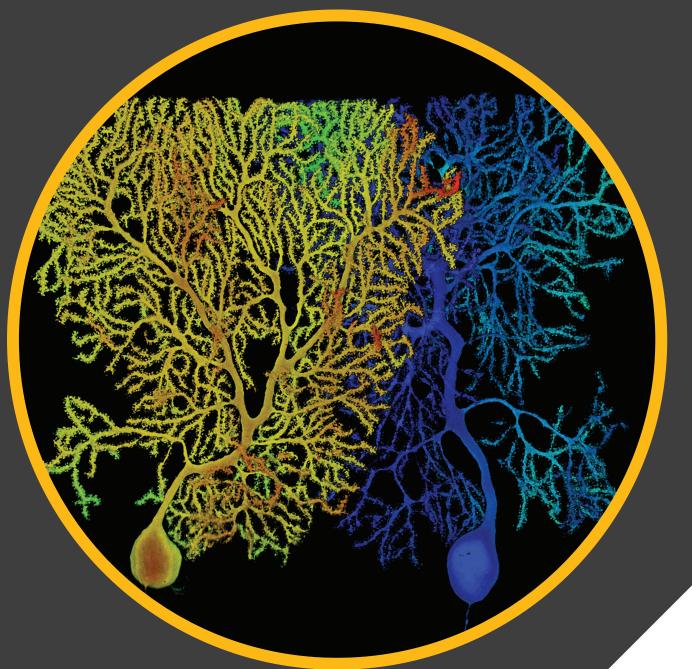
GENERAL INFORMATION

Program

SAN DIEGO | NOVEMBER 3-7







Don't forget to set your clock back one hour before going to bed.





Information at a Glance

Important Phone Numbers

Annual Meeting Headquarters Office

Logistics and Programming

San Diego Convention Center: Sails Pavilion Logistics: (619) 525-6200 Programming: (619) 525-6205

Volunteer Leadership Lounge

San Diego Convention Center: Room 14A (619) 525-6235

Annual Meeting Information Booths

San Diego Convention Center

Lobby A: (619) 525-6224 Lobby D: (619) 525-6225 Sails Pavilion: (619) 525-6226

Press Office

San Diego Convention Center: Room 15B (619) 525-6230

Exhibit Management

San Diego Convention Center: Lobby D (619) 525-6240

First Aid and Hospital Numbers

First Aid Room

San Diego Convention Center: Lobby C (619) 525-6211

Scripps Mercy Hospital

4077 Fifth Avenue San Diego, CA 92103 (619) 294-8111

Sharp Rees – Stealy Downtown San Diego Urgent Care

300 Fir Street San Diego, CA 92101 (858) 499-2600

Key to Poster Floor by Themes

The poster floor begins with Theme A in Hall H and ends with Theme J in Hall B. Refer to the poster floor map at the end of this booklet.

Theme

ADevelopment

B.....Neural Excitability, Synapses, and Glia

C.....Neurodegenerative Disorders and Injury

D.....Sensory Systems

EMotor Systems

F.....Integrative Physiology and Behavior

G.....Motivation and Emotion

H.....Cognition

I......Techniques

J......History and Education

NOTE: Theme J Posters will be on display in Hall B beginning at 1 p.m. on Saturday, Nov. 3, and will remain posted until 5 p.m., Sunday, Nov. 4. One-hour presentations will occur either Saturday afternoon or Sunday morning.

Information in the General Information *Program* is current as of September 19, 2018. See SfN.org for the most up-to-date annual meeting information.

Code of Conduct at SfN Events

SfN is committed to supporting discovery and scientific dialogue, and to fostering a welcoming community in which all scientists are able to contribute fully. The Society asserts that sexual harassment and other harassing behaviors have no place in a healthy scientific enterprise. We expect all attendees, media, speakers, volunteers, organizers, venue staff, guests, and exhibitors at SfN-organized events to help us ensure a safe and positive

environment. At the convention center, onsite medical and security personnel are available directly or through the SfN headquarters office.

If attendees experience unwelcome or unsafe situations anywhere in the city, attendees should swiftly contact local authorities (dial 9-1-1), and additional local social services resources are listed in one convenient location at the federal website www.changingourcampus.org. Any official report of sexual harassment

should be brought to the designated Human Resources Officer in the SfN headquarters office at each meeting convention center, or sent via email to hrofficer@sfn.org. The HR Officer will facilitate the completion of a report by a complainant.

For more information on SfN's policy, please go to: sfn.org/Membership/ Professional-Conduct/Code-of-Conductat-SfN-Events

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President's Letter

Welcome to the Society for Neuroscience's 48th Annual Meeting. I am pleased to be here in San Diego with some of the most enterprising minds from around the world, across the field, and at all stages of their scientific careers.

As neuroscientists, our enthusiasm for the field may have developed from any number of factors. Perhaps it was a natural curiosity about what makes us who we are, sparked by a teacher or mentor, or perhaps our motivation grew from a desire to help a loved one struggling with a neurological or psychiatric condition.

Whatever it is that drives us to understand the brain and the nervous system, it is imperative that we remember the reward of scientific discovery, the value of collaboration, and our capacity to innovate together. As neuroscientists throughout the world increasingly form initiatives to trace neural connections, develop neuroimaging techniques, categorize

brain cell types, and more, we are revolutionizing how we look at, measure, and manipulate brain activity. This accelerates our ability as a field to make scientific progress.

As you explore the vast array of scientific sessions, workshops, and other events at Neuroscience 2018, I encourage you to bring the passion that you have for your work to every interaction that you have at the meeting, from seeking feedback on your research to building your professional network. The connections you make at the meeting will strengthen your research, the field, and the global neuroscience community.

Sincerely, Ruhard 2 Hugarin

> Richard L. Huganir, PhD President, Society for Neuroscience



Richard L. Huganir, PhD SfN President

Welcome to Neuroscience 2018

Plan Your Neuroscience 2018 Experience

Keep the Neuroscience 2018 Program at your fingertips with these tools for navigating the meeting and building your personal itinerary:

- Neuroscience Meeting Planner (NMP), available at the convention center's NMP Viewing Area in the Sails Pavilion or via SfN.org/NMP. Search abstracts, download curated itineraries, and customize your schedule.
- Neuroscience 2018 Mobile App, available from the iTunes or Google Play app stores. Sync your NMPcreated itinerary with the mobile app by logging in to both resources with your SfN username and password. Browse sessions, view maps of the convention center and hotels, search exhibitors, take notes, and more!
- Curated Itineraries, available through the NMP or mobile app. Plan your experience around a specific research area, with relevant sessions and events selected by SfN's Program Committee.

Providing electronic alternatives for navigating *Program* content is just one of the ways in which the Society upholds its commitment to fulfill its mission in a socially, economically, and environmentally responsible fashion. Printed copies of the *Exhibit Guide* and this general information *Program* book continue to be available free of charge, and a limited number of daily books are available for purchase on-site. Visit the *Program* and *Exhibit Guide* Pick-Up counter for details.

New for 2018

- Dual Perspectives: Learn about the history, research, and multiple viewpoints surrounding a hot topic in the field at the new Dual Perspectives session (pg. 32). This year's session on gamma oscillations will take place Monday, November 5, from 1 to 2 p.m.
- Telling Stories of Science: Discover how storytelling can transform science communication and promote scientific progress. Hear three powerful personal stories and learn why and how to tell your own stories at this minisymposium (pg. 31) taking place Sunday, November 4, from 1:30 to 4 p.m.
- Expanded Programming: Take advantage of an enhanced variety of subject matter represented at this year's meeting. Expanded sessions including the popular Meet-the-Expert Series, Meet-the-Clinician-Expert sessions, and Basic-Translational-Clinical Roundtables will feature even more hot topics and presentations from leaders in the field.

Don't Miss Dynamic Posters

Stop by Halls B-H to check out this year's 135 interactive multimedia poster presentations — use the NMP or mobile app to add these to your schedule.

Stay Up to Date on Social Media

Keep up with the latest at Neuroscience 2018 by liking the Society for Neuroscience on Facebook, following @SfNtweets and @Neurosci2018 on Twitter, and connecting with us on Instagram at @societyforneuroscience. Share your annual meeting experience using our hashtag #SfN18.

Daylight Savings Time Ends Sunday, Nov. 4

San Diego, CA, is in the Pacific Time Zone. The state of California participates in Daylight Savings Time. Daylight Savings Time will end at 2 a.m. PDT on Sunday, November 4th. At this time, you will have to set your clock back one hour. Please plan accordingly.

See You in Chicago!

Mark your calendars for Neuroscience 2019, October 19–23 in Chicago, IL.



Annual Meeting Contributors

The Society for Neuroscience would like to recognize the generous contributions from the following annual meeting program contributors and advertisers:



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- · Graduate Student Reception



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- Peter and Patricia Gruber Lecture



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- Graduate Student Reception



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National Institute of Neurological Disorders and Stroke

- Neurobiology of Disease Workshop
- Neuroscience Scholars Program



Causes | Preventions | Treatments | Cures

National Primate Research Centers

• Animals in Research Panel

The Society for Neuroscience gratefully acknowledges the generous support of its Sustaining Associate Members:

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• Jacob P. Waletzky Award

The Society for Neuroscience (SfN) gratefully acknowledges the generous contributions made in the past year in memory of the following individuals through the

Friends of SfN Fund

Donations to the Friends of SfN Fund support the Society's mission of advancing the understanding of the brain and nervous system.

Visit SfN.org/donate to give or contact development@sfn.org to learn more.



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<u>Neuro</u>Jobs SfN's Online Career Center

Neurojobs.sfn.org

Are you a job seeker or an employer?

During Neuroscience 2018, visit the Sails Pavilion to apply for or post an open position and to schedule job interviews.

- Saturday, November 3-Tuesday, November 6 8 a.m.-5 p.m.
- Wednesday, November 7 8 a.m.-3 p.m.



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Program at a Glance

FRIDAY, NOV. 2	
8 a.m.–5 p.m.	NEUROBIOLOGY OF DISEASE WORKSHOP (P.34) The Role of Innate Immunity in CNS Disorders Throughout the Lifespan Organizers: Gwenn A. Garden, MD, PhD; Stuart A. Lipton, MD, PhD; John F. Neumaier, MD, PhD
8 a.m.–6 p.m.	SHORT COURSE 1 (P.34) Sex Differences in the Brain: Balancing Sex in Preclinical Research Organizers: Jill B. Becker, PhD; Jessica Tollkuhn, PhD
8 a.m6 p.m.	SHORT COURSE 2 (P.34) Functional, Structural, and Molecular Imaging, and Big Data Analysis Organizers: Edward S. Boyden, PhD; Kwanghun Chung, PhD
1–5:30 p.m.	SHORT COURSE 3 (P.35) Recognizing and Addressing Power Dynamics in Academia Organizers: Story C. Landis, PhD; Marguerite Matthews, PhD; Cheryl L. Sisk, PhD; Keith A. Trujillo, PhD; Elisabeth J. Van Bockstaele, PhD
SATURDAY, NOV. 3	
8–9:15 a.m.	MEET-THE-EXPERT SERIES: SESSION 1 (P.35)
8 a.m.–5 p.m.	NeuroJobs Career Center (p.38)
9–11 a.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.38) Building a Supportive Global Network Organizer: Emmeline Edwards, PhD
9–11 a.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.38) Improving Your Science: Better Inference, Reproducible Analyses, and the New Publication Landscape Organizer: Robert Calin-Jageman, PhD
9:30–10:45 a.m.	MEET-THE-EXPERT SERIES: SESSION 2 (P.36)
10–11 a.m.	Meeting Mobile App Tutorial (p.38)

11 a.m.–1 p.m.	DIALOGUES BETWEEN NEUROSCIENCE AND SOCIETY (P.14) Music and the Brain Speaker: Pat Metheny
Noon–2 p.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.38) Careers in Making Medicines: Translating Basic Research Into Therapeutics Organizer: Fiona Randall, PhD
Noon–2 p.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.38) How SfN Helped My Career: Expanding Your Neural Network at the Annual Meeting Organizer: Robert Burgess, PhD
1–3 p.m.	Graduate School Fair (p.39)
1–5 p.m.	Posters/Nanosymposia
1:30-4 p.m.	Symposia/Minisymposia (p.22)
2–3:10 p.m.	SPECIAL LECTURE (P.20) Neural Dynamics of the Primate Attention Network Lecturer: Sabine Kastner, MD
2:30-4 p.m	BRAIN AWARENESS CAMPAIGN EVENT (P.39) Action and Potential in Outreach, Education, and Research
3–5 p.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.39) How to Thrive as a Woman in Neuroscience Organizer: Melissa Harrington, PhD
5:15–6:30 p.m.	PRESIDENTIAL SPECIAL LECTURE(P.15) The dArc Matter of Synaptic Communication Lecturer: Vivian Budnik, PhD
6:30-8:30 p.m.	Diversity Poster Session (p.39)
6:30-8:30 p.m.	International Fellows Poster Session (p.40)
6:30-8:30 p.m.	Trainee Professional Development Awards Poster Session (p.40)

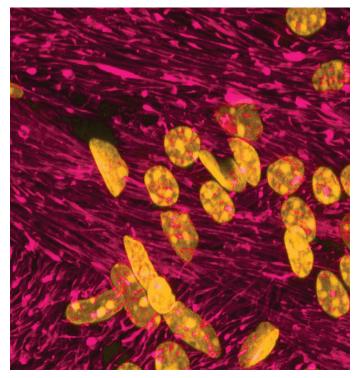
7:30–9:30 p.m.	Career Development Topics: A Networking Event (p.40)	11:30 a.m.– 12:40 p.m.	SPECIAL Sensori Commu
SUNDAY, NOV. 4			PROFESS
8 a.mnoon	Posters/Nanosymposia	Noon–2 p.m.	Career for Bior
8 a.m.–5 p.m.	NeuroJobs Career Center (p.38)		Physicia Organizer
8:30-9:40 a.m.	SPECIAL LECTURE (P.20) Bidirectional Interactions Between the Brain and Implantable Computers Lecturer: Eberhard E. Fetz, PhD	Noon–2 p.m.	PROFESS Cultivat Resear Campu Organizer
	BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLES (P.32)	Noon-2 p.m.	Gradua
8:30-11 a.m.	What We Know, What We Don't Know: How Can We Better Understand Alzheimer's Disease to Develop Effective Treatments?	1–2:10 p.m.	CLINICAL From A Recove Lecturer:
	Organizer: David M. Holtzman, MD		SOCIAL IS
8:30-11 a.m.	Symposia/Minisymposia (p.22)	1–3 p.m.	Solitary Neurob
	PROFESSIONAL DEVELOPMENT WORKSHOP (P.40)		Organizer
9–11 a.m.	Bringing a Student-Run Outreach Program to Your Institution Organizers: Alice Dallstream, Barbara Terzic	1–5 p.m.	Posters
	PROFESSIONAL DEVELOPMENT WORKSHOP (P.40)	1:30–4 p.m.	Sympo
9–11 a.m.	Face-to-Face Networking: Building and Maintaining Professional Relationships Organizer: Rae Nishi, PhD	2:30-3:40 p.m.	PETER AN
	PROFESSIONAL DEVELOPMENT WORKSHOP (P.40) Fixing the Leaky Pipeline for Women	2.00 0.10 p	Lecturers MD, PhD;
9–11 a.m.	in Science: Addressing Issues Facing New Moms Organizer: Jamie Krueger		NEUROSC PROGRAI
9:30 a.m.–5 p.m.	Exhibits (p.94)	2:30-5 p.m.	Breakin Pathwa
	SPECIAL LECTURE (P.21) Neural Data Science: Accelerating the		Career Organizer Elisabeth
10-11:10 a.m.	Experiment-Analysis-Theory Cycle in Large-Scale Neuroscience Lecturer: Liam Paninski, PhD	3–5 p.m.	PROFESS How a of Organizer

11:30 a.m.– 12:40 p.m.	SPECIAL LECTURE (P.19) Sensorimotor Circuits for Social Communication Lecturer: Mala Murthy, PhD
Noon–2 p.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.40) Career Planning and Explorations for Biomedical PhD Scientists and Physician-Scientists (MD/PhD) Organizer: Nancy Schwartz, PhD
Noon–2 p.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.41) Cultivating Leadership in Multidisciplinary Research: Bridging Gaps Across Campuses, Countries, and Continents Organizer: Sadye Paez, PhD
Noon-2 p.m.	Graduate School Fair (p.39)
1–2:10 p.m.	CLINICAL NEUROSCIENCE LECTURE (P.18) From Axon Regeneration to Functional Recovery After CNS Injury Lecturer: Zhigang He, PhD
1–3 p.m.	SOCIAL ISSUES ROUNDTABLE (P.41) Solitary Confinement: Psychological and Neurobiological Insights Into Isolation Organizer: Michael J. Zigmond, PhD
1–5 p.m.	Posters/Nanosymposia
1:30–4 p.m.	Symposia/Minisymposia (p.22)
2:30-3:40 p.m.	PETER AND PATRICIA GRUBER LECTURE (P.15) Decision, Reward, and the Basal Ganglia Lecturers: Ann M. Graybiel, PhD; Okihide Hikosaka, MD, PhD; Wolfram Schultz, MD
2:30-5 p.m.	NEUROSCIENCE DEPARTMENTS AND PROGRAMS WORKSHOP (P.41) Breaking Through: Pathways to Independence for Early Career Neuroscientists Organizers: Rosalind A. Segal, MD, PhD; Elisabeth J. Van Bockstaele, PhD
3–5 p.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.41) How a Journal Handles Your Paper Organizer: J. Paul Bolam, PhD

5:15–6:30 p.m.	PRESIDENTIAL SPECIAL LECTURE (P.16) Neurobiology of Social Behavior Circuits Lecturer: Catherine Dulac, PhD	Noon–2 p.m.	ANIMALS IN RESEARCH PANEL (P.42) Gaining Public Support for Animal Research: A Proposal for Openness Organizer: Mar Sanchez, PhD
6:45–8:45 p.m. MONDAY, NOV. 5	SfN-Sponsored Socials (p.44)	Noon-2 p.m.	Graduate School Fair (p.39)
8 a.m.–noon	Posters/Nanosymposia	1–5 p.m.	Posters/Nanosymposia
			BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLE (P.32)
8 a.m.–5 p.m.	NeuroJobs Career Center (p.38) SPECIAL LECTURE (P.21) Organelle Structure and Dynamics: What	1:30–4 p.m.	Rapid Antidepressant Action: Synaptic Mechanisms and Clinical Aspects Organizer: Ege T. Kavalali, PhD
8:30–9:40 a.m.	High-Resolution Imaging Is Uncovering Lecturer: Jennifer Lippincott-Schwartz, PhD	1:30–4 p.m.	Symposia/Minisymposia (p.22)
8:30-11 a.m.	BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLES (P.32) Molecular Therapies for Neurological Diseases	3:15–4:25 p.m.	ALBERT AND ELLEN GRASS LECTURE (P.17) Neural Sequences in Memory and Cognition Lecturer: David W. Tank, PhD
8:30–11 a.m.	-) · · · - · · · · · · · · · · · · · · ·	5.45.0.00	PRESIDENTIAL SPECIAL LECTURE (P.17) From Nanoscale Dynamic Organization
9–11 a.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.41) FAIR Neuroscience: Sharing and Collaborating for Reproducible Data	5:15–6:30 p.m.	to Plasticity of Excitatory Synapses and Learning Lecturer: Daniel Choquet, PhD
	Organizer: Linda Lanyon, PhD	6:45-8:45 p.m.	SfN CHAPTERS WORKSHOP AND RECEPTION (P.42)
9–11 a.m.	PROFESSIONAL DEVELOPMENT WORKSHOP (P.42) Teaching Neuroscience: Emotion and Learning Organizer: Richard Olivo, PhD	6:45–8:45 p.m.	SfN-Sponsored Socials (p.44)
o ii aiiii		TUESDAY, NOV. 6	
9:30 a.m.–5 p.m.	Exhibits (p.94)	8 a.mNoon	Posters/Nanosymposia
	NEUROJOBS CAREER CENTER WORKSHOP (P.41)	8 a.m.–5 p.m.	NeuroJobs Career Center (p.38)
10-10:30 a.m.			
	Best Practices for Filling Your Open Position With the Perfect Candidate	8:30–9:40 a.m.	SPECIAL LECTURE (P.19) Understanding Regeneration of Complex Body Parts
	Position With the Perfect Candidate DAVID KOPF LECTURE ON NEUROETHICS (P.16)	8:30–9:40 a.m.	
10–11:10 a.m.	Position With the Perfect Candidate	8:30–9:40 a.m. 8:30–11 a.m.	Understanding Regeneration of Complex Body Parts
10–11:10 a.m.	DAVID KOPF LECTURE ON NEUROETHICS (P.16) When Is an Adolescent an Adult?: Implications for Justice Policy Lecturer: B.J. Casey, PhD SPECIAL LECTURE (P.21)		Understanding Regeneration of Complex Body Parts Lecturer: Elly M. Tanaka, PhD BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLE (P.32) Neuroprosthetic Devices: A Patient's Perspective on Brain
	DAVID KOPF LECTURE ON NEUROETHICS (P.16) When Is an Adolescent an Adult?: Implications for Justice Policy Lecturer: B.J. Casey, PhD		Understanding Regeneration of Complex Body Parts Lecturer: Elly M. Tanaka, PhD BASIC-TRANSLATIONAL-CLINICAL ROUNDTABLE (P.32) Neuroprosthetic Devices: A Patient's Perspective on Brain Computer Interfaces

10–11:10 a.m.	SPECIAL LECTURE (P.20) The Genetics, Neurobiology, and Evolution of Natural Behavior Lecturer: Hopi E. Hoekstra, PhD
11:30 a.m.– 12:40 p.m.	SPECIAL LECTURE (P.18) Neuronal Diversity Within the Ventral Tegmental Area and Co-Release of Neurotransmitters Lecturer: Marisela Morales, PhD
Noon–2 p.m.	A Celebration of Women in Neuroscience Luncheon (p.42)
Noon–2 p.m.	Graduate School Fair (p.39)
1–2:10 p.m.	SPECIAL LECTURE (P.18) Genetic Specification of Neuronal Identity Lecturer: Oliver Hobert, PhD
1–5 p.m.	Posters/Nanosymposia
1:30–4 p.m.	Symposia/Minisymposia (p.22)
2–3:30 p.m.	PUBLIC ADVOCACY FORUM (P.43) Advocacy in Four Dimensions Organizer: William J. Martin, PhD
2:30-3:40 p.m.	HISTORY OF NEUROSCIENCE LECTURE (P.17) Deciphering Neural Circuits: From the Neuron Doctrine to the Connectome Lecturer: Marina Bentivoglio, MD
5:15–6:30 p.m.	PRESIDENTIAL SPECIAL LECTURE (P.17) From Salvia Divinorum to LSD: Toward a Molecular Understanding of Psychoactive Drug Actions Lecturer: Bryan L. Roth, MD, PhD
6:45–7:30 p.m.	SfN Members' Business Meeting (p.43)
6:45–8:45 p.m.	SfN-Sponsored Socials (p.44)
8:30–11:30 p.m.	Graduate Student Reception (p.43)
WEDNESDAY, NOV. 7	
8 a.mNoon	Posters/Nanosymposia
8 a.m.–3 p.m.	NeuroJobs Career Center (p.38)

8:30-9:40 a.m.	SPECIAL LECTURE (P.18) Biochemical Computation in Postsynaptic Compartments: Implications for Synaptic Plasticity, Learning, and Memory Lecturer: Ryohei Yasuda, PhD
8:30–11 a.m.	Symposia/Minisymposia (p.22)
9:30 a.m5 p.m.	Exhibits (p.94)
10–11:10 a.m.	SPECIAL LECTURE (P.19) A Genetic Roadmap to Understanding Auditory Perception Mechanisms Lecturer: Christine Petit, MD, PhD
11:30 a.m.– 12:40 p.m.	SPECIAL LECTURE (P.20) Reward Processing by the Dorsal Raphe Lecturer: Minmin Luo, PhD
1–2:10 p.m.	SPECIAL LECTURE (P.19) Light Detection in the Eye: The Big Picture Lecturer: King-Wai Yau, PhD
1–5 p.m.	Posters/Nanosymposia
1:30-4 p.m.	Symposia/Minisymposia (p.22)



Featured Lectures

All lectures will take place in Ballroom 20 of the San Diego Convention Center. Overflow seating will be available in Hall A.



DIALOGUES BETWEEN NEUROSCIENCE AND SOCIETY / Support contributed by: Elsevier Music and the Brain

Pat Metheny / Musician & Composer Saturday, Nov. 3, 11 a.m.–1 p.m.

Music is a universal language and a powerful force in the world. It can have incredible impact on our brain and easily make us cry or make us joyful. Just a few notes of a song can cause us to remember memories long past. Pat Metheny is a legendary jazz guitarist who understands the power of music. He has received three gold albums and 20 Grammy Awards. In this dialogue, Mr. Metheny will discuss, with a panel of SfN members, the impact of music on the brain and on our emotions and memory, as well as the process of creativity in music, art, and science and the role of music in healing.





PRESIDENTIAL SPECIAL LECTURE

The dArc Matter of Synaptic Communication CME

Vivian Budnik, PhD / University of Massachusetts Medical School
Saturday, Nov. 3, 5:15–6:30 p.m.

Recent advances in cell biology have uncovered new mechanisms by which synaptic partners in the nervous system communicate. These include the release and uptake of extracellular vesicles, such as exosomes and microvesicles, which carry proteins and RNAs. They also involve the use of mechanisms resembling those used by viruses during infection. The discovery of these mechanisms is offering new perspectives for our understanding of synapse development and plasticity.



PETER AND PATRICIA GRUBER LECTURE / DECISION, REWARD, AND THE BASAL GANGLIA
Support contributed by: The Gruber Foundation

The Striatum and Decision-Making Based on Value

Ann M. Graybiel, PhD / McGovern Institute for Brain Research at the Massachusetts Institute of Technology / Sunday, Nov. 4, 2:30–3:40 p.m.

The striatum was once thought to be a primitive part of the forebrain, despite evidence that basal ganglia dysfunction underlies major extrapyramidal disorders. Our work has contributed to the surprising realizations that the striatum actually has a sophisticated compartmental structure, that striatal circuits are implicated in decision-making and in neuropsychiatric as well as motor disorders, and that special modules in the striatum, called striosomes, are focal points in circuits linking mood-related neocortex with midbrain dopamine-containing neurons and other neuromodulatory regions. The striatum thus modulates a broad range of circuits affecting our behavioral state in health and disease.



Parallel Basal Ganglia Circuits for Cooperative and Competitive Decision-Making Okihide Hikosaka, MD, PhD / National Eye Institute, NIH / Sunday, Nov. 4, 2:30–3:40 p.m.

The basal ganglia control active behavior by disinhibiting a goal-directed action while inhibiting irrelevant actions. This is based on short-term and long-term memories, which are selectively processed in parallel circuits in the basal ganglia including dopamine neurons. These parallel circuits, together or separately, are essential for engendering motivation, attention, and skill.



About Reward

Wolfram Schultz, MD / University of Cambridge / Sunday, Nov. 4, 2:30–3:40 p.m.

The talk will describe the properties of neurons in the brain's reward systems and how their action contributes to economic decision-making. Each of several reward systems, including those involving the dopamine neurons, striatum, amygdala, and orbitofrontal cortex, plays a unique role in this process. The details of this function are currently being investigated using designs based on behavioral theories, such as animal learning theory, machine learning, and economic utility theory.

All lectures will take place in Ballroom 20 of the San Diego Convention Center. Overflow seating will be available in Hall A.





PRESIDENTIAL SPECIAL LECTURE

Support contributed by: Tiangiao & Chrissy Chen Institute

Neurobiology of Social Behavior Circuits CME

Catherine Dulac, PhD / Harvard University, Howard Hughes Medical Institute Sunday, Nov. 4, 5:15–6:30 p.m.

Social interactions are essential for animals to reproduce, defend their territory, and raise their young. This lecture will describe new data aimed at deciphering the identity and functioning principles of neural circuits underlying various social behaviors, with an emphasis on a particularly important form of social interaction: parental care. This lecture will discuss how these findings open new avenues to deconstruct the neural bases of maternal and paternal behaviors and may help to further understanding of variations in the neural control of parenting in different animal species.



DAVID KOPF LECTURE ON NEUROETHICS

Support contributed by: David Kopf Instruments

When Is an Adolescent an Adult?: Implications for Justice Policy

BJ Casey, PhD / Yale University / Monday, Nov. 5, 10-11:10 a.m.

Advances in brain imaging techniques are providing new insight as to why adolescents experience and respond to the world in unique ways. These developmental findings have influenced a series of Supreme Court decisions on the treatment of adolescents. Now, emerging evidence of developmental changes in the brains of young adults (ages 18 to 21) suggest that they, too, may be immature in ways that are relevant to justice policy.



ALBERT AND ELLEN GRASS LECTURESupport contributed by: The Grass Foundation

Neural Sequences in Memory and Cognition CME

David W. Tank, PhD / Princeton University / Monday, Nov. 5, 3:15-4:25 p.m.

The BRAIN Initiative is transforming neuroscience through improved methods for large-scale neural recording at cellular resolution. The application of these methods during working memory, decision-making, and navigation tasks has repeatedly demonstrated sequences of activity across the recorded neural population that tile the behavior. New analysis and modeling efforts are providing clues as to the functional roles and mechanisms of this widely observed form of neural circuit dynamics.



PRESIDENTIAL SPECIAL LECTURE

Support contributed by: Janssen Research & Development LLC

From Nanoscale Dynamic Organization to Plasticity of Excitatory Synapses and Learning CME

Daniel Choquet, PhD / CNRS, University of Bordeaux / Monday, Nov. 5, 5:15-6:30 p.m.

Regulation of receptor trafficking has emerged as a key mechanism for activity-dependent plasticity of synaptic transmission, a process important for learning and memory. The advent of super-resolution microscopy and single-molecule tracking has helped to uncover the intimacy of synapse dynamic organization at the nanoscale. Using new tools for further understanding the link between receptor dynamics and synapse plasticity is unveiling some of the molecular mechanisms of learning in the healthy and diseased brain.



HISTORY OF NEUROSCIENCE LECTURE

Deciphering Neural Circuits: From the Neuron Doctrine to the Connectome Marina Bentivoglio, MD / University of Verona / Tuesday, Nov. 6, 2:30–3:40 p.m.

Neurons need to communicate, and they do so in neural circuits on which brain function is built. Our evolving understanding of neuronal connectivity of unfathomable complexity is key to progress in neuroscience. The enunciation in 1891 of the Neuron Doctrine led to the explosion of neuroscience in the 20th century; since the beginning of the 21st century, connectomics has introduced novel concepts, igniting hopes to crack the code of the human brain. Traversing the itinerary of paradigm shifts in the understanding of neural circuits, this lecture will highlight current challenges and foci of research.



PRESIDENTIAL SPECIAL LECTURE

From Salvia Divinorum to LSD: Toward a Molecular Understanding of Psychoactive Drug Actions CME

Bryan L. Roth, MD, PhD / University of North Carolina at Chapel Hill / Tuesday, Nov. 6, 5:15-6:30 p.m.

How do psychoactive drugs as diverse as the potent hallucinogen LSD and the atypical antipsychotic drug clozapine exert their actions at the molecular level? This lecture will first show how research has illuminated the molecular targets responsible for the actions of psychoactive drugs. It will then illustrate how structural insight into psychoactive drug actions can be leveraged to create potentially safer and more effective medications for many neuropsychiatric disorders.

Special Lectures

All lectures will take place in Ballroom 20 of the San Diego Convention Center. Overflow seating will be available in Hall A.



THEME A: DEVELOPMENT

Genetic Specification of Neuronal Identity CME

Oliver Hobert, PhD / Columbia University / Tuesday, Nov. 6, 1–2:10 p.m.

How is the enormous diversity of cell types in a nervous system genetically specified? The answer to this question lies in defining the gene regulatory mechanisms that control the expression of neuron type-specific gene batteries. In this lecture, studies on the genetic specification of many different neuronal cell types in the nematode *C. elegans* that have led to the discovery of some commonly used strategies, by which diverse neuronal identities are instructed, will be discussed.



THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

Neuronal Diversity Within the Ventral Tegmental Area and Co-Release of Neurotransmitters CME

Marisela Morales, PhD / National Institute on Drug Abuse, NIH Tuesday, Nov. 6, 11:30 a.m.-12:40 p.m.

The release of several neurotransmitters from a single neuron has been recognized for decades. Emerging evidence has shown that the adult brain has subpopulations of neurons with the capability to accumulate vesicular glutamate and GABA for their synaptic release. This lecture will focus on the key findings and proposed molecular and cellular models for the co-release of glutamate and GABA and discuss its implications for human health.



