

#### ME01. NeuroJobs Career Center

**Location:** SDCC Sails Pavilion

Time: Saturday, November 12, 2016, 8:00 AM - 5:00 PM

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 <a href="mailto:sfn.org/neurojobs">sfn.org/neurojobs</a>. Onsite payment can only be made by credit card.

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

## **Meetings and Events**

## **ME02. Meeting Mobile App Tutorial**

**Location: SDCC 10** 

Time: Saturday, November 12, 2016, 10:00 AM - 11:00 AM

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 will be available in the Google Play<sup>TM</sup> App Store and on iTunes<sup>TM</sup> in mid-October.

**Contact:** program@sfn.org

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

#### ME03. Graduate School Fair

**Location:** SDCC Sails Pavilion

Time: Saturday, November 12, 2016, 1:00 PM - 3:00 PM

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

Contact: <a href="mailto:ndp@sfn.org">ndp@sfn.org</a>

**Panelist: S. NEUROSCIENCE**; Society for Neurosci., Westeros, DC

#### **Meetings and Events**

## ME04. BRAIN AWARENESS CAMPAIGN EVENT: Sharing the Magic of Brain Awareness

**Location: SDCC 16** 

Time: Saturday, November 12, 2016, 3:00 PM - 4:30 PM

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.

Contact: <u>baw@sfn.org</u>

Panelist: S. Martinez-Conde;

Department of Ophthalmology, SUNY Downstate Medical Center, Brooklyn, NY.

## **ME05. Diversity Fellows Poster Session**

**Location:** SDCC Hall A

Time: Saturday, November 12, 2016, 6:30 PM - 8:30 PM

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

**Contact:** nsp@sfn.org

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

## **Meetings and Events**

#### **ME06.** International Fellows Poster Session

**Location:** SDCC Hall A

Time: Saturday, November 12, 2016, 6:30 PM - 8:30 PM

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.

**Contact:** globalaffairs@sfn.org

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

## ME07. Trainee Professional Development Awards Poster Session

**Location:** SDCC Hall A

Time: Saturday, November 12, 2016, 6:30 PM - 8:30 PM

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

**Contact:** awards@sfn.org

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

## **Meetings and Events**

ME08. Career Development Topics: A Networking Event

**Location:** SDCC Hall A

**Time:** Saturday, November 12, 2016, 7:30 PM - 9:30 PM

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, and many others. Participants from diverse backgrounds, fields, and work sectors are encouraged to attend.

Contact: mpd@sfn.org

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

#### **Meetings and Events**

ME09. NeuroJobs Career Center

**Location:** SDCC Sails Pavilion

Time: Sunday, November 13, 2016, 8:00 AM - 5:00 PM

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prices and more information on how to set up a NeuroJobs account, visit <u>sfn.org/neurojobs</u>. Onsite payment can only be made by credit card.

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

## **Meetings and Events**

ME10. CHAPTERS WORKSHOP: Utilizing Chapters to Teach Innovative Science to Broad Audiences

**Location: SDCC 11B** 

Time: Sunday, November 13, 2016, 11:30 AM - 1:00 PM

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.

**Contact:** chapters@sfn.org

Panelists: \*T. T. REED;

Eastern Kentucky Univ., Richmond, KY

\*L. A. ZUCCARELLI;

Salve Regina Univ., NEWPORT, RI

\*J. R. YATES;

Psychology; Neurosci., Ohio Wesleyan Univ., Delaware, OH

#### ME11. Graduate School Fair

**Location:** SDCC Sails Pavilion

**Time:** Sunday, November 13, 2016, 12:00 PM - 2:00 PM

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

**Contact:** ndp@sfn.org

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

## **Meetings and Events**

## ME12. SOCIAL ISSUES ROUNDTABLE: Concussion: From the Players' Experience to the Future of Research

**Location: SDCC 10** 

Time: Sunday, November 13, 2016, 1:00 PM - 3:00 PM

Mild traumatic brain injury, particularly that associated with contact sports and with 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.

