking. The fears that often prevent people (especially women) from speaking up will also be addressed.

CHAPTERS WORKSHOP

Utilizing Chapters to Teach Innovative Science to Broad Audiences

11:30 a.m.–1 p.m.

San Diego Convention Center: 11B

Organizers: Tanea Reed, PhD; Jennifer Yates, PhD; Lisa Zuccarelli, PhD

Contact: chapters@sfn.org

The 2016 Chapters Workshop will focus on creating scientific educational opportunities for both the general public and neuroscientists, when the topic may be a new discipline. Case studies showing best practices for organizing these courses, as well as tips for teaching the public about innovative science, will be presented. Attendees will gain a clear understanding for how to build these educational experiences for their chapter members and communities-at-large.

■ Successful Career Advancement Through Networking: Is It Who You Know?

noon–1:30 p.m.

San Diego Convention Center: 31C

Organizers: Mark Baxter, PhD; Rebecca Shansky, PhD

Panelists: Michael Drew, PhD; Bitu Moghaddam, PhD; Richard Prather, PhD; Natalie Tronson, PhD

Contact: mpd@sfn.org

Networking can have a powerful effect on a scientist's career trajectory. The organizers and speakers will present tips and advice for successful networking, as well as vignettes from their own careers about where networking has been key to their success. Different venues for networking (conferences, social media, intradepartmental, etc.) will be highlighted, and discussion time will allow workshop participants to learn from each other's networking successes (and failures).

■ Path to Translation for the Inspired

noon–2:15 p.m.

San Diego Convention Center: 30C

Organizers: William Mobley, MD; Hao Wang, PhD

Panelists: Roberta Diaz Brinton, PhD; Justin Fallon, PhD; Paul Kenny, PhD; Lorenzo Leggio, MD, PhD; Qi-Ying Liu, MD; Frank Longo, MD, PhD; Suzana Petanceska, PhD; Amir Tamiz, PhD; Lois Winsky, PhD

Contact: mpd@sfn.org

The objective of this workshop is to inspire all participants who are interested in translational research, to share valuable experiences and lessons learned, and to inform about resources available for translational research. During the workshop, panelists

will begin by sharing what is key to their success in translational research from bench to bedside. Afterward, NIH staff will discuss current resources and funding opportunities available to enable translational research in areas related to neuroscience. Throughout the workshop, participation from the audience will be encouraged. NIH staff and panelists will be available at the end of the workshop for networking and additional discussions.

SOCIAL ISSUES ROUNDTABLE

Concussion: From the Players' Experience to the Future of Research

1–3 p.m.

San Diego Convention Center: 10

Organizer: Candace Floyd, PhD

Panelists: Lisa Brenner, PhD; Kevin Drake; Harvey Levin, PhD; Robert Stern, MD

Contact: advocacy@sfn.org

Mild traumatic brain injury, particularly that associated with contact sports and military service has gained public awareness as a health concern. This roundtable will explore the complex issues of concussion and multiple impacts to the brain from diagnosis to long-term consequences.

■ Meeting Expectations: NIH Review Criteria on Scientific Rigor and Reproducibility

Supported by the National Institute On Drug Abuse of the National Institutes of Health under Award Number 5R25DA041326. The content does not necessarily represent the official views of the National Institutes of Health.

3–5 p.m.

San Diego Convention Center: 31C

Organizer: Cheryl Sisk, PhD

Panelists: Anita Bandrowski, PhD; Emanuel DiCicco-Bloom, MD; Margaret McCarthy, PhD; Richard Nakamura, PhD

Contact: training@sfn.org

In January 2016, NIH introduced new review criteria concerning Scientific Rigor and Reproducibility that affect virtually all research grant applications. Applicants must now specifically address: 1) the scientific premise of the proposed research; 2) how the proposed research is designed to ensure scientific rigor and reproducibility; 3) consideration of relevant biological variables; and 4) the authentication of key biological and chemical resources. In this workshop, representatives from NIH and the scientific community will offer knowledgeable

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and practical advice to help both novice and experienced grant applicants navigate the requirements of this new policy.

■ Optimizing the Mentor-Trainee Relationship 📄 📋

3–5 p.m.