Biochemical Computation in Postsynaptic Compartments: Implications for Synaptic Plasticity, Learning, and Memory CME

Ryohei Yasuda, PhD / Max Planck Florida Institute for Neuroscience Wednesday, Nov. 7, 8:30–9:40 a.m.

Dendritic spines are postsynaptic compartments that contain biochemical signaling cascades important for synaptic plasticity, learning, and memory. Signaling events in dendritic spines are mediated by molecular networks composed of hundreds of signaling proteins. This lecture will discuss how the spatiotemporal dynamics of these networks play roles in transforming rapid Ca2+ pulses into long-lasting protein activity, which is coordinated throughout different subcellular compartments, necessary for the induction of synaptic plasticity.



THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

CLINICAL NEUROSCIENCE LECTURE: From Axon Regeneration to Functional Recovery After CNS Injury CME

Zhigang He, PhD / Boston Children's Hospital / Sunday, Nov. 4, 1–2:10 p.m.

In the adult mammalian CNS, the inability of injured axons to regenerate contributes to unrecoverable functional deficits. This lecture will present recently uncovered cellular and molecular mechanisms regulating the processes of neuronal injury responses and axon regeneration. Further discussion will focus on the progress in developing effective strategies to promote axon regeneration and functional recovery in experimental injury models *in vivo*, such as spinal cord injuries and optic nerve crush.



Understanding Regeneration of Complex Body Parts CME

Elly M. Tanaka, PhD / Research Institute of Molecular Pathology Tuesday, Nov. 6, 8:30–9:40 a.m.

Regeneration of the nervous system and complex body structures, while minimal in humans, is observed in many animals, including vertebrates. How does injury trigger replacement of the missing portion of an organ? Recent advances in imaging and gene editing technologies have allowed us to identify molecular programs that control regeneration and the cells that execute these programs. This lecture will describe how the time-, space- and tissue-dependent responses to organ injury choreograph a molecular program that induces the regeneration of missing body structures.



Sensorimotor Circuits for Social Communication CME

Mala Murthy, PhD / Princeton University / Sunday, Nov. 4, 11:30 a.m.-12:40 p.m.

Social interactions require continually adjusting behavior in response to sensory feedback from a partner. This lecture will focus on the computations and neural mechanisms that underlie the processing of dynamic sensory information to flexibly guide social behaviors. In particular, this lecture will highlight recent discoveries using the acoustic communication system of *Drosophila* to characterize sensorimotor circuits for both song production and perception and will put these discoveries in the broader context of research on social communication across model systems.



THEME D: SENSORY SYSTEMS

A Genetic Roadmap to Understanding Auditory Perception Mechanisms CME
Christine Petit, MD, PhD / Institut Pasteur, Collège de France / Wednesday, Nov. 7, 10–11:10 a.m.

The molecular mechanisms underlying auditory system development and function remained unknown until they were unlocked by genetic dissection. This lecture will show how the hundreds of causal genes for deafness have revealed the molecular basis of sound detection and processing in the cochlea. Recent results extend genetic dissection to the identity and functional connectivity of auditory cortex neuronal populations. How pleiotropic functions of deafness genes are likely to affect future treatments and shed light on the evolution of this sensory system will be discussed.



Light Detection in the Eye: The Big Picture CME

King-Wai Yau, PhD / Johns Hopkins University School of Medicine Wednesday, Nov. 7, 1–2:10 p.m.

This lecture will discuss multiple photoreceptor cell-types existing in the eye. Retinal rods and cones serve predominantly image-forming vision, using a cGMP signaling cascade for phototransduction. A few percent of retinal ganglion cells express the pigment melanopsin and are bona fide photoreceptors. They serve mostly, but not exclusively, non-image-forming vision. They use a combination of cGMP signaling and phospholipase-C signaling for phototransduction, with some using both signaling pathways in the same cell. Still other ocular photoreceptor cells exist both inside and outside the retina.

All lectures will take place in Ballroom 20 of the San Diego Convention Center. Overflow seating will be available in Hall A.



THEME E: MOTOR SYSTEMS

Bidirectional Interactions Between the Brain and Implantable Computers CME Eberhard E. Fetz, PhD / University of Washington / Sunday, Nov. 4, 8:30–9:40 a.m.

Closed-loop interactions between the brain and implantable computers open new opportunities for brain research and clinical applications. This lecture will review the use of bidirectional brain-computer interfaces to bridge lost physiological connections, strengthen synaptic connections via Hebbian plasticity, and reinforce neural activity with intracranial stimulation. Closed-loop activity-dependent stimulation has numerous applications, depending on the recorded signals, the computed transforms, and the stimulated targets.



THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

The Genetics, Neurobiology, and Evolution of Natural Behavior CME Hopi E. Hoekstra, PhD / Harvard University, Howard Hughes Medical Institute / Tuesday, Nov. 6, 10–11:10 a.m.

New tools — from genomic analyses to automated behavioral assays — have enabled the discovery of specific genes that contribute to variation in behavior. This lecture will focus on the genetic and neurobiological mechanisms responsible for the evolution of natural behavior. It will highlight recent discoveries from diverse organisms that demonstrate how genetic changes, through neural circuits, give rise to variation in behavior, and how these findings in nonmodel species in turn shed light onto variation in human behavior.



THEME G: MOTIVATION AND EMOTION

Reward Processing by the Dorsal Raphe CME

Minmin Luo, PhD / National Institute of Biological Sciences, Beijing Wednesday, Nov. 7, 11:30 a.m.–12:40 p.m.

Rewards fundamentally influence animal survival and well-being. The dorsal raphe nucleus (DRN) in the midbrain is a major center for serotonin neurons. The questions of whether and how the DRN and the serotonin system process reward signals have remained controversial. This lecture will present recent evidence to argue that DRN serotonin neurons likely encode "beneficialness," or how much potential benefit the current state might bring to an individual. This simple theory may explain the diverse roles of serotonin in modulating behaviors and intervening in psychiatric disorders.



THEME H: COGNITION

Neural Dynamics of the Primate Attention Network CME

Sabine Kastner, MD / Princeton University / Saturday, Nov. 3, 2–3:10 p.m.

The selection of information from cluttered sensory environments is one of the most fundamental cognitive operations performed by the primate brain. This process engages a large-scale network that consists of multiple nodes, distributed across cortical and subcortical regions. This lecture will focus on temporal dynamics within this network that shape both the sampling of and responses to our environment, with an emphasis on thalamo-cortical interactions. The lecture will also discuss the importance of comparative electrophysiology and neuroimaging in human and monkey brains.



New Computational Perspectives on Serotonin Function CME Zachary F. Mainen, PhD / Champalimaud Institute, Portugal Monday, Nov. 5, 11:30 a.m.–12:40 p.m.

Serotonin is an important target of psychoactive drugs whose endogenous neuromodulatory functions remain enigmatic. Data indicate that serotonin neurons are activated by surprising events and that consequent serotonin release facilitates neural plasticity and biases decision-making. This lecture will discuss these data from a computational perspective in which serotonin is seen as reporting uncertainty in the brain's internal models of the world and helping to modify them accordingly.



THEME I: TECHNIQUES

Neural Data Science: Accelerating the Experiment-Analysis-Theory Cycle in Large-Scale Neuroscience CME

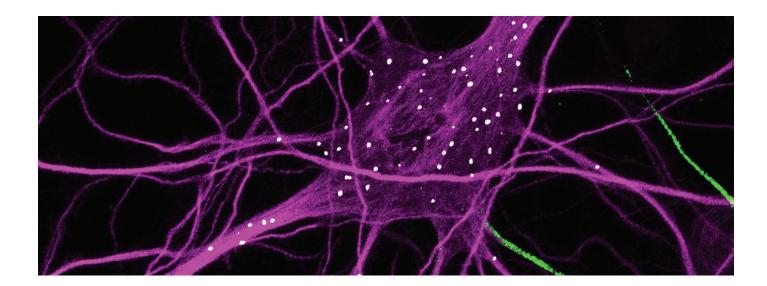
Liam Paninski, PhD / Columbia University / Sunday, Nov. 4, 10–11:10 a.m.

Modern multineuronal recordings produce single-cell-resolution data on a large scale. "Neural data science" aims to extract meaning from the resulting huge new streams of data. This lecture will review recent progress and current challenges in this rapidly growing field, where new methods for network analysis, dimensionality reduction, and optimal control — developed in lockstep with advances in experimental neurotechnology — promise breakthroughs in multiple fundamental neuroscience problems.



Organelle Structure and Dynamics: What High-Resolution Imaging Is Uncovering CME Jennifer Lippincott-Schwartz, PhD / Janelia Research Campus / Monday, Nov. 5, 8:30–9:40 a.m.

Powerful new ways to image the internal structures and complex dynamics of cells are revolutionizing cell biology and biomedical research. This lecture will focus on how emerging imaging technologies are increasing spatiotemporal resolution dramatically, permitting simultaneous multispectral imaging of multiple cellular components. Using these tools, it is now possible to begin describing the interrelationships of different cellular organelles as they carry out critical functions.



Symposia and Minisymposia

THEME A: DEVELOPMENT

SYMPOSIUM: Neuronal Guidance in Health and Disease CME

Chair: Alex L. Kolodkin, PhD Saturday, Nov. 3, 1:30–4 p.m. San Diego Convention Center: 6A

Investigation into phylogenetically conserved cellular and molecular mechanisms underlying neuronal guidance and connectivity has greatly advanced over the past three decades. This symposium will address the intersections among several of these advances and human neural development. Select evolutionarily conserved guidance cues, receptors, and cytosolic signaling cascades will be considered, along with how mutations that affect them may alter human neural development.

MINISYMPOSIUM: Molecular Mechanisms Underpinning Dopamine Neuron Development, Diversity, and Vulnerability CME

Chair: Raj Awatramani, PhD Co-Chair: Sandra Blaess, PhD Sunday, Nov. 4, 8:30–11 a.m. San Diego Convention Center: 29D

This minisymposium will cover topics including embryonic fate specification events, migration, and axon guidance that ultimately result in a multifunctional, heterogeneous, midbrain dopaminergic system.



SYMPOSIUM: Extracellular Vesicles: Insights Into Cell-to-Cell Communication in the Nervous System CME

Chair: Jason D. Shepherd, PhD Monday, Nov. 5, 1:30–4 p.m. San Diego Convention Center: 6A

Cells communicate and signal between each other in multiple ways. Emerging evidence suggests that extracellular vesicles (EVs) mediate intercellular signaling in the nervous system. Moreover, EVs have been implicated in the pathology of various neurodegenerative disorders, as several pathogenic proteins are released from cells associated with EVs. This symposium will highlight the biogenesis of EVs in neurons and the role EVs play in synaptic plasticity and neural circuit development.

SYMPOSIUM: RNA Control of Axonal Functions CME

Chair: Jeffery L. Twiss, MD, PhD Co-Chair: Michael Fainzilber, PhD Tuesday, Nov. 6, 8:30–11 a.m. San Diego Convention Center: 6A

This symposium will highlight new insight on RNA control of axonal functions. Discoveries in different models and paradigms are coming together to provide a comprehensive view of how RNA localization and local translation regulate axon growth, maintenance, and regeneration. Intracellular trafficking, localized regulation, and axon-to-soma communication are key aspects of these mechanisms. The presentations will showcase diverse examples of how these fundamental mechanisms are implemented.

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MINISYMPOSIUM: Neural Proteomics in Synapse Development and Function CME

Chair: Brock Grill, PhD Co-Chair: Kirill A. Martemyanov, PhD Wednesday, Nov. 7, 8:30–11 a.m. San Diego Convention Center: 29D

An explosion of proteomic approaches is increasingly playing a greater role in understanding synapse biology, via identification of novel protein interactions and signaling networks that regulate synapses. This minisymposium will explore synapse biology across model systems, with insight stemming from proteomics. Cutting-edge experimental strategies for quantitative profiling and interactome mapping reveal biology underlying synapse formation, function, and its role in physiology and disease.

MINISYMPOSIUM: Sonic Hedgehog and Cell-Specific Programming: Circuits, Disease, and Repair CME

Chair: Corey C. Harwell, PhD Co-Chair: Rebecca Ihrie, PhD Wednesday, Nov. 7, 1:30–4 p.m. San Diego Convention Center: 28A

An emerging body of research has uncovered diverse roles for Sonic Hedgehog signaling in a wide range of neurodevelopmental contexts affecting the function of brain circuits, including the production and maintenance of diverse cell types and the establishment of cell-specific wiring. This minisymposium will highlight recent developments describing the role of Sonic Hedgehog in conferring cell specific identity, circuit connectivity, and injury repair in the developing and mature nervous system.

THEME B: NEURAL EXCITABILITY, SYNAPSES, AND GLIA

MINISYMPOSIUM: Advances in Enteric Neurobiology: The "Brain" in the Gut in Health and Disease CME

Chair: Meenakshi Rao, MD, PhD Co-Chair: Subhash Kulkarni, PhD Sunday, Nov. 4, 8:30–11 a.m. San Diego Convention Center: 28A

The enteric nervous system (ENS) is a large, complex division of the peripheral nervous system that regulates many digestive, immune, hormonal, and metabolic functions. This minisymposium will highlight the latest advances in enteric neurobiology and focus on new model systems for investigating ENS development, mechanisms of adult neurogenesis, enteric glial biology, and the impact of aging on the ENS, as well as the dynamic interactions among microbiota, immune cells, neurons, and glia in the gut.

MINISYMPOSIUM: Cell Adhesion Molecules at the Intersection of Cell Type Identity and Neural Circuit Connectivity CME

Chair: Csaba Foldy, PhD Co-Chair: Joris de Wit, PhD Sunday, Nov. 4, 1:30-4 p.m. San Diego Convention Center: 29D

Cell adhesion molecules (CAMs) play critical roles in neural circuit assembly and are frequently associated with neurodevelopmental and psychiatric disorders. Because hundreds of CAMs exist in the brain, their functional analysis has been challenging. Single-cell RNAseq, gene isoform-specific, and synapse-specific analyses are breaking barriers. This minisymposium will present the most recent insight into the role of CAMs in defining cell type identity, circuit connectivity, and function.

MINISYMPOSIUM:

Neuromodulation of Brain States in Health and Disease: Bridging Experiments and Computational Models CME

Chair: Srikanth Ramaswamy, PhD Co-Chair: Antoine Adamantidis, PhD Tuesday, Nov. 6, 8:30–11 a.m. San Diego Convention Center: 28A

Subcortical neuromodulatory systems dynamically reconfigure the activity of neural microcircuits and regulate shifts between brain states in health and disease. Despite their crucial role in physiology and pathology, the cellular and synaptic mechanisms by which neuromodulators control neural activity remain unclear. This minisymposium will highlight cutting-edge techniques developed in global brain initiatives for a quantitative assessment of neuromodulation in brain function and dysfunction.

MINISYMPOSIUM: Molecular and Nano-Organization of Synapses CME

Chair: Thomas Biederer, PhD Tuesday, Nov. 6, 1:30–4 p.m. San Diego Convention Center: 28A

Recent progress has revealed that the nerve terminal, synaptic cleft, and postsynaptic site form a trans-cellular unit that is precisely aligned on a nanoscale to transmit information. This minisymposium will investigate the machinery of each compartment and how compartments are integrated by synaptic adhesion molecules and by glial- and neuron-secreted factors. Going beyond a static picture, the minisymposium will also address dynamic properties of synaptic compartments that contribute to remodeling.

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MINISYMPOSIUM: Multitransmitter Neurons: The Function and Regulation of Neurotransmitter Cotransmission CME

Chair: Adam J. Granger, PhD Wednesday, Nov. 7, 1:30–4 p.m. San Diego Convention Center: 29D

Many neurons signal through multiple small-molecule neurotransmitters, adding an additional layer of complexity to our understanding of synaptic transmission. This minisymposium will discuss recent examples of multitransmitter neurons, emphasizing the physiological and behavioral function of cotransmission and how the neurotransmitter(s) a neuron releases may be regulated by development or activity.

SYMPOSIUM: Unveiling the Extracellular Space of the Brain: From Super-Resolved Microstructure to *In Vivo* Function CME

Chair: Valentin U. Nägerl, PhD Co-Chair: Sabina Hrabetova, MD, PhD Wednesday, Nov. 7, 1:30–4 p.m. San Diego Convention Center: 6A

The extracellular space (ECS) of the brain provides the physical stage and signaling platform where neuronal and glial players perform in concert. While the ECS takes up a fifth of brain volume, its topology is incredibly complex and miniaturized, defying traditional investigative approaches. This symposium will review our current knowledge of the ECS, evaluating recent methodological and conceptual progress that throws new light on this understudied yet critically important compartment of the brain.

THEME C: NEURODEGENERATIVE DISORDERS AND INJURY

SYMPOSIUM: Repairing the Injured Nervous System: Inhibiting the Inhibitors CME

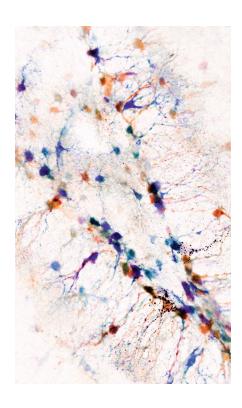
Chair: Elizabeth J. Bradbury, PhD Co-Chair: Catherina G. Becker, PhD Monday, Nov. 5, 8:30–11 a.m. San Diego Convention Center: 6A

This symposium will focus on inhibitory factors that prevent neuroplasticity and functional recovery after central nervous system injury. The panelists will present new advances in understanding how inhibitory molecules present in a tissue injury environment are a barrier to repair and may be therapeutically targeted. The symposium will cover bench-to-bedside approaches that span mammalian and nonmammalian systems, organic chemistry, gene therapy, and clinical trials, with a common goal of repairing the injured nervous system.

SYMPOSIUM: Global Efforts to Build More Predictive Animal Models of Neurodegenerative Disease CME

Chair: Bruce T. Lamb, PhD Co-Chair: Rudolph E. Tanzi, PhD Monday, Nov. 5, 1:30–4 p.m. San Diego Convention Center: 6B

Neurodegenerative diseases are an increasingly common form of disability and death. Despite intensive efforts, no effective therapeutic strategies have been developed, perhaps in part due to inadequate animal models. This symposium will highlight global initiatives to develop and characterize novel animal models of Alzheimer's disease using state-of-the-art technologies, including genome editing, that will be critical for building animal models more predictive for therapeutic efficacy.



MINISYMPOSIUM: Mechanisms of Tau Oligomer-Induced Synaptic Impairment and Potential Treatment Strategies CME

Chair: Ottavio Arancio, MD, PhD Co-Chair: Frank M. Longo, MD, PhD Tuesday, Nov. 6, 8:30–11 a.m. San Diego Convention Center: 6E

Soluble oligomeric forms of the Alzheimer's disease protein tau are gaining a lot of attention because they likely promote cell-to-cell propagation of pathology and are more toxic than large insoluble aggregates. This minisymposium will discuss evidence supporting a role for tau oligomers in disease initiation and progression and explore therapeutic strategies for inhibiting formation of tau oligomers and/or counteracting synaptic impairment and degeneration caused by tau oligomers.

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SYMPOSIUM: Organelle Dynamics and Proteostasis in Neuronal Homeostasis and Degeneration CME

Chair: Xinnan Wang, PhD Tuesday, Nov. 6, 1:30-4 p.m. San Diego Convention Center: 6A

Neuronal organelles are highly dynamic, and their biogenesis is tightly regulated in the extended extremities of a neuron. How to maintain organelle homeostasis is a fundamental cellular concern and crucial to neuronal survival. Defects in organelle function have emerged as key contributors to several neurodegenerative disorders, including Alzheimer's and Parkinson's disease. This symposium will present cutting-edge research at the intersection of neuronal cell biology and neurodegeneration.

MINISYMPOSIUM: The **Endolysosomal System and Proteostasis: From Development** to Degeneration CME

Chair: Huaye Zhang, PhD Co-Chair: Bettina R. Winckler. PhD Wednesday, Nov. 7, 8:30-11 a.m. San Diego Convention Center: 28A

Intracellular membrane trafficking represents a very unique challenge for neurons because of their highly elaborate cellular architecture. Genes regulating endocytosis and subsequent endosomal routing, in particular, are frequently linked to neurological diseases. This minisymposium will discuss novel insight into the mechanisms of endosomal trafficking in neurons, the effects on proteostasis, and the functional impact on neuronal development and degeneration.

THEME D: SENSORY SYSTEMS

MINISYMPOSIUM: How to Get Out of Harm's Way: New Insight Across Multiple Species Into the **Neural Mechanisms of Visually** Guided Collision Avoidance CME

Chair: Fabrizio Gabbiani. PhD Co-Chair: Florian Engert, PhD Saturday, Nov. 3, 1:30-4 p.m. San Diego Convention Center: 6E

Visually guided collision avoidance is critical to survival for many animals. Recently, common neural rules governing such behaviors have unexpectedly been identified across a wide range of species, as different as fruit flies and mice. This minisymposium will summarize shared themes and species-specific advances in understanding the biophysics, neural circuitry, brain areas, and sensorimotor programs that implement collision avoidance behaviors across species from insects to primates.

MINISYMPOSIUM: Algorithms for **Olfactory Search Across Species**

CME

Chair: Matt Smear, PhD Co-Chair: Katherine Nagel, PhD Monday, Nov. 5, 8:30-11 a.m. San Diego Convention Center: 28A

Olfactory navigation provides a unique model for understanding how neural computations shape a behavior critical for survival. This minisymposium will present recent advances in the understanding of olfactory search in flies and rodents. While many cross-species commonalities have emerged, important questions about the neural circuits that implement search behavior remain. This minisymposium will take a multidisciplinary approach to provide an update on progress on these questions.

MINISYMPOSIUM: Multidimensional Neuronal Cell Type Classification in the Cerebral

Chair: Jochen F. Staiger, MD Co-Chair: Staci A. Sorensen, PhD Monday, Nov. 5, 1:30-4 p.m. San Diego Convention Center: 29D

Cortex CME

There is general agreement in the field that meaningful cell type classification requires multimodal descriptors. These descriptors come from data modalities including morphology, physiology, molecular biology, and connectivity and are ideally linked to a circuit function. This minisymposium will present six recent studies using different multimodal approaches, ranging from molecular to functional, to objectively and systematically describe neuronal cell types in the rodent and human neocortex.

SYMPOSIUM: The Feeling Within: Molecules to Behavior Underlying Interoception CME

Chair: Lisa Stowers, PhD Co-Chair: Ardem Patapoutian, PhD Tuesday, Nov. 6, 8:30-11 a.m. San Diego Convention Center: 6B

How does the brain monitor and react to our constantly changing internal physiology? While there has been rapid progress in understanding exteroception, less is known about how organisms sense and process information from within, such as hunger, respiration, circulation, excretion, and gut-brain interactions. This symposium will take a multidisciplinary approach to describe recent advances in interoception, from defining the signals that monitor internal states to identifying critical neuronal circuits that drive behavior.

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MINISYMPOSIUM: Novel Molecular Targets for the Treatment of Pain CME

Chair: John M. Streicher, PhD Co-Chair: Tally Largent-Milnes, PhD Wednesday, Nov. 7, 8:30–11 a.m. San Diego Convention Center: 6E

The opioid crisis and the side effects of opioid therapy have illustrated the great medical and scientific need for new pain therapies that do not have the drawbacks of opioids. Covering topics ranging from downstream molecular signaling effectors of opioid receptors to new receptor targets, this minisymposium will highlight recent advances in finding new molecular targets for the treatment of pain and explore how these targets can be manipulated to improve pain and/or opioid therapy.

THEME E: MOTOR SYSTEMS

MINISYMPOSIUM: Latent Factors and Dynamics in Motor Cortex and Their Application to Brain-Machine Interfaces CME

Chair: Chethan Pandarinath, PhD Saturday, Nov. 3, 1:30–4 p.m. San Diego Convention Center: 28A

Increasing evidence suggests that the activity of large populations of neurons in motor cortical areas exhibits low-dimensional structure that obeys dynamic rules. A better understanding of this structure and its dynamics is shedding new light on how motor cortex commands muscles and how different cortical areas interact. Further, these features have critical implications for designing robust, versatile brain-machine interfaces that restore function to people with paralysis.



MINISYMPOSIUM: The Dynamic Interaction of Vision and Eye Movements CME

Chair: J. Patrick Mayo, PhD Sunday, Nov. 4, 8:30–11 a.m. San Diego Convention Center: 6E

A resurgence in the study of eye movements and visual perception has been driven by new experimental approaches (data modeling, the use of clinical populations, and simultaneous recordings of neuronal populations) and comparisons between primate models of vision (humans, macaques, and marmosets). This minisymposium will use these innovations to reveal insight into the effects of exploratory (saccades) and tracking (smooth pursuit) eye movements on vision, cognition, and motor control.

MINISYMPOSIUM: More Than Just a "Motor": Recent Surprises From the Frontal Cortex CME

Chair: Christian L. Ebbesen, PhD Sunday, Nov. 4, 1:30–4 p.m. San Diego Convention Center: 28A

Motor and premotor cortices are crucial for motor control. While classic primate

studies have emphasized a role for motor cortices in movement generation, recent rodent studies implicate motor cortical neurons in sensory integration, behavioral strategizing, working memory, and decision making — underrated higherorder functions of the motor cortex that deserve better attention and study. This minisymposium will review recent findings, which highlight that the motor cortex is much more than just a "motor."

SYMPOSIUM: Targeted Therapies for Parkinson's Disease: From Genetics to the Clinic CME

Chair: Lamya S. Shihabuddin, PhD Co-Chair: Patrik Brundin, MD, PhD Monday, Nov. 5, 8:30–11 a.m. San Diego Convention Center: 6B

The greatest unmet need in Parkinson's disease (PD) is the development of treatments that slow the relentless progression of the neurodegenerative process. The discovery of genomic and biochemical biomarkers for PD is starting to revolutionize its diagnosis, prognosis, and treatment. This symposium will focus on therapeutic paradigms under active clinical

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development and highlight a wide range of outstanding questions that need to be addressed to advance the field of disease modification in PD.

MINISYMPOSIUM: Cortical Control of Locomotion and Posture CME

Chair: Irina N. Beloozerova, PhD Wednesday, Nov. 7, 8:30–11 a.m. San Diego Convention Center: 31C

Understanding mechanisms of complex natural movements is the ultimate goal of motor systems neuroscience. This minisymposium will discuss recent advances in locomotion and posture research gained in the freely behaving cat. Focusing on parietal, pre-motor, and motor cortical mechanisms of full body movements, it will include a new analytical description of corticospinal processing that allows steering, and a description of powered limb prosthesis integrated with nerves and muscles.

MINISYMPOSIUM: The Basal Ganglia: Beyond Action Selection CME

Chair: Eric A. Yttri, PhD Wednesday, Nov. 7, 1:30–4 p.m. San Diego Convention Center: 6E

New approaches — both behavioral and physiological — have enabled a new depth of interrogation of the neural correlates of behavior. Perhaps nowhere has this process been more powerful than in the basal ganglia, where recent insight is shifting the operational paradigm of function from a binary gating of action to a nuanced shaping of behavior. This minisymposium will cover the implications of animal model work and connect findings with human studies of healthy and clinical subjects.

THEME F: INTEGRATIVE PHYSIOLOGY AND BEHAVIOR

MINISYMPOSIUM: Neuronal Mechanisms for Prepulse Inhibition: Comparative Approaches From Sensory to Cognition CME

Chair: Thomas Preuss, PhD Co-Chair: Susanne Schmid, PhD Saturday, Nov. 3, 1:30–4 p.m. San Diego Convention Center: 6C

Prepulse inhibition (PPI) is a measure for sensorimotor gating that has been studied across species, and PPI deficits are found in several psychiatric and neurological disorders. This minisymposium will provide a rare comparative perspective on neural mechanisms underlying PPI. Covering work from invertebrates to humans using cutting-edge approaches, the minisymposium will emphasize how comparative studies have advanced our understanding of PPI mechanisms and regulatory pathways.

SYMPOSIUM: Multiscale Computer Modeling of Neural Circuits in Health and Disease

CME

Chair: William W. Lytton, MD Co-Chair: Christophe Bernard, PhD Sunday, Nov. 4, 8:30–11 a.m. San Diego Convention Center: 6A

Brain function depends on interactions across multiple temporal and spatial scales from molecules and synapses up to interconnected brain areas. Mechanistic multiscale modeling provides the means to organize and understand the cross-scale interactions to explain how brains and other neural systems work or fail. Computational modeling also allows us to bridge the gap between mechanism and phenomenology, from anatomy and dynamics to behavior and cognition.

SYMPOSIUM: Blood-Brain Barrier in Health and Disease: Role in Neurodegeneration, CNS Autoimmunity, and Gene Transfer CME

Chair: Berislav V. Zlokovic, MD, PhD Sunday, Nov. 4, 1:30–4 p.m. San Diego Convention Center: 6B

This symposium summarizes current advances on the role of the blood-brain barrier (BBB) in health and disease, including major human neurodegenerative disorders, such as Alzheimer's disease, and neuroimmune disease. It highlights single-cell approaches to understanding the role of brain vasculature in health and CNS disorders; cellular and molecular mechanisms at the BBB causing neurodegeneration and CNS autoimmunity; and gene transfer across the BBB to treat neurodegenerative and CNS disorders.

MINISYMPOSIUM: Defining Dysbiosis in Disorders of Movement and Motivation CME

Chair: Christopher T. Fields Co-Chair: Helen Vuong, PhD Monday, Nov. 5, 8:30–11 a.m. San Diego Convention Center: 6C

The gut microbiota can affect multiple aspects of brain function and behavior in health and disease. Interestingly, movement and motivation outputs driven by thalamo-cortico-basal ganglia circuits are modulated by changes in this gut-brain axis. In this minisymposium, speakers will discuss recent advances in understanding the effects of the gut microbiota on action selection, somatosensation, and motor behavior in health and disease models, including Parkinson's, obesity, and opioid addiction.

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MINISYMPOSIUM: Sex Differences in Risk and Resilience: Stress Effects on the Neural Substrates of Emotion and Motivation CME

Chair: Cara L. Wellman, PhD Monday, Nov. 5, 1:30–4 p.m. San Diego Convention Center: 6C

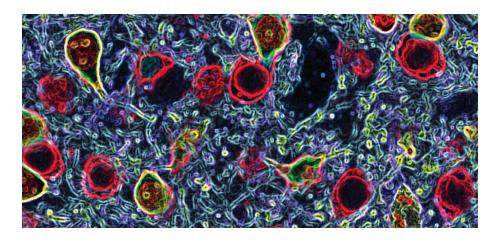
Corticolimbic dysfunction is a hallmark of stress-linked psychological disorders, risk for which differs markedly in men and women.

Understanding how the effects of stress differ in males and females is critical for determining the etiologies of stress-linked disorders. This minisymposium will describe sex-specific effects of stress on neural structure and function of brain regions involved in emotion, motivation, and cognition, highlighting possible neural mechanisms underlying sex-biased disorders.

MINISYMPOSIUM: Neuropeptide Signaling: From Physiology to Behavior CME

Chair: Jennifer Garrison, PhD Tuesday, Nov. 6, 1:30–4 p.m. San Diego Convention Center: 6E

Neuropeptides comprise the largest and most diverse class of neuromodulators, and they mediate integral processes ranging from energy homeostasis to behavior. This minisymposium will highlight recent experimental and technical advances in understanding mechanisms by which neuropeptide signaling can influence physiology and behavior at both the cellular and circuit level in a range of organisms.



SYMPOSIUM: Multiple Axes of Dopamine Systems for Behavioral Controls: From Fly Via Rodent to Monkey CME

Chair: Mitsuko Watabe-Uchida, PhD Co-Chair: Okihide Hikosaka, MD, PhD Wednesday, Nov. 7, 8:30–11 a.m. San Diego Convention Center: 6A

Across the animal kingdom, dopamine plays a central role in regulating diverse flexible and habitual behaviors. This symposium brings together researchers using different models, from invertebrates to primates, to discuss how multiple dopamine systems work in concert to generate appropriate behavioral control. This comparative framework will highlight conserved and divergent organizational principles across dopamine systems and how they confer flexibility to neural circuits and behavior.

SYMPOSIUM: The Emerging Role of the Amygdala in Modulating the Somatosensory and Emotional Components of Pain and Itch CME

Chair: Benedict J. Kolber, PhD Wednesday, Nov. 7, 1:30–4 p.m. San Diego Convention Center: 6B

Pain involves a complex mix of sensory, cognitive, and emotional

processes. This symposium will address the emerging role of the amygdala in modulating all of these components in the mammalian limbic system. Speakers will provide important and novel mechanistic insight at the cellular, synaptic, and circuit levels achieved through cuttingedge microscopy, recording, and rodent behavioral techniques.