**Contact:** advocacy@sfn.org

Panelists: R. Stern, PhD;

Boston University, Boston, MA.

L. Brenner:

US Department of Veterans Affairs, Denver, CO.

\*C. FLOYD;

Dept. of Neurobio., Univ. of Alabama-Birmingham, Birmingham, AL

K. Drake;

Drake Fitness, Birmingham, AL.

H. Levin;

Baylor College of Medicine, Houston, TX.

## ME14. CLINICAL ROUNDTABLE #1: The Subcortical Source of Inflammatory Malaise

**Location:** SDCC 11B

Time: Monday, November 14, 2016, 8:30 AM - 11:00 AM

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.

Contact: program@sfn.org

#### Panelists: R. Dantzer;

The University of Texas MD Anderson Cancer Center, Houston, TX.

## M. Treadway;

Emory Univ Sch Med, Atlanta, GA.

#### \*A. H. MILLER;

Dept Psychiat & Behav Sci., Emory Univ. Sch. Med., Atlanta, GA

#### J. D. Salamone:

Dept Psychol, University of Connecticut Department of Psychological Sciences, Storrs Mansfield, CT.

#### **Meetings and Events**

#### **ME16. NeuroJobs Career Center**

**Location:** SDCC Sails Pavilion

**Time:** Tuesday, November 15, 2016, 8:00 AM - 5:00 PM

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 <a href="sfn.org/neurojobs">sfn.org/neurojobs</a>. Onsite payment can only be made by credit card.

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

ME17. CLINICAL ROUNDTABLE #2: Medications Development for Cannabis Use Disorder: CB1 Receptor Agonists, Antagonists and Signaling-Specific Inhibitors

**Location: SDCC 11B** 

Time: Tuesday, November 15, 2016, 8:30 AM - 11:00 AM

Treatment outcome for cannabis use disorder is poor and is 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.

**Contact:** program@sfn.org

Panelists: Z. Justinova;

Preclinical Pharmacology Section, NIDA, IRP, NIH, DHHS, Baltimore, MD.

P. Piazza:

Université de Bordeaux, Bordeaux, FRANCE.

M. HANEY;

Columbia Univ. Med. Ctr., New York, NY

J. Bergman;

Psychiatry, McLean Hospital, Belmont, MA.

# ME18. ANIMALS IN RESEARCH PANEL: How to Engage Institutions to Publically Support Animal Research: A Top-Down Approach

**Location: SDCC 10** 

Time: Tuesday, November 15, 2016, 10:00 AM - 12:00 PM

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.

Contact: <a href="mailto:advocacy@sfn.org">advocacy@sfn.org</a>

Panelists: J. D. Jentsch;

Binghamton University, Binghamton, NY.

J. H. Morrison;

Neuroscience, Box 1639, Icahn School of Medicine at Mount Sinai, NEW YORK, NY.

C. Wolinetz;

National Institutes of Health, Bethesda, MD.

\*M. SANCHEZ;

Yerkes Natl. Primate Res. Ctr., Emory Univ., Atlanta, GA

K. Leech:

European Animal Research Association, London, UNITED KINGDOM.

#### ME19. Celebration of Women in Neuroscience Luncheon

Location: Hilton San Diego Bayfront: Sapphire AB

**Time:** Tuesday, November 15, 2016, 12:00 PM - 2:00 PM

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.

Contact: cwin@sfn.org

Panelist: M. V. Puig;

Barcelona Biomedical Research Park and Hospital del Mar Medical Research Institute, Barcelona, SPAIN.

## **Meetings and Events**

## ME21. PUBLIC ADVOCACY FORUM: Art, Music, and the Brain: How the Arts Influence Us from Youth to Maturity

**Location: SDCC 10** 

**Time:** Tuesday, November 15, 2016, 3:00 PM - 5:00 PM

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.

**Contact:** advocacy@sfn.org

Panelists: P. Ho;

University of California, Los Angeles, Los Angeles, DC.

\*W. J. MARTIN;

Theravance, S SAN FRAN, CA

D. Levitin;

McGill, montreal, QC, CANADA.