San Diego Convention Center: 30C

Organizer: Lique Coolen, PhD

Panelists: Stephen Korn, PhD; Jennifer Swann, PhD

Contact: training@sfn.org

Navigating a productive and professional relationship between mentor and mentee is not always easy. There may be times when the mentors' and mentees' training goals or needs differ significantly, and training plans need to be adjusted. This workshop will provide information and discussion for best practices in fostering a productive and professional relationship between mentor and trainee. The workshop will address issues and best practices from the perspectives of both mentor and mentee, related to all stages of training.

Monday, November 14

CLINICAL ROUNDTABLE #1

The Subcortical Source of Inflammatory Malaise CME 📄

8:30–11 a.m.

San Diego Convention Center: 11B

Organizer: Andrew H. Miller, MD

Panelists: Robert Dantzer, PhD; John D. Salamone, PhD; Michael Treadway, PhD

Contact: program@sfn.org

Data indicate that the impact of inflammation on behavior may be mediated by effects of inflammatory cytokines on ventral striatal reward circuits and mesolimbic dopamine pathways leading to anhedonia, a prominent symptom in multiple psychiatric disorders. This roundtable will explore the role of inflammation in reward in studies on laboratory animals and humans using effort-based reward paradigms, *in vivo* microdialysis and pharmacologic manipulation of dopamine and resting state and task-based neuroimaging strategies.

■ How to Present Science Using Visual Tools 📄 📋

Support contributed by AbbVie

9–11 a.m.

San Diego Convention Center: 30C

Organizer: Scott Thompson, PhD

Panelists: Frederic Bertley, PhD; Noah Hutton; Lora Likova, PhD; Karen Schloss, PhD

Contact: mpd@sfn.org

It is important to present science in a way that is visually appealing to audiences. This workshop will feature speakers with experience developing science videos, animations, graphics, and tools that engage audiences. The session will explore the significance of using compelling visuals to communicate science, and discuss available tools. Speakers will share tips on how to present science in a more visually compelling way. The workshop's goal is to inform the neuroscience community about the benefits of sharing information in a way that peaks the interest of scientists and laypersons.

■ Teaching Neuroscience With Big Data 📄

Partial support contributed by AbbVie

9–11 a.m.

San Diego Convention Center: 31C

Organizers: William Grisham, PhD; Richard Olivo, PhD

Panelists: Joshua Brumberg, PhD; Terri Gilbert, PhD;

William Gray Roncal; Linda Lanyon, PhD; Russell

Poldrack, PhD; Robert Williams, PhD

Contact: mpd@sfn.org

Neuroscience has entered the realm of big data with "neuroinformatics," the study of the brain and nervous system using massive datasets. Although many of these data collections began as closed repositories of research data, a number of them are now open for use in teaching. The workshop will introduce four examples of neuroscience "big data" collections, and demonstrate how these open datasets have been used to teach students. The collections are the Allen Brain Atlas, the Mouse Brain Library and Gene Network, the Open Connectome Project, and Open fMRI. The workshop will conclude by discussing general resources and curricula for teaching "neuroinformatics," which is a new and developing area of expertise for most faculty.

■ It's a Win-Win: Effectively Engaging Undergraduates in Research 📄 📋

noon–2 p.m.

San Diego Convention Center: 30C

Organizer: Donita Robinson, PhD

Panelists: Claudio Da Cunha, PhD; Shelly Dickinson, PhD; Rueben Gonzales, PhD; Dorothy Kozlowski, PhD;

Hewlett McFarlane, PhD; Matthew Palmatier, PhD

Contact: mpd@sfn.org



Undergraduate students can be vital to your research team. Are you integrating them effectively? Undergraduates on your team are a win-win: students get lab experience, their graduate and postdoctoral mentors learn supervisory skills, and you advance your research agenda. We'll cover topics such as recruiting the right student, engaging undergrads as researchers, setting realistic expectations, maximizing a summer student, and enhancing the undergraduate research experience using available resources.

Tuesday, November 15

CLINICAL ROUNDTABLE #2

Medications Development for Cannabis Use Disorder: CB1 Receptor Agonists, Antagonists and Signaling-Specific Inhibitors CME

8:30–11 a.m.