THEME G: MOTIVATION AND EMOTION

MINISYMPOSIUM: Neurocognitive Development of Motivated Behavior CME

Chair: Catherine A. Hartley, PhD Co-Chair: Dylan G. Gee, PhD Saturday, Nov. 3, 1:30–4 p.m. San Diego Convention Center: 29D

Over the course of development, the neurocognitive processes that support the ability to anticipate and respond to rewards or threats in the environment change markedly. This minisymposium will bring together recent cross-species research characterizing the typical development of the neural circuits and cognitive processes involved in the control of threat- and reward-motivated behavior and the alteration of these trajectories by experiential factors such as early-life stress.

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MINISYMPOSIUM: Computational Affective Neuroscience: Algorithms for Survival CME

Chair: Robb B. Rutledge, PhD Co-Chair: Dominik R. Bach, MD, PhD Sunday, Nov. 4, 8:30–11 a.m. San Diego Convention Center: 6C

Emotions play a central role in adaptive behavior across the animal kingdom but are conceptualized in divergent and often imprecise ways. Researchers have recently adopted computational approaches to study a range of emotional phenomena from behavior to feelings, and to use computational models to interrogate the underlying neural circuits. This minisymposium will focus on how computational models can explain the role of emotions in adaptive behavior, both in humans and nonhuman animals.

MINISYMPOSIUM: Insular Cortex Neurocircuits: Relationships Among Function, Connectivity, and Drug and Alcohol Abuse CME

Chair: Brady K. Atwood, PhD Monday, Nov. 5, 8:30–11 a.m. San Diego Convention Center: 6E

The insular cortex plays a major role in processing the interoceptive effects of drugs of abuse, including alcohol. This minisymposium will highlight preclinical studies that dissect the local neurocircuitry of the insular cortex and its projections to specific brain regions in the context of alcohol, opioid, and psychostimulant abuse. Novel functional roles of these networks in drug-related behaviors and the impact of drugs of abuse on insular cortex-originating synapses will be discussed.

MINISYMPOSIUM: Social Motivation Across the Lifespan CME

Chair: Brian C. Trainor, PhD Co-Chair: Alexa H. Veenema, PhD Monday, Nov. 5, 1:30–4 p.m. San Diego Convention Center: 6E

Social behavior and motivation have historically been considered different behavioral processes modulated by different neural circuits. Multiple lines of evidence, however, indicate significant overlap and communication among these circuits. This minisymposium will highlight recent discoveries in the neural mechanisms modulating normal and abnormal social behavior using a variety of genetic, cellular, neuroanatomical, electrophysiological, and pharmacological approaches.

MINISYMPOSIUM: Sex Differences and Hormone Action in the Limbic System CME

Chair: John Meitzen, PhD Tuesday, Nov. 6, 1:30–4 p.m. San Diego Convention Center: 29D

Limbic system function is critical for the control of emotion, motivation, and memory. Sex differences and hormone effects have been demonstrated in the limbic system, including in the nucleus accumbens, amygdala, and hippocampus. This minisymposium will highlight recent work on the electrophysiological and molecular mechanisms underlying these differences, how they interact with environmental stimuli such as stress, and their relevance to mental illness and other disorders.

THEME H: COGNITION

SYMPOSIUM: Specific Basal Forebrain-Cortical Cholinergic Circuits Coordinate Cognitive Operations CME

Chair: Laszlo Zaborszky, MD, PhD Co-Chair: Gina R. Poe, PhD Sunday, Nov. 4, 8:30-11 a.m. San Diego Convention Center: 6B

The basal forebrain (BF) cholinergic projections, once viewed as a diffuse system, is emerging as highly specific in its connectivity based on molecular genetics as well as functional and quantitative anatomical studies. The BF can both rapidly and selectively modulate activity of specific circuits and coordinate ACh release in multiple areas related to particular aspects of cognitive processing. This symposium presents new approaches and findings from studies of the function and dysfunction of this system.

MINISYMPOSIUM: High-Level Cognition in Low-Level Brain Regions CME

Chair: Rosemary A. Cowell, PhD Sunday, Nov. 4, 1:30-4 p.m. San Diego Convention Center: 6C

Mounting evidence now contests the idea that high-level brain regions such as the medial temporal lobe engage only in high-level functions like declarative memory. This challenges the broader assumption that the brain comprises discrete anatomical units specialized for distinct cognitive functions. This minisymposium extends that challenge by asking the question: Can high-level cognitive functions such as recognition memory, recall, and spatial cognition be mediated by low-level cortical regions?

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MINISYMPOSIUM: The Neurobiology of Forgetting CME

Chair: Maria Wimber, PhD Co-Chair: Paul W. Frankland, PhD Tuesday, Nov. 6, 8:30–11 a.m. San Diego Convention Center: 6C

We automatically encode virtually all experiences, yet the vast majority of our experiences are not remembered later. This minisymposium will address the questions of how and why the brain forgets. It brings together researchers that study forgetting in flies, rodents, and humans. The minisymposium will focus on molecular-, cellular-, and systems-level mechanisms underlying forgetting and consider the active and adaptive roles that forgetting plays in keeping our memory system flexible.

SYMPOSIUM: Language Networks Derived From Direct Intracranial Recordings in Humans CME

Chair: Nitin Tandon, MD Co-Chair: Stanislas Dehaene, PhD Tuesday, Nov. 6, 1:30–4 p.m. San Diego Convention Center: 6C

Intracranial recordings in humans provide data unsurpassed in spatiotemporal resolution that yield novel insight into the rapid computations that underlie language. This symposium details results from a broad array of questions asked and experimental paradigms used across five labs to probe language architecture — from reading and sentence comprehension to lexical retrieval and articulation processes. This new knowledge about language networks carries implications for learning and disease.

SYMPOSIUM: Mental Structures and Sequences: Evolutionary Solutions From Birds to Primates CME

Chair: Christopher I. Petkov, PhD Co-Chair: Angela Friederici, PhD Wednesday, Nov. 7, 8:30–11 a.m. San Diego Convention Center: 6B

The human brain appears to be specialized for certain operations. To what extent aspects of our neurobiology can find realistic animal models constitutes a pressing issue for neuroscience. This is most salient in the domain of language, a uniquely human neurocognitive capacity. This symposium will review the revolution taking place in understanding the neurobiology of language as it includes how the brain creates mental structures and which aspects engage evolutionarily conserved or convergent neural mechanisms.

MINISYMPOSIUM: From Recent to Remote Memory and Back CME

Chair: Yaniv Ziv, PhD
Co-Chair: Inbal Goshen, PhD
Wednesday, Nov. 7, 1:30–4 p.m.
San Diego Convention Center: 6C

What makes some memories fade rapidly and others persist for a lifetime? Studies have indicated that recent and remote memories of a similar experience have different qualities and may be supported by different brain circuits. Integrating knowledge from ongoing work, this minisymposium brings together experts studying the topic at different levels of organization, measuring how networks, neurons, and spines change over time, and manipulating neurons and glia to test their involvement in long-term memory.

THEME I: TECHNIQUES

MINISYMPOSIUM: New Observations in Neuroscience Using Superresolution Microscopy CME

Chair: Michihiro Igarashi, MD, PhD Saturday, Nov. 3, 1:30-4 p.m. San Diego Convention Center: 6B

Superresolution microscopy (SM) techniques overcome optical limitations, and several new observations using SM have had revolutionary impact on neuroscience. Several types of SM have been developed (e.g., STED, SIM, PALM, STORM), each with special features. This minisymposium will discuss the new structural and functional information about specific important molecules in neuroscience obtained with SM.

SYMPOSIUM: Local Field Potentials and Deep Brain Stimulation CME

Chair: Cameron C. McIntyre, PhD Sunday, Nov. 4, 1:30–4 p.m. San Diego Convention Center: 6A

This symposium will provide an integrated story of scientifically driven clinical translation in deep brain stimulation (DBS) using local field potentials (LFPs). The talks will span from the basic science and fundamentals of LFP signals, to techniques and strategies for performing the clinical research necessary to define the appropriate LFP biomarkers, to direct application of adaptive DBS algorithms in clinical practice.

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MINISYMPOSIUM: Exposing Neural Dynamics Using Real-Time Control: From Neurons to Human Behavior and Psychopathology CME

Chair: Hanna Keren, PhD Co-Chair: Christoph Zrenner, MD Monday, Nov. 5, 8:30–11 a.m. San Diego Convention Center: 29D

The brain requires interaction with the environment to function. Current experimental and clinical paradigms, however, do not reflect this bidirectional coupling to a reactive environment. This minisymposium will present new experimental approaches to "close the loop" around neural systems, using a real-time system control approach. These methodological advancements will be addressed as they constitute a range of aspects, from computational modeling and engineering to clinical treatments.

MINISYMPOSIUM: Innovative Approaches for Monitoring Neuromodulation With Light CME

Chair: Yulong Li, PhD Co-Chair: Matthew R. Banghart, PhD Monday, Nov. 5, 1:30–4 p.m. San Diego Convention Center: 28A

Neuromodulators are essential signaling molecules that regulate many neural processes through their influence on brain circuits. Monitoring neuromodulator dynamics and untangling their underlying circuits is critical for understanding the function of the brain. This minisymposium will present state-of-theart optical techniques that enable rapid, sensitive, cell-specific monitoring of important neuromodulators and cutting-edge tools for labeling neural circuits involved in neuromodulation.

MINISYMPOSIUM: Whole-Brain Analysis of Cells and Circuits by Tissue Clearing and Light-Sheet Microscopy CME

Chair: Hiroki R. Ueda, MD, PhD Co-Chair: Kwanghun Chung, PhD Tuesday, Nov. 6, 8:30–11 a.m. San Diego Convention Center: 29D

Recent advances in tissue clearing, biomolecular labeling, rapid imaging, and image informatics have allowed neuroscientists to observe the entire brain at a subcellular resolution. Whole brain clearing and imaging is particularly powerful for physiology and pathology of cellular components and their connections in the CNS. This minisymposium will discuss challenges and opportunities in whole-brain analysis of cells and circuits to elucidate brain functions by tissue clearing and light-sheet microscopy.

SYMPOSIUM: The Dynamic Brain: Signatures of Fast Functional Reconfiguration, Their Interpretability, and Clinical Value CME

Chair: Javier Gonzalez-Castillo, PhD Co-Chair: Peter Bandettini, PhD Tuesday, Nov. 6, 1:30–4 p.m. San Diego Convention Center: 6B

Communication across brain regions fluctuates tirelessly as we interact with our environment. Established patterns of functional connectivity (e.g., DMN) often disintegrate in the span of a few minutes, making the concept of networks elusive under such volatile conditions. This symposium will review how to best capture, model, and interpret dynamic patterns of functional connectivity in the human brain. It will then discuss in what ways aberrant dynamic connectivity underlies clinical conditions.

MINISYMPOSIUM: Human Stem Cell Models to Validate Rare and Common Variants Contributing to Neurodevelopmental Disorders CME

Chair: Kristen Brennand, PhD Wednesday, Nov. 7, 8:30–11 a.m. San Diego Convention Center: 6C

As genetic studies identify a growing list of variants underlying neuropsychiatric disease and addiction, unraveling how these risk factors interact within and between the diverse cell types of the brain becomes critical. This minisymposium will discuss recent molecular and phenotypic insight uncovered using hiPSC-derived neurons and glia, with a focus on integrating these findings with datasets generated from consortia-led genomic and postmortem studies of large patient cohorts.

THEME J: HISTORY AND EDUCATION

MINISYMPOSIUM: Telling Stories of Science

Chair: Wendy A. Suzuki, PhD Sunday, Nov. 4, 1:30–4 p.m. San Diego Convention Center: 6E

Now more than ever, it is essential that scientists actively engage with the public. Through storytelling, or the use of a personal narrative, we can bring science to life and improve communication not only with the public but also within the community. In this minisymposium, presentations about the science of storytelling and why and how to tell stories, as well as three powerful personal stories, will demonstrate how storytelling can transform science communication and promote scientific progress.

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2018 Basic-Translational-Clinical Roundtables

New Programming for Neuroscience 2018

This session is intended to serve as a platform where annual meeting attendees can learn about the history as well as the various arguments, research, and viewpoints surrounding a particular hot topic.

DUAL PERSPECTIVES: Gamma

Fumes or Fundamental
 Organizer: Matthew L. Shapiro, PhD
 Monday, Nov. 5, 1–2 p.m.
 San Diego Convention Center:
 Boom 10

Gamma (γ) oscillations (~20–100 Hz) are associated with sensory processing, cognition, memory, and attention. There is general agreement that γ oscillations represent potentially useful markers of local circuit dynamics but major debate about whether the oscillations themselves contribute to brain function. Two researchers, Vikaas Sohal and Jess Cardin, will argue for different sides of this debate. Do oscillations enhance specific functions of cortical circuits, or do they mainly provide insight into ongoing synaptic interactions among cells?

What We Know, What We Don't Know: How Can We Better Understand Alzheimer's Disease to Develop Effective Treatments? CME

Organizer: David M. Holtzman, MD Sunday, Nov. 4, 8:30–11 a.m. San Diego Convention Center: Room 10

Alzheimer's disease (AD) is the most common cause of dementia. Genetics, environment, and lifestyle likely contribute to the development of AD. Recent genetic data suggest a key role for glia in influencing AD. AD pathology can now be detected by assessing biomarkers in living people, and many promising treatments are in development. This session will review an update of the main molecules that play a role in AD and discuss the current understanding of AD, new diagnostic methods, and treatments.

Molecular Therapies for Neurological Diseases CME

Organizer: Frank Bennett, PhD Monday, Nov. 5, 8:30–11 a.m. San Diego Convention Center: Room 10

This roundtable will highlight spinal muscular atrophy (SMA) as an example of the progress being made in translating knowledge of the molecular basis of a disease to therapies that transform how the disease is managed. Topics to be discussed include SMA background, antisense, gene therapy, and small molecule approaches to treat SMA. In addition, lessons learned from these development programs will be discussed, highlighting how they translate to other neurological diseases.

Rapid Antidepressant Action: Synaptic Mechanisms and Clinical Aspects CME

Organizer: Ege T. Kavalali, PhD Monday, Nov. 5, 1:30–4 p.m. San Diego Convention Center: Room 30E

The discovery of rapidly acting antidepressant treatments has generated tremendous enthusiasm. Ketamine, a glutamate receptor antagonist, produces rapid and sustained antidepressant responses in patients. Deep brain stimulation has also shown promise for the treatment of depression. The mechanisms underlying rapid antidepressant responses provide novel perspectives into mood disorders and their treatment. This panel will discuss these novel treatments and the mechanisms underlying their action.

Neuroprosthetic Devices: A Patient's Perspective on Brain Computer Interfaces CME

Organizer: Florian Solzbacher, PhD Tuesday, Nov. 6, 8:30-11 a.m. San Diego Convention Center: Room 10

Patients will talk about their physical limitations and why they participated in time-intensive research for scientific knowledge. They will cover the challenges, breakthroughs, and difficult decisions that come with wearing a neuroprosthetic device. They will also speak to the benefits, despite trial and error methodologies and invasive surgeries, of participating in brain-computer interface (BCI) research, how it has changed their lives, and where they believe researchers should push the future of BCI technologies.

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SfN Preconference Sessions

🙇 Preregistration Required \$ Course Fee 🚇 Professional Development 🖸 Networking 😕 Public Outreach

SfN Preconference Session Fees

SfN preconference sessions are sponsored by the Society and 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.

*Registration is not required for the Meet-the-Expert Series.

Short Courses 1 and 2

(Includes electronic course book and lunch)

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

Short Course 3

Neurobiology of Disease Workshop

FRIDAY, NOV. 2

8 a.m.-5 p.m.

San Diego Convention Center: Room 6A Organizers: Gwenn Garden, MD, PhD; Stuart Lipton, MD, PhD; and John Neumaier, MD, PhD Contact: training@sfn.org
Support contributed by: the National Center for Complementary and Integrative Health, NIH; the National Institute on Alcohol Abuse and Alcoholism, NIH; and The National Institute of Neurological Disorders and Stroke, NIH

This course will address how neuroinflammation contributes to the pathophysiology of nervous system disorders. The workshop will begin with a patient presentation covering the topic of autoimmune encephalitis. The remainder of the lecture will include an introduction to the innate immune system followed by several examples of how immune dysregulation can lead to diverse clinical problems, including autism, psychiatric disorders, traumatic brain injury, pain, and neurodegenerative disorders. In the afternoon, small groups will discuss these concepts further and introduce research approaches using hiPSCderived microglia.

Short Course 1

8 a.m.-6 p.m.

San Diego Convention Center: Room 6B Organizers: Jill Becker, PhD and Jessica Tollkuhn, PhD

Contact: training@sfn.org

This course is designed to enable neuroscientists to incorporate both sexes into their preclinical research. Participants will become familiar with molecular, neural circuit, and behavioral differences between the sexes, with a focus on rodents. Leading experts will review fundamental concepts and the latest discoveries, including the developmental origins of sex differences; gonadal steroid hormones; stress and vulnerability; reward and affective behaviors; and adolescence and puberty. Experimental design considerations and statistical analyses will also be discussed.

Short Course 2

Functional, Structural, and Molecular Imaging, and Big Data Analysis ∠ \$ □ 8 a.m.–6 p.m.

San Diego Convention Center: Room 6C Organizers: Ed Boyden, PhD, and Kwanghun Chung, PhD Contact: training@sfn.org

We are in an era of great innovation, with new molecular reporters, microscope architectures, and strategies for acquiring and analyzing large physiological and anatomical datasets. How can these technologies be deployed in the service of making the highest-impact discoveries in both basic and applied neuroscience? This short course will cover practical

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considerations for how to best combine these cutting-edge tools, with the goal of enabling attendees to select the best technological path for confronting a given scientific question in the fundamental or translational realm.

Short Course 3

Recognizing and Addressing Power Dynamics in Academia 🕰 💲 🛄 1-5:30 p.m.

San Diego Convention Center: Room 11A Organizers: Story Landis, PhD; Marguerite Matthews, PhD; Cheryl Sisk, PhD; Keith Trujillo, PhD; and Elisabeth Van Bockstaele, PhD Contact: training@sfn.org Support contributed by: The National Institute of Neurological Disorders and Stroke, NIH

Understanding power dynamics and how they shape professional interactions is key for promoting healthy and productive learning spaces and workplaces as science becomes more global and collaborative. Through short lectures and case study discussions, attendees will explore the nature of power dynamics

and how intersectionality affects the way relative differences in power are experienced by different people. Attendees will also develop skills to manage power dynamics at work and in the classroom.

SATURDAY, NOV. 3

Meet-the-Expert Series Session 1:

8-9:15 a.m. Hilton Bayfront

Contact: profdev@sfn.org

From Synapses to Behavior: **Uncovering Fundamental Concepts** Guiding the Development and Plasticity of Neural Circuits

Room: Sapphire 410 Carlos Aizenman, PhD Theme A: Development

A common thread in Dr. Aizenman's work is to understand how multiple types of plasticity interact to allow the brain to change and develop while at the same time functioning robustly. Work in diverse model organisms allows us to better compare fundamental principles driving this process in the nervous system.

Here he will discuss current work on Xenopus laevis tadpoles and how this is an ideal preparation for building a holistic approach to study CNS development and plasticity. He will further discuss challenges of working in less popular model organisms and the impact on publishing and funding.

Modeling Spinal Cord Development and Disease With Stem Cell-Derived **Neurons**

Room: Sapphire Ballroom I Hynek Wichterle, PhD Theme A: Development

Support contributed by: MilliporeSigma

Stem cell-derived motor neurons provide a unique opportunity to study molecular processes controlling specification of neuronal identity and to probe pathological processes leading to neurodegeneration in patients with amyotrophic lateral sclerosis. Dr. Wichterle will discuss findings that neuronal genes are controlled by distributed enhancers rather than super-enhancers. He will also outline novel approaches to modeling late-onset degenerative diseases in short-term neuronal cultures.

My Personal Journey From Synapse to Circuit and Behavior

Room: Sapphire 400 Camilla Bellone, PhD Theme B: Neural Excitability,

Synapses, and Glia

Why do we interact with others? When did we start to do so, and how did we go about it? Dr. Bellone started her career working on cellular mechanisms underlying the synaptic function of defined neuronal circuits during postnatal maturation. Research in her laboratory now focuses on the molecular determinants and

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🗠 Preregistration Required \$ Course Fee 🚇 Professional Development 🗅 Networking 😕 Public Outreach

the circuits that control social behavior in physiological and pathological conditions. Dr. Bellone will discuss her career trajectory balancing her interests in synapses, circuits, and behaviors.

Neurophysiology Guiding Recovery After CNS Injury

Room: Sapphire Ballroom M Monica Perez, PhD Theme E: Motor Systems

Dr. Perez's group focuses on understanding how the brain and spinal cord contribute to the control of movement in humans with and without spinal cord injury. Her laboratory investigates transmission in sensory and motor pathways during motor behaviors. A goal of her work is to use this neurophysiological information to develop rehabilitation procedures. In this session, she will discuss her translational science experiences that include building a research program from a basic mechanistic question to design approaches that aim to improve clinical rehabilitation.

From Behavior to Mechanism: The Features and Flaws of Studying Innate and Social Behavior in the Mouse

Room: Sapphire Ballroom E Lisa Stowers, PhD

Theme F: Integrative Physiology

and Behavior

Support contributed by: NeuroLux

Innate behavior is advertised as easy to study, due to its robust performance across and within individuals, and relatively easy to decode, with the expectation that circuits are hardwired. In the mouse, however, no complete innate behavioral circuit has been defined, and mechanistic understanding of the neurons that drive behavior remains largely unknown. Here we will discuss why the promise of innate behavioral circuits has not met its potential, addressing the means and

metrics of analysis, assumptions of circuit coding, and interpreting effects of viral and optogenetic manipulations.

High Channel Count Electrophysiology, Neuropixels, and Beyond: Where Can Technology Take Us?

Room: Sapphire Ballroom A Timothy Harris, PhD

Theme I: Techniques

Dr. Harris initiated and led the development of Neuropixels, a low-cost, high channel count electrophysiology Si probe, the contribution of which is a long, dense array. The technology used for Neuropixels, in addition to alternative paths for high channel count recording sensors and the origin of limits for these devices, will be the focus of this lecture. The usefulness of higher channel count probes, higher density, the ability to cover more tissue, and combinations with light sources, electrical stimulation, and photometry also will be discussed.

Meet-the-Clinician-Expert: How to Make Your Work/Life Relevant

Room: Sapphire Ballroom B Y. Joyce Liao, MD, PhD

Theme J: History and Education

Dr. Liao is a physician-scientist and the director of Neuro-Ophthalmology at Stanford University. She will speak about how she uses her clinical practice as the inspiration for her human and animal research studies. Dr. Liao will also talk about the clinical learning opportunities that trainees at Stanford have that all trainees should have in order to obtain sufficient exposure to clinical neurology or ophthalmology to inform and help guide basic research. Finally, Dr. Liao will discuss how she built her family life at the same time as her academic career.

Meet-the-Expert Series Session 2:

9:30-10:45 a.m. Hilton Bayfront

Contact: profdev@sfn.org

Understanding the Physiology of New and Old Neurons in the Dentate Gyrus

Room: Sapphire 400

Linda Overstreet-Wadiche, PhD Theme B: Neural Excitability,

Synapses, and Glia

Support contributed by: MilliporeSigma

New neurons are continuously generated throughout life in the dentate gyrus. Dr. Overstreet-Wadiche investigates how various cell types in the dentate gyrus, including newly generated neurons and GABAergic interneurons, contribute to the function of this unique brain region. She also uses it to study how neuronal connections are established and extinguished. In this session, Dr. Overstreet-Wadiche will discuss the choices that shaped the trajectory of her research program, how working with your spouse can work, and why training in synaptic and cellular electrophysiology is a great place to start a career in neuroscience.

Molecular Mechanisms Governing the Blood Brain Barrier Function

Room: Sapphire Ballroom I

Chenghua Gu, PhD

Theme C: Neurodegenerative Disorders

and Injury

Support contributed by: MilliporeSigma

The blood brain barrier is the gatekeeper of the CNS and a formidable barrier that prevents most drugs from passing from the bloodstream into the CNS. Dr. Gu's laboratory investigates the fundamental molecular and cellular mechanisms governing the formation and regulation of the blood brain barrier. She will discuss new tools and methods to study the blood brain barrier in vivo.

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Start Making Sense: Neuronal and Molecular Mechanisms of Sensory Signaling

Room: Sapphire Ballroom E Piali Sengupta, PhD Theme D: Sensory Systems

Nearly all environmental cues are filtered by an animal's sensory neurons. These neurons rely on sensory receptors and signaling pathways to detect and discriminate among complex environmental inputs. Dr. Sengupta is a sensory biologist who studies the molecular and neuronal basis of chemoand thermosensation. She is particularly interested in understanding how context and experience modify sensory neuron properties. She will discuss her career as a sensory neuroscientist, her appreciation of exploratory research, and her positive experiences conducting collaborative work.

Meet-the-Clinician-Expert: A Circuit Model for Addiction: Construction and Translation

Room: Sapphire 410 Christian Lüscher, MD

Theme G: Motivation and Emotion

Christian Lüscher is best known for his work on synaptic plasticity underlying the adaptive behavior in rodent models of drug addiction. The work is rooted in the fact that increases in mesolimbic dopamine levels constitute a defining commonality of addictive drugs. The Lüscher lab has systematically pursued the hypothesis that DA modulates glutamate and GABA transmission, which alter circuit function, eventually changing behavior. More recently this work has led to a novel addiction model based on optogenetic self-stimulation of VTA dopamine neurons. Lüscher will also discuss the translational implications, in particular his effort to design deep brain stimulation protocols to treat cocaine addiction.

Early Life Experience Shapes Brain Development: To Understand Primate Brains From Rodent Works

Sapphire Ballroom B
Tomomi Shimogori, PhD
Theme G: Motivation and Emotion

The development of the brain in early postnatal life is extremely sensitive, complex, and crucial to proper function over the life of a person. Currently, most work is conducted in rodents, primarily because there is a large range of genetic tools that may be used to investigate it; however, the human brain is quite different to the mouse one. Tomomi Shimogori's laboratory has been tackling these differences through its work on rodents but is now developing a model in the common marmoset based around the creation of a gene atlas, which will help to fill the gap in knowledge between that of the rodent brain and that of the human brain.

Decision-Making in the Brain, the Lab, and Beyond

Sapphire Ballroom A Anne Churchland, PhD Theme H: Cognition

Dr. Churchland studies the neural mechanisms for perceptual decision-making. Her lab examines behavior in humans and rodents and measures neural activity in rodents. Dr. Churchland is a founding member of the International Brain Laboratory, a group of 21 neuroscientists who aim to uncover neural computations for decision-making. Dr. Churchland prioritizes outreach and scientific communication and maintains a blog, which currently focuses on preprint reviews. She also founded anneslist.net, which highlights women in systems/computational neuroscience.

The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators

Sapphire Ballroom M Michael Lin, MD, PhD Theme I: Techniques

Transmembrane voltage measurements are of primary importance in understanding neuronal function. As a part of a growing community of researchers developing genetically encoded voltage indicators, Dr. Lin will provide a summary of the history and current status of these indicators. Dr. Lin will also discuss how his scientific interests ended up at the interface of chemistry and neuroscience, and the unique opportunities and challenges of being a tool developer in the biological sciences.

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Workshops, Meetings, and Events

\land Preregistration Required \$ Course Fee 🚨 Professional Development 🖸 Networking 😕 Public Outreach

SATURDAY, NOV. 3

NeuroJobs Career Center ☐ ☐ Saturday, Nov. 3-Tuesday, Nov. 6, 8 a.m.-5 p.m.

Wednesday, Nov. 7, 8 a.m.–3 p.m. San Diego Convention Center: Sails Pavilion

Contact: neurojobs@sfn.org

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 be made by credit card only.

Building a Supportive Global Network □ □

9-11 a.m.

San Diego Convention Center: Room 30E Organizer: Emmeline Edwards, PhD Contact: profdev@sfn.org

This workshop will provide a roadmap toward successful career paths and highlight the potential of developing strategic research and personal networks and capitalizing on culturally based support systems to overcome obstacles and challenges at various career transition points. Participants will interact with a panel comprising researchers currently at U.S. institutions but from foreign backgrounds as well as researchers at institutions outside of the U.S.

Improving Your Science: Better Inference, Reproducible Analyses, and the New Publication Landscape

9–11 a.m. 🕮

San Diego Convention Center: Room 31C Organizer: Robert Calin-Jageman, PhD Contact: profdev@sfn.org

This workshop will discuss rigor and reproducibility across the research lifecycle. For better inference, researchers can use an estimation approach (e.g., using effect sizes and confidence intervals) with or instead of p values. For better reproducibility, new tools are becoming available to help document and preserve the analysis workflow. Finally, the editors of eNeuro and JNeurosci will discuss how authors can best meet the challenges of rigor and reproducibility when reporting their work. After the meeting, get the materials here: https://osf.io/5awp4/.

Meeting Mobile App Tutorial 10–11 a.m.

San Diego Convention Center: Room 11 Contact: program@sfn.org

To ensure that attendees are able to take advantage of the newest features of 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 PlayTM App Store and on iTunesTM.

Careers in Making Medicines: Translating Basic Research Into Therapeutics

Noon-2 p.m.

San Diego Convention Center: Room 31C Organizer: Fiona Randall, PhD Contact: profdev@sfn.org

Are you interested in a career in making medicines? This workshop will showcase how basic science and innovation translate into therapeutics and give an overview of career opportunities across academia as well as the biotech and pharma industries. The panel will showcase examples of how basic biology can be turned into a drug discovery program and lead to new medicines for patients. The panelists represent a broad array of career paths and will share their global experiences and provide a forum to discuss opportunities to make crossindustry transitions in your career.

How SfN Helped My Career: Expanding Your Neural Network at the Annual Meeting ☐ ☐

Noon-2 p.m.

San Diego Convention Center: Room 30E Organizer: Robert Burgess, PhD Contact: profdev@sfn.org

SfN's annual meeting not only showcases the latest research but can also help you to build your career. In this interactive workshop, discover how panelists use the meeting to advance their research and their professional relationships, learn how to make the most of your meeting experience by taking advantage of the various networking opportunities available to you, and gain practical experience introducing yourself and your research.

Professional Development Workshop Tracks

Professional Development Workshops are categorized by tracks to help attendees quickly identify the workshops that are of the greatest interest to them:

• Success in Academia • Collaboration & Networking • Career Paths • Neuroscience Education



Graduate School Fair

Saturday, Nov. 3, 1–3 p.m.
Sunday, Nov. 4–Tuesday, Nov. 6,
Noon–2 p.m.
San Diego Convention Center:
Sails Pavilion
Contact: training@sfn.org

Prospective graduate students can meet face-to-face with student advisors, program faculty, and graduate school representatives from over 100 national and international institutions at the Graduate School Fair.

BRAIN AWARENESS CAMPAIGN EVENT

Action and Potential in Outreach, Education, and Research ⊕ * 2:30–4 p.m.

San Diego Convention Center: Room 16 Contact: baw@sfn.org

Celebrate brain awareness by sharing your outreach achievements with Brain

Awareness Week organizers from around the world. Learn how award winners from the Brain Awareness Video Contest, the Faculty for Undergraduate Neuroscience, and the National Science Olympiad are raising brain awareness. Plus, hear from Bill Griesar and Jeff Leake, the founders of NW Noggin, a robust, creative, and largely volunteer-driven nonprofit organization that brings scientists, artists, and students of all ages together to share their expertise and excitement about neuroscience.

• How to Thrive as a Woman in Neuroscience 🕮

3-5 p.m.

San Diego Convention Center: Room 31C Organizer: Melissa Harrington, PhD Contact: profdev@sfn.org

This workshop features a panel of diverse female speakers from a variety of backgrounds, types of institutions, and career stages, and will focus on how women can succeed in their neuroscience careers. The women will speak from personal experience about how to deal with major obstacles that undermine success, including lack of encouragement, stereotypes about what type of people do science, discomfort with competitive environments, marginalization within organizations, bias (both implicit and explicit), and childcare.

Diversity Poster Session ☐ ☐ 6:30–8:30 p.m.

San Diego Convention Center: Hall A Contact: nsp@sfn.org
Support contributed by:
eNeuro and JNeurosci

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

6:30-8:30 p.m.