N. Kraus;

Northwestern Univ, EVANSTON, IL.

K. Elpus;

University of Maryland School of Music, College Park, MD.

## **Meetings and Events**

#### **ME23. Graduate Student Reception**

Location: Hilton San Diego Bayfront: Sapphire Ballroom

Time: Tuesday, November 15, 2016, 9:00 PM - 12:00 AM

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

required.

Contact: meetings@sfn.org

**Panelist: S. NEUROSCIENCE**; Society for Neurosci., Westeros, DC

## **Meetings and Events**

#### ME24. NeuroJobs Career Center

**Location:** SDCC Sails Pavilion

Time: Wednesday, November 16, 2016, 8:00 AM - 3:00 PM

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 <a href="mailto:sfn.org/neurojobs">sfn.org/neurojobs</a>. Onsite payment can only be made by credit card.

**Panelist:** S. NEUROSCIENCE; Society for Neurosci., Westeros, DC

# ME25. CLINICAL ROUNDTABLE #3: Critical Topics in Pain Mechanisms and Therapeutics

**Location: SDCC 11B** 

Time: Wednesday, November 16, 2016, 8:30 AM - 11:00 AM

In this symposium, we will understand 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.

Contact: program@sfn.org

Panelists: A. V. Apkarian;

Northwestern University Feinberg School of Medicine, Chicago, IL.

E. A. Mayer;

Dept. of Medicine, UCLA, Los Angeles, CA.

P. M. Dougherty;

Pain Medicine, University of Texas MD Anderson Cancer Center, Houston, TX.

\*T. J. BRENNAN;

Dept. of Anesthesia, Univ. of Iowa Col. of Med., Iowa City, IA

S. Kang;

Universit of Iowa Hospitals and Clinics, Iowa City, IA.

## **Professional Development Workshops**

PDW01. NEUROSCIENCE DEPARTMENTS AND PROGRAMS WORKSHOP: TRAINING THE TRAINERS: Diverse Career Trajectories in Neuroscience: Helping Trainees Chart a Course for Success

**Location: SDCC 30C** 

**Time:** Saturday, November 12, 2016, 9:00 AM - 11:00 AM

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 June 1st 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..

Contact: <a href="mailto:ndp@sfn.org">ndp@sfn.org</a>

Panelists: E. Thiels;

Department of Neurobiology, University of Pittsburgh, Pittsburgh, PA.

W. J. Koroshetz;

Office of the Director, NINDS, Bethesda, MD.

\*E. J. VAN BOCKSTAELE;

Drexel Univ. Col. Of Med., PHILADELPHIA, PA

M. Friedlander:

Virginia Tech Carilion Research Institute, Roanoke, VA.

**Professional Development Workshops** 

PDW02. Success in Academia: A Focus on Strategies for Women

**Location: SDCC 31C** 

**Time:** Saturday, November 12, 2016, 9:00 AM - 11:00 AM

Academia is an exciting and engaging career, but poses 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..

**Contact:** ndp@sfn.org

Panelists: \*T. L. BALE;

Dept Animal Biol, Univ. of Pennsylvania, Philadelphia, PA

J. A. King;

University of Massachusetts Medical School, WORCESTER, MA.

H. Akil;

University of Michigan-Ann Arbor, ANN ARBOR, MI.

C. S. Woolley;

Dept Neurobiol, Northwestern Univ, Evanston, IL.

M. M. McCarthy;

University of Maryland School of Medicine, Baltimore, MD.

## **Professional Development Workshops**

# PDW03. Careers in Making Medicines: Translating Basic Research Into Pharmaceutical Development

**Location: SDCC 31C** 

Time: Saturday, November 12, 2016, 12:00 PM - 2:00 PM

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.

Contact: mpd@sfn.org

Panelists: S. Learned;

Indivior, Inc., Richmond, VA.

J. A. Clark;

National Institute of Mental Health, Bethesda, MD.

M. Gaval-Cruz;

Coté Orphan LLC, Silver Spring, MD.