San Diego Convention Center: 11B

Organizer: Margaret Haney, PhD

Panelists: Jack Bergman, PhD; Zuzana Justinova, MD, PhD; Pier Vincenzo Piazza, MD, PhD

Contact: program@sfn.org

Treatment outcome for cannabis use disorder is poor and limited by a lack of efficacious medications. This symposium will discuss the latest preclinical and clinical studies testing potential treatment medications targeting the cannabinoid receptor (CB1) for the treatment of CUD. Specifically, the effects of CB1 agonists, inverse agonists, orthosteric antagonists, signaling-specific inhibitors and endocannabinoid enzyme inhibitors in models of drug discrimination, self-administration, withdrawal and reinstatement will be described.

ANIMALS IN RESEARCH PANEL

Support contributed by National Primate

Research Centers

How to Engage Institutions to Publicly Support Animal Research: A

Top-Down Approach

10 a.m.–noon

San Diego Convention Center: 10

Organizer: Mar Sanchez, PhD

Panelists: James David Jentsch, PhD; Kirk Leech; John Morrison, PhD; Carrie D. Wolinetz, PhD

Contact: advocacy@sfn.org

Worldwide, researchers are engaging the public to increase the understanding and need for animals in research. However, scientists

need research institutions to facilitate greater openness about animal research conducted on campus and to reject the fear of attracting negative attention. This panel will discuss the proven benefits of positive institutional public communication and openness, as well as strategies to engage our institutions to publicly support animal research.

Celebration of Women in Neuroscience Luncheon

noon–2 p.m.

Hilton San Diego Bayfront: Sapphire AB

Contact: cwin@sfn.org

The annual luncheon honors women leaders in neuroscience. Maria Victoria Puig, PhD will deliver a keynote address focused on navigating cultural boundaries. A roundtable group discussion on a topic related to women in neuroscience will follow. Space is limited. Registration is required. For more information, visit sfn.org/cwinrsvp.

PUBLIC ADVOCACY FORUM

Art, Music, and the Brain: How the Arts Influence Us From Youth to Maturity

3–5 p.m.

San Diego Convention Center: 10

Organizer: William Martin, PhD

Panelists: Kenneth Elpus, PhD; Ping Ho; Nina Kraus, PhD; Daniel Levitin, PhD

Contact: advocacy@sfn.org

Everyone knows that art can be profoundly moving: visual arts can influence mood and a symphony orchestra can relay emotion better than words. Recent studies in the field of neuroscience illustrate the importance of creativity across our life spans. Whether it's ballet lessons before kindergarten, band practice in college, or music therapy following a stroke, this panel will explore how and why the arts influence us so deeply and how we can use creativity to be healthier and more productive throughout our lives.

SfN Members' Business Meeting

6:45–7:30 p.m.

San Diego Convention Center: 3

Contact: info@sfn.org

Join us at the Members' Business Meeting!

Take advantage of this opportunity to share your thoughts and suggestions with the Society's leadership, learn more about SfN's latest accomplishments, and how to get involved in

SfN committees, and enjoy light refreshments while networking with your peers. The business meeting is open to all SfN members.

Graduate Student Reception

9 p.m.–midnight

Hilton San Diego Bayfront: Sapphire Ballroom

Contact: meetings@sfn.org

A reception will be held for graduate students and postdoctoral trainees. No invitation is required.

Wednesday, November 16

CLINICAL ROUNDTABLE #3

Critical Topics in Pain Mechanisms and Therapeutics CME

8:30–11 a.m.

San Diego Convention Center: 11B

Organizer: Timothy J. Brennan, MD, PhD

Panelists: A. Vania V. Apkarian, PhD; Patrick M.

Dougherty, PhD; Sinyoung Kang, MD, PhD;

Emeran A. Mayer, MD

Contact: program@sfn.org

In this roundtable, we will discuss the strengths and limitations of animal models using postoperative pain and chemotherapy-induced neuropathy as examples. Because several acute pain conditions can lead to chronic pain, neuroimaging has been used to understand the processes involved in the development of chronic pain. Because the chronic pain condition is associated with complex psychosocial comorbidities, the use of neuroimaging to understand these comorbidities in patients with chronic visceral pain will be examined.