San Diego Convention Center: Hall A Contact: globalaffairs@sfn.org Support contributed by: eNeuro and JNeuroSci

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

Trainee Professional Development Awards Poster Session ☐ ☐

6:30-8:30 p.m.

San Diego Convention Center: Hall A Contact: awards@sfn.org Support contributed by: eNeuro and JNeuroSci

This poster session and 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: profdev@sfn.org

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 this special networking event.

SUNDAY, NOV. 4

9-11 a.m.

San Diego Convention Center:

Room 11

Organizers: Alice Dallstream;

Barbara Terzic

Contact: profdev@sfn.org

Graduate education can no longer rely on scientific training alone to produce successful PhDs. This workshop will teach faculty and students how to create student-run outreach organizations that engage local communities and teach professional skills, based on a model at the University of Pennsylvania (upennglia. com). Faculty, students, and alumni will teach attendees how to create their own student-run outreach group through a panel and breakout sessions.

• Face-to-Face Networking: Building and Maintaining Professional Relationships ☐ ☐ 9-11 a.m.

San Diego Convention Center: Room 30E

Organizer: Rae Nishi, PhD Contact: profdev@sfn.org

The moderator will give a brief talk about face-to-face networking, after which panel members will introduce themselves and each answer a question from the moderator. The panel will subsequently accept questions from the audience. This will be a highly interactive session.

•Fixing the Leaky Pipeline for Women in Science: Addressing Issues Facing New Moms 🚨 🗗

San Diego Convention Center: Room 31C

Organizer: Jamie Krueger Contact: profdev@sfn.org

This workshop addresses women in science who have chosen to begin their families and their careers in parallel. Graduate students, postdoctoral fellows, and early-career faculty will discuss their experiences as mothers in STEM. The panel will address potential challenges of juggling family and work at each academic career level. Participants will be encouraged to network with other parents in the field, share resources, and discuss solutions to challenges they may face as they progress in their academic careers.

Career Planning and Explorations for Biomedical PhD Scientists and Physician-Scientists (MD/PhD) □

Noon-2 p.m.

San Diego Convention Center: Room 31C Organizer: Nancy Schwartz, PhD Contact: profdev@sfn.org

Participants in this session will be introduced to the wide range of careers in neuroscience open to graduates of PhD and MD/PhD programs. Exploration of options, key aspects in training that are required to be competitive in multiple careers, finding resources, and acquiring professional skills while in graduate school or as a postdoctoral fellow, as well as transitioning between jobs and careers in different sectors, will be emphasized. This workshop will be beneficial for early-career neuroscientists from all backgrounds.

Professional Development Workshop Tracks

Professional Development Workshops are categorized by tracks to help attendees quickly identify the workshops that are of the greatest interest to them:

• Success in Academia • Collaboration & Networking • Career Paths • Neuroscience Education

Cultivating Leadership in Multidisciplinary Research: Bridging Gaps Across Campuses, Countries, and Continents □

Noon-2 p.m.

San Diego Convention Center: Room 30E Organizer: Sadye Paez, PhD Contact: profdev@sfn.org

The current trend of collaborative research highlights the need for developing leadership in multidisciplinary settings and cultivating agility in working across disciplines. This workshop will highlight common problems that occur during large-scale collaboration and discuss how to effectively shift from a traditional hierarchical command-and-control model to a team-centric model that fosters a collective information-sharing culture. This shift promotes a landscape of accountability and performance across disciplines and drives engagement and goal alignment.

SOCIAL ISSUES ROUNDTABLE

Solitary Confinement: Psychological and Neurobiological Insights Into Isolation

1-3 p.m.

San Diego Convention Center: Room 10 Organizer: Michael J. Zigmond, PhD Contact: baw@sfn.org

As social animals, our health depends on interactions with others, yet millions suffer from chronic isolation, of which solitary confinement is the extreme example. The number of people held in solitary confinement varies widely across the world but is nowhere greater than in the U.S., where some 80,000 spend days and even years experiencing absolutely no physical contact with others. We will discuss the implications of this lack of human interaction with

a neurobiologist, a psychologist, a physician, a lawyer, and an individual held in solitary confinement for 29 years.

NEUROSCIENCE DEPARTMENTS

AND PROGRAMS WORKSHOP

Breaking Through: Pathways to Independence for Early Career Neuroscientists

2:30-5 p.m.

San Diego Convention Center: Room 30E Organizers: Rosalind Segal, MD, PhD; Elisabeth J. Van Bockstaele, PhD Contact: training@sfn.org

The National Academies report *The Next Generation of Biomedical and Behavioral Sciences Researchers:*Breaking Through outlines programs and policies that can reduce barriers to, and create more opportunities for, successful transitions to independent research careers. The NDP workshop will focus on aspects of the report that relate to key strategies for ensuring the successful launch and sustainment of careers in the biomedical sciences, with a particular focus on postdoctoral training programs in neuroscience.

How a Journal Handles Your Paper □

3-5 p.m.

San Diego Convention Center: Room 31C Organizer: J. Paul Bolam, PhD Contact: profdev@sfn.org

The most important skill a scientist needs, after the skills needed to execute a study, is the ability to report his or her scientific endeavors in writing. The aim of this workshop, presented by the editors of four international neuroscience journals, is to inform on what happens to a paper once the "submit" button is pressed.

The presenters will discuss what editors consider when deciding whether to review a paper, what is expected from reviewers, the importance of contributing to the peer review process, and ethical and reproducibility issues surrounding publishing scientific papers.

MONDAY, NOV. 5

• FAIR Neuroscience: Sharing and Collaborating for Reproducible Neuroscience \$\to\$ 9-11 a.m.

San Diego Convention Center: Room 31C Organizer: Linda Lanyon, PhD Contact: profdev@sfn.org

Future neuroscience will need to be FAIR, open, and citeable. How do we get there, and are there already good ways to do FAIR science today? Speakers representing tool development initiatives, publishing, and data science will present solutions for sharing, publishing, and collaborating in neuroscience.

NeuroJobs Career Center Workshop: Best Practices for Filling Your Open Position With the Perfect Candidate

10-10:30 a.m.

San Diego Convention Center: Room 11

The SfN NeuroJobs Career Center is a powerful recruiting tool. During this workshop, a career center representative will provide a brief tutorial on the new and improved NeuroJobs Career Center platform and share tips and tricks you can use to write effective job postings and boost your candidate search. The workshop will conclude with an audience Q&A.

•Teaching Neuroscience: Emotion and Learning 🕮

9-11 a.m.

San Diego Convention Center: Room 30E Organizer: Richard Olivo, PhD Contact: profdev@sfn.org

Although we often think of learning as a neutral cognitive process, emotion has strong effects on students' ability to learn and remember. This workshop will review some of the basic neuroscience that connects emotion and memory, examine the role of emotion in students' learning, discuss practical strategies for creating an emotionally productive classroom, and invite a clinician to speak about disabling anxiety that derails students' academic progress.



ANIMALS IN RESEARCH PANEL

Gaining Public Support for Animal Research: A Proposal for Openness

Noon-2 p.m.

San Diego Convention Center: Room 11 Organizer: Mar Sanchez, PhD Contact: advocacy@sfn.org Support contributed by: The National Primate Research Centers

A new wave of openness in communication with the public is emerging among animal researchers. Open communication has successfully garnered public support by improving public trust and perception of animal research. Through analyzing the resurgence of support related to transparency initiatives, this panel will teach effective ways for researchers to communicate with the public and generate a conversation around the strategies they can employ to foster public support in their local communities.

SfN CHAPTERS WORKSHOP AND RECEPTION

Leveraging Communities and Resources to Increase Your Chapter's Impact and Reach □*

6:45-8:45 p.m.

Marriott Marquis: Ballroom A Contact: chapters@sfn.org

SfN chapters are organizing innovative events each year to increase knowledge and awareness of the brain within their membership ranks and their local communities. Many of these activities are funded through SfN chapter grants. In this workshop, experienced chapter leaders will share best practices in an informal, roundtable format on topics such as how to run successful events, build local partnerships, and collaborate with other chapters. New chapter leaders or those considering starting a chapter are especially encouraged to attend this networking event.

TUESDAY, NOV. 6

Celebration of Women in Neuroscience Luncheon △□

Noon-2 p.m.

Hilton Bayfront: Sapphire CD Contact: cwin@sfn.org

The annual Celebration of Women in Neuroscience Luncheon honors female leaders in neuroscience. During this year's luncheon, Courtney Miller, PhD, will moderate a panel discussion on the topic of effective self-promotion during career transitions. The panel will feature Yasmin Hurd, PhD; Susan Magsamen, MAS; and Emilie Marcus, PhD. Space is limited and advance registration is required. For more information and to register, visit SfN.org/cwinrsvp.

PUBLIC ADVOCACY FORUM

Advocacy in Four Dimensions *****

2-3:30 p.m.

San Diego Convention Center: Room 10 Organizer: William J. Martin, PhD Contact: advocacy@sfn.org

It is vital to mobilize the next generation of scientists and provide them with a broad perspective of advocacy outlets. This panel will provide diverse advocacy perspectives, both inside and outside of the scientific community. Attendees will gain a better understanding of how advocacy occurs on different levels, across career stages, and within various industries and learn the tools necessary to become active, sustained advocates.

SfN Members' Business Meeting ☐

6:45-7:30 p.m.

San Diego Convention Center: Room 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.

Graduate Student Reception 🗅

8:30-11:30 p.m.

Hilton Bayfront: Sapphire CD Contact: meetings@sfn.org Support contributed by: eNeuro and JNeurosci

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



SfN-Sponsored Socials

All SfN-Sponsored Socials will be held in the Marriott Marquis San Diego Marina. These events are open to all registered annual meeting attendees.

SUNDAY, NOVEMBER 4, 6:45–8:45 P.M.

Autonomic and Respiratory Function Social

Purely Social

Marriott Marquis: Grand Ballroom 10 Chair: Gary C. Sieck, PhD

Co-Chair: Christopher A. Del Negro, PhD

This social brings together established and early stage investigators and trainees, all of whom have an interest in research related to autonomic control or respiratory neurobiology. Senior scientists will facilitate discussions and networking, especially among trainees and early stage investigators.

Breaking Barriers for Young Women in Science Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 8 Chair: Courtney A. Miller, PhD Co-Chair: Ghazaleh Sadri-Vakili, PhD

This social is for the up-and-coming generation of female scientists. Attendees will have the opportunity to interact with mentors from a variety of fields and career stages on a oneon-one basis, to ask far-ranging questions in a relaxed environment that overcomes typical barriers younger scientists can feel in approaching senior scientists. Topics of discussion often include work/life balance, selfpromotion, publishing, funding, gender disparity, and implicit bias. The "Social Special Guests" represent a few of the many mentors that will be there to chat and answer your questions.

Cajal Club Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 3 and 4 Chair: Oscar Marin, PhD

Co-Chair: Arturo Alvarez-Buylla, PhD

The neocortex of different mammalian species varies widely in shape and size. In the past, progress on the organization and development of the neocortex has been largely based on cellular and molecular studies in rodents, but recent work has begun to illuminate the development of the human neocortex. What are the defining features of the human cortex? At this year's Cajal Club Social, Debra Silver (Duke) and Nenad Sestan (Yale) will present their perspective and recent work on this theme. Annual awards (Krieg Cortical Kudos, John Wiley Palay Award, and Best Paper on Brain Structure and Function) will be presented.

Faculty for Undergraduate Neuroscience (FUN) Poster Session and Social

Social With Brief Presentation

Marriott Marquis: Grand Ballrooms 5, 6, and 7

Chair: Leah A. Chase, PhD Co-Chair: Hewlet G. McFarlane, PhD

Socialize and exchange ideas with those interested in undergraduate neuroscience research and education. Undergraduates will present their research; Faculty for Undergraduate Neuroscience (FUN) Student Travel Awards and Educator of the Year Awards will also be presented. See the FUN website (www.funfaculty.org) for travel

award information and to register to present a poster at the FUN Social.

Hearing and Balance Social

Social With Brief Presentation
Marriott Marquis: Grand Ballroom 2

Chair: Stephen V. David, PhD Co-Chair: David Schneider, PhD

The Hearing and Balance Social has been a cherished tradition at SfN for more than 20 years. It serves primarily as a social/networking event, but will also typically include presentations on topics of broad interest to the warm and tightly knit auditory and vestibular (8th nerve) community. This year will feature a lighthearted debate with four panelists about the relative merits of studying audition at different levels, from the cochlea to the cortex.

Neural Oscillations Social

Purely Social

Marriott Marquis: San Diego Grand

Ballroom 12

Chair: Jonas Obleser, PhD Co-Chair: Saskia Haegens, PhD

A social for all neuroscientists deeply in love with all aspects oscillatory about brain function. Neural oscillations have been ubiquitous at SfN for many years. However, more light-hearted, out-of-the-box exchange over what may or may not unite the diverse fields that study oscillatory changes in excitability, from membrane potentials to behavioral corollaries, has been missing. Join us in meeting, greeting, and quizzing random people who love neural phase just as much as you do.



Neuroethics Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 1 Chair: Elba Serrano, PhD Co-Chair: Marcello Ienca, PhD

Join fellow neuroscientists at this informal gathering to socialize, network, and exchange ideas about the ethical implications of neuroscience research and education. A short panel discussion launches the evening by highlighting hot topics and ways to engage in the field of neuroethics. An icebreaker will promote networking among attendees during the informal portion of the social, intended to encourage development of new collaborations and increase participation by next generation researchers.

Neuroethology/Invertebrate Neurobiology Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 13 Chair: Wolfgang Stein, PhD Co-Chair: Carola Staedele, PhD

Join us to celebrate neuroethology and the role the nervous system plays in producing behaviors. All members of the neuroscience community are welcome, in particular those who work on the neural basis of behavior. If you are looking for an opportunity to discuss new and interesting concepts and/or are looking to meet old friends and make new ones, this social is for you. Postdocs and students are encouraged to drop in for socializing and networking.

Spinal Cord Injury Social Purely Social

Marriott Marquis: Grand Ballroom 11 Chair: Dana McTigue, PhD Co-Chair: Michele Basso, PhD

This social will provide an opportunity for researchers interested in spinal cord injury to meet, mingle, and network.

MONDAY, NOVEMBER 5, 6:45–8:45 P.M Behavioral Neuroendocrinology Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 5 Chair: Rae Silver, PhD Co-Chair: Colin Saldanha. PhD

This is a very successful social that brings together members of the Society for Neuroscience with a focus on the neuroendocrine regulation of behavior. Research in this area covers a broad range of topics from development, neural networks, systems, and clinical neuroscience and attracts a diverse set of attendees including students and senior researchers. This is the only opportunity for this group to convene at the SfN meeting. It is also an occasion to announce several awards.

Cerebellum Social Social With Brief Presentation

Marriott Marquis: Grand Ballroom 9

Chair: Roy Sillitoe, PhD

Co-Chair: Alexandra Joyner, PhD

The Cerebellum Social will bring together researchers and clinicians from all areas of cerebellar neuroscience. The social will facilitate further collaborations between principal investigators and provide networking and career opportunities for students and postdoctoral fellows. The event will be predominantly a social gathering, and it will also provide opportunities to discuss future events such as SfN symposia and minisymposia.

Down Syndrome: From Neurobiology to Treatment Social Social With Brief Presentation

Marriott Marquis: Grand Ballroom 2 Chair: William Mobley, PhD Co-Chair: Elizabeth Fisher, PhD

The Down syndrome research community is growing rapidly, especially among those whose focus is the neurobiology of this disorder. The social will facilitate discussion of exciting new insight into the genes and mechanisms responsible for changes in brain function. By bringing together established and young investigators, it will encourage networking and highlight recent findings from selected young investigators.

Epilepsy Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 12

Chair: Amy Brewster, PhD Co-Chair: Mark Beenhakker, PhD

Epilepsy research is interesting, challenging, and highly diverse. We welcome all those with an interest in epilepsy to join us for an evening of social networking with leading experts and with representatives from the National Institutes of Health, the American Epilepsy Society, and Citizens United for Research in Epilepsy. This is a great opportunity for all to engage in productive discussions, establish collaborations, or simply enjoy networking in a comfortable and fun social setting.

The Hippocampus Social **Purely Social**

Marriott Marquis: Grand Ballroom 8 Chair: Michael Yassa, PhD Co-Chair: Elizabeth Buffalo, PhD

The Hippocampus Social continues a decades-long tradition at the SfN annual meeting. It will gather the large community of hippocampus scientists under one roof to get to know one another. It will also provide important professional development opportunities for younger neuroscientists to casually interact with luminaries in the field.

Ingestive Behavior Social Purely Social

Marriott Marquis: Grand Ballroom 1 Chair: Suzanne Appleyard, PhD Co-Chair: Mitchell Roitman, PhD

After a day enjoying SfN's intellectual buffet, come socialize with your colleagues working in areas of neuroscience related to control of eating



and drinking! There will be colleagues ranging from established investigators to students and postdoctoral fellows studying ingestive behavior and related areas of neuroscience, in diverse animals, from invertebrates to rodents and humans. Plan to attend, whether for a few hours or a few minutes, to mix, mingle, enjoy a drink, and organize collaborations.

The Marmoset Social

Social With Brief Presentation

Marriott Marguis: San Diego Grand

Ballroom 3 and 4

Chair: Alessandra Angelucci, MD, PhD Co-Chair: Marcello Rosa, PhD

The rapid adoption of the marmoset as an animal model in neuroscience has created a high demand for venues to facilitate interaction, exchange practical information, and form new collaborations. In this event, a panel of investigators starting or considering a transition to marmoset research will ask questions to a panel of established marmoset researchers. This initial 30-minute discussion will be followed by time for the audience to ask questions to the panelists and for free social and scientific interaction.

Migraine Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 6 Chair: Frederick Godley, MD Co-Chair: Julie Kauer, PhD

There will be a special screening of Out of My Head, a 60-minute documentary that follows a young woman falling down the rabbit hole of migraine. Following the film, there will be a panel discussion that will include the award-winning film creator Jacki Ochs; Michael Oshinsky, PhD (NINDS): Christopher Moore, PhD: Frederick Godley, MD; Daniela Pietrobon, PhD; and Julie Kauer, PhD. We expect that the provocative film will raise many questions about this complex disease.

Music Social

Purely Social

Marriott Marquis: Bayside Pavilion Chair: Emmeline Edwards, PhD Co-Chair: William Pearce, PhD

Please join your SfN friends in a special evening of fun and music. This year's program will focus on new performances and musical diversity. Members wanting to perform should provide information describing their

musical selection(s), accompaniment needs, and performance history to Robert Riddle (riddler@nih.gov) by October 15. Links to web resources or files (Soundcloud, Youtube, MP3s, etc.) are encouraged but not required. Performances are approximately 10 minutes. Some instruments will be available on-site.

Psychopharmacology Social Purely Social

Marriott Marquis: Grand Ballroom 10

and 11

Chair: Stan Floresco, PhD Co-Chair: Jared Young, PhD

Please join us as we socialize with people who know a thing or two about mind-altering substances. Your hosts will enjoy enabling SfN attendees to catch up with colleagues, meet others in the field, loosen up with a refreshing beverage after a hard day of science, and groove to a psychopharmacologically inspired playlist. Intermingling between more senior scientists and trainees is strongly encouraged, and all are welcome.

TUESDAY, NOVEMBER 6, 6:45–8:45 P.M.

Alzheimer's and Related Dementias Social

Purely Social

Marriott Marquis: Grand Ballroom 8 Chair: Laura Blair, PhD Co-Chair: Joe Abisambra, PhD

Current and future Alzheimer's disease or related dementia researchers, please join us for an inclusive, purely social gathering that will bring together experts, early career investigators, postdocs, and students interested in Alzheimer's disease and related dementias research. Stop by and mingle. Reconnect with old friends and make new ones. All are welcome to join!



Art and Neuroscience Social Social With Brief Presentation

Marriott Marquis: Grand Ballroom 5 Chair: Paula Croxson, PhD Co-Chair: Christian Lüscher, MD

This social will bring together SfN members who exercise their passion and creativity through art. As part of the social, we will host a Neuroscience Art Competition, and encourage attendees to submit their own artwork. It will feature a display of the submitted artwork, which will be judged by a panel of diverse neuroscience artists. There will be a brief ceremony for the winning pieces in each category. Afterwards, you are free to mingle and enjoy the art!

Computational Neuroscience Social

Purely Social

Marriott Marquis: Grand Ballroom 12 Chair: Alex Williams

Co-Chair: Kiah Hardcastle

This social, intended to bring together neuroscientists working on all aspects of computational neuroscience, has grown immensely popular over the years. The social is an opportunity for attendees

to network with other computational neuroscientists and to exchange notes on the latest methods and studies. It's also a chance to learn about opportunities to further your computational knowledge, on topics such as summer schools and graduate programs.

Eye Movements Social Social With Brief Presentation

Marriott Marquis: Grand Ballroom 4
Chair: Jeffrey Schall, PhD

Co-Chair: Miriam Spering, PhD

This social will continue the longrunning social for the community who investigates eye movements. This social will offer the opportunity for networking among senior and junior faculty, as well as trainees.

Global Neuroscience Social Social With Brief Presentation

Marriott Marquis: Grand Ballroom 13 Chair: Noriko Osumi, PhD Co-Chair: Kei Igarashi, PhD

Different countries have different ways of conducting neuroscience research. Studying neuroscience in foreign countries will give you a new perspective

in your science career. This social will focus on allowing neuroscientists from American, European, and Asian countries to mingle and in this way acquire neuroscience experience in new countries. Several Pls with their own lab in foreign countries will give presentations in which they will discuss their experiences.

Mechanosensation Social

Purely Social

Marriott Marquis: Grand Ballroom 3 Chair: Ellen A. Lumpkin, PhD Co-Chair: Ardem Patapoutian, PhD

It's time for scientists interested in mechanosensory systems to get in touch! The social aims to bring together neurobiologists interested in somatosensensation, interoception, and auditory/vestibular systems from invertebrate to mammalian systems. This social will be a relaxed forum to connect old friends and those new to the field. We hope to discuss recent progress in areas of the field ranging from molecules and cells to circuits. Postdocs and students are especially encouraged to attend.

Neuroendocrinology Social Purely Social

Marriott Marquis: Grand Ballroom 6 Chair: Jessica Santollo, PhD Co-Chair: Deena Walker, PhD

Come and enjoy an evening of socializing and networking with your fellow neuroendocrinologists and be entertained with a modified version of The Newlywed Game, "Know Your Neuroendocrinologist." Trainees and mentors will display their knowledge of each other's careers, interests, and major discoveries in the field of neuroendocrinology. If that isn't exciting enough, this social is a great place to

mingle with others in the field and is an excellent networking opportunity for trainees.

Neuroinformatics Social

Social With Brief Presentation

Marriott Marquis: Grand Ballroom 11 Chair: David Kennedy, PhD Co-Chair: Jeffrey Grethe, MD, PhD

Come and exchange ideas with others interested in neuroscience data management at the Neuroinformatics Social! Find new collaborators who have datasets and resources you need, recruit new users for your tools, or join up to solve standards and interoperability issues with scientists and developers in electrophysiology, neuroimaging, brain mapping, and computational neuroscience. Don't miss this event where we'll discuss everything neuroinformagical!

Neuron-Glia Interactions Social Social With Brief Presentation

Marriott Marquis: Grand Ballroom 9 Chair: R. Douglas Fields, PhD Co-Chair: Alfonso Araque, PhD

A purely social opportunity to interact with current and future leaders in the field of neuron-glia interactions. The evening will open with three-minute presentations by authorities speaking about their favorite model organism for glial research. The rest of the evening will be devoted to meeting and interacting informally with students, faculty, and colleagues. Helmut Kettenmann: Early historical models used in glial studies; Kelly Monk: Zebrafish; Mary Logan: *Drosophila*; Shai Shaham: *C. elegans*; Bruce Ransom.

Open-Source Technology Social Purely Social

Marriott Marquis: Grand Ballroom 10 Chair: Mark Laubach, PhD Co-Chair: Alexxai Kravitz, PhD

Socialize and exchange ideas with researchers developing and using open-source tools for neuroscience research. Join us for an evening of fun, and you might even find a new collaborator for your open-source projects!

Pain and Itch Social

Purely Social

Marriott Marquis: Grand Ballroom 1 and 2

Chair: Jennifer DeBerry, PhD Co-Chair: Alfonso Romero-Sandoval, MD, PhD

Gather with fellow "pain and itch" neuroscientists for an opportunity to unwind and exchange ideas with peers. Everyone is invited to this purely social gathering, where established leaders and early career investigators can reconnect with old friends and make new ones.



JNeurosci.org



eNeuro.org

SfN's journals
work together to
publish research
that promotes
discovery,
innovation,
and rigor in
neuroscience.

The Journal editors will be at the booth #2113, come stop by to learn more.



Satellite Events and Non-SfN Socials

Full descriptions and the latest details on these satellite events and socials not sponsored or organized by SfN are available online at SfN.org/satellites. These events are also available in the Neuroscience Meeting Planner (NMP), which is accessible at SfN.org/nmp, and in the meeting mobile app, available for download on Apple and Android mobile devices.

SPONSOR KEY:	
Commercial	1
University / Non-Profit	2
Individual / Group	3

TITLE	TIME	MORE INFO	LOCATION	ROOM	KEY
WEDNESDAY, OCTOBER 31					
51st Annual Meeting International Society for Developmental Psychobiology (ISDP)	8 a.m.–8 p.m.	www.isdp.org	Catamaran Resort Hotel		2
BrightFocus Alzheimer's Fast Track	7 a.m7 p.m.	ksummers@brightfocus.org	Catamaran Resort Hotel		2
THURSDAY, NOVEMBER 1					
5th RNA Metabolism in Neurological Disease Conference	9 a.m6 p.m.	karen@bluezulumarketing.co.uk	Paradise Point, San Diego		3
51st Annual Meeting International Society for Developmental Psychobiology (ISDP)	8 a.m5:30 p.m.	www.isdp.org	Catamaran Resort Hotel		2
17th Annual Molecular and Cellular Cognition Society Reception/Poster Session	6:30-9:30 p.m.	ted-abel@uiowa.edu	USS Midway Museum/Navy Pier	Hanger Bays 1 & 2	2
2018 International Neuroethics Society Annual Meeting	10 a.m6 p.m.	kgraham@neuroethicssociety.org	Central Public Library	Shiley Suite, 330 Park Blvd.	2
2018 International Neuroethics Society Poster Session	5–7 p.m.	kgraham@neuroethicssociety.org	Central Public Library	Shiley Suite, 330 Park Blvd.	2
American Society of Neurorehabilitation Annual Meeting	7 a.m7 p.m.	info@asnr.com	Hilton San Diego Harborplace		2
Barrels XXXI	8 a.m8 p.m.	robert.sachdev@charite.de	University of California Riverside		2
BrightFocus Alzheimer's Fast Track	7 a.m7 p.m.	ksummers@brightfocus.org	Catamaran Resort Hotel		2
J.B. Johnston Club for Evolutionary Neuroscience	7 a.m7:30 p.m.	jbjclub1980@gmail.com	Horton Grand Hotel		2
Motor Control, Neural Plasticity, & Brain-Computer Interfaces: A Symposium in Honor of Eberhard Fetz	9 a.m5 p.m.	perl@uw.edu	Omni Hotel		2
The IEEE Brain Initiative Workshop on Advanced NeuroTechnologies	1–7 p.m.	makay@uh.edu	Hilton Bayfront	Indigo 204	2
FRIDAY, NOVEMBER 2					
5th RNA Metabolism in Neurological Disease Conference	9 a.m6 p.m.	karen@bluezulumarketing.co.uk	Paradise Point, San Diego		2
51st Annual Meeting International Society for Developmental Psychobiology (ISDP)	8 a.m5 p.m.	www.isdp.org	Catamaran Resort Hotel		2
51st International Society for Developmental Psychobiology (ISDP) Poster Session	5–7 p.m.	www.isdp.org	Hilton Bayfront	Indigo 202	2
14th Intl. Workshop on Advances in Electrocorticography	8 a.m5 p.m.	schalk@wadsworth.org	Grand Hyatt	Mission Beach A-C	2

TITLE	TIME	MORE INFO	LOCATION	ROOM	KEY
17th Annual Molecular and Cellular Cognition Society Symposium	9 a.m.–5 p.m.	ted-abel@uiowa.edu	San Diego Convention Center	31ABC	3
2018 International Neuroethics Society Annual Meeting	8 a.m.–7 p.m.	kgraham@neuroethicssociety.org	Central Public Library	Shiley Suite, 330 Park Blvd.	2
Advances in Motor Control and Motor Learning	1–7 p.m.	mas@seas.harvard.edu	San Diego Convention Center	32A	2
American Society of Neurorehabilitation Annual Meeting	7 a.m.–7 p.m.	info@asnr.com	Hilton San Diego Harborplace		2
Annual NIDA-NIAAA Frontiers in Addiction Research Mini-Convention	8:30 a.m5:30 p.m.	rsorense@mail.nih.gov	San Diego Convention Center	7AB	2
APAN-Advances and Perspectives in Auditory Neuroscience	8 a.m6 p.m.	ycohen@pennmedicine.upenn.edu	Wyndham San Diego Bayside		1
Barrels XXXI	8 a.m.–5 p.m.	robert.sachdev@charite.de	University of California Riverside		2
Birdsong 8	8 a.m.–8 p.m.	tgentner@ucsd.edu	UC San Diego Campus, 9500 Gilman Dr. MC0436	Atkinson Hall, 5th Floor La Jolla CA	2
BrightFocus Alzheimer's Fast Track	7 a.m.–5 p.m.	ksummers@brightfocus.org	Catamaran Resort Hotel		2
J.B. Johnston Club for Evolutionary Neuroscience	7 a.m.–9 p.m.	jbjclub1980@gmail.com	Horton Grand Hotel		2
Neuroscience of Movement Disorders	7:30 a.m5:30 p.m.	tyacoubian@uabmc.edu	Hilton Bayfront	Sapphire Ballroom P	2
S4SN 2018 Annual Meeting	7 a.m.–8 p.m.	kbosch@taramillerevents.com	Hilton Bayfront	Sapphire Ballroom IJMN	2
Satellite Meeting of Comparative Cognition Society	8 a.m6 p.m.	olga.lazareva@drake.edu	Grand Hyatt	Promenade AB	2
Spinal Cord Plasticity in Motor Control	8:30 a.m6 p.m.	thompsai@musc.edu	Hilton Bayfront	Sapphire Ballroom CD	2
The IEEE Brain Initiative Workshop on Advanced NeuroTechnologies	9 a.m5 p.m.	makay@uh.edu	Hilton Bayfront	Indigo 204	2
Using NEURON to Model Cells and Networks	9 a.m5 p.m.	www.neuron.yale.edu/neuron/ courses	neuron.yale.edu/neuron/courses		2
Vision/Action: A Symposium in Honor of Lance Optican	9 a.m6:30 p.m.	quaiac@nei.nih.gov	Marriott Marquis	Marina Ballroom G	2
SATURDAY, NOVEMBER 3					
Chinese Neuroscientists Social	6:30-10 p.m.	wu.longjun@mayo.edu	Grand Hyatt	Harbor Ballroom GHI	3
Exploring Mouse and Human Cortical Cells Using the Allen Cell Types Database	8–10:30 a.m.	Kaitlync@alleninstitute.org	Hilton Bayfront	Sapphire Ballroom C	2
Exploring the Allen Brain Observatory: An Open Database of Cortical Cell Physiology	8–10:30 a.m.	Kaitlync@alleninstitute.org	Hilton Bayfront	Sapphire Ballroom D	2
Friends of Case Western Reserve University and Cleveland Clinic Social	6:30-8:30 p.m.	cmiller@hb.edu	Grand Hyatt	Harbor Ballroom F	2
FTD Social	6:30-8:30 p.m.	dniehoff@theaftd.org	Grand Hyatt	Harbor Ballroom D	2
g.tec Brain Computer Interface Workshop	6:30-8:30 p.m.	guger@gtec.at	San Diego Convention Center	10	1
High Performance Computing (HPC) Resources for Parallel Simulation and Data Analysis: NSG and HPAC	9–10:30 a.m.	www.nsgportal.org/workshop.html	nsgportal.org/workshop.html		2