\*F. E. RANDALL;

Eisai, Inc., Andover, MA

N. Miyamoto;

EISAI Co., Ltd., TSUKUBA, JAPAN.

A. Rassoulpour;

Brains On-Line, LLC, South San Francisco, CA.

## **Professional Development Workshops**

## PDW04. Creating, Sustaining, and Enhancing Undergraduate Neuroscience Programs

**Location:** SDCC 30C

Time: Saturday, November 12, 2016, 12:00 PM - 2:00 PM

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.

**Contact:** mpd@sfn.org

Panelists: \*J. M. FINLAY;

Psychology Dept., Western Washington Univ., Bellingham, WA

B. S. Beltz;

Neuroscience Program, Wellesley College, Wellesley, MA.

A. F. Sved;

Univ Pittsburgh, Pittsburgh, PA.

C. D. Aizenman;

Dept Neurosci, Brown Univ, Providence, RI.

B. Lom;

Biology Department and Program in Neuroscience, Davidson College, DAVIDSON, NC.

E. M. Carpenter;

Dept. of Psychiatry and Biobehavioral Sciences, UCLA School Med, Los Angeles, CA.

## **Professional Development Workshops**

PDW05. Biomedical Education and Career Options for Scientists (PhD) and Physician-Scientists (MD-PhD)

**Location: SDCC 30C** 

Time: Saturday, November 12, 2016, 3:00 PM - 5:00 PM

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 in other science-related fields. This workshop will discuss ways to prepare for such careers.

Contact: mpd@sfn.org

Panelists: G. Valdez;

Virginia Tech, Blacksburg, VA.

\*L. M. COOLEN;

Physiol. & Biophysics, Univ. of Mississippi Med. Ctr., Jackson, MS

J. P. Horn;

Dept of Neurobiology, University of Pittsburgh, Pittsburgh, PA.

S. J. Black;

Dept Neurobiol, Duke University, Durham, NC.

M. O'Banion;

University of Rochester School of Medicine, Rochester, NY.

N. Schwartz:

Pediatrics, University of Chicago, Chicago, IL.

## **Professional Development Workshops**

PDW06. NIH Funding and You: A Practical Guide to Successfully Navigating Your Research Training Career

**Location: SDCC 31C** 

**Time:** Saturday, November 12, 2016, 3:00 PM - 5:00 PM

This workshop will discuss factors that NIH staff has 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.

**Contact:** mpd@sfn.org

Panelists: M. Jones-London;

National Institute of Neurological Disorders and Stroke, Bethesda, MD.

S. KORN;

NIH/NINDS, Bethesda, MD

M. M. Ghim;

National Institute on Drug Abuse, Rockville, MD.

#### C. Hunter;

National Institute of Deafness and Other Communication Disorders, Bethesda, MD.

N. Desmond;

Division of Neuroscience and Basic Behavioral Science, National Institute of Mental Health, Rockville, MD.

#### **Professional Development Workshops**

PDW07. A Guide to Publishing in Journals

**Location: SDCC 31C** 

Time: Sunday, November 13, 2016, 9:00 AM - 11:00 AM

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, and Neuropharmacology on how to write and review a paper, new publishing initiatives and publishing ethics.

**Contact:** mpd@sfn.org

Panelists: R. HILDREW;

Neuroscience, Elsevier Ltd, London, United Kingdom

J. Lerma;

Instituto de Neurociencias de Alicante CSIC-UMH, San Juan de Alicante, SPAIN.

M. Picciotto:

Dept Pyschiat, Yale Univ Sch Med, New Haven, CT.

K. Motter;

Elsevier, Cambridge, MA.

B. G. Frenguelli;

Warwick Univ, Coventry, UNITED KINGDOM.

#### **Professional Development Workshops**

#### PDW08. Stand Up and Be Heard: Navigating Career Communications

**Location: SDCC 30C** 

Time: Sunday, November 13, 2016, 9:00 AM - 11:00 AM

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.

Contact: mpd@sfn.org

## Panelists: E. J. Van Bockstaele;

Drexel University College Of Medicine, PHILADELPHIA, PA.

