

Program at a Glance

GENERAL INFORMATION PROGRAM | WWW.SFN.ORG/AM2019

Friday, Oct. 18

SHORT COURSE #2 (p.32)

8 a.m.–6 p.m.
Quantifying Behavior as a Lens Into the Brain
Organizers: Robert S. Datta, MD, PhD; Mala Murthy, PhD

SHORT COURSE #1 (p.32)

8:30 a.m.–6 p.m.
Neural Prosthetics and Brain Machine Interfaces
Organizers: Adrienne L. Fairhall, PhD; Charles Liu, MD, PhD

SHORT COURSE #3 (p.32)

1–5:30 p.m.
Cultivating Professionalism and Excellence in the Research Landscape
Organizers: Carlos Aizenman, PhD; Janet Clark, PhD; Marguerite Matthews, PhD; Rosalind A. Segal, MD, PhD; and Keith Trujillo, PhD

Saturday, Oct. 19

MEET-THE-EXPERT SERIES (p.32)

8–9:15 a.m.

Session 1

8 a.m.–5 p.m. NeuroJobs Career Center (p.36)

PROFESSIONAL DEVELOPMENT WORKSHOP (p.38)

9–11 a.m.
Preparing for Your Career Away From the Bench:
Essential Skills for Navigating Your Career Transition
Organizer: Annette Gray, PhD

PROFESSIONAL DEVELOPMENT WORKSHOP (p.38)

9–11 a.m.
Reproducibility for Everyone
Organizer: Aparna Shah, PhD

MEET-THE-EXPERT SERIES (p.33)

9:30–10:45 a.m.

Session 2

11 a.m.–1 p.m.
**DIALOGUES BETWEEN
NEUROSCIENCE AND SOCIETY (p.14)**
Speaker: Fei-Fei Li, PhD

PROFESSIONAL DEVELOPMENT WORKSHOP (p.38)

Noon–2 p.m.
Imposter Syndrome: Confronting the Career
Development Monster Hiding Under the Bed
Organizers: Ericka Boone, PhD; Marguerite Matthews, PhD; Sadye Paez, PhD

PROFESSIONAL DEVELOPMENT WORKSHOP (p.38)

Noon–2 p.m.
Integrating Research and Teaching at
Primarily Undergraduate Institutions
Organizer: Joyce Fernandes, PhD

1–3 p.m. Graduate School Fair (p.36)

1–5 p.m. Posters/Nanosymposia

1:30–4 p.m. Symposia/Minisymposia **CME** (p.22)

2–3:10 p.m.
SPECIAL LECTURE CME (p.18)
Neuronal Activity-Dependent Myelination:
A Mechanism for Learning and Repair?
Speaker: Ragnhildur T. Karadottir, PhD

BRAIN AWARENESS CAMPAIGN EVENT (p.36)

2:30–4 p.m.
Illuminating the Path With Science Outreach
Organizer: Teodora Stoica

PROFESSIONAL DEVELOPMENT WORKSHOP (p.38)

3–5 p.m.
Getting Creative with Course-Based Research Experiences
to Enhance Scholarship and Generate Publishable Data
Organizers: Lina Dahlberg, PhD; Jacqueline Rose, PhD

PROFESSIONAL DEVELOPMENT WORKSHOP (p.38)

3–5 p.m.
How to Thrive as a Woman in Neuroscience
Organizer: Melissa Harrington, PhD

PRESIDENTIAL SPECIAL LECTURE CME (p.14)

5:15–6:30 p.m.
From Base Pairs to Bedside: Antisense Modulators
of RNA Splicing to Treat Neurological Diseases
Speaker: Adrian R. Krainer, PhD

6:30–8:30 p.m. Diversity Poster Session (p.36)

6:30–8:30 p.m. International Fellows Poster Session (p.36)

6:30–8:30 p.m. Trainee Professional Development Awards Poster Session (p.36)

7:30–9:30 p.m. Career Development Topics: A Networking Event (p.36)