TITLE	TIME	MORE INFO	LOCATION	ROOM	KEY
ocalization Microscopy in Neuroscience: Understanding Neuronal Structure to the Nano Level	6:30–10 p.m.	Jessica.celentano@bruker.com	Grand Hyatt	Harbor Ballroom ABC	1
Jpdates for Migraine Management	8:30–10 a.m.	plarson@rockpointe.com	Marriott Marquis	Marriott Grand Ballroom	3
SUNDAY, NOVEMBER 4					
Arab Neuroscientists Social	6:30-8:30 p.m.	www.arabneuroscientists.org	San Diego Convention Center	26B	3
ASPET's Neuropharmacology Division Social	6:30-8:30 p.m.	styliani-anna.tsirka@stonybrook. edu	House of Blues in San Diego		2
Boston University, Graduate Neuroscience Social	7–10 p.m.	sgrasso@bu.edu	Hilton Bayfront	Indigo 202AB	2
Celebrating the Life and Legacy of Ben Barres	7–9 p.m.	brad.zuchero@gmail.com	Marriott Marquis	Rancho Santa Fe 1-3	2
Outch Nite 2018	7–10 p.m.	guus.smit@cncr.vu.nl	Grand Hyatt	Harbor Ballroom D	2
ENIGMA Addiction Working Group Meeting	6:30-8:30 p.m.	msmackey@uvm.edu	Hilton Bayfront	Aqua Salon EF	2
Ernst Strüngmann Forum Social	6:30-9:30 p.m.	lupp@esforum.de	Marriott Marquis	Torrey Pines	2
FENS-Kavli Scholar's Social Event	7:30-9:30 p.m.	hangyab@koki.hu	Grand Hyatt	Harbor Ballroom B	2
g.tec RecoveriX and MindBEAGLE Workshop	6:30-8:30 p.m.	guger@gtec.at	San Diego Convention Center	10	1
nternational Behavioral and Neuroscience Society (IBNS) Social	6:30-8:30 p.m.	ibns@ibnsconnect.org	Grand Hyatt	Harbor Ballroom A	2
Mayo Clinic Alumni Association Reception	6:30-8:30 p.m.	benedett.whitney@mayo.edu	Hilton Bayfront	Aqua Salon AB	2
MilliporeSigma Presents: 6th Annual Satellite Symposium on Neuroinflammation, Degeneration, and Disease	6:30-8:30 p.m.	brian.snead@emdmillipore.com	Grand Hyatt	Harbor Ballroom HI	3
Neuroimmunology Social	6:30-8:30 p.m.	sbilbo@mgh.harvard.edu	Grand Hyatt	Harbor Ballroom G	2
New Techniques in Electro-and Optophysiology	6:30-8:30 p.m.	margaret@alascience.com	San Diego Convention Center	4	1
Stanford Neurosciences Reception	6:30-8:30 p.m.	erniefok@stanford.edu	Hilton Bayfront	Aqua Salon C	2
Supercharge your Patch-Clamp Data Acquisition and Analysis with the NEW pCLAMP 11 Software	6:30-8:00 p.m.	jared.chapa@moldev.com	Grand Hyatt	Harbor Ballroom C	1
The University of Chicago Neuroscience Annual Social	6:30-8:30 p.m.	neurograd@uchicago.edu	Grand Hyatt	Harbor Ballroom E	2
MONDAY, NOVEMBER 5					
8th Annual Mixer of the International Society for Serotonin Research	6:30-8:30 p.m.	berg@uthscsa.edu	Strider's, 100 J Street		2
15th Annual Christopher Reeve "Hot Topics" in Stem Cell Biology	6:30-9:30 p.m.	towens@sbpdiscovery.org	San Diego Convention Center	6A	2
4th Thomas RECORDING GmbH Multichannel Recording Workshop	6:30-8:30 p.m.	info@thomasrecording.com	Hilton Bayfront	Sapphire 410	1

TITLE	TIME	MORE INFO	LOCATION	ROOM	KEY
2018 Taiwan Night	6:30-9 p.m.	yihungchen@mail.cmu.edu.tw	Hilton Bayfront	Sapphire Ballroom CDGH	2
Alzheimer's Association Reception	6:30-8:30 p.m.	Meredith.McNeil@alz.org	Hilton Bayfront	Indigo 202AB	3
Association of Korean Neuroscientists: Annual Meeting and Social	6:30-9:30 p.m.	leed1@ohio.edu	Horton Grand Hotel	311 Island Avenue, San Diego	2
Automated Preparation and Sorting of Viable Neurons from Adult Mouse Brain for Functional Assays	6:30 -8:30 p.m.	irinae@miltenyibiotec.com	Marriott Marquis	Torrey Pines	2
DFG Leibniz Lecture	6:30-7:30 p.m.	emily.formica@dfg.de	Hilton Bayfront	Sapphire Ballroom KL	2
FOXG1 Research: Achievements and Opportunities	6:30-9:30 p.m.	ebrimble@stanfordchildrens.org	Grand Hyatt	Promenade AB	2
Grass Foundation and Marine Biological Laboratory	6:30-8 p.m.	execassist@grassfoundation.org	Hilton Bayfront	Indigo Ballroom A	2
Neuro-Rehabilitation Social	6:30-8:30 p.m.	kingla@ohsu.edu	Social Tap	815 J St., San Diego	2
Neuroscience in Germany Social XXV	7:30-8:30 p.m.	emily.formica@dfg.de	Hilton Bayfront	Sapphire Ballroom OP	2
Novel Research Models and Their Utility in Studying Human Neurological Disease	6:30-9:30 p.m.	amy.cowan@horizondiscovery.com	Hilton Bayfront	Indigo Ballroom D	1
Parkinson's Disease Social	6:30-8:30 p.m.	bvernaleo@parkinson.org	Hilton Bayfront	Indigo 206	2
Simons Foundation Autism Research Initiative (SFARI) Social	6:30-8:30 p.m.	jspiro@simonsfoundation.org	Hilton Bayfront	204AB	2
Sleep and Bidirectional Changes in Synaptic Plasticity: The Untold Story	7–8 p.m.	marcos.frank@wsu.edu	Hilton Bayfront	Sapphire 411	2
Sleep and Circadian Biology DataBlitz	8-10 p.m.	laposkya@nhlbi.nih.gov	Hilton Bayfront	Sapphire Ballroom IJMN	2
Sleep Research Society Club Hypnos Membership Reception	6:30-8 p.m.	Coordinator@srsnet.org	Hilton Bayfront	Sapphire Ballroom EF	2
Synapse Social	6:30-8:30 p.m.	meriney@pitt.edu	Mc Fadden's Open Air Patio, 731 5th Avenue		2
Washington University in St. Louis Neuroscience Reception	6:30-9:30 p.m.	tamarama90@yahoo.com	Barleymash Bar, 600 5th Avenue, San Diego		2
Wearable Sensing's DRY EEG Technology	6:30-9:30 p.m.	walid@wearablesensing.com	Hilton Bayfront	Indigo Ballroom H	2
TUESDAY, NOVEMBER 6					
Friends of Iowa Neuroscience	6:30-9:30 p.m.	ted-abel@uiowa.edu	Skybox at Diamond View East V		2
The Science Bridge and Middle Eastern Neuroscientists Social	6:30-8:30 p.m.	nelly.alia-klein@mssm.edu	Marriott Marquis	Rancho Santa Fe 1 & 2	3

List of Sessions by Theme and Day

All posters will be presented in the San Diego Convention Center, Halls B-H. All lecture, symposium, minisymposium, and nanosymposium rooms are located in the San Diego Convention Center.

Note: Theme J (History and Education) posters will be on display in Hall B beginning at 1 p.m. on Saturday, Nov. 3 and will remain posted until 5 p.m. on Sunday, Nov. 4. One-hour presentation times will occur either Saturday afternoon or Sunday morning.

THEME DESCRIPTIONS

- A Development
- C Neurodegenerative
- E Motor Systems
- H Cognition

- B Neural Excitability,
- Disorders and Injury
- F Integrative Physiology
- I Techniques

J History and Education

- Synapses, and Glia
- D Sensory Systems
- and Behavior

 G Motivation and Emotion

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
Featu	red Lectures						
001	Dialogues Between Neuroscience and Society: Music and the Brain	Lecture		SDCC Ballroom 20	3 Sat	11 a.m-1 p.m.	
009	Presidential Special Lecture: The dArc Matter of Synaptic Communication	Lecture		SDCC Ballroom 20	3 Sat	5:15- 6:30 p.m.	1.25
182	Peter and Patricia Gruber Lecture: Decision, Reward, and the Basal Ganglia	Lecture		SDCC Ballroom 20	4 Sun	2:30-3:40 p.m.	
183	Presidential Special Lecture: Neurobiology of Social Behavior Circuits	Lecture		SDCC Ballroom 20	4 Sun	5:15- 6:30 p.m.	1.25
264	David Kopf Lecture on Neuroethics: When Is an Adolescent an Adult?: Implications for Justice Policy	Lecture		SDCC Ballroom 20	5 Mon	10-11:10 a.m.	
351	Albert and Ellen Grass Lecture: Neural Sequences in Memory and Cognition	Lecture		SDCC Ballroom 20	5 Mon	3:15- 4:25 p.m.	1.25
352	Presidential Special Lecture: From Nanoscale Dynamic Organization to Plasticity of Excitatory Synapses and Learning	Lecture		SDCC Ballroom 20	5 Mon	5:15- 6:30 p.m.	1.25
535	History of Neuroscience Lecture: Deciphering Neural Circuits: From the Neuron Doctrine to the Connectome	Lecture		SDCC Ballroom 20	6 Tue	2:30- 3:40 p.m.	
536	Presidential Special Lecture: From Salvia Divinorum to LSD: Toward a Molecular Understanding of Psychoactive Drug Actions	Lecture		SDCC Ballroom 20	6 Tue	5:15- 6:30 p.m.	1.25
Them	e A: Development						
002	Neuronal Guidance in Health and Disease	Symposium		SDCC 6A	3 Sat	1:30-4 p.m.	2.5
010	Brain Size, Structure, and Evolution	Nanosymposium		SDCC 33	3 Sat	1-2:45 p.m.	
029	Postnatal Neurogenesis: Temporal and Spatial Patterns	Poster	A1-A14	SDCC Halls B-H	3 Sat	1-5 p.m.	
030	Environmental and Immunological Influences on Autism	Poster	A15-A30	SDCC Halls B-H	3 Sat	1-5 p.m.	
031	Developmental Disorders: Animal Models of Neurodevelopmental Disease I	Poster	A31-B26	SDCC Halls B-H	3 Sat	1-5 p.m.	
032	Developmental Disorders: Animal Models of Autism	Poster	B27-C23	SDCC Halls B-H	3 Sat	1-5 p.m.	
033	Adolescent Development: Animal Models I	Poster	C24-D5	SDCC Halls B-H	3 Sat	1-5 p.m.	
098	${\it Molecular Mechanisms Underpinning Dopamine Neuron Development, Diversity, and Vulnerability}$	Minisymposium		SDCC 29D	4 Sun	8:30-11 a.m.	2.5
102	Axon and Dendrite Development: Axon Growth and Guidance: Adhesion, Cytoskeletal Dynamics, and Transport	Nanosymposium		SDCC 33	4 Sun	8-9:45 a.m.	
103	Animal Models of Neurodevelopmental Disease	Nanosymposium		SDCC 32	4 Sun	8-10:15 a.m.	
113	Nervous System Patterning and Developmental Cell Death	Poster	A1-A13	SDCC Halls B-H	4 Sun	8 a.mnoon	
114	Transplantation and Regeneration (PNS) and Neuroglial Interactions	Poster	A14-B5	SDCC Halls B-H	4 Sun	8 a.mnoon	
115	Transplantation and Regeneration in the CNS	Poster	B6-B27	SDCC Halls B-H	4 Sun	8 a.mnoon	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
116	Axon and Dendrite Development: Axon Growth and Guidance: Adhesion and Cytoskeletal Dynamics	Poster	B28-C18	SDCC Halls B-H	4 Sun	8 a.mnoon	
117	Axon and Dendrite Development: Dendritic Growth and Branching	Poster	C19-D5	SDCC Halls B-H	4 Sun	8 a.mnoon	
118	Synaptogenesis and Activity-Dependent Development: Synapse Formation	Poster	D6-D25	SDCC Halls B-H	4 Sun	8 a.mnoon	
119	Developmental Disorders: Autism: Genetic Models	Poster	D26-D46	SDCC Halls B-H	4 Sun	8 a.mnoon	
120	Autism Mechanisms and Therapeutic Development	Poster	D47-E19	SDCC Halls B-H	4 Sun	8 a.mnoon	
121	Autism Spectrum Disorders: Neural Correlates in Humans	Poster	E20-E48	SDCC Halls B-H	4 Sun	8 a.mnoon	
184	Postnatal Neurogenesis: Molecular Mechanisms	Nanosymposium		SDCC 1	4 Sun	1-3:30 p.m.	
185	Neural Stem Cells: Reprogramming, Regeneration, and Transplantation	Nanosymposium		SDCC 2	4 Sun	1-3 p.m.	
195	Neural Cell Lineage Specification	Poster	A1-A30	SDCC Halls B-H	4 Sun	1-5 p.m.	
196	Stem Cells and Neural Differentiation	Poster	A31-B26	SDCC Halls B-H	4 Sun	1-5 p.m.	
197	Axon and Dendrite Development: Axon Growth and Guidance: Axonal Transport and Trafficking	Poster	B27-C8	SDCC Halls B-H	4 Sun	1-5 p.m.	
266	Autism: Structural and Functional Correlates in Children	Nanosymposium		SDCC 32	5 Mon	8-11:30 a.m.	
277	Neurogenesis and Gliogenesis: Neuronal Development I	Poster	A1-A29	SDCC Halls B-H	5 Mon	8 a.mnoon	
278	Stem Cells and Disease Modeling I	Poster	A30-B14	SDCC Halls B-H	5 Mon	8 a.mnoon	
279	Stem Cells and Reprogramming: Neural Stem Cells: In Vitro Studies	Poster	B15-C8	SDCC Halls B-H	5 Mon	8 a.mnoon	
280	Synaptogenesis and Activity-Dependent Development: Synapse Maturation and Remodeling	Poster	C9-C30	SDCC Halls B-H	5 Mon	8 a.mnoon	
281	Adolescent Development: Human Imaging	Poster	C31-D15	SDCC Halls B-H	5 Mon	8 a.mnoon	
282	Comparative Anatomy and Brain Evolution	Poster	D16-D38	SDCC Halls B-H	5 Mon	8 a.mnoon	
344	Extracellular Vesicles: Insights Into Cell-to-Cell Communication in the Nervous System	Symposium		SDCC 6A	5 Mon	1:30-4 p.m.	2.5
353	Current Perspectives on Neural Circuit Assembly and Reorganization	Nanosymposium		SDCC 24	5 Mon	1-2:45 p.m.	
365	Postnatal Neurogenesis: Environmental and Pharmacological Regulation	Poster	A1-A19	SDCC Halls B-H	5 Mon	1-5 p.m.	
366	Stem Cells and Disease Modeling II	Poster	A20-B11	SDCC Halls B-H	5 Mon	1-5 p.m.	
367	Axon Growth and Guidance	Poster	B12-B24	SDCC Halls B-H	5 Mon	1-5 p.m.	
368	Behavioral Analyses of Autism in Humans and Rodent Models	Poster	B25-C22	SDCC Halls B-H	5 Mon	1-5 p.m.	
369	Mechanisms of Developmental Disorders: Animal Models	Poster	C23-D5	SDCC Halls B-H	5 Mon	1–5 p.m.	
434	RNA Control of Axonal Functions	Symposium		SDCC 6A	6 Tue	8:30-11 a.m.	2.5
443	Stem Cells and Disease Modeling: Neuropsychiatric and Neurodegenerative Disease	Nanosymposium		SDCC 31C	6 Tue	8-11:30 a.m.	
455	Adult Neurogenesis: Molecular Mechanisms	Poster	A1-A17	SDCC Halls B-H	6 Tue	8 a.mnoon	
456	Autism: Cellular Mechanisms	Poster	A18-A32	SDCC Halls B-H	6 Tue	8 a.mnoon	
457	Developmental Disorders: Animal Models of Neurodevelopmental Disease II	Poster	A33-B20	SDCC Halls B-H	6 Tue	8 a.mnoon	
458	Development of Motor, Sensory, and Limbic Systems: Motor Systems	Poster	B21-C4	SDCC Halls B-H	6 Tue	8 a.mnoon	
528	Genetic Specification of Neuronal Identity	Lecture		SDCC Ballroom 20	6 Tue	1-2:10 p.m.	1.25
537	Autism: From Genetic Models to Insights	Nanosymposium		SDCC 4	6 Tue	1–2:45 p.m.	
550	Neurogenesis and Gliogenesis: Neuronal Development II	Poster	A1-A28	SDCC Halls B-H	6 Tue	1–5 p.m.	
551	Neurogenesis and Gliogenesis: Glial Development and Interaction With Neurons	Poster	A29-B9	SDCC Halls B-H	6 Tue	1–5 p.m.	
552	Stem Cells and Reprogramming: Neural Lineage Reprogramming	Poster	B10-B19	SDCC Halls B-H	6 Tue	1-5 p.m.	
553	Sensory Circuit Assembly and Reorganization	Poster	B20-B32	SDCC Halls B-H	6 Tue	1–5 p.m.	
554	Rett Syndrome	Poster	C1-C16	SDCC Halls B-H	6 Tue	1–5 p.m.	
555	Mechanisms of Developmental Disorders	Poster	C17-D8	SDCC Halls B-H	6 Tue	1–5 p.m.	
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SESS	ON # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
620	Neural Proteomics in Synapse Development and Function	Minisymposium		SDCC 29D	7 Wed	8:30-11 a.m.	2.5
624	Stem Cells and Disease Modeling: Neurodevelopment	Nanosymposium		SDCC 30E	7 Wed	8-11:30 a.m.	
636	Neural Cell Proliferation	Poster	A1-A28	SDCC Halls B-H	7 Wed	8 a.mnoon	
637	Neural Cell Migration and Lineage Specification	Poster	A29-B16	SDCC Halls B-H	7 Wed	8 a.mnoon	
638	Transplantation and Regeneration	Poster	B17-B28	SDCC Halls B-H	7 Wed	8 a.mnoon	
639	Genes and Molecules Implicated in Autism Spectrum Disorders	Poster	B29-C8	SDCC Halls B-H	7 Wed	8 a.mnoon	
640	Down Syndrome	Poster	C9-C23	SDCC Halls B-H	7 Wed	8 a.mnoon	
641	Developmental Disorders: Animal Models of Neurodevelopmental Disease III	Poster	C24-D4	SDCC Halls B-H	7 Wed	8 a.mnoon	
642	Structural and Functional Development of Sensory Systems	Poster	D5-D34	SDCC Halls B-H	7 Wed	8 a.mnoon	
643	Development of Motor, Sensory, and Limbic Systems: Limbic System	Poster	D35-D42	SDCC Halls B-H	7 Wed	8 a.mnoon	
644	Adolescent Development: Animal Models II	Poster	D43-E12	SDCC Halls B-H	7 Wed	8 a.mnoon	
645	Adolescent Development: Mechanisms of Vulnerability	Poster	E13-E26	SDCC Halls B-H	7 Wed	8 a.mnoon	
709	Sonic Hedgehog and Cell-Specific Programming: Circuits, Disease, and Repair	Minisymposium		SDCC 28A	7 Wed	1:30-4 p.m.	2.5
724	Neural Circuit Development: Molecules and Mechanisms	Poster	A1-A19	SDCC Halls B-H	7 Wed	1-5 p.m.	
725	Fragile X Syndrome I	Poster	A20-A34	SDCC Halls B-H	7 Wed	1-5 p.m.	
726	Fragile X Syndrome II	Poster	B1-B19	SDCC Halls B-H	7 Wed	1-5 p.m.	
727	Angelman and Other Developmental Disorders	Poster	B20-C8	SDCC Halls B-H	7 Wed	1-5 p.m.	
728	ADHD, SLI, Dyslexia, and Other Disorders	Poster	C9-C32	SDCC Halls B-H	7 Wed	1-5 p.m.	
Them	e B: Neural Excitability, Synapses, and Glia						
011	Network Interactions: Oscillations and Synchrony: EEG Studies	Nanosymposium		SDCC 24	3 Sat	1-4 p.m.	
012	Animal Models of Epilepsy	Nanosymposium		SDCC 1	3 Sat	1-2:45 p.m.	
034	Neurotrophins	Poster	D6-D15	SDCC Halls B-H	3 Sat	1-5 p.m.	
035	Sensory Transduction and Other Ion Channels	Poster	D16-D30	SDCC Halls B-H	3 Sat	1-5 p.m.	
036	Long-Term Depression (LTD)	Poster	D31-D41	SDCC Halls B-H	3 Sat	1-5 p.m.	
037	Synaptic Plasticity: Homeostatic Plasticity I	Poster	D42-E17	SDCC Halls B-H	3 Sat	1-5 p.m.	
038	Synaptic Plasticity: Homeostatic Plasticity II	Poster	E18-E37	SDCC Halls B-H	3 Sat	1–5 p.m.	
039	Epilepsy	Poster	E38-F11	SDCC Halls B-H	3 Sat	1–5 p.m.	
040	Epilepsy: Networks, Dynamics, and Computation	Poster	F12-G9	SDCC Halls B-H	3 Sat	1–5 p.m.	
041	Epilepsy: Seizure Mechanisms	Poster	G10-H15	SDCC Halls B-H	3 Sat	1–5 p.m.	
042	Astrocyte Biology	Poster	H16-J10	SDCC Halls B-H	3 Sat	1–5 p.m.	
043	Oligodendrocyte Development and Function	Poster	J11-K13	SDCC Halls B-H	3 Sat	1–5 p.m.	
097	Advances in Enteric Neurobiology: The "Brain" in the Gut in Health and Disease	Minisymposium		SDCC 28A	4 Sun	8:30–11 a.m.	2.5
122	Metabotropic Glutamate and GABA B Receptors	Poster	E49-F8	SDCC Halls B-H	4 Sun	8 a.mnoon	
123	Sodium Channels	Poster	F9-G1	SDCC Halls B-H	4 Sun	8 a.mnoon	
124	Control of Neuronal Firing in Development and Disease	Poster	G2-F8	SDCC Halls B-H	4 Sun	8 a.mnoon	
125	Oscillations and Synchrony in the Human Brain	Poster	H1-I8	SDCC Halls B-H	4 Sun	8 a.mnoon	
126	Biology of Microglia	Poster	19-K6	SDCC Halls B-H	4 Sun	8 a.mnoon	
127	Microglia in Disease	Poster	K7-L15	SDCC Halls B-H	4 Sun	8 a.mnoon	
128	Neuro-Oncology	Poster	L16-N4	SDCC Halls B-H	4 Sun	8 a.mnoon	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
181	Cell Adhesion Molecules at the Intersection of Cell Type Identity and Neural Circuit Connectivity	Minisymposium		SDCC 29D	4 Sun	1:30-4 p.m.	2.5
198	Glutamate Transport and Signaling	Poster	C9-C26	SDCC Halls B-H	4 Sun	1-5 p.m.	
199	Monoamines I	Poster	C27-D18	SDCC Halls B-H	4 Sun	1-5 p.m.	
200	GABA(A) Receptors	Poster	D19-D44	SDCC Halls B-H	4 Sun	1-5 p.m.	
201	Structural Plasticity I	Poster	D45-E20	SDCC Halls B-H	4 Sun	1-5 p.m.	
202	Structural Plasticity II	Poster	E21-E36	SDCC Halls B-H	4 Sun	1-5 p.m.	
203	Control of Neuronal Firing	Poster	E37-F9	SDCC Halls B-H	4 Sun	1-5 p.m.	
204	Myelin-Related Disorders	Poster	F10-G2	SDCC Halls B-H	4 Sun	1-5 p.m.	
283	Structure and Function of Nicotinic Acetylcholine Receptors	Poster	D39-E18	SDCC Halls B-H	5 Mon	8 a.mnoon	
284	Synaptic Connectivity and Synaptic Properties	Poster	E19-E29	SDCC Halls B-H	5 Mon	8 a.mnoon	
285	LTP: Pre- and Postsynaptic Mechanisms	Poster	E30-F4	SDCC Halls B-H	5 Mon	8 a.mnoon	
286	Network Interactions and Synaptic Integration I	Poster	F5-F21	SDCC Halls B-H	5 Mon	8 a.mnoon	
287	Synaptic Plasticity	Poster	F22-G12	SDCC Halls B-H	5 Mon	8 a.mnoon	
288	Synaptic Protein Dynamics	Poster	H1-H16	SDCC Halls B-H	5 Mon	8 a.mnoon	
289	Anticonvulsant and Antiepileptic Therapies	Poster	H17-J5	SDCC Halls B-H	5 Mon	8 a.mnoon	
290	Epilepsy: Human Studies	Poster	J6-K12	SDCC Halls B-H	5 Mon	8 a.mnoon	
350	Rapid Antidepressant Action: Synaptic Mechanisms and Clinical Aspects	Basic-Translational Clinical Roundtable		SDCC 30E	5 Mon	1:30-4 p.m.	2.5
370	NMDA Receptors	Poster	D6-D28	SDCC Halls B-H	5 Mon	1-5 p.m.	
371	Non-NMDA Receptors	Poster	D29-D40	SDCC Halls B-H	5 Mon	1-5 p.m.	
372	Neurotransmitter Release: Vesicle Dynamics	Poster	D41-E9	SDCC Halls B-H	5 Mon	1-5 p.m.	
373	Epilepsy: Experimental Therapeutics	Poster	E10-E24	SDCC Halls B-H	5 Mon	1-5 p.m.	
374	LTP: Kinases and Intracellular Signaling	Poster	E25-E44	SDCC Halls B-H	5 Mon	1-5 p.m.	
375	Intrinsic Membrane Properties: Neural Oscillators and Dendritic Properties	Poster	E45-F15	SDCC Halls B-H	5 Mon	1-5 p.m.	
376	Glial Mechanisms in Neurological Disorders	Poster	F16-H5	SDCC Halls B-H	5 Mon	1-5 p.m.	
438	Neuromodulation of Brain States in Health and Disease: Bridging Experiments and Computational Models	Minisymposium		SDCC 28A	6 Tue	8:30-11 a.m.	2.5
442	Neuronal Diversity Within the Ventral Tegmental Area and Co-Release of Neurotransmitters	Lecture		SDCC Ballroom 20	6 Tue	11:30 a.m 12:40 p.m.	1.25
444	LTP: Intracellular Signaling, Pre- and Postsynaptic Mechanisms	Nanosymposium		SDCC 25	6 Tue	8-10:15 a.m.	
445	Network Interactions, Oscillations, and Synchrony	Nanosymposium		SDCC 24	6 Tue	8-10:15 a.m.	
446	Seizure, Trauma, and Post-Traumatic Stress Disorder	Nanosymposium		SDCC 1	6 Tue	8-10:30 a.m.	
459	G-Protein Coupled Receptors	Poster	C5-C26	SDCC Halls B-H	6 Tue	8 a.mnoon	
460	Epilepsy: Ion Channels	Poster	C27-C38	SDCC Halls B-H	6 Tue	8 a.mnoon	
461	Calcium Channels	Poster	D1-D16	SDCC Halls B-H	6 Tue	8 a.mnoon	
462	Postsynaptic Organization and Structure	Poster	D17-D42	SDCC Halls B-H	6 Tue	8 a.mnoon	
463	Network Interactions and Synaptic Integration II	Poster	D43-E12	SDCC Halls B-H	6 Tue	8 a.mnoon	
464	Short-Term Synaptic Plasticity	Poster	E13-E28	SDCC Halls B-H	6 Tue	8 a.mnoon	
465	Transcription and Translation in Synaptic Plasticity	Poster	E29-F3	SDCC Halls B-H	6 Tue	8 a.mnoon	
533	Molecular and Nano-Organization of Synapses	Minisymposium		SDCC 28A	6 Tue	1:30-4 p.m.	2.5