## J. A. Clark;

National Institute of Mental Health, Bethesda, MD.

#### \*F. E. RANDALL;

Eisai, Inc., Andover, MA

M. Dierssen;

CRG - Centre For Genomic Regulation, Barcelona, SPAIN.

#### A. Elliot;

National Institutes of Health, Bethesda, MD.

#### P. McGonigle;

Drexel University, Philadelphia, PA.

## **Professional Development Workshops**

## PDW09. Successful Career Advancement Through Networking: Is It Who You Know?

**Location:** SDCC 31C

Time: Sunday, November 13, 2016, 12:00 PM - 1:30 PM

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).

**Contact:** mpd@sfn.org

Panelists: M. R. Drew;

Center for Learning and Memory, University of Texas At Austin, Austin, TX.

\*M. G. BAXTER;

Dept Neurosci., Mount Sinai Sch. Med., New York, NY

B. Moghaddam;

Univ Pittsburgh, Pittsburgh, PA.

\*R. SHANSKY;

Behavioral Neurosci., Northeastern Univ., Boston, MA

R. W. Prather;

Human Development & Quantitative Methology, University of Maryland, College Park, MD.

Y. L. Hurd;

Dept Psych, Mount Sinai Sch Med, NEW YORK, NY.

N. C. Tronson;

Department of Psychology, University of Michigan, Ann Arbor, MI.

## **Professional Development Workshops**

## PDW10. Path to Translation for the Inspired

**Location:** SDCC 30C

Time: Sunday, November 13, 2016, 12:00 PM - 2:15 PM

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. After, 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.

Contact: mpd@sfn.org

Panelists: L. Leggio;

Intramural Research Program, Bethesda, MD.

J. R. Fallon;

Dept Neurosci, Brown Univ, PROVIDENCE, RI.

A. Tamiz;

NIH/NINDS, Bethesda, MD.

L. Refolo;

National Institute on Aging, Bethesda, MD.

R. D. Brinton;

School of Pharmacy, University of Southern California, Los Angeles, CA.

\*W. C. MOBLEY;

Dept. of Neurosciences, Univ. of California San Diego Dept. of Neurosciences, La Jolla, CA

Q. Liu;

NIAAA, Rockville, MD.

P. J. Kenny:

Department of Pharmacology and Systems Therapeutics, Icahn School of Medicine At Mount Sinai, New York, NY.

F. M. Longo;

Department of Neurology and Neurological Sciences, Stanford University Medical Center, Stanford, CA.

L. M. Winsky;

NIMH, NIH, Bethesda, MD.

\*H. WANG;

Natl. Inst. of Neurolog. Disorders and Stroke, Bethesda, MD

## **Professional Development Workshops**

PDW11. Meeting Expectations: NIH Review Criterion on Scientific Rigor and Reproducibility

**Location: SDCC 31C** 

Time: Sunday, November 13, 2016, 3:00 PM - 5:00 PM

In January 2016, the 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 and practical advice to help both novice and experienced grant applicants navigate the requirements of this new policy.

Contact: <u>training@sfn.org</u>

**Panelists:** R. Nakamura; NIMH, Bethesda, MD.

\*C. L. SISK:

Psychology & Neurosci Prgm, Michigan State Univ., EAST LANSING, MI

E. M. DiCicco-Bloom;

Dept Neurosci & Cell Biol/ Pediatrics (Neurology & Developmental Disabilities), Rutgers Robert Wood Johnson Medical School, Piscataway, NJ.

M. M. McCarthy;

University of Maryland School of Medicine, Baltimore, MD.

A. E. Bandrowski;

UCSD, La Jolla, CA.

## **Professional Development Workshops**

## PDW12. Optimizing the Mentor-Trainee Relationship

**Location: SDCC 30C** 

**Time:** Sunday, November 13, 2016, 3:00 PM - 5:00 PM

Navigating a productive and professional relationship between mentor and mentee is not always that easy. There may be times that 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 and related to all stages of training.