Sunday, Oct. 20

8 a.m.–noon Posters/Nanosymposia

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| 8 a.m.–5 p.m. | NeuroJobs Career Center (p.36) |
| 8:30–11 a.m. | Symposia/Minisymposia CME (p.22) |
| 9–10:10 a.m. | SPECIAL LECTURE CME (p.21) Theoretical Neuroscience: Decision Making and Its Discontents Speaker: Peter Dayan, PhD |
| 9–11 a.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.38) Bringing Genetic Diversity to Neuroscientific Research Organizer: Elissa Chesler, PhD |
| 9–11 a.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.39) 50 Navigating Team Science Organizers: Lique Coolen, PhD; Chiara Manzini, PhD |
| 9:30 a.m.–5 p.m. | Exhibits (p.90) |
| 10:30–11:40 a.m. | SPECIAL LECTURE CLINICAL NEUROSCIENCE LECTURE CME (p.20) From Pecking Order to Ketamine: Neural Mechanisms of Social and Emotional Behaviors Speaker: Hailan Hu, PhD |
| Noon–1:10 p.m. | SPECIAL LECTURE CME (p.20) The Brain From Inside Out Speaker: Gyorgy Buzsaki, MD, PhD |
| Noon–2 p.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.39) Becoming a Resilient Scientist Organizer: Janet Clark, PhD |
| Noon–2 p.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.39) Science Management Organizer: Tanya Brown, PhD |
| Noon–2 p.m. | Graduate School Fair (p.36) |
| 1–3 p.m. | SOCIAL ISSUES ROUNDTABLE (p.36) Human Fusions: Ethical and Social Issues Raised by Neural-Digital Interfaces Organizer: Dustin J. Tyler, PhD |

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| 1–5 p.m. | Posters/Nanosymposia |
| 1:30–2:40 p.m. | SPECIAL LECTURE CME (p.19) Comparative Neurobiology of Vocal Communication Speaker: Michael A. Long, PhD |
| 1:30–4 p.m. | STORYTELLING SESSION (p.30) 50 The Storytelling Brain: How Neuroscience Stories Help Bridge the Gap Between Research and Society Chair: Susana Martinez-Conde, PhD |
| 1:30–4 p.m. | Symposia/Minisymposia CME (p.22) |
| 2:30–5 p.m. | NEUROSCIENCE DEPARTMENT AND PROGRAMS WORKSHOP (p.39) 50 Hiring and Promoting Faculty in the Era of Team Science Organizer: Rosalind Segal, MD, PhD |
| 3–4:10 p.m. | PETER AND PATRICIA GRUBER LECTURE (p.14) Molecular Basis of the Circadian Clock in Mammals and Its Fundamental Role in Aging and Longevity Speaker: Joseph S. Takahashi, PhD |
| 3–5 p.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.39) Building a Neuroscience Career at a Teaching Focused Institution Organizer: Melissa Harrington, PhD |
| 5:15–6:30 p.m. | PRESIDENTIAL SPECIAL LECTURE CME (p.15) Understanding Cortical Development and Disease: From Embryos to Brain Organoids Speaker: Paola Arlotta, PhD |
| 6:45–8:45 p.m. | SfN-Sponsored Socials (p.41) |
| Monday, Oct. 21 | |
| 8 a.m.–noon | Posters/Nanosymposia |
| 8 a.m.–5 p.m. | NeuroJobs Career Center (p.36) |
| 8:30–11 a.m. | BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLE CME (p.30) Mechanisms of Drug Addiction: A Translational Perspective Organizer: Trevor W. Robbins, PhD |

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| 8:30–11 a.m. | Symposia/Minisymposia CME (p.22) |
| 9–10:10 a.m. | HISTORY OF NEUROSCIENCE LECTURE (p.15) 50 Exocytosis of Synaptic Vesicles: From Quantal Release to Molecular Machines Speaker: Reinhard Jahn, PhD |
| 9–11 a.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.39) Advancing Your Career Through Effective Science Writing for the Public and Creating Eye-Catching Research Statements Organizer: Eduardo Rosa-Molinar, PhD |
| 9–11 a.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.40) The Art of Building a Career Organizer: Martha Davila-Garcia, PhD |
| 9:30 a.m.–5 p.m. | Exhibits (p.90) |
| 10:30–11:40 a.m. | SPECIAL LECTURE CME (p.19) Neural Mechanisms of Short-Term Memory and Motor Planning Speaker: Karel Svoboda, PhD |
| Noon–1:10 p.m. | SPECIAL LECTURE CME (p.19) Active Touch, Pain, and Anesthesia Speaker: Fan Wang, PhD |
| Noon–2 p.m. | Graduate School Fair (p.36) |
| Noon–2 p.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.40) Optimize Your Grant Application: News You Can Use From the NIH Organizer: Bruce Reed, PhD |
| Noon–2 p.m. | PROFESSIONAL DEVELOPMENT WORKSHOP (p.40) Teaching Computation in Neuroscience Organizers: William Grisham, PhD; Richard Olivo, PhD |
| 1–2 p.m. | DUAL PERSPECTIVES (p.30) 50 Does Adult Neurogenesis Occur in the Human Brain? |
| 1–3 p.m. | ANIMALS IN RESEARCH PANEL (p.37) 50 Treatments for Disorders of the Basal Ganglia and the Development of Deep Brain Stimulation: Translation of Non-Human Primate Research Into Clinical Therapeutics Organizer: Peter Strick, PhD |