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
538	Neurotransmitter Release	Nanosymposium		SDCC 32	6 Tue	1–2:45 p.m.	
539	Postsynaptic Organization and Structure	Nanosymposium		SDCC 31C	6 Tue	1-4:15 p.m.	
556	Opiates, Cytokines, and Other Neuropeptides	Poster	D9-D29	SDCC Halls B-H	6 Tue	1-5 p.m.	
557	Glycine Receptors and Other Ligand Gated Ion Channels	Poster	D30-E1	SDCC Halls B-H	6 Tue	1-5 p.m.	
558	Potassium Channels	Poster	E2-E28	SDCC Halls B-H	6 Tue	1-5 p.m.	
559	Presynaptic Organization	Poster	E29-E48	SDCC Halls B-H	6 Tue	1-5 p.m.	
560	Mechanisms of Seizure Generation and Epilepsy	Poster	E49-G2	SDCC Halls B-H	6 Tue	1-5 p.m.	
561	Models of Developmental Epilepsies and Seizure Disorders	Poster	G3-I2	SDCC Halls B-H	6 Tue	1-5 p.m.	
614	Biochemical Computation in Postsynaptic Compartments: Implications for Synaptic Plasticity, Learning, and Memory	Lecture		SDCC Ballroom 20	7 Wed	8:30-9:40 a.m.	1.25
625	Epilepsy: Human Studies	Nanosymposium		SDCC 32	7 Wed	8-10:15	
646	Monoamines II	Poster	E27-E46	SDCC Halls B-H	7 Wed	8 a.mnoon	
647	Synaptic Transmission: Modulation: ACh, Amino Acids, and GABA	Poster	E47-F24	SDCC Halls B-H	7 Wed	8 a.mnoon	
648	Synaptic Transmission: Modulation: Mechanisms of Action	Poster	F25-H12	SDCC Halls B-H	7 Wed	8 a.mnoon	
649	Glia in Energy Homeostasis and Disease	Poster	H13-I10	SDCC Halls B-H	7 Wed	8 a.mnoon	
650	Glial Mechanisms in Neurodegenerative Diseases	Poster	I11-J7	SDCC Halls B-H	7 Wed	8 a.mnoon	
651	Glial-Neuron Interactions	Poster	J8-K16	SDCC Halls B-H	7 Wed	8 a.mnoon	
652	Glial Mechanisms: Glia-Neuron Interactions: CNS	Poster	K17-M10	SDCC Halls B-H	7 Wed	8 a.mnoon	
653	Demyelinating Disorders: Molecular and Cellular Mechanisms: Therapeutics	Poster	M11-05	SDCC Halls B-H	7 Wed	8 a.mnoon	
705	Unveiling the Extracellular Space of the Brain: From Super-Resolved Microstructure to <i>In Vivo</i> Function	Symposium		SDCC 6A	7 Wed	1:30-4 p.m.	2.5
710	Multitransmitter Neurons: The Function and Regulation of Neurotransmitter Cotransmission	Minisymposium		SDCC 29D	7 Wed	1:30-4 p.m.	2.5
711	Astrocytes: Disease Mechanisms	Nanosymposium		SDCC 32	7 Wed	1-2:45 p.m.	
729	Calcium Channels: Regulation and Modulation	Poster	C33-D8	SDCC Halls B-H	7 Wed	1-5 p.m.	
730	HCN Channels	Poster	D9-D18	SDCC Halls B-H	7 Wed	1-5 p.m.	
731	Network Interactions: Signal Propagation	Poster	D19-D31	SDCC Halls B-H	7 Wed	1-5 p.m.	
732	Oscillations and Synchrony: Unit Studies	Poster	D32-D42	SDCC Halls B-H	7 Wed	1-5 p.m.	
733	Oscillations and Synchrony: LFP Studies I	Poster	D43-E8	SDCC Halls B-H	7 Wed	1-5 p.m.	
734	Oscillations and Synchrony: LFP Studies II	Poster	E9-E23	SDCC Halls B-H	7 Wed	1-5 p.m.	
735	Network Interactions	Poster	E24-E46	SDCC Halls B-H	7 Wed	1-5 p.m.	
Them	e C: Neurodegenerative Disorders and Injury						
013	Alzheimer's Disease and Other Dementias: Genetic Analyses	Nanosymposium		SDCC 25	3 Sat	1-3:45 p.m.	
014	Parkinson's Disease: Diagnostics and Clinical Trials	Nanosymposium		SDCC 5	3 Sat	1-2:45 p.m.	
015	Neurotoxicity, Inflammation, and Neuroprotection: Advances in Nanomedicine	Nanosymposium		SDCC 2	3 Sat	1-4 p.m.	
044	Brain Wellness and Aging: Molecular Mechanisms	Poster	K14-M8	SDCC Halls B-H	3 Sat	1–5 p.m.	
045	Alzheimer's Disease and Other Dementias: Abeta Mechanisms of Toxicity I	Poster	M9-N10	SDCC Halls B-H	3 Sat	1–5 p.m.	
046	Alzheimer's Disease and Other Dementias: APP/Abeta: Animal and Cellular Models I	Poster	N11-P12	SDCC Halls B-H	3 Sat	1–5 p.m.	
047	Alzheimer's Disease and Other Dementias: Tau: Biochemistry and Physiology	Poster	P13-Q10	SDCC Halls B-H	3 Sat	1–5 p.m.	
048	Alzheimer's Disease and Other Dementias: Tau: Animal and Cellular Models	Poster	Q11-R16	SDCC Halls B-H	3 Sat	1–5 p.m.	
049	Alzheimer's Disease and Other Dementias: Therapeutic Strategies: Preclinical Animal Models I	Poster	R17–T2	SDCC Halls B-H	3 Sat	1–5 p.m.	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
050	Parkinson's Disease: Animal Models and Associated Behaviors	Poster	T3-U11	SDCC Halls B-H	3 Sat	1–5 p.m.	
051	Parkinson's Disease: Human Studies: Genetics and Diagnostic	Poster	U12-W8	SDCC Halls B-H	3 Sat	1-5 p.m.	
052	Neuromuscular Diseases: Motor Neuron Disease: In vitro Studies	Poster	W9-X12	SDCC Halls B-H	3 Sat	1–5 p.m.	
053	Neurotoxicity, Inflammation, and Neuroprotection: Preclinical Studies	Poster	X13-Z2	SDCC Halls B-H	3 Sat	1-5 p.m.	
054	Stroke, Damage, or Disease: Assessment and Treatment I	Poster	Z3-BB3	SDCC Halls B-H	3 Sat	1-5 p.m.	
055	Stroke Imaging and Diagnostic Studies: Vascular and Movement Emphasis During Recovery	Poster	BB4-CC12	SDCC Halls B-H	3 Sat	1–5 p.m.	
056	Brain Injury and Trauma: Cellular and Molecular Mechanisms I	Poster	CC13-EE3	SDCC Halls B-H	3 Sat	1–5 p.m.	
099	What We Know, What We Don't Know: How Can We Better Understand Alzheimer's Disease to Develop Effective Treatments?	Basic-Translational Clinical Roundtable		SDCC 10	4 Sun	8:30–11 a.m.	2.5
104	Parkinson's Disease: Therapeutic Strategies: Preclinical Animal Models	Nanosymposium		SDCC 4	4 Sun	8–10 a.m.	
129	Brain Wellness and Aging: Metabolism, Oxidative Stress, and Cellular Mechanisms	Poster	N5-P6	SDCC Halls B-H	4 Sun	8 a.mnoon	
130	Brain Wellness and Aging	Poster	P7-Q9	SDCC Halls B-H	4 Sun	8 a.mnoon	
131	Alzheimer's Disease and Other Dementias: Abeta, Tau, and Neurodegeneration	Poster	Q10-R14	SDCC Halls B-H	4 Sun	8 a.mnoon	
132	Alzheimer's Disease and Other Dementias: APP/Abeta: Animal and Cellular Models II	Poster	R14-S12	SDCC Halls B-H	4 Sun	8 a.mnoon	
133	Alzheimer's Disease and Other Dementias: Therapeutic Strategies: Preclinical Cellular Models	Poster	S13-T9	SDCC Halls B-H	4 Sun	8 a.mnoon	
134	Parkinson's Disease: Molecular and Cellular Mechanisms	Poster	T10-U3	SDCC Halls B-H	4 Sun	8 a.mnoon	
135	Neurotoxicity, Inflammation, and Neuroprotection: Animal Models	Poster	U4-V3	SDCC Halls B-H	4 Sun	8 a.mnoon	
136	Ischemia: Neuroprotection	Poster	V4-V14	SDCC Halls B-H	4 Sun	8 a.mnoon	
137	Stroke, Damage, or Disease: Assessment and Treatment II	Poster	V15-W15	SDCC Halls B-H	4 Sun	8 a.mnoon	
138	Spinal Cord Injury I	Poster	W16-Y1	SDCC Halls B-H	4 Sun	8 a.mnoon	
175	Clinical Neuroscience Lecture: From Axon Regeneration to Functional Recovery After CNS Injury	Lecture		SDCC Ballroom 20	4 Sun	1–2:10 p.m.	1.25
186	Brain Wellness and Aging: Molecular Mechanisms	Nanosymposium		SDCC 30B	4 Sun	1-3:45 p.m.	
187	Alzheimer's Disease: Synapses, Mechanisms, and Models	Nanosymposium		SDCC 33	4 Sun	1-4 p.m.	
188	Alzheimer's Disease and Other Dementias: Tau and TDP-43 Proteinopathies	Nanosymposium		SDCC 5	4 Sun	1-3:15 p.m.	
189	Parkinson's Disease: LRRK2 Mechanisms, Targets, and Pathways	Nanosymposium		SDCC 25	4 Sun	1-2:30 p.m.	
190	Stroke Recovery: Non-Pharmacological Approaches and Novel Diagnostics	Nanosymposium		SDCC 32	4 Sun	1-3:15 p.m.	
205	Altered Energy Homeostasis in Alzheimer's Disease	Poster	G3-H13	SDCC Halls B-H	4 Sun	1-5 p.m.	
206	Alzheimer's Disease and Other Dementias: Frontotemporal Lobar Degeneration: Vascular Disease	Poster	H14-J8	SDCC Halls B-H	4 Sun	1–5 p.m.	
207	Parkinson's Disease: Cellular Mechanisms	Poster	J9-L1	SDCC Halls B-H	4 Sun	1-5 p.m.	
208	Therapeutic Developments in ALS	Poster	L2-M13	SDCC Halls B-H	4 Sun	1-5 p.m.	
209	Neurotoxicity, Inflammation, and Neuroprotection: Mechanisms of Neurodegeneration I	Poster	M14-010	SDCC Halls B-H	4 Sun	1–5 p.m.	
210	Neurotoxicity, Inflammation, and Neuroprotective Mechanisms: Preclinical	Poster	011-Q1	SDCC Halls B-H	4 Sun	1–5 p.m.	
211	Brain Injury and Trauma: Animal Models of Brain Injury	Poster	Q2-R17	SDCC Halls B-H	4 Sun	1-5 p.m.	
212	Brain Injury and Trauma: Human Studies	Poster	R18-S17	SDCC Halls B-H	4 Sun	1-5 p.m.	
213	Spinal Cord Injury and Plasticity: Cellular and Molecular Mechanisms I	Poster	S18-U10	SDCC Halls B-H	4 Sun	1–5 p.m.	
257	Repairing the Injured Nervous System: Inhibiting the Inhibitors	Symposium		SDCC 6A	5 Mon	8:30-11 a.m.	2.5
263	Molecular Therapies for Neurological Diseases	Basic-Translational Roundtables	-Clinical	SDCC 10	5 Mon	8:30-11 a.m.	2.5

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
267	Alzheimer's Disease: Neuroinflammation and Immune Actions	Nanosymposium		SDCC 24	5 Mon	8-11 a.m.	
268	Alzheimer's Disease and Other Dementias: Therapeutic Strategies: Preclinical Animal Models	Nanosymposium		SDCC 33	5 Mon	8–11:30 a.m.	
269	Tauopathies, Tau-Dementias, and Prion Diseases: Cellular and Molecular Mechanisms	Nanosymposium		SDCC 1	5 Mon	8-11:15 a.m.	
291	Brain Wellness and Aging: Pharmacological and Non-Pharmacological Interventions	Poster	K13-M4	SDCC Halls B-H	5 Mon	8 a.mnoon	
292	Parkinson's Disease: Preclinical Animal Studies: Cellular and Molecular I	Poster	M5-N12	SDCC Halls B-H	5 Mon	8 a.mnoon	
293	Tauopathies and Synucleinopathies: Cellular and Molecular Mechanisms	Poster	01-P3	SDCC Halls B-H	5 Mon	8 a.mnoon	
294	Ischemia I	Poster	P4-R4	SDCC Halls B-H	5 Mon	8 a.mnoon	
295	Brain Injury and Trauma: Animal Models of Brain Injury: Physiology and Behavior I	Poster	R5-S10	SDCC Halls B-H	5 Mon	8 a.mnoon	
296	Spinal Cord Injury II	Poster	S11-U1	SDCC Halls B-H	5 Mon	8 a.mnoon	
297	Spinal Cord Injury and Plasticity: Training, Rehabilitation, and Repair: Animal Models	Poster	U2-V15	SDCC Halls B-H	5 Mon	8 a.mnoon	
298	Spinal Cord Injury and Plasticity: Neurophysiology I	Poster	V16-W13	SDCC Halls B-H	5 Mon	8 a.mnoon	
345	Global Efforts to Build More Predictive Animal Models of Neurodegenerative Disease	Symposium		SDCC 6B	5 Mon	1:30-4 p.m.	2.5
354	Brain Wellness and Aging: Systemic Factors and Brain Function	Nanosymposium		SDCC 33	5 Mon	1-2:45 p.m.	
355	Motor Neuron and Other Neuromuscular Diseases: In vitro Studies	Nanosymposium		SDCC 30B	5 Mon	1-4 p.m.	
356	Spinal Cord Injury: Factors Influencing Recovery	Nanosymposium		SDCC 7	5 Mon	1-2:45 p.m.	
377	Parkinson's Disease: L-DOPA Induced Dyskinesia	Poster	H6-H15	SDCC Halls B-H	5 Mon	1-5 p.m.	
378	Dystonia, Tremor, and Other Movement Disorders	Poster	H16-J4	SDCC Halls B-H	5 Mon	1-5 p.m.	
379	ALS Mechanisms	Poster	J5-L2	SDCC Halls B-H	5 Mon	1-5 p.m.	
380	Neuromuscular Diseases: Other Neuromuscular Diseases	Poster	L3-L17	SDCC Halls B-H	5 Mon	1-5 p.m.	
381	Neurotoxicity, Inflammation, and Neuroprotection: Mechanisms of Neurodegeneration II	Poster	L18-N8	SDCC Halls B-H	5 Mon	1-5 p.m.	
382	Neurotoxicity, Neuroinflammation, HIV, and Infections I	Poster	N9-011	SDCC Halls B-H	5 Mon	1-5 p.m.	
383	Ischemia II	Poster	012-Q9	SDCC Halls B-H	5 Mon	1-5 p.m.	
384	Stroke Recovery: Pharmacological Approaches to Therapy	Poster	Q10-S7	SDCC Halls B-H	5 Mon	1-5 p.m.	
385	Stroke Rehabilitation Movement Manipulation, Diagnostics, and White Matter	Poster	S8-T3	SDCC Halls B-H	5 Mon	1-5 p.m.	
386	Spinal Cord Injury and Plasticity: Training, Rehabilitation, and Repair: Human	Poster	T4-T15	SDCC Halls B-H	5 Mon	1-5 p.m.	
387	Spinal Cord Injury and Plasticity: Neurophysiology II	Poster	T16-V2	SDCC Halls B-H	5 Mon	1-5 p.m.	
433	Understanding Regeneration of Complex Body Parts	Lecture		SDCC Ballroom 20	6 Tue	8:30-9:40 a.m.	1.25
437	Mechanisms of Tau Oligomer-Induced Synaptic Impairment and Potential Treatment Strategies	Minisymposium		SDCC 6E	6 Tue	8:30-11 a.m.	2.5
447	Parkinson's Disease: Alpha-Synuclein: Models and Mechanisms	Nanosymposium		SDCC 32	6 Tue	8–10 a.m.	
448	Neurotoxicity, Inflammation, and Neuroprotection: Cellular Stress and Death Mechanisms	Nanosymposium		SDCC 7	6 Tue	8-10:45 a.m.	
449	Neurotoxicity, Inflammation, and Neuroprotection: Mechanisms of Neurodegeneration	Nanosymposium		SDCC 30B	6 Tue	8-10 a.m.	
466	Alzheimer's Disease and Other Dementias: Genetic Analysis and Omics Approaches	Poster	F4-G7	SDCC Halls B-H	6 Tue	8 a.mnoon	
467	Alzheimer's Disease and Other Dementias: Therapeutic Strategies: Preclinical Animal Models II	Poster	G8-16	SDCC Halls B-H	6 Tue	8 a.mnoon	
468	Alzheimer's Disease and Other Dementias: Therapeutic Strategies: Preclinical Animal Models III	Poster	17-J13	SDCC Halls B-H	6 Tue	8 a.mnoon	
469	Alzheimer's Disease and Other Dementias: Biomarkers	Poster	J14-L9	SDCC Halls B-H	6 Tue	8 a.mnoon	
470	Parkinson's Disease: Therapeutic Strategies: Cellular Models	Poster	L10-M10	SDCC Halls B-H	6 Tue	8 a.m.–noon	
471	Ataxias	Poster	M11-08	SDCC Halls B-H	6 Tue	8 a.mnoon	
472	Studies of ALS in Animal Models	Poster	09-Q7	SDCC Halls B-H	6 Tue	8 a.mnoon	
473	Neurotoxicity, Inflammation, and Neuroprotection: Cellular Stress and Death Mechanisms I	Poster	Q8-S5	SDCC Halls B-H	6 Tue	8 a.mnoon	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
474	Neurotoxicity, Inflammation, and Neuroprotection: Mechanisms of Neurotoxicity I	Poster	S6-T9	SDCC Halls B-H	6 Tue	8 a.mnoon	
475	Ischemia III	Poster	T10-V8	SDCC Halls B-H	6 Tue	8 a.mnoon	
476	Spinal Cord Injury and Plasticity: Cellular and Molecular Mechanisms II	Poster	V9-W15	SDCC Halls B-H	6 Tue	8 a.mnoon	
477	Spinal Cord Injury III	Poster	W16-Y13	SDCC Halls B-H	6 Tue	8 a.mnoon	
529	Organelle Dynamics and Proteostasis in Neuronal Homeostasis and Degeneration	Symposium		SDCC 6A	6 Tue	1:30-4 p.m.	2.5
540	Alzheimer's Disease and Other Dementias: ApoE and Associated Pathways	Nanosymposium		SDCC 24	6 Tue	1-2:30 p.m.	
541	Neurotoxicity, Neuroinflammation, and Neurodegeneration	Nanosymposium		SDCC 7	6 Tue	1-4:15 p.m.	
542	Transplantation and Regeneration: PNS	Nanosymposium		SDCC 25	6 Tue	1–2:45 p.m.	
562	Neurotoxicity, Inflammation, and Neuroprotection: Cellular Stress and Death Mechanisms II	Poster	I3-J9	SDCC Halls B-H	6 Tue	1-5 p.m.	
563	Ischemia IV	Poster	J10-L5	SDCC Halls B-H	6 Tue	1–5 p.m.	
564	Brain Injury and Trauma: Cellular and Molecular Mechanisms II	Poster	L6-M9	SDCC Halls B-H	6 Tue	1–5 p.m.	
565	Brain Injury and Trauma: Brain: Histology and Cellular Markers of Brain Injury	Poster	M10-N4	SDCC Halls B-H	6 Tue	1-5 p.m.	
566	Brain Injury and Trauma: Human Studies II	Poster	N5-P1	SDCC Halls B-H	6 Tue	1-5 p.m.	
567	Brain Injury and Trauma: Pre-Clinical Therapeutic Strategies	Poster	P2-Q10	SDCC Halls B-H	6 Tue	1-5 p.m.	
568	Spinal Cord Injury and Plasticity: Animal Models and Human Studies	Poster	Q11-S8	SDCC Halls B-H	6 Tue	1–5 p.m.	
569	Spinal Cord Injury IV	Poster	S9-T16	SDCC Halls B-H	6 Tue	1-5 p.m.	
619	The Endolysosomal System and Proteostasis: From Development to Degeneration	Minisymposium		SDCC 28A	7 Wed	8:30-11 a.m.	2.5
626	Alzheimer's Disease and Other Dementias: APP and Metabolites: Cleavage and Processing	Nanosymposium		SDCC 33	7 Wed	8-10:45 a.m.	
627	Alzheimer's Disease and Other Dementias: Abeta and Tau Mechanisms and Therapeutics	Nanosymposium		SDCC 7	7 Wed	8-10:45 a.m.	
628	Parkinson's Disease: Mechanisms and Genetics	Nanosymposium		SDCC 25	7 Wed	8-9:45 a.m.	
629	Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Neurodegeneration	Nanosymposium		SDCC 24	7 Wed	8-10:45 a.m.	
654	Parkinson's Disease: Deep Brain Stimulation	Poster	06-P3	SDCC Halls B-H	7 Wed	8 a.mnoon	
655	Parkinson's Disease: LRRK2 Mechanisms, Targets, and Pathways	Poster	P4-R2	SDCC Halls B-H	7 Wed	8 a.mnoon	
656	Parkinson's Disease: Therapeutic Strategies: Clinical Trials	Poster	R3-S3	SDCC Halls B-H	7 Wed	8 a.mnoon	
657	Huntington's Disease: Molecular Mechanisms I	Poster	S4-T5	SDCC Halls B-H	7 Wed	8 a.mnoon	
658	Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Microglia	Poster	T6-U6	SDCC Halls B-H	7 Wed	8 a.mnoon	
659	Neurotoxicity, Inflammation, and Neurodegeneration	Poster	U7-V15	SDCC Halls B-H	7 Wed	8 a.mnoon	
660	Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Animal Models	Poster	V16-W14	SDCC Halls B-H	7 Wed	8 a.mnoon	
661	Neurotoxicity, Neuroinflammation, HIV, and Infections II	Poster	W15-Y1	SDCC Halls B-H	7 Wed	8 a.mnoon	
662	Stroke Recovery: Non-Pharmacological Approaches to Therapy Cellular and Brain Stimulation	Poster	Y2-Y17	SDCC Halls B-H	7 Wed	8 a.mnoon	
663	Brain Injury and Trauma: Animal Models of Brain Injury: Physiology and Behavior II	Poster	Y18-AA10	SDCC Halls B-H	7 Wed	8 a.mnoon	
664	Brain Injury and Trauma: Human Studies I	Poster	AA11-CC3	SDCC Halls B-H	7 Wed	8 a.mnoon	
665	Brain Injury and Trauma: Peripheral Nerve Trauma, Crush, and Toxic Injury	Poster	CC4-DD2	SDCC Halls B-H	7 Wed	8 a.mnoon	
712	Imaging Studies and Biomarkers in Alzheimer's Disease	Nanosymposium		SDCC 31C	7 Wed	1-2:45 p.m.	
713	Alzheimer's Disease and Other Dementias: Abeta: Pathologic Mechanisms	Nanosymposium		SDCC 33	7 Wed	1-3:15 p.m.	
714	Alzheimer's Disease and Other Dementias: Tau: Experimental Models	Nanosymposium		SDCC 5	7 Wed	1–3 p.m.	
715	ALS Mechanisms	Nanosymposium		SDCC 7	7 Wed	1–3:45 p.m.	
716	Brain Injury: From Animal Models to Physiology, Behavior, and Treatments	Nanosymposium		SDCC 4	7 Wed	1-4 p.m.	
736	Alzheimer's Disease and Other Dementias: Neuroinflammation	Poster	E47-F25	SDCC Halls B-H	7 Wed	1–5 p.m.	

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745 Abriemen's Disease and Other Dementias: Abota as a Therapeutic Target Poster 817-S13 SDCC Halls B-H 7 Wed 1-5 p.m. 746 Abriemen's Disease and Other Dementias: Apoč and Associated Pathways Poster \$14-TB SDCC Halls B-H 7 Wed 1-5 p.m. 747 Abriemen's Disease and Other Dementias: Other Dementias Poster T7-U2 SDCC Halls B-H 7 Wed 1-5 p.m. 748 Parkinson's Disease and Other Dementias: Other Dementias Poster U3-V4 SDCC Halls B-H 7 Wed 1-5 p.m. 749 Parkinson's Disease: Alpha-Synuclein: Mechanisms and Genetics Poster U5-V14 SDCC Halls B-H 7 Wed 1-5 p.m. 750 Parkinson's Disease: Alpha-Synuclein: Mechanisms and Transmission Poster V11-Z11 SDCC Halls B-H 7 Wed 1-5 p.m. 751 Parkinson's Disease: Neuroprotection Poster Z12-AA10 SDCC Halls B-H 7 Wed 1-5 p.m. 752 Parkinson's Disease: Neuroprotection Poster C67-D02 SDCC Halls B-H 7 Wed 1-5 p.m. 754 Parkinson's Disease: Neuroprotection Pos	
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747 Alzheimer's Diseases and Other Dementias: Other Dementias Poster T7-U2 SDCC Halls B-H 7 Wed 1-5 p.m. 748 Parkinson's Diseases: Mitochondrial Mechanisms and Genetics Poster U3-V4 SDCC Halls B-H 7 Wed 1-5 p.m. 749 Parkinson's Diseases: Alpha-Synuclein: Models Poster V5-W14 SDCC Halls B-H 7 Wed 1-5 p.m. 750 Parkinson's Diseases: Alpha-Synuclein: Mechanisms Poster W11-Z11 SDCC Halls B-H 7 Wed 1-5 p.m. 751 Parkinson's Diseases: Neuroprotection Poster 212-AA10 SDCC Halls B-H 7 Wed 1-5 p.m. 752 Parkinson's Diseases: Neuroprotective Mechanisms Poster AA11-C66 SDCC Halls B-H 7 Wed 1-5 p.m. 753 Parkinson's Diseases: Neuroprotective Mechanisms Poster CC7-DD2 SDCC Halls B-H 7 Wed 1-5 p.m. 755 Parkinson's Diseases: Preclinical Animal Studies: Cellular and Molecular II Poster DO3-EE7 SDCC Halls B-H 7 Wed 1-5 p.m. 756 Parkinson's Diseases: Molecular Mechanisms: II Poster	
Poster V5—Wilson's Disease: Mitochondrial Mechanisms and Genetics Poster V5—Wil SDCC Halls B—H 7 Wed 1–5 p.m.	
749 Parkinson's Disease: Alpha-Synuclein: Models Poster V5-W14 SDCC Halls B-H 7 Wed 1-5 p.m. 750 Parkinson's Disease: Alpha-Synuclein: Mechanisms and Transmission Poster W15-Y10 SDCC Halls B-H 7 Wed 1-5 p.m. 751 Parkinson's Disease: Circuit Mechanisms Poster Y11-Z11 SDCC Halls B-H 7 Wed 1-5 p.m. 752 Parkinson's Disease: Neuroprotective Mechanisms Poster Z12-AA10 SDCC Halls B-H 7 Wed 1-5 p.m. 753 Parkinson's Disease: Neuroprotective Mechanisms Poster AA11-CC6 SDCC Halls B-H 7 Wed 1-5 p.m. 754 Parkinson's Disease: Neuroprotective Mechanisms Poster CC7-DD2 SDCC Halls B-H 7 Wed 1-5 p.m. 755 Parkinson's Disease: Preclinical Animal Studies: Cellular and Molecular II Poster EE8-FF15 SDCC Halls B-H 7 Wed 1-5 p.m. 756 Parkinson's Disease: Preclinical Animal Studies: Stimulation and Physiology Poster FF16-HH1 SDCC Halls B-H 7 Wed 1-5 p.m. 757 Hurtington's Disease: Molecular Mechanisms II	
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751 Parkinson's Disease: Circuit Mechanisms Poster Y11–Z11 SDCC Halls B—H 7 Wed 1-5 p.m. 752 Parkinson's Disease: Neuroprotection Poster Z12–AA10 SDCC Halls B—H 7 Wed 1-5 p.m. 753 Parkinson's Disease: Neuroprotective Mechanisms Poster AA11–CC6 SDCC Halls B—H 7 Wed 1-5 p.m. 754 Parkinson's Disease: Symptoms and Emerging Therapeutic Avenues Poster CC7–DD2 SDCC Halls B—H 7 Wed 1-5 p.m. 755 Parkinson's Disease: Symptoms and Emerging Therapeutic Avenues Poster DD3–EE7 SDCC Halls B—H 7 Wed 1-5 p.m. 756 Parkinson's Disease: Preclinical Animal Studies: Cellular and Molecular II Poster DD3–EE7 SDCC Halls B—H 7 Wed 1-5 p.m. 756 Parkinson's Disease: Preclinical Animal Studies: Stimulation and Physiology Poster EE8–FF15 SDCC Halls B—H 7 Wed 1-5 p.m. 757 Huttington's Disease: Animal Models and Clinical Trials Poster F16–HH1 SDCC Halls B—H 7 Wed 1-5 p.m. 759 Gulf War Illness: Mechanisms. Causes, and Int	
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Fig. 8 Huntington's Disease: Animal Models and Clinical Trials Poster Poster HH2-II13 SDCC Halls B-H 7 Wed 1-5 p.m. 759 Gulf War Illness: Mechanisms, Causes, and Interventions Poster IL1-MM9 SDCC Halls B-H 7 Wed 1-5 p.m. 760 Neurotoxicity, Inflammation, and Neuroprotection: Mechanisms of Neurotoxicity II Poster LL1-MM9 SDCC Halls B-H 7 Wed 1-5 p.m. 761 Neurotoxicity, Inflammation, and Neuroprotection: Neuroprotective Mechanisms: Preclinical Poster MM10-NN5 SDCC Halls B-H 7 Wed 1-5 p.m. 762 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster NN6-PP10 SDCC Halls B-H 7 Wed 1-5 p.m. 763 Brain Injury and Trauma: Brain: Pre-Clinical Therapeutic Strategies Poster P011-PP21 SDCC Halls B-H 7 Wed 1-5 p.m. 764 How to Get Out of Harm's Way: New Insight Across Multiple Species Into the Neural Mechanisms of Visually Guided Collision Avoidance Minisymposium SDCC 48	
For a composition of Vision: Representation of Objects and Scenes in Mechanisms (Sauses, and Interventions) Poster II14–KK12 SDCC Halls B–H 7 Wed 1–5 p.m. Poster IL11–MM9 SDCC Halls B–H 7 Wed 1–5 p.m. Poster MM10–NN5 SDCC Halls B–H 7 Wed 1–5 p.m. Poster MM10–NN5 SDCC Halls B–H 7 Wed 1–5 p.m. Poster MM10–NN5 SDCC Halls B–H 7 Wed 1–5 p.m. Poster NN6–PP10 SDCC Halls B–H 7 Wed 1–5 p.m. Poster NN6–PP10 SDCC Halls B–H 7 Wed 1–5 p.m. Poster NN6–PP10 SDCC Halls B–H 7 Wed 1–5 p.m. Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. Theme D: Sensory Systems Nanosymposium SDCC Halls B–H 7 Wed 1–5 p.m. SDCC Balls B–H 7 Wed 1–5 p.m. Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. Nanosymposium SDCC Balls B–H 7 Wed 1–5 p.m. Poster PP11–PP21 SDCC Balls B–H 7 Wed 1–5 p.m. Nanosymposium SDCC Balls B–H 7 Wed 1–5 p.m.	
Neurotoxicity, Inflammation, and Neuroprotection: Neuroprotective Mechanisms: Preclinical Poster MM10–NN5 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neurotoxicity, Inflammation, and Neuroprotection: Neuroprotective Mechanisms: Preclinical Poster NN6–PP10 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster NN6–PP10 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster NN6–PP10 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation: Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation: Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation: Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation: Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation: Poster PP11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation: Pp11–PP21 SDCC Halls B–H 7 Wed 1–5 p.m. 7 Neuroinflammation: Pp11–PP21 SDCC Halls B–H 7 Neuroinflammat	
761 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster NN6–PP10 SDCC Halls B—H 7 Wed 1–5 p.m. 762 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster NN6–PP10 SDCC Halls B—H 7 Wed 1–5 p.m. 763 Brain Injury and Trauma: Brain: Pre-Clinical Therapeutic Strategies Poster PP11–PP21 SDCC Halls B—H 7 Wed 1–5 p.m. 764 The User Sensory Systems 765 How to Get Out of Harm's Way: New Insight Across Multiple Species Into the Neural Mechanisms of Visually Guided Collision Avoidance 766 Somatosensation: Cortical Mechanisms 767 Vision: Representation of Objects and Scenes 778 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia 788 Poster 788 NN6–PP10 SDCC Halls B—H 7 Wed 1–5 p.m. 789 Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia 789 Poster 880 PP11–PP21 SDCC Halls B—H 7 Wed 1–5 p.m. 880 SDCC Halls B—H 7	
Neurotoxicity, Inflammation, and Neuroprotection: Neuroinflammation: Beyond Microglia Poster NN6–PP10 SDCC Halls B—H 7 Wed 1–5 p.m. There D: Sensory Systems How to Get Out of Harm's Way: New Insight Across Multiple Species Into the Neural Mechanisms of Visually Guided Collision Avoidance Nanosymposium Nanosymposium Nanosymposium Nanosymposium Nanosymposium Nanosymposium Nanosymposium Nanosymposium SDCC 23 3 Sat 1–2:45 p.m.	
Poster PP11—PP21 SDCC Halls B—H 7 Wed 1—5 p.m. Theme D: Sensory Systems How to Get Out of Harm's Way: New Insight Across Multiple Species Into the Neural Mechanisms of Visually Guided Collision Avoidance Nanosymposium Nanosymposium Nanosymposium SDCC 48 3 Sat 1—2:45 p.m. Nanosymposium Nanosymposium SDCC 32 3 Sat 1—2:45 p.m.	
The U: Sensory Systems 1005 How to Get Out of Harm's Way: New Insight Across Multiple Species Into the Neural Mechanisms of Visually Guided Collision Avoidance 1016 Somatosensation: Cortical Mechanisms 1017 Vision: Representation of Objects and Scenes 1018 Nanosymposium 1019 SDCC 23 1019	
How to Get Out of Harm's Way: New Insight Across Multiple Species Into the Neural Mechanisms of Visually Guided Collision Avoidance Nanosymposium SDCC 6E 3 Sat 1:30–4 p.m. Nanosymposium SDCC 23 3 Sat 1-2:45 p.m. Nanosymposium SDCC 32 3 Sat 1-2:45 p.m.	
of Visually Guided Collision Avoidance Minisymposium SDCC 6E 3 Sat 1:30-4 p.m. Nanosymposium SDCC 23 3 Sat 1-2:45 p.m. Nanosymposium SDCC 32 3 Sat 1-2:45 p.m.	
017 Vision: Representation of Objects and Scenes Nanosymposium SDCC 32 3 Sat 1–2:45 p.m.	2.5
057 Somatosensation: Trigeminal Processing Poster EE4-EE14 SDCC Halls B-H 3 Sat 1-5 p.m.	
O58 Somatosensation: Pain: Headache and Migraine Poster FF1-FF12 SDCC Halls B-H 3 Sat 1-5 p.m.	
059 Subcortical Visual Pathways Poster FF13—HH6 SDCC Halls B—H 3 Sat 1—5 p.m.	
060 Visual Categorization and Learning Poster HH7–HH16 SDCC Halls B–H 3 Sat 1–5 p.m.	
061 Eye Movements and Perception Poster HH17–KK1 SDCC Halls B—H 3 Sat 1–5 p.m.	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
101	Sensorimotor Circuits for Social Communication	Lecture		SDCC Ballroom 20	4 Sun	11:30 a.m 12:40 p.m.	1.25
105	Vision: Visual Cortex: Functional Architecture and Circuits	Nanosymposium		SDCC 23	4 Sun	8-10:30 a.m.	
106	Vision: Representation of Faces and Bodies	Nanosymposium		SDCC 24	4 Sun	8-10:45 a.m.	
139	Olfaction: Olfactory Sensory Neuron Development and Function	Poster	Y2-Y18	SDCC Halls B-H	4 Sun	8 a.mnoon	
140	Auditory Processing: Vocalizations and Natural Sounds	Poster	Z1-AA3	SDCC Halls B-H	4 Sun	8 a.mnoon	
141	Vision: Visual Cortex: Circuits and Populations	Poster	AA4-CC5	SDCC Halls B-H	4 Sun	8 a.mnoon	
142	Vision: Visual System: Response Modulation and Adaptation	Poster	CC6-DD18	SDCC Halls B-H	4 Sun	8 a.mnoon	
143	Striate Cortex: Plasticity	Poster	EE1-FF7	SDCC Halls B-H	4 Sun	8 a.mnoon	
144	Visual Motion I	Poster	FF8-GG9	SDCC Halls B-H	4 Sun	8 a.mnoon	
145	Vision: Spatial and Feature-Based Attention	Poster	GG10-II4	SDCC Halls B-H	4 Sun	8 a.mnoon	
191	Auditory Processing: Adaptation, Learning, and Memory	Nanosymposium		SDCC 24	4 Sun	1-2:30 p.m.	
214	The Role of TRP Channels in Pain and Itch	Poster	U11-V15	SDCC Halls B-H	4 Sun	1-5 p.m.	
215	Pain: Thalamic and Cortical Processing	Poster	V16-W14	SDCC Halls B-H	4 Sun	1-5 p.m.	
216	Treatments for Persistent Pain	Poster	W15-Y10	SDCC Halls B-H	4 Sun	1-5 p.m.	
217	Olfaction: Second Order Regions: Olfactory Bulb and Antennal Lobe	Poster	Y11-Z18	SDCC Halls B-H	4 Sun	1-5 p.m.	
218	Taste	Poster	AA1-BB8	SDCC Halls B-H	4 Sun	1-5 p.m.	
219	Visual Cortex: Functional Architecture and Circuits I	Poster	BB9-DD13	SDCC Halls B-H	4 Sun	1-5 p.m.	
221	Vision: Representation of Objects and Scenes	Poster	DD14-FF8	SDCC Halls B-H	4 Sun	1-5 p.m.	
222	Visual Sensory-Motor Processing: Visually-Guided Reaching and Related Behaviors	Poster	FF9-GG9	SDCC Halls B-H	4 Sun	1-5 p.m.	
223	Multisensory Integration: Cross-Modal Processing: Spatial and Temporal Factors	Poster	GG10-HH12	SDCC Halls B-H	4 Sun	1-5 p.m.	
261	Algorithms for Olfactory Search Across Species	Minisymposium		SDCC 28A	5 Mon	8:30-11 a.m.	2.5
270	Vision and Eye Movements	Nanosymposium		SDCC 4	5 Mon	8-10:15 a.m.	
299	Nociceptors	Poster	W14-Y11	SDCC Halls B-H	5 Mon	8 a.mnoon	
300	Pain Models: Behavior	Poster	Y12-Z14	SDCC Halls B-H	5 Mon	8 a.mnoon	
301	Pain Models: Physiology	Poster	Z15-BB4	SDCC Halls B-H	5 Mon	8 a.mnoon	
302	Inflammatory Pain	Poster	BB5-F26	SDCC Halls B-H	5 Mon	8 a.mnoon	
303	Somatosensation: Central Mechanisms of Neuropathic Pain	Poster	DD1-EE2	SDCC Halls B-H	5 Mon	8 a.mnoon	
304	Visceral and Musculoskeletal Pain	Poster	EE3-EE13	SDCC Halls B-H	5 Mon	8 a.mnoon	
305	Olfaction: Information Processing in Higher Order Circuits	Poster	EE14-GG1	SDCC Halls B-H	5 Mon	8 a.mnoon	
306	Visual Cortex: Circuits and Populations I	Poster	GG2-HH13	SDCC Halls B-H	5 Mon	8 a.mnoon	
307	Vision: Representation of Faces and Bodies	Poster	HH14-JJ1	SDCC Halls B-H	5 Mon	8 a.mnoon	
349	Multidimensional Neuronal Cell Type Classification in the Cerebral Cortex	Minisymposium		SDCC 29D	5 Mon	1:30-4 p.m.	2.5
388	Molecular and Cellular Mechanisms of Itch and Touch Sensation	Poster	V3-W3	SDCC Halls B-H	5 Mon	1-5 p.m.	
389	Central Mechanisms of Pain	Poster	W4-X6	SDCC Halls B-H	5 Mon	1–5 p.m.	
390	Pain: Descending Modulation	Poster	X7-Y10	SDCC Halls B-H	5 Mon	1–5 p.m.	
391	Pain Imaging and Perception	Poster	Y11-AA2	SDCC Halls B-H	5 Mon	1–5 p.m.	
392	Somatosensation: Thalamic and Cortical Processing	Poster	AA3-BB13	SDCC Halls B-H	5 Mon	1–5 p.m.	
393	Auditory Processing: Sound Localization and Binaural Interactions	Poster	BB14-CC8	SDCC Halls B-H	5 Mon	1–5 p.m.	