Contact: <a href="mailto:training@sfn.org">training@sfn.org</a>

Panelists: J. M. Swann;

Biological Sciences, Lehigh University, BETHLEHEM, PA.

S. Korn;

NIH/NINDS, Bethesda, MD.

\*L. M. COOLEN;

Physiol. & Biophysics, Univ. of Mississippi Med. Ctr., Jackson, MS

## **Professional Development Workshops**

## PDW13. How to Present Science Using Visual Tools

**Location: SDCC 30C** 

Time: Monday, November 14, 2016, 9:00 AM - 11:00 AM

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 engag eaudiences. 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 benefits of sharing information in a way that peaks the interest of scientists and laypersons

Contact: mpd@sfn.org

Panelists: K. Schloss;

Wisconsin Institute of Discovery, Madison, WI.

#### L. T. Likova;

Smith-Kettlewell Eye Research Institute, San Francisco, CA.

F. Bertley;

The Franklin Institute, Philadelphia, PA.

N. Hutton;

Wesleyan University, Middletown, CT.

\*S. M. THOMPSON;

Univ. of Maryland Baltimore, Baltimore, MD

## **Professional Development Workshops**

## PDW14. Teaching Neuroscience With Big Data

**Location: SDCC 31C** 

**Time:** Monday, November 14, 2016, 9:00 AM - 11:00 AM

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.

**Contact:** mpd@sfn.org

Panelists: J. C. Brumberg;

Dept Psychology, Queens College, Flushing, NY.

## W. Gray Roncal;

Johns Hopkins University, Baltimore, MD.

#### T. Gilbert;

Allen Institute for Brain Science, Seattle, WA.

\*W. E. GRISHAM;

Dept Psychol, UCLA, Los Angeles, CA

L. Lanyon;

INCF, Stockholm, SWEDEN.

\*R. F. OLIVO;

Biol. Sci., Smith Col., Northampton, MA

#### R. W. Williams;

Dept of Anatomy and Neurobiology, University of Tennessee Health Science Center, Memphis, TN.

#### R. A. Poldrak;

Stanford University, Stanford, CA.

## **Professional Development Workshops**

PDW15. It's a Win-Win: Effectively Engaging Undergraduates in Research

**Location:** SDCC 30C

Time: Monday, November 14, 2016, 12:00 PM - 2:00 PM

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 available resources to enhance the undergraduate research experience.

Contact: mpd@sfn.org

Panelists: \*D. L. ROBINSON;

Bowles Ctr. for Alcohol Studies, Univ. of North Carolina at Chapel Hill, Chapel Hill, NC

R. A. Gonzales;

Pharmacology, University of Texas, AUSTIN, TX.

S. D. Dickinson;

Psychology and Neuroscience Program, St. Olaf College, Northfield, MN.

## C. Da Cunha;

Pharmacology, Universidade Federal do Paraná, Curitiba, BRAZIL.

D. A. Kozlowski;

Biology, DePaul University, CHICAGO, IL.

M. I. Palmatier;

East Tennessee State University, Johnson City, TN.

H. G. McFarlane;

Neuroscience and Psychology, Kenyon College, Gambier, OH.

# SPC01. NEUROBIOLOGY OF DISEASE WORKSHOP: From Pediatric Encephalopathy to Alzheimer's: Linking Mitochondria to Neurological Diseases

**Location: SDCC 6A** 

Time: Friday, November 11, 2016, 8:00 AM - 5:00 PM

Neurobiology of Disease Workshop fees.....\$40

(Includes breakfast, lunch, and reception)

Mitochondria are essential organelles that perform hundreds of biochemical reactions essential for processes beyond the generation of ATP. The last decade has seen an explosion in our understanding of the cell biology of mitochondria, which has provided a renewed understanding of their contribution to neurological diseases. This symposium and workshop session aims to both inform and engage participants in the emerging strategies that will provide a better understanding of the role of mitochondrial dysfunction in disease. The morning sessions will outline recent discoveries in 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. In each case, participants will be given an overview of the field and discuss how these aspects of mitochondrial biology are altered in disease, including pediatric encephalomyopathies, Alzheimer's, ALS, Parkinson's, Huntington's, and others. Breakout sessions will focus on identifying common themes, the challenges we face, and potential therapeutic directions in the search for treatments.