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| 1–5 p.m. | Posters/Nanosymposia |
| 1:30–4 p.m. | Symposia/Minisymposia CME (p.22) |
| 3:15–4:25 p.m. | ALBERT AND ELLEN GRASS LECTURE CME (p.15) Neural Learning Rules in the Cerebellum Speaker: Jennifer L. Raymond, PhD |
| 5:15–6:30 p.m. | PRESIDENTIAL SPECIAL LECTURE CME (p.15) The Cell Biology of the Synapse and Behavior Speaker: Daniel A. Colón-Ramos, PhD |
| 6:45–8:45 p.m. | CHAPTERS WORKSHOP (p.37) Fostering Chapter Engagement Through Your Local Brain Bee Organizer: Jennifer R. Yates, PhD |
| 6:45–8:45 p.m. | SfN-Sponsored Socials (p.41) |
| Tuesday, Oct. 22 | |
| 8 a.m.–noon | Posters/Nanosymposia |
| 8 a.m.–5 p.m. | NeuroJobs Career Center (p.36) |
| 8:30–11 a.m. | BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLE CME (p.30) Exoskeletons and Robotics for Neurorehabilitation Organizer: Ann M. Spungen, EdD |
| 8:30–11 a.m. | Symposia/Minisymposia CME (p.22) |
| 9–10:10 a.m. | SPECIAL LECTURE CME (p.19) Flies and Alcohol: An Interplay of Nature and Nurture Speaker: Ulrike Heberlein, PhD |
| 9:30 a.m.–5 p.m. | Exhibits (p.90) |
| 10:30–11:40 a.m. | SPECIAL LECTURE CME (p.18) Molecular Mechanisms Underlying Activity-Dependent Neural Circuit Development and Plasticity Speaker: Xiang Yu, PhD |

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| Noon–1:10 p.m. | SPECIAL LECTURE CME (p.18) Leveraging Brain Rhythms as a Therapeutic Intervention for Neurodegenerative Diseases Speaker: Li-Huei Tsai, PhD |
| Noon–2 p.m. | A Celebration of Women in Neuroscience Luncheon (p.37) 50 |
| Noon–2 p.m. | Graduate School Fair (p.36) |
| 1–5 p.m. | Posters/Nanosymposia |
| 1:30–2:40 p.m. | SPECIAL LECTURE CME (p.20) Evolution and Dissolution of Memories Over Time Speaker: Eleanor A. Maguire, PhD |
| 1:30–4 p.m. | Symposia/Minisymposia CME (p.22) |
| 2–3:30 p.m. | PUBLIC ADVOCACY FORUM (p.37) The Role of Pharmaceutical Partnerships When Advocating for Basic Research Organizer: Moses V. Chao, PhD |
| 3–4:10 p.m. | DAVID KOPF LECTURE ON NEUROETHICS (p.16) The Neuroethics Frontier Speaker: Nita Farahany, JD, PhD |
| 5:15–6:30 p.m. | PRESIDENTIAL SPECIAL LECTURE CME (p.16) Wavefront Engineering: Illuminating the Neural Landscape Valentina Emiliani, PhD |
| 6:45–7:30 p.m. | SfN Members' Business Meeting (p.37) |
| 6:45–8:45 p.m. | SfN-Sponsored Socials (p.41) |
| 8:30–11:30 p.m. | Graduate Student Reception (p.37) |
| Wednesday, Oct. 23 | |
| 8 a.m.–noon | Posters/Nanosymposia |
| 8 a.m.–3 p.m. | NeuroJobs Career Center (p.36) |

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| 8:30–11 a.m. | Symposia/Minisymposia CME (p.22) |
| 8:30–11 a.m. | BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLE CME (p.30) Gene Therapy in Neurological Diseases Organizer: Asa Abeliovich, MD, PhD |
| 9:30 a.m.–5 p.m. | Exhibits (p.90) |
| 10:30–11:40 a.m. | SPECIAL LECTURE CME (p.18) Aberrant Phase Separation in Neurodegenerative Disease Speaker: Anthony A. Hyman, PhD |
| Noon–1:10 p.m. | SPECIAL LECTURE CME (p.21) Extracting Function From Structure: Lessons From the Fly Connectome Speaker: Gerald M. Rubin, PhD |
| 1–5 p.m. | Posters/Nanosymposia |
| 1:30–2:40 p.m. | SPECIAL LECTURE CME (p.21) Neural Codes for Natural Behaviors in Flying Bats Speaker: Nachum Ulanovsky, PhD |
| 1:30–4 p.m. | Symposia/Minisymposia CME (p.22) |
| 3–4:10 p.m. | SPECIAL LECTURE CME (p.20) The Neurobiology of Long-Term Memory: Key Molecules, Diverse Cell Types, Temporal Dynamics, and Critical Periods Speaker: Cristina M. Alberini, PhD |