SESS	ON # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
395	Retinal Circuitry	Poster	EE5-GG1	SDCC Halls B-H	5 Mon	1-5 p.m.	
396	Visual Cortical Streams: Rodentia, Primate, and Carnivora	Poster	GG2-GG11	SDCC Halls B-H	5 Mon	1-5 p.m.	
397	Vision: Extrastriate Cortex	Poster	GG12-HH12	SDCC Halls B-H	5 Mon	1-5 p.m.	
435	The Feeling Within: Molecules to Behavior Underlying Interoception	Symposium		SDCC 6B	6 Tue	8:30-11 a.m.	2.5
450	Vision: Contrast, Form, and Color	Nanosymposium		SDCC 33	6 Tue	8-10:30 a.m.	
478	Pain: Opioid Receptor Pharmacology and Signaling Mechanisms	Poster	Y14-Z10	SDCC Halls B-H	6 Tue	8 a.mnoon	
479	Pain: Non-Opioid Analgesics	Poster	Z11-AA6	SDCC Halls B-H	6 Tue	8 a.mnoon	
480	Touch: Barrel Cortex I	Poster	AA7-BB10	SDCC Halls B-H	6 Tue	8 a.mnoon	
481	Olfaction: Perception and Behavior	Poster	BB11-DD5	SDCC Halls B-H	6 Tue	8 a.mnoon	
482	Auditory and Vestibular Systems: Hair Cells and the Periphery	Poster	DD6-EE7	SDCC Halls B-H	6 Tue	8 a.mnoon	
483	Auditory Processing: Perception, Cognition, and Action	Poster	EE8-FF16	SDCC Halls B-H	6 Tue	8 a.mnoon	
484	Visual Cortex: Circuits and Populations II	Poster	FF17-GG14	SDCC Halls B-H	6 Tue	8 a.mnoon	
485	Visual Cortex: Circuits and Populations III	Poster	GG15-HH4	SDCC Halls B-H	6 Tue	8 a.mnoon	
486	Visual Cognition: Decision Making I	Poster	HH5-HH17	SDCC Halls B-H	6 Tue	8 a.mnoon	
487	Visual Sensory-Motor Processing I	Poster	1- 12	SDCC Halls B-H	6 Tue	8 a.mnoon	
488	Visual Sensory-Motor Processing II	Poster	II13-KK7	SDCC Halls B-H	6 Tue	8 a.mnoon	
489	Multisensory Integration: Cross-Modal Processing in Humans I	Poster	KK8-LL8	SDCC Halls B-H	6 Tue	8 a.mnoon	
543	Somatosensation: Peripheral Mechanisms and Spinal Circuits	Nanosymposium		SDCC 5	6 Tue	1–4 p.m.	
570	Sensory Disorders: Visual and Auditory	Poster	T17-U9	SDCC Halls B-H	6 Tue	1-5 p.m.	
571	Pain Models: Pharmacology	Poster	U10-W7	SDCC Halls B-H	6 Tue	1-5 p.m.	
572	Peripheral Mechanisms of Persistent Pain	Poster	W8-X6	SDCC Halls B-H	6 Tue	1-5 p.m.	
573	Auditory Processing: Circuits, Synapses, and Neurotransmitters	Poster	X7-Z4	SDCC Halls B-H	6 Tue	1-5 p.m.	
574	Auditory Processing: Adaptation, Learning, and Memory	Poster	Z5-BB4	SDCC Halls B-H	6 Tue	1-5 p.m.	
575	Auditory Processing: Perception, Cognition, and Action II	Poster	BB5-CC7	SDCC Halls B-H	6 Tue	1-5 p.m.	
576	Vestibular Physiology and Anatomy	Poster	CC8-DD15	SDCC Halls B-H	6 Tue	1-5 p.m.	
577	Vision: Retina: Photoreceptors	Poster	DD16-EE9	SDCC Halls B-H	6 Tue	1-5 p.m.	
578	Visual System: Responses During Behavior	Poster	EE10-GG1	SDCC Halls B-H	6 Tue	1–5 p.m.	
579	Visual Cortex: Functional Architecture and Circuits II	Poster	GG2-HH10	SDCC Halls B-H	6 Tue	1–5 p.m.	
580	Vision: Processing of Contrast, Form, and Color	Poster	HH11-II17	SDCC Halls B-H	6 Tue	1–5 p.m.	
581	Multisensory Integration and Cross-Modal Processing	Poster	II8-JJ5	SDCC Halls B-H	6 Tue	1–5 p.m.	
582	Multisensory Integration: Cross-Modal Processing in Humans II	Poster	JJ6-LL5	SDCC Halls B-H	6 Tue	1–5 p.m.	
618	Novel Molecular Targets for the Treatment of Pain	Minisymposium		SDCC 6E	7 Wed	8:30-11 a.m.	2.5
622	A Genetic Roadmap to Understanding Auditory Perception Mechanisms	Lecture		SDCC Ballroom 20	7 Wed	10-11:10 a.m.	1.25
630	The Chemical Senses : Dynamics and Plasticity of Olfactory and Gustatory Coding	Nanosymposium		SDCC 23	7 Wed	8-10:45 a.m.	
666	Peripheral Mechanisms of Neuropathic Pain	Poster	DD3-EE13	SDCC Halls B-H	7 Wed	8 a.mnoon	
667	Touch: Barrel Cortex II	Poster	EE14-GG1	SDCC Halls B-H	7 Wed	8 a.mnoon	
668	Touch and Proprioception	Poster	GG2-HH6	SDCC Halls B-H	7 Wed	8 a.mnoon	
669	Visual Pathways: To and From the Cortex	Poster	HH7-II8	SDCC Halls B-H	7 Wed	8 a.mnoon	

SESS	ON # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
704	Light Detection in the Eye: The Big Picture	Lecture		SDCC Ballroom 20	7 Wed	1–2:10 p.m.	1.25
717	Pain Imaging and Perception	Nanosymposium		SDCC 30E	7 Wed	1–3 p.m.	
718	Vestibular Systems: VOR, Locomotion, and Gaze	Nanosymposium		SDCC 2	7 Wed	1-2:45 p.m.	
719	Vision: Extrastriate Cortex	Nanosymposium		SDCC 23	7 Wed	1-3 p.m.	
764	Touch: Plasticity and Reorganization	Poster	PP22-QQ10	SDCC Halls B-H	7 Wed	1-5 p.m.	
765	Touch: Central Representation of Stimulus Features	Poster	QQ11-QQ24	SDCC Halls B-H	7 Wed	1-5 p.m.	
766	Auditory Processing: Neural Coding, Experiment, and Theory	Poster	QQ25-SS14	SDCC Halls B-H	7 Wed	1-5 p.m.	
767	Visual Cognition: Decision Making II	Poster	TT1-TT22	SDCC Halls B-H	7 Wed	1-5 p.m.	
Them	e E: Motor Systems						
006	Latent Factors and Dynamics in Motor Cortex and Their Application to Brain-Machine Interfaces	Minisymposium		SDCC 28A	3 Sat	1:30-4 p.m.	2.5
062	Posture and Gait: Aging, Injury, and Disease I	Poster	KK2-KK12	SDCC Halls B-H	3 Sat	1-5 p.m.	
063	Posture and Gait: Aging, Injury, and Disease II	Poster	LL1-MM7	SDCC Halls B-H	3 Sat	1-5 p.m.	
064	CPG Modulation	Poster	MM8-NN3	SDCC Halls B-H	3 Sat	1-5 p.m.	
065	Rhythmic Motor Pattern Generation: Afferent and Descending Control	Poster	NN4-002	SDCC Halls B-H	3 Sat	1–5 p.m.	
092	Bidirectional Interactions Between the Brain and Implantable Computers	Lecture		SDCC Ballroom 20	4 Sun	8:30- 9:40 a.m.	1.25
096	The Dynamic Interaction of Vision and Eye Movements	Minisymposium		SDCC 6E	4 Sun	8:30-11 a.m.	2.5
107	Voluntary Movements	Nanosymposium		SDCC 25	4 Sun	8-10:30 a.m.	
146	Cellular Physiology in the Basal Ganglia: Novel Cell Types and Mechanisms	Poster	II5-KK4	SDCC Halls B-H	4 Sun	8 a.mnoon	
147	Basal Ganglia Systems in Motivated Behaviors	Poster	KK5-MM3	SDCC Halls B-H	4 Sun	8 a.mnoon	
148	Brain-Machine Interface: Neurophysiology: Non-Invasive Techniques: Ultrasound and Other	Poster	MM4-NN3	SDCC Halls B-H	4 Sun	8 a.mnoon	
149	Posture and Gait: Kinematics, Muscle Activity, Exercise and Fatigue, and Biomechanics I	Poster	NN3-0010	SDCC Halls B-H	4 Sun	8 a.mnoon	
150	Posture and Gait: Afferent Control	Poster	0011-PP3	SDCC Halls B-H	4 Sun	8 a.mnoon	
151	Rhythmic Motor Pattern Generation: Connectivity	Poster	PP4-PP20	SDCC Halls B-H	4 Sun	8 a.mnoon	
180	More Than Just a "Motor": Recent Surprises From the Frontal Cortex	Minisymposium		SDCC 28A	4 Sun	1:30-4 p.m.	2.5
224	Voluntary Movements: Interlimb and Bimanual Control	Poster	HH13-II8	SDCC Halls B-H	4 Sun	1-5 p.m.	
225	Brain-Machine Interface: Neurophysiology and Methods Development	Poster	II9-KK12	SDCC Halls B-H	4 Sun	1-5 p.m.	
226	Brain-Machine Interface: Vision-Related	Poster	LL1-LL10	SDCC Halls B-H	4 Sun	1-5 p.m.	
258	Targeted Therapies for Parkinson's Disease: From Genetics to the Clinic	Symposium		SDCC 6B	5 Mon	8:30-11 a.m.	2.5
271	Brain-Machine Interface	Nanosymposium		SDCC 7	5 Mon	8-11:30 a.m.	
308	Voluntary Movements: Reaching Control: Motor Learning: Human I	Poster	JJ2-LL8	SDCC Halls B-H	5 Mon	8 a.mnoon	
309	Voluntary Movements: Reaching Control: Motor Learning: Human II	Poster	LL9-NN5	SDCC Halls B-H	5 Mon	8 a.m.–noon	
310	Voluntary Movements: Cortical Planning and Execution: Neurophysiology: Animal I	Poster	NN6-003	SDCC Halls B-H	5 Mon	8 a.mnoon	
311	Voluntary Movements: Cortical Planning and Execution: Neuroimaging	Poster	004-PP4	SDCC Halls B-H	5 Mon	8 a.mnoon	
312	Brain-Machine Interface: Reaching Movements	Poster	PP5-QQ3	SDCC Halls B-H	5 Mon	8 a.mnoon	
313	Rhythmic Motor Pattern Generation: Stability and Variability	Poster	QQ4-QQ16	SDCC Halls B-H	5 Mon	8 a.mnoon	
357	Cerebellum: Local and Long-Range Functions	Nanosymposium		SDCC 4	5 Mon	1-3:45 p.m.	
398	Eye Movements: Central Mechanism in Animal Models	Poster	HH13-JJ3	SDCC Halls B-H	5 Mon	1–5 p.m.	
399	Eye Movements: Saccade Behavior and Psychophysics in Humans	Poster	JJ4-LL7	SDCC Halls B-H	5 Mon	1–5 p.m.	

SESS	ON # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
400	Voluntary Movements: Reaching Control: Action and Sensation	Poster	LL8-MM5	SDCC Halls B-H	5 Mon	1–5 p.m.	
401	Voluntary Movements: Reaching Control: Movement Selection and Strategy	Poster	MM6-NN14	SDCC Halls B-H	5 Mon	1-5 p.m.	
402	Voluntary Movements: Plasticity	Poster	NN15-PP8	SDCC Halls B-H	5 Mon	1-5 p.m.	
403	Brain-Machine Interface: Grasp	Poster	PP9-QQ1	SDCC Halls B-H	5 Mon	1-5 p.m.	
404	Brain-Machine Interface: Somatosensory	Poster	QQ2-QQ12	SDCC Halls B-H	5 Mon	1-5 p.m.	
405	Sensory Input to Respiratory Control	Poster	QQ13-QQ26	SDCC Halls B-H	5 Mon	1-5 p.m.	
440	Neuroprosthetic Devices: A Patient's Perspective on Brain Computer Interfaces	Basic-Translational- Clinical Roundtable		SDCC 10	6 Tue	8:30-11 a.m.	2.5
451	Respiration Control	Nanosymposium		SDCC 23	6 Tue	8-9:30 a.m.	
490	Cerebellum: Plasticity and Climbing Fibers	Poster	LL9-MM12	SDCC Halls B-H	6 Tue	8 a.mnoon	
491	Basal Ganglia Systems in Acquired Behaviors	Poster	MM13-NN15	SDCC Halls B-H	6 Tue	8 a.mnoon	
492	Voluntary Movements: Finger and Grasp Control: Age, Pathology, and Physiology	Poster	NN16-0012	SDCC Halls B-H	6 Tue	8 a.mnoon	
493	Voluntary Movements: Reaching Control: Motor Learning: Animal	Poster	0013-PP13	SDCC Halls B-H	6 Tue	8 a.mnoon	
494	Posture and Gait: Kinematics, Muscle Activity, Exercise and Fatigue, and Biomechanics II	Poster	PP14-QQ14	SDCC Halls B-H	6 Tue	8 a.mnoon	
495	Posture and Gait: Higher Order Control, Multi-Task Integration, and Theory	Poster	QQ15-SS1	SDCC Halls B-H	6 Tue	8 a.mnoon	
496	Rhythmic Motor Pattern Generation: Speed and Phasing	Poster	SS2-SS11	SDCC Halls B-H	6 Tue	8 a.mnoon	
497	Motor Neurons and Muscle: Activity, Sensory, and Central Control: Exercise, Injury, and Disease I	Poster	SS12-TT17	SDCC Halls B-H	6 Tue	8 a.mnoon	
498	Motor Neurons: Development and Disease	Poster	TT18-UU5	SDCC Halls B-H	6 Tue	8 a.mnoon	
583	Cerebellum: Cortex and Nuclei I	Poster	LL6-NN1	SDCC Halls B-H	6 Tue	1-5 p.m.	
584	Cerebellum: Cortex and Nuclei II	Poster	NN2-007	SDCC Halls B-H	6 Tue	1-5 p.m.	
585	Voluntary Movements: Cortical Planning and Execution: Behavior	Poster	008-PP16	SDCC Halls B-H	6 Tue	1-5 p.m.	
586	Voluntary Movements: Cortical Planning and Execution: Neurophysiology: Human	Poster	PP17-QQ12	SDCC Halls B-H	6 Tue	1-5 p.m.	
587	Voluntary Movements: Cortical Planning and Execution: Neurophysiology: Animal II	Poster	QQ13-RR14	SDCC Halls B-H	6 Tue	1-5 p.m.	
588	Vocal and Oral Control Mechanisms From Song to Speech	Poster	SS1-TT10	SDCC Halls B-H	6 Tue	1-5 p.m.	
589	Novel Electrode Designs, CNS, and Periphery	Poster	TT11-UU7	SDCC Halls B-H	6 Tue	1-5 p.m.	
590	Brain-Machine: Speech and Other Motor Systems	Poster	UU8-VV3	SDCC Halls B-H	6 Tue	1-5 p.m.	
621	Cortical Control of Locomotion and Posture	Minisymposium		SDCC 31C	7 Wed	8:30-11 a.m.	2.5
670	Observing and Altering Basal Ganglia Activity From Mouse to Human	Poster	II9-KK5	SDCC Halls B-H	7 Wed	8 a.mnoon	
671	Voluntary Movements: Finger and Grasp Control: Normal Human Behavior	Poster	KK6-LL14	SDCC Halls B-H	7 Wed	8 a.mnoon	
672	Brain-Machine: Technical Development and Theory	Poster	MM1-NN9	SDCC Halls B-H	7 Wed	8 a.mnoon	
673	Posture and Gait: Reflexes and Reflex Modulation	Poster	NN10-0011	SDCC Halls B-H	7 Wed	8 a.mnoon	
674	Motor Control and Modulation of Respiration	Poster	0012-PP10	SDCC Halls B-H	7 Wed	8 a.mnoon	
675	Motor Neurons and Muscle: Motorneuron-Muscle Interface and Muscle Physiology/Biochemistry	Poster	PP11-QQ9	SDCC Halls B-H	7 Wed	8 a.mnoon	
708	The Basal Ganglia: Beyond Action Selection	Minisymposium		SDCC 6E	7 Wed	1:30-4 p.m.	2.5
720	Neural Activity Patterns for Speech and Sign Language in Disease and Health	Nanosymposium		SDCC 30B	7 Wed	1–3 p.m.	
768	Cerebellum: Human Studies	Poster	TT23-UU9	SDCC Halls B-H	7 Wed	1–5 p.m.	
769	Histologic Responses to Electrode Insertion	Poster	UU10-UU21	SDCC Halls B-H	7 Wed	1–5 p.m.	
770	Spinal Prosthetics and Stimulation	Poster	UU22-VV11	SDCC Halls B-H	7 Wed	1–5 p.m.	
771	Motor Neurons and Muscle: Activity, Sensory, and Central Control: Exercise, Injury, and Disease II	Poster	VV12-WW7	SDCC Halls B-H	7 Wed	1–5 p.m.	

Page Marco Neuronal and Municipal Miss and Entropy (Schemather, and PMS) More	SESSI	ON # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
	772	Motor Neurons and Muscle: Motor Unit Recordings, Kinematics, and EMG	Poster	WW8-XX8	SDCC Halls B-H	7 Wed	1-5 p.m.	
	Them	e F: Integrative Physiology and Behavior						
1966 Sines Manufactorionagy of Sawar Behandor Poeter Poete	004	·	Minisymposium		SDCC 6C	3 Sat	1:30-4 p.m.	2.5
	018	Timely Insights in Circadian Regulation	Nanosymposium		SDCC 4	3 Sat	1-3:45 p.m.	
	066	Neuroendocrinology of Sexual Behavior	Poster	003-PP13	SDCC Halls B-H	3 Sat	1-5 p.m.	
	067	Stress-Modulated Pathways, Neuromodulators, and Behavior	Poster	PP14-QQ10	SDCC Halls B-H	3 Sat	1-5 p.m.	
	068	Brain Blood Flow, Metabolism, and Homeostasis: Energy Metabolism	Poster	QQ11-RR6	SDCC Halls B-H	3 Sat	1-5 p.m.	
Poster	069	Recent Advances in Cardiovascular Regulation	Poster	RR7-SS7	SDCC Halls B-H	3 Sat	1-5 p.m.	
10.00 Multiscale Computer Michaeling of Neural Circuits in Health and Disease 10.00 1	070	Cardiovascular Regulation: New Insights	Poster	SS8-TT10	SDCC Halls B-H	3 Sat	1-5 p.m.	
Nanosymposium Section	071	Thermoregulation: Cool News and Hot Topics	Poster	TT11-TT18	SDCC Halls B-H	3 Sat	1-5 p.m.	
152 Neuroethology: Sensony and Motor's Systems Poster Post	093	Multiscale Computer Modeling of Neural Circuits in Health and Disease	Symposium		SDCC 6A	4 Sun	8:30-11 a.m.	2.5
153 Neuroendocrinology of Social Behavior Poster O.023—SS11 SOC Haile B—H 4 Sun 8 a.m.—non 1	108	Behavioral Neuroendocrinology: Hormones and Cognition	Nanosymposium		SDCC 5	4 Sun	8-10 a.m.	
154 Neuroendocrino Processes: Sexual Differentiation	152	Neuroethology: Sensory and Motor Systems	Poster	PP21-QQ22	SDCC Halls B-H	4 Sun	8 a.mnoon	
15 15 15 15 15 15 15 15	153	Neuroendocrinology of Social Behavior	Poster	QQ23-SS11	SDCC Halls B-H	4 Sun	8 a.mnoon	
Poster Wilder W	154	Neuroendocrine Processes: Sexual Differentiation	Poster	SS12-TT16	SDCC Halls B-H	4 Sun	8 a.mnoon	
Signature Sign	155	Stress and the Hypothalamus, Amygdala, and Bed Nucleus	Poster	TT17-UU13	SDCC Halls B-H	4 Sun	8 a.mnoon	
177 and Gene Transfer 179 and Gene Transfer 179 Success 179 179 Success 179	156	Stress-Modulated Pathways: Hypothalamus, Amygdala, and Bed Nucleus	Poster	UU14-VV9	SDCC Halls B-H	4 Sun	8 a.mnoon	
227 Stress and Cognition Poster LL11-NN13 SDCC Halls B-H 4 Sun 1-5 p.m. 228 Autonomic Regulation: Gastrointestinal, Renal/Urinary, and Reproductive Regulation Poster NN14-PP5 SDCC Halls B-H 4 Sun 1-5 p.m. 259 Defining Dysbiosis in Disorders of Movement and Motivation Minisymposium: SDCC Halls B-H 5 Mon 8 a.mnoon 2.5 314 Behavioral Neuroendocrinology: Hormones and Cognition I Poster Q017-RR10 SDCC Halls B-H 5 Mon 8 a.mnoon	177		Symposium		SDCC 6B	4 Sun	1:30-4 p.m.	2.5
Autonomic Regulation: Gastrointestinal, Renal/Urinary, and Reproductive Regulation Poster NN14 – PP5 SDCC Rdlls B—H 4 Sun 1–5 p.m. 2.5	192	Sleep: Hot Topics	Nanosymposium		SDCC 7	4 Sun	1-4 p.m.	
Defining Dysbiosis in Disorders of Movement and Motivation Minisymposium SDCC 6C 5 Mon 8:30–11 a.m. 2.51 314 Behavioral Neuroendocrinology: Hormones and Cognition I Poster 0017–RR10 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress and the Brain: Cellular Actions Poster RR11–SS12 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress Modulated Pathways: Cortex and Striatum Poster SS13–TT19 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster TZ0–UU18 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster TZ0–UU18 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster UU19–WW1 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster UU19–WW1 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster UU19–WW1 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster WW2–YY2 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster WW2–YY2 SDCC Halls B–H 5 Mon 8 a.m. – noon 1 SDC Stress-Modulated Pathways: Hippocampus Poster WW2–YY2 SDCC Halls B–H 5 Mon 1 Sp.m. – 1 SDC SDC Halls B–H 5 Mon 1 Sp.m. – 1 SDC SDC Halls B–H 5 Mon 1 Sp.m. – 1 SDC SDC Halls B–H 5 Mon 1 Sp.m. – 1 SDC SDC Halls B–H 5 Mon 1 Sp.m. – 1 SDC Halls B–H 5	227	Stress and Cognition	Poster	LL11-NN13	SDCC Halls B-H	4 Sun	1-5 p.m.	
Stress and the Brain: Cellular Actions Poster Rint	228	Autonomic Regulation: Gastrointestinal, Renal/Urinary, and Reproductive Regulation	Poster	NN14-PP5	SDCC Halls B-H	4 Sun	1-5 p.m.	
315 Stress and the Brain: Cellular Actions Poster RR11-SS12 SDCC Halls B-H 5 Mon 8 a.mnoon 316 Stress-Modulated Pathways: Cortex and Striatum Poster SS13-TT19 SDCC Halls B-H 5 Mon 8 a.mnoon 317 Stress-Modulated Pathways: Hippocampus Poster TT20-UU18 SDCC Halls B-H 5 Mon 8 a.mnoon 318 Brain Blood Flow Poster UU19-WW1 SDCC Halls B-H 5 Mon 8 a.mnoon 319 Food Intake and Energy Balance: Integration of Peripheral Signals Poster WW2-YY2 SDCC Halls B-H 5 Mon 8 a.mnoon 346 Sex Differences in Risk and Resilience: Stress Effects on the Neural Substrates of Emotion and Motivation Poster RR1-TT2 SDCC Halls B-H 5 Mon 1-5 p.m. 407 Social Communication in Non-Avian Species Poster TT3-UU1 SDCC Halls B-H 5 Mon 1-5 p.m. 408 Stress and the Brain: Neuroimmunology Poster WW3-WW2 SDCC Halls B-H 5 Mon 1-5 p.m. 410 Molecular Biology and Physiology of Clocks Poster WW3-WW	259	Defining Dysbiosis in Disorders of Movement and Motivation	Minisymposium		SDCC 6C	5 Mon	8:30-11 a.m.	2.5
Stress-Modulated Pathways: Cortex and Striatum Poster SS13—TT19 SDCC Halls B—H SMon 8 a.m.—noon TT20—UU18 SDCC Halls B—H SMon 8 a.m.—noon TT20—UU19—WW1 SDCC Halls B—H SMon 1:30—4 p.m. 2.5 TT20—UU19—WW1 SDCC Halls B—H SMon 1:30—4 p.m. 2.5 TT20—UU19—WW1 SDCC Halls B—H SMon 1-5 p.m. TS p.m.	314	Behavioral Neuroendocrinology: Hormones and Cognition I	Poster	QQ17-RR10	SDCC Halls B-H	5 Mon	8 a.mnoon	
Stress-Modulated Pathways: Hippocampus Poster TT20-UU18 SDCC Halls B-H 5 Mon 8 a.m.—noon Poster UU19—WW1 SDCC Halls B-H 5 Mon 8 a.m.—noon Poster UU19—WW2-YY2 SDCC Halls B-H 5 Mon 8 a.m.—noon Poster WW2-YY2 SDCC Halls B-H 5 Mon 8 a.m.—noon WW2-YY2 SDCC Halls B-H 5 Mon 8 a.m.—noon Minisymposium SDCC Halls B-H 5 Mon 8 a.m.—noon Minisymposium SDCC Halls B-H 5 Mon 1:30-4 p.m. 2.5 Minisymposium SDCC Halls B-H 5 Mon 1-5 p.m. Poster RR1—TT2 SDCC Halls B-H 5 Mon 1-5 p.m. Poster SDCC Halls B-H	315	Stress and the Brain: Cellular Actions	Poster	RR11-SS12	SDCC Halls B-H	5 Mon	8 a.mnoon	
Brain Blood Flow Poster UU19—WW1 SDCC Halls B—H 5 Mon 8 a.m.—noon 8 m.—noon 9 Minisymposium SDCC Halls B—H 5 Mon 8 a.m.—noon 9 Minisymposium SDCC Halls B—H 5 Mon 8 a.m.—noon 1 m. 319 Food Intake and Energy Balance: Integration of Peripheral Signals Poster WW2—YY2 SDCC Halls B—H 5 Mon 8 a.m.—noon 1 m. 32 f. 32 f	316	Stress-Modulated Pathways: Cortex and Striatum	Poster	SS13-TT19	SDCC Halls B-H	5 Mon	8 a.mnoon	
Food Intake and Energy Balance: Integration of Peripheral Signals Poster Minisymposium SDCC Halls B-H Minisymposium Minisymposium SDCC Halls B-H Minisymposium Minisymposium SDCC Halls B-H Minisymposium Mi	317	Stress-Modulated Pathways: Hippocampus	Poster	TT20-UU18	SDCC Halls B-H	5 Mon	8 a.mnoon	
Sex Differences in Risk and Resilience: Stress Effects on the Neural Substrates of Emotion and Motivation Advances in the Neural Basis of Birdsong Poster RR1—TT2 SDCC Halls B—H 5 Mon 1–5 p.m. 1–5 p.m. Poster TT3—UU1 SDCC Halls B—H 5 Mon 1–5 p.m. Poster UU2—VV4 SDCC Halls B—H 5 Mon 1–5 p.m. Poster UU3—VV4 SDCC Halls B—H 5 Mon 1–5 p.m. Poster WW3—XW9 Poster WW3—XW9 SDC	318	Brain Blood Flow	Poster	UU19-WW1	SDCC Halls B-H	5 Mon	8 a.mnoon	
Emotion and Motivation Minisymposium Poster RR1–TT2 SDCC Halls B–H 5 Mon 1–5 p.m. Poster TT3–UU1 SDCC Halls B–H 5 Mon 1–5 p.m. Poster TT3–UU1 SDCC Halls B–H 5 Mon 1–5 p.m. Poster UU2–VV4 SDCC Halls B–H 5 Mon 1–5 p.m. Poster UU2–VV4 SDCC Halls B–H 5 Mon 1–5 p.m. Poster VV5–WW2 SDCC Halls B–H 5 Mon 1–5 p.m. Poster VV5–WW2 SDCC Halls B–H 5 Mon 1–5 p.m. Poster VV5–WW2 SDCC Halls B–H 5 Mon 1–5 p.m. Poster VV5–WW2 SDCC Halls B–H 5 Mon 1–5 p.m. Poster VV5–WW2 SDCC Halls B–H 5 Mon 1–5 p.m. Lecture SDCC Ballroom 20 6 Tue 1–5 p.m. 1.25 Brain Blood Flow and Blood Brain Barrier	319	Food Intake and Energy Balance: Integration of Peripheral Signals	Poster	WW2-YY2	SDCC Halls B-H	5 Mon	8 a.mnoon	
407 Social Communication in Non-Avian Species 408 Stress and the Brain: Neuroimmunology 409 Biological Rhythms and Sleep: Entrainment and Phase Shifts 409 Poster 409 W3-XX9 400 SDCC Halls B-H 400 Molecular Biology and Physiology of Clocks 410 Molecular Biology and Physiology of Clocks 411 Sleep: Molecules Cells and Drugs 412 The Genetics, Neurobiology, and Evolution of Natural Behavior 413 Brain Blood Flow and Blood Brain Barrier 414 Nanosymposium 415 SDCC 30E 416 SMON 1-5 p.m. 417 Poster 418 SDCC Ballroom 20 6 Tue 10-11:10 a.m. 1.25 419 Brain Blood Flow and Blood Brain Barrier 410 Nanosymposium 411 SDCC 30E 411 SDCC 30E 412 SMON 1-5 p.m. 413 SDCC 30E 414 SMON 1-5 p.m. 415 SMON 1-5 p.m. 416 SMON 1-5 p.m. 417 SMON 1-5 p.m. 418 SDCC 30E 419 SMON 1-5 p.m. 410 SDCC 30E	346		Minisymposium		SDCC 6C	5 Mon	1:30-4 p.m.	2.5
Stress and the Brain: Neuroimmunology Poster UU2–VV4 SDCC Halls B–H 5 Mon 1–5 p.m. Poster VV5–WW2 SDCC Halls B–H 5 Mon 1–5 p.m. Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Poster XX10–YY18 SDCC Halls B–H 5 Mon 1–5 p.m. Lecture SDCC Ballroom 20 6 Tue 10–11:10 a.m. 1.25 Brain Blood Flow and Blood Brain Barrier	406	Advances in the Neural Basis of Birdsong	Poster	RR1-TT2	SDCC Halls B-H	5 Mon	1-5 p.m.	
Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster VV5–WW2 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5 Mon 1–5 p.m. Hospital Rhythms and Sleep: Entrainment and Phase Shifts Poster WW3–XX9 SDCC Halls B–H 5	407	Social Communication in Non-Avian Species	Poster	TT3-UU1	SDCC Halls B-H	5 Mon	1-5 p.m.	
410 Molecular Biology and Physiology of Clocks 411 Sleep: Molecules Cells and Drugs 412 Poster 413 Sleep: Molecules Cells and Drugs 414 The Genetics, Neurobiology, and Evolution of Natural Behavior 415 Brain Blood Flow and Blood Brain Barrier 416 Poster 417 Nanosymposium 418 SDCC Halls B—H 419 5 Mon 419 1—5 p.m. 410 1—5 p.m. 410 1—1:10 a.m. 411 2.25 1—25 1—25 1—25 1—25 1—25 1—25 1—25 1—	408	Stress and the Brain: Neuroimmunology	Poster	UU2-VV4	SDCC Halls B-H	5 Mon	1–5 p.m.	
411 Sleep: Molecules Cells and Drugs Poster XX10—YY18 SDCC Halls B—H 5 Mon 1—5 p.m. 441 The Genetics, Neurobiology, and Evolution of Natural Behavior Lecture SDCC Ballroom 20 6 Tue 10—11:10 a.m. 1.25 452 Brain Blood Flow and Blood Brain Barrier Nanosymposium SDCC 30E 6 Tue 8—10:30 a.m.	409	Biological Rhythms and Sleep: Entrainment and Phase Shifts	Poster	VV5-WW2	SDCC Halls B-H	5 Mon	1-5 p.m.	
The Genetics, Neurobiology, and Evolution of Natural Behavior Lecture SDCC Ballroom 20 6 Tue 10–11:10 a.m. 1.25 452 Brain Blood Flow and Blood Brain Barrier Nanosymposium SDCC 30E 6 Tue 8–10:30 a.m.	410	Molecular Biology and Physiology of Clocks	Poster	WW3-XX9	SDCC Halls B-H	5 Mon	1–5 p.m.	
452 Brain Blood Flow and Blood Brain Barrier Nanosymposium SDCC 30E 6 Tue 8–10:30 a.m.	411	Sleep: Molecules Cells and Drugs	Poster	XX10-YY18	SDCC Halls B-H	5 Mon	1-5 p.m.	
• •	441	The Genetics, Neurobiology, and Evolution of Natural Behavior	Lecture		SDCC Ballroom 20	6 Tue	10-11:10 a.m.	1.25
499 Neurophysiologic Effects of Early-Life Stress Poster UU6–VV5 SDCC Halls B–H 6 Tue 8 a.mnoon	452	Brain Blood Flow and Blood Brain Barrier	Nanosymposium		SDCC 30E	6 Tue	8-10:30 a.m.	
	499	Neurophysiologic Effects of Early-Life Stress	Poster	UU6-VV5	SDCC Halls B-H	6 Tue	8 a.mnoon	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
500	Early-Life Stress: Molecular Mechanisms and Cellular Effects	Poster	VV6-WW2	SDCC Halls B-H	6 Tue	8 a.mnoon	
501	Water and Salt Balance and Thirst	Poster	WW3-XX5	SDCC Halls B-H	6 Tue	8 a.mnoon	
532	Neuropeptide Signaling: From Physiology to Behavior	Minisymposium		SDCC 6E	6 Tue	1:30-4 p.m.	2.5
544	Neuro-Oncology	Nanosymposium		SDCC 1	6 Tue	1-2:45 p.m.	
591	Behavioral Neuroendocrinology: Parental Behavior	Poster	VV4-VV18	SDCC Halls B-H	6 Tue	1–5 p.m.	
592	Behavioral Neuroendocrinology: Modulation of Defensive and Aggressive Behaviors	Poster	VV19-XX2	SDCC Halls B-H	6 Tue	1-5 p.m.	
593	Behavioral Neuroendocrinology: Hormones and Cognition II	Poster	XX3-YY15	SDCC Halls B-H	6 Tue	1–5 p.m.	
594	Neuroimmunology: Regulating Systems	Poster	YY16-ZZ20	SDCC Halls B-H	6 Tue	1–5 p.m.	
595	Neuroimmunology: Behavioral Effects	Poster	ZZ21-AAA15	SDCC Halls B-H	6 Tue	1-5 p.m.	
596	Biological Rhythms and Sleep: Regulators	Poster	AAA16-BBB8	SDCC Halls B-H	6 Tue	1-5 p.m.	
597	Biological Rhythms and Sleep: Systems	Poster	BBB9-DDD2	SDCC Halls B-H	6 Tue	1–5 p.m.	
598	Non-Peptide Regulation of Food Intake and Energy Balance	Poster	DDD3-DDD22	SDCC Halls B-H	6 Tue	1–5 p.m.	
615	Multiple Axes of Dopamine Systems for Behavioral Controls: From Fly Via Rodent to Monkey	Symposium		SDCC 6A	7 Wed	8:30-11 a.m.	2.5
676	Neuroethology: New Insights in Sensory and Motor Systems	Poster	QQ10-RR5	SDCC Halls B-H	7 Wed	8 a.mnoon	
677	Brain Blood Flow, Metabolism, and Homeostasis: Blood Brain Barrier	Poster	RR6-TT2	SDCC Halls B-H	7 Wed	8 a.mnoon	
678	Sleep Behavior	Poster	TT3-UU3	SDCC Halls B-H	7 Wed	8 a.mnoon	
679	Biological Rhythms and Sleep: Behavior	Poster	UU4-VV7	SDCC Halls B-H	7 Wed	8 a.mnoon	
680	Central Pathways Controlling Food Intake and Energy Balance	Poster	VV8-WW13	SDCC Halls B-H	7 Wed	8 a.mnoon	
706	The Emerging Role of the Amygdala in Modulating the Somatosensory and Emotional Components of Pain and Itch	Symposium		SDCC 6B	7 Wed	1:30-4 p.m.	2.5
773	Neuroendocrine Processes: The HPG Axis	Poster	XX9-YY16	SDCC Halls B-H	7 Wed	1-5 p.m.	
774	Neuroendocrine Processes: Neuroendocrinology, Anatomy, and Physiology	Poster	YY17-ZZ19	SDCC Halls B-H	7 Wed	1-5 p.m.	
775	Early-Life Stress: Anxiety, Social Function, and Depression	Poster	ZZ20-AAA21	SDCC Halls B-H	7 Wed	1-5 p.m.	
776	Stress and the Brain: Adolescence	Poster	AAA22-BBB5	SDCC Halls B-H	7 Wed	1-5 p.m.	
777	Brain Blood Flow, Metabolism, and Homeostasis: Functional Imaging I	Poster	BBB6-CCC11	SDCC Halls B-H	7 Wed	1–5 p.m.	
778	Brain Blood Flow, Metabolism, and Homeostasis: Functional Imaging II	Poster	CCC12-DDD12	SDCC Halls B-H	7 Wed	1–5 p.m.	
779	Sleep Systems	Poster	DDD13-EEE9	SDCC Halls B-H	7 Wed	1–5 p.m.	
780	Recent Advances in Sleep Systems	Poster	EEE10-EEE22	SDCC Halls B-H	7 Wed	1–5 p.m.	
781	Neuropeptide Regulation of Food Intake and Energy Balance	Poster	EEE23-GGG1	SDCC Halls B-H	7 Wed	1–5 p.m.	
Them	e G: Motivation and Emotion						
007	Neurocognitive Development of Motivated Behavior	Minisymposium		SDCC 29D	3 Sat	1:30-4 p.m.	2.5
072	Dopaminergic Reward Systems	Poster	TT19-VV2	SDCC Halls B-H	3 Sat	1–5 p.m.	
073	Motivation: Cortical Neurocircuitry	Poster	VV3-VV13	SDCC Halls B-H	3 Sat	1–5 p.m.	
074	Emotion: Human Emotion I	Poster	VV14-WW12	SDCC Halls B-H	3 Sat	1–5 p.m.	
075	Emotion: Neurocircuitry I	Poster	WW13-YY13	SDCC Halls B-H	3 Sat	1–5 p.m.	
076	Emotion: Neurocircuitry II	Poster	YY14-ZZ8	SDCC Halls B-H	3 Sat	1–5 p.m.	
077	Emotion: Fear, Anxiety, and Pain I	Poster	ZZ9-AAA12	SDCC Halls B-H	3 Sat	1–5 p.m.	
078	Emotion: Fear, Anxiety, and Pain II	Poster	AAA13-CCC12	SDCC Halls B-H	3 Sat	1–5 p.m.	
079	Behavioral Studies of Amphetamines	Poster	CCC3-DDD14	SDCC Halls B-H	3 Sat	1–5 p.m.	
080	Drugs of Abuse and Addiction: Cocaine Seeking and Reinstatement I	Poster	DDD15-EEE5	SDCC Halls B-H	3 Sat	1–5 p.m.	