Contact: training@sfn.org

Panelists: H. MCBRIDE:

McGill University, Montreal Neurolog. Inst., Montreal, QC, Canada

\*G. MANFREDI;

Weill Med. Col. Cornell Univ., New York, NY

#### **SfN Pre-Conference Sessions**

SPC02. SHORT COURSE #2: Data Science and Data Skills for Neuroscientists

**Location: SDCC 6C** 

Time: Friday, November 11, 2016, 8:00 AM - 6:00 PM

Workshop Fees

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

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.

## **Prerequisite**

This course will be tutorial-based requiring the use of technical computing software. Participating without at least some exposure to technical computing software will be difficult. Teaching assistants will be on hand throughout the day to assist course attendees with the tutorials.

Note: Preregistration is required for all Short Courses. Visit SfN.org to register.

**Contact:** <u>training@sfn.org</u>

**Panelists:** A. FLETCHER; UCLA, Los Angeles, CA

\*K. P. KORDING;

Physiol& PMnR, Northwestern Univ., Chicago, IL

#### **SfN Pre-Conference Sessions**

SPC03. SHORT COURSE #1: Using Single-Cell Genomics to Analyze Neurons, Glia, and Circuits

**Location: SDCC 6B** 

**Time:** Friday, November 11, 2016, 8:30 AM - 6:00 PM

**Workshop Fees** 

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

Many classical approaches in neuroscience, such as electrophysiology, are inherently single-cell in resolution. Until recently, approaches that sought to measure large numbers of analytes – for example, the sequence or expression of all of the genes in a cell's genome – could not be performed on large numbers of individual cells. 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.

The goal of this day-long course will be to enable neuroscientists across many 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. Morning lectures will cover emerging technologies and their recent uses to address earlier questions in neurobiology. Afternoon discussions will focus on computational data analysis and new research questions and opportunities.

Note: Preregistration is required for all Short Courses. Visit SfN.org to register.

Contact: <u>training@sfn.org</u>

Panelist: S. MCCARROLL; Harvard Med. Sch., Boston, MA

#### **SfN Pre-Conference Sessions**

## SPC04. SHORT COURSE #3: Record Keeping and Data Management for High-Quality Science

**Location:** SDCC 11B

Time: Friday, November 11, 2016, 1:00 PM - 5:30 PM

## Workshop Fees

Short Course 3

(Includes electronic syllabus)

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

Proper record keeping and data management are critical for the work we do as scientists. 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 discussion opportunities to allow ample time for the examination of case studies.

Note: Preregistration is required for all Short Courses. Visit SfN.org to register.

Contact: <u>training@sfn.org</u>

Panelists: \*R. NISHI;

Dept Anat. & Neurobio., Univ. of Vermont, BURLINGTON, VT

\*S. KASTNER:

Ctr. for Stdy of Brain, Mind & Behav, Dept Psychol, Princeton, NJ

\*H. O. DE LA IGLESIA;

Biol., Univ. of Washington, Seattle, WA

K. BROSE;

Cell Press, Cambridge, MA

\*M. A. BASSO;

Psychiatry and Biobehavioral Sci. and Neurobio., UCLA, Los Angeles, CA

## **SfN Pre-Conference Sessions**

SPC05. Meet-the-Clinician-Expert: Dennis Choi - Chasing Translation

Location: Manchester Grand Hyatt San Diego: Cortez Hill

Time: Saturday, November 12, 2016, 8:00 AM - 9:15 AM

At this year's inaugural Meet-the-Clinician-Expert session, 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.

No registration is required for this event, but seating is limited. Continental breakfast will be provided.

Contact: program@sfn.org

Panelist: D. C. Choi;

Stony Brook University School of Medicine, Stony Brook, NY.

#### **SfN Pre-Conference Sessions**

SPC06A. Meet-the-Expert, Session 1: Michael Goldberg - Single-Unit Recording in Awake Monkeys: Studying the Physiology of Cognition

Location: Manchester Grand Hyatt San Diego: Solana Beach

**Time:** Saturday, November 12, 2016, 8:00 AM - 9:15 AM

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.

#### Panelist: M. E. Goldberg;

Columbia University, NEW YORK, NY.

#### **SfN Pre-Conference Sessions**

SPC06B. Meet-the-Expert, Session 1: Rachel Wong - The Retina: A Colorful Window to the Brain

Location: Manchester Grand Hyatt San Diego: Hillcrest AB

Time: Saturday, November 12, 2016, 8:00 AM - 9:15 AM

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 has 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.

Panelist: R. Wong;

Dept Biol Structure, Univ Washington, Seattle, WA.

#### **SfN Pre-Conference Sessions**

## SPC06C. Meet-the-Expert, Session 1: Ricardo Araneda - Following the Scents of Discovery

Location: Manchester Grand Hyatt San Diego: Mission Beach

Time: Saturday, November 12, 2016, 8:00 AM - 9:15 AM

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 number 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.

## Panelist: R. C. Araneda;

University of Maryland, College Park, MD.

## SPC06D. Meet-the-Expert, Session 1: Russell Swerdlow - Mitochondia and Bioenergetics in Alzheimer's Disease

Location: Manchester Grand Hyatt San Diego: Hillcrest CD

Time: Saturday, November 12, 2016, 8:00 AM - 9:15 AM

What initiates Alzheimer's disease ) histology changes in those with late-onset Alzheimer's s 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 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.

**Panelist:** R. H. Swerdlow;

Dept Neurol, Univ. Kansas Sch Med., KANSAS CITY, KS.

#### SfN Pre-Conference Sessions

# SPC07A. Meet-the-Expert, Session 2: Edward Callaway - Viral Connectomics: Tracing a Monosynaptic Path With Glycoprotein-Deleted Rabies Viruses

Location: Manchester Grand Hyatt San Diego: Cortez Hill

Time: Saturday, November 12, 2016, 9:30 AM - 10:45 AM

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.

Panelist: E. M. Callaway;

SNL/C, Salk Inst Biolog Studies, La Jolla, CA.

## SPC07B. Meet-the-Expert, Session 2: Hongkui Zeng - Decoding Cellular Diversity in the Brain

**Location:** Manchester Grand Hyatt San Diego: Mission Beach

Time: Saturday, November 12, 2016, 9:30 AM - 10:45 AM

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

## Panelist: H. Zeng;

Allen Inst For Brain Science, SEATTLE, WA.

#### SfN Pre-Conference Sessions

## SPC07C. Meet-the-Expert, Session 2: Patricia Janak - Getting Psych-ed for the Future of Behavioral Neuroscience

**Location:** Manchester Grand Hyatt San Diego: Hillcrest AB

**Time:** Saturday, November 12, 2016, 9:30 AM - 10:45 AM

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.

#### Panelist: P. H. Janak;

Dept. of Psychological and Brain Sciences, The Solomon H. Snyder Dept. of Neuroscience, Johns Hopkins University, Baltimore, MD.

# SPC07D. Meet-the-Expert, Session 2: Peyman Golshani - Open-Source New-Generation Miniaturized Microscopes

Location: Manchester Grand Hyatt San Diego: Hillcrest CD

Time: Saturday, November 12, 2016, 9:30 AM - 10:45 AM

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.

Panelist: P. Golshani;

UCLA Department of Neurology, Los Angeles, CA.

#### **SfN Pre-Conference Sessions**

SPC07E. Meet-the-Expert, Session 2: Viviana Gradinaru - Toward Intact Tissue Mapping and Phenotyping With Optogenetics, Tissue Clearing, and Viral Vector Engineering

Location: Manchester Grand Hyatt San Diego: Solana Beach

Time: Saturday, November 12, 2016, 9:30 AM - 10:45 AM

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.

**Panelist:** V. Gradinaru;

Biology and Biological Engineering, CALTECH, Pasadena, CA.