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	095	Computational Affective Neuroscience: Algorithms for Survival	Minisymposium		SDCC 6C	4 Sun	8:30-11 a.m.	2.5
	109	Basal Ganglia Circuitry for Motivation and Reward	Nanosymposium		SDCC 2	4 Sun	8-11 a.m.	
Poster	110	Social Communication and Behavior	Nanosymposium		SDCC 1	4 Sun	8-10:45 a.m.	
	157	Emotion: Human Emotion II	Poster	VV10-WW9	SDCC Halls B-H	4 Sun	8 a.mnoon	
	158	Emotion: Positive and Negative Emotional States	Poster	WW10-YY11	SDCC Halls B-H	4 Sun	8 a.mnoon	
Motivacior and Pharmocological Effects of Cocaine Poster AAA2-8887 SOCC Halls 8-H 4 Sun 1-8 p.m.	159	Drugs of Abuse and Addiction: Alcohol: Neural Mechanisms I	Poster	YY12-ZZ17	SDCC Halls B-H	4 Sun	8 a.mnoon	
Poster	160	Neural Mechanisms of Amphetamine Addiction	Poster	ZZ18-AAA11	SDCC Halls B-H	4 Sun	8 a.mnoon	
Depression and Bipolar Disorders: Retamine and Other Rapid Anticepressants Poster RB2-SS8 SDCC Halls B-H 4 Sun 1-5 p.m.	161	Molecular and Pharmacological Effects of Cocaine	Poster	AAA12-BBB7	SDCC Halls B-H	4 Sun	8 a.mnoon	
Depression and Bipolar Disorders: Treatment and Drug Discovery Proteir RR2-SS8 SDCC Halls B-H 4 Sun 1-5 p.m.	229	Motivation: Social Communication and Behavior	Poster	PP6-QQ10	SDCC Halls B-H	4 Sun	1-5 p.m.	
Depression and Bipolar Disorders: Animal Models: Behavioral Mechanisms Poster SS9=T115 SDCC Halls B-H 4 Sun 1-5 p.m.	230	Depression and Bipolar Disorders: Ketamine and Other Rapid Antidepressants I	Poster	QQ11-RR1	SDCC Halls B-H	4 Sun	1–5 p.m.	
Depression and Bipolar Disorders: Animal Models: Neural Mechanisms: Inflammation and Depression and Bipolar Disorders: Neural Mechanisms: Inflammation and Depression Peater UU15-VV6 SDCC Hails B-H 4 Sun 1-5 p.m.	231	Depression and Bipolar Disorders: Treatment and Drug Discovery	Poster	RR2-SS8	SDCC Halls B-H	4 Sun	1-5 p.m.	
Depression and Bipolar Disorders: Naural Mechanisms: Inflammation and Depression Poster W7-WW2 SDCC Halls 8-H 4 Sum 1-5 p.m. Addictive Drugs: Reward Mechanisms, Tolerance, Dependence, and Toxicity Poster WW3-YV4 SDCC Halls 8-H 4 Sum 1-5 p.m. Drugs of Abuse and Addiction: Learning and Circuitry Poster WW3-YV4 SDCC Halls 8-H 4 Sum 1-5 p.m. Drugs of Abuse and Addiction: Learning and Circuitry Poster WW3-YV4 SDCC Halls 8-H 4 Sum 1-5 p.m. Drugs of Abuse and Addiction: Learning and Circuitry Poster WY3-ZZ1 SDCC Halls 8-H 4 Sum 1-5 p.m. Drugs of Abuse and Addiction: Learning and Circuitry Poster YY3-ZZ1 SDCC Halls 8-H 4 Sum 1-5 p.m. Drugs of Abuse and Addiction: Learning and Cognition Manosymposium SDCC 6E 5 Mon 8:30-11 a.m. 2.5 and Abuse Subcortical Mechanisms of Learning and Cognition Nanosymposium SDCC 2 5 Mon 8:30-11 a.m. 2.5 and Abuse Subcortical Mechanisms of Learning and Eleavioral Studies Poster YY3-ZZ3 SDCC Halls 8-H 5 Mon 8 a.mnoon SDCC 2 5 Mon 8:30-11 a.m. 2.5 and SDCC 2 5 Mon 9:30-11 a.m. 2.5 and S	232	Depression and Bipolar Disorders: Animal Models: Behavioral Mechanism I	Poster	SS9-TT15	SDCC Halls B-H	4 Sun	1-5 p.m.	
Drugs of Abuse and Addiction: Developmental Effects of Addictive Drugs Poster VY7-WW2 SDCC Halls B-H 4 Sum 1-5 p.m.	233	Depression and Bipolar Disorders: Animal Models: Neural Mechanisms	Poster	TT16-UU14	SDCC Halls B-H	4 Sun	1-5 p.m.	
Addictive Drugs: Reward Mechanisms, Tolerance, Dependence, and Toxicity Poster Poste	234	Depression and Bipolar Disorders: Neural Mechanisms: Inflammation and Depression	Poster	UU15-VV6	SDCC Halls B-H	4 Sun	1–5 p.m.	
Drugs of Abuse and Addiction: Learning and Circuitry Poster YY5-ZZ1 SDCC Halls B-H 4 Sun 1-5 p.m. 2.5 Insular Cortex Neurocircuits: Relationships Among Function, Connectivity, and Drug and Alcohol Abuse Insular Cortex Neurocircuits: Relationships Among Function, Connectivity, and Drug and Alcohol Abuse To Cortical and Subcortical Mechanisms of Learning and Cognition Nanosymposium SDCC 2 5 Mon 8-31:30 a.m. SDCC 2 5 Mon 8-11:30 a.m. Depression and Bipolar Disorders: Depression: Human Imaging and Behavioral Studies Depression and Bipolar Disorders: Ketamine and Other Rapid Antidepressants II Poster ZZ4-ZZ20 SDCC Halls B-H 5 Mon 8 a.m.—noon SDCC 4 5 Mon 8 a.m.—noon Depression and Bipolar Disorders: Animal Models: Behavioral Mechanism II Poster ZZ1-AAA13 SDCC Halls B-H 5 Mon 8 a.m.—noon Minisymposium SDCC 6E 5 Mon 1:30-4 p.m. 2.5 SDCC Halls B-H 5 Mon 1-3 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:30-4 p.m. 2.5 SDCC Halls B-H 5 Mon 1-5 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics SDCC Halls B-H 5 Mon 1-5 p.m. Animal Models of Therapeutics Nanosymposium Poster YY18-ZZ10 SDCC Halls B-H 5 Mon 1-5 p.m. Animal Models of Therapeutics Nanosymposium Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics SDCC Halls B-H 5 Mon 1-5 p.m. Animal Models of Therapeutics Nanosymposium Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics Nanosymposium SDCC 6E 5 Mon 1:5 p.m. Animal Models of Therapeutics SDCC Halls B-H 5 Mon 1-5 p.m. Animal Models of Therapeutics SDCC Halls B-H 5 Mon 1-5 p.m. Animal Models of	235	Drugs of Abuse and Addiction: Developmental Effects of Addictive Drugs	Poster	VV7-WW2	SDCC Halls B-H	4 Sun	1-5 p.m.	
Insular Cortex Neurocircuits: Relationships Among Function, Connectivity, and Drug and Alcohol Albuse 272 Cortical and Subcortical Mechanisms of Learning and Cognition Nanosymposium SDCC 2 5 Mon 8-11:30 a.m. 2.5 Depression and Bipolar Disorders: Depression: Human Imaging and Behavioral Studies Poster YY3-ZZ3 SDCC Halls B-H 5 Mon 8 a.mnoon 321 Depression and Bipolar Disorders: Ketamine and Other Rapid Antidepressants II Poster ZZ4-ZZ20 SDCC Halls B-H 5 Mon 8 a.mnoon 322 Depression and Bipolar Disorders: Animal Models: Behavioral Mechanism II Poster ZZ21-AAA13 SDCC Halls B-H 5 Mon 8 a.mnoon 323 Depression and Bipolar Disorders: Animal Models of Therapeutics Poster AAA14-CCG SDCC Halls B-H 5 Mon 8 a.mnoon 324 Social Motivation Across the Lifespan Minisymposium SDCC 6E 5 Mon 1:30-4 p.m. 2.5 SMCH Motivation Across the Lifespan Minisymposium SDCC 6E 5 Mon 1:30-4 p.m. 2.5 SMCH Motivation Across the Lifespan SMCH Mot	236	Addictive Drugs: Reward Mechanisms, Tolerance, Dependence, and Toxicity	Poster	WW3-YY4	SDCC Halls B-H	4 Sun	1–5 p.m.	
and Alcohol Abuse Minisymposium Nanosymposium SDCC 65 Mon 8-30-11 a.m. 2.5 Mon 8-30-11 a.m. 2.5 Mon 8-30-11 a.m. 2.5 Mon 8-30-11 a.m. 2.5 Mon 8-31-30 a.m. 2.5 Mon 9-32 Mon	237	Drugs of Abuse and Addiction: Learning and Circuitry	Poster	YY5-ZZ1	SDCC Halls B-H	4 Sun	1-5 p.m.	
Depression and Bipolar Disorders: Depression: Human Imaging and Behavioral Studies Poster YY3–ZZ3 SDCC Halls B–H 5 Mon 8 a.m.—noon ZZ4–ZZ20 SDCC Halls B–H 5 Mon 8 a.m.—noon ZZ4–ZZ20 SDCC Halls B–H 5 Mon 8 a.m.—noon ZZ21–AAA13 SDCC Halls B–H 5 Mon 8 a.m.—noon AAA14—CCC3 SDCC Halls B–H 5 Mon 8 a.m.—noon AAA14—CCC3 SDCC Halls B–H 5 Mon 8 a.m.—noon AAA14—CCC3 SDCC Halls B–H 5 Mon 8 a.m.—noon Minisymposium SDCC 6E 5 Mon 1:30–4 p.m. 2.5 Manosymposium SDCC 6E 5 Mon 1-3 p.m. ZDCC 6E 5 Mon 1-3 p.m. AAA14—CCC3 SDCC Halls B–H 5 Mon 8 a.m.—noon AAA14—CCC3 SDCC Halls B–H 5 Mon 8 a.m.—noon AAA14—CCC3 SDCC Halls B–H 5 Mon 8 a.m.—noon AAA14—CCC3 SDCC Halls B–H 5 Mon 1-3 p.m. ZDCC 6E 5 Mon 1-3 p.m. ZDCC 6E 5 Mon 1-3 p.m. AAA14—CCC3 SDCC Halls B–H 5 Mon 1-5 p.m. AAA44—ACC3 SDCC Halls B–H 5 Mon 1-5 p.m. AAA44—BAB5 SDCC Halls B–H 5 Mon 1-5 p.m. AAA44 AB45 Poster FFF2—FFF14 SDCC Halls B–H 5 Mon 1-5 p.m. AAA44—BAB5 SDCC Halls B–H 5 Mon 1-5	260		Minisymposium		SDCC 6E	5 Mon	8:30-11 a.m.	2.5
Depression and Bipolar Disorders: Ketamine and Other Rapid Antidepressants II Poster ZZ4-ZZ20 SDCC Halls B-H 5 Mon 8 a.mnoon Depression and Bipolar Disorders: Animal Models: Behavioral Mechanism II Poster ZZ21-AAA13 SDCC Halls B-H 5 Mon 8 a.mnoon Bipolar Disorders: Animal Models: Behavioral Mechanism II Poster AAA14-CCC3 SDCC Halls B-H 5 Mon 8 a.mnoon Bipolar Disorders: Animal Models of Therapeutics Poster AAA14-CCC3 SDCC Halls B-H 5 Mon 1:30-4 p.m. 2.5 BCC 6E 5 Mon 1-3 p.m. BCC 6E 5 Mon 1-3 p.m. BCC 6E 5 Mon 1-3 p.m. BCC 6E 5 Mon 1-5 p.m. BCC 6E 5 Mon	272	Cortical and Subcortical Mechanisms of Learning and Cognition	Nanosymposium		SDCC 2	5 Mon	8-11:30 a.m.	
Depression and Bipolar Disorders: Animal Models: Behavioral Mechanism II Poster ZZ1-AAA13 SDCC Halls B-H 5 Mon 8 a.mnoon AAA14-CCC3 SDCC Halls B-H 5 Mon 8 a.mnoon AAA14-CCC3 SDCC Halls B-H 5 Mon 1:30-4 p.m. 2.5 SDCC BE 5 Mon 1:30-4 p.m. 2.5 SDCC BE 5 Mon 1-5 p.m. ARA14-CCC3 SDCC Halls B-H 5 Mon 1-5 p.m. ARA14-CCC3 SDCC Halls B-H 5 Mon 1-5 p.m. AAA14-CCC3 SDCC Halls B-H 5 Mon 1-5 p.m. ARA14-CCC3 ARA14-CCC3 SDCC Halls B-H 5 Mon 1-5 p.m. ARA14-CCC3 SDCC Halls B-H 5 Mon 1-5 p.m. ARA14-CCC3 ARA14-CCC3 SDCC Halls B-H 5 Mon 1-5 p.m. ARA14-CCC3 ARA14-CCC3 ARA14-CCC3 ARA14-CCC3 SDCC Halls B-H 5 Mon 1-5 p.m. ARA14-CCC3 ARA14-CCC3 ARA14-CCC3 ARA14-CCC3 ARA14-CCC3 ARA14-CCC3 ARA1	320	Depression and Bipolar Disorders: Depression: Human Imaging and Behavioral Studies	Poster	YY3-ZZ3	SDCC Halls B-H	5 Mon	8 a.mnoon	
Bepression and Bipolar Disorders: Animal Models of Therapeutics Poster AAA14—CCC3 SDCC Halls B—H 5 Mon 8 a.m.—noon SDCC 6E 5 Mon 1:30—4 p.m. 2.5 Minisymposium SDCC 6E 5 Mon 1-3 p.m. 2.5 SDCC 6E 5 Mon 1-3 p.m. 2.5 SDCC 6E 5 Mon 1-3 p.m. 2.5 SDCC 6E 5 Mon 1-3 p.m. 358 Emotion: Circuits and Mechanisms Nanosymposium SDCC 5 5 Mon 1-3 p.m. 369 Poster APP-ZZ10 SDCC Halls B—H 5 Mon 1-5 p.m. 360 Tear and Aversive Learning and Memory: Acquisition Poster AAA4—BBB5 SDCC Halls B—H 5 Mon 1-5 p.m. 361 Fear and Aversive Learning and Memory: Extinction Poster BBB6—CCC9 SDCC Halls B—H 5 Mon 1-5 p.m. 361 Fear and Aversive Learning and Memory: Extinction Poster BBB6—CCC9 SDCC Halls B—H 5 Mon 1-5 p.m. 361 Fear and Aversive Learning and Memory: Extinction Poster BBB6—CCC9 SDCC Halls B—H 5 Mon 1-5 p.m. 361 Fear and Aversive Learning and Memory: Extinction Poster BBB6—CCC9 SDCC Halls B—H 5 Mon 1-5 p.m. 361 Fear and Aversive Learning and Memory: Occaine: Other Behavioral Studies Poster FFF2—FFF14 SDCC Halls B—H 5 Mon 1-5 p.m. 361 Fear and Aversive Learning and Memory: Neural Circuitry II Poster Neural Mechanisms of Nicotine Addiction: Opioid Reinforcement, Seeking, and Reinstatement Poster HHH12—HHH36 SDCC Halls B—H 5 Mon 1-5 p.m. 372 Fear and Aversive Learning and Memory: Neural Circuitry II Poster XX5—YY6 SDCC Halls B—H 6 Tue 8 a.m.—noon Fear and Aversive Learning and Memory: Neural Circuitry II Poster XX5—YY6 SDCC Halls B—H 6 Tue 8 a.m.—noon	321	Depression and Bipolar Disorders: Ketamine and Other Rapid Antidepressants II	Poster	ZZ4-ZZ20	SDCC Halls B-H	5 Mon	8 a.mnoon	
Social Motivation Across the Lifespan Minisymposium SDCC 6E 5 Mon 1:30–4 p.m. 2.5 Emotion: Circuits and Mechanisms Nanosymposium SDCC 5 5 Mon 1-3 p.m. 412 Appetitive and Incentive Learning and Memory I Poster YY19–ZZ10 SDCC Halls B–H 5 Mon 1–5 p.m. 413 Fear and Aversive Learning and Memory: Acquisition Poster ZZ11–AAA3 SDCC Halls B–H 5 Mon 1–5 p.m. 414 Fear and Aversive Learning and Memory: Modulation Poster AAA4–BBB5 SDCC Halls B–H 5 Mon 1–5 p.m. 415 Fear and Aversive Learning and Memory: Extinction Poster BBB6–CCC9 SDCC Halls B–H 5 Mon 1–5 p.m. 416 Reward Neurophysiology Poster CCC10–DDD24 SDCC Halls B–H 5 Mon 1–5 p.m. 417 Drugs of Abuse and Addiction: Cocaine: Other Behavioral Studies Poster EEE1–FFF1 SDCC Halls B–H 5 Mon 1–5 p.m. 418 Neural Mechanisms of Nicotine Addiction I Poster FFF2–FFF14 SDCC Halls B–H 5 Mon 1–5 p.m. 419 Circuit and Molecular Mechanisms of Cocaine Action Poster FFF5–GGG16 SDCC Halls B–H 5 Mon 1–5 p.m. 420 Drugs of Abuse and Addiction: Opioid Reinforcement, Seeking, and Reinstatement Poster GGG17–HHH11 SDCC Halls B–H 5 Mon 1–5 p.m. 421 Neural Mechanisms of Nicotine Addiction II Poster HH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. 422 Neural Mechanisms of Nicotine Addiction II Poster HH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. 424 Neural Mechanisms of Nicotine Addiction II Poster HH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. 425 Neural Mechanisms of Nicotine Addiction II Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.—noon 426 Fear and Aversive Learning and Memory: Neural Circuitry II Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.—noon 427 Fear and Aversive Learning and Memory: Neural Circuitry II Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.—noon 428 Fear and Aversive Learning and Memory: Neural Circuitry II Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.—noon 429 Fear and Aversive Learning and Memory: Neural Circuitry II Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.—noon 429 Fear and Aversive Learning and Memory: Neural Circuitry II Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.—noon 429 Fear and Avers	322	Depression and Bipolar Disorders: Animal Models: Behavioral Mechanism II	Poster	ZZ21-AAA13	SDCC Halls B-H	5 Mon	8 a.mnoon	
Emotion: Circuits and Mechanisms Nanosymposium SDCC 5 5 Mon 1–3 p.m. Poster YY19–ZZ10 SDCC Halls B–H 5 Mon 1–5 p.m. Poster ZZ11–AAA3 SDCC Halls B–H 5 Mon 1–5 p.m. Poster ZZ11–AAA3 SDCC Halls B–H 5 Mon 1–5 p.m. Poster AAA4–BBB5 SDCC Halls B–H 5 Mon 1–5 p.m. Poster AAA4–BBB5 SDCC Halls B–H 5 Mon 1–5 p.m. Poster BBB6–CCC9 SDCC Halls B–H 5 Mon 1–5 p.m. Poster BBB6–CCC9 SDCC Halls B–H 5 Mon 1–5 p.m. Poster CCC10–DDD24 SDCC Halls B–H 5 Mon 1–5 p.m. Poster CCC10–DDD24 SDCC Halls B–H 5 Mon 1–5 p.m. Poster CCC10–DDD24 SDCC Halls B–H 5 Mon 1–5 p.m. Poster EEE1–FFF1 SDCC Halls B–H 5 Mon 1–5 p.m. Poster EEE1–FFF1 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF72–FFF14 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF72–FFF14 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF73–GGG16 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF73–GGG16 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF715–GGG16 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF715–GGG16 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF715–GGG16 SDCC Halls B–H 5 Mon 1–5 p.m. Poster FF715–GGG16 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 5 Mon 1–5 p.m. Poster HHH12–HHH36 SDCC Halls B–H 6 Tue 8 a.m.–noon Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.–noon	323	Depression and Bipolar Disorders: Animal Models of Therapeutics	Poster	AAA14-CCC3	SDCC Halls B-H	5 Mon	8 a.mnoon	
Appetitive and Incentive Learning and Memory I Poster Post	347	Social Motivation Across the Lifespan	Minisymposium		SDCC 6E	5 Mon	1:30-4 p.m.	2.5
Fear and Aversive Learning and Memory: Acquisition Poster ZZ11-AAA3 SDCC Halls B-H 5 Mon 1-5 p.m. Poster AAA4-BBB5 SDCC Halls B-H 5 Mon 1-5 p.m. Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster EEE1-FFF1 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 FFF15-GGG1	358	Emotion: Circuits and Mechanisms	Nanosymposium		SDCC 5	5 Mon	1-3 p.m.	
Fear and Aversive Learning and Memory: Modulation Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster EEE1-FFF1 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster Poster Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster Poster Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. Poster SDCC Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster SDCC Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Pos	412	Appetitive and Incentive Learning and Memory I	Poster	YY19-ZZ10	SDCC Halls B-H	5 Mon	1–5 p.m.	
Fear and Aversive Learning and Memory: Extinction Poster BBB6-CCC9 SDCC Halls B-H 5 Mon 1-5 p.m. Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster EEE1-FFF1 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. New Cortical and Subcortical Circuits for Food Reward Nanosymposium Nanosymposium SDCC 2 6 Tue 8-10:15 a.m. Poster YY7-ZZ5 SDCC Halls B-H 6 Tue 8 a.mnoon	413	Fear and Aversive Learning and Memory: Acquisition	Poster	ZZ11-AAA3	SDCC Halls B-H	5 Mon	1–5 p.m.	
Poster CCC10-DDD24 SDCC Halls B-H 5 Mon 1-5 p.m. Poster EEE1-FFF1 SDCC Halls B-H 5 Mon 1-5 p.m. Poster EEE1-FFF1 SDCC Halls B-H 5 Mon 1-5 p.m. Poster EEE1-FFF1 SDCC Halls B-H 5 Mon 1-5 p.m. Circuit and Molecular Mechanisms of Nicotine Addiction I Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster GGG17-HHH11 SDCC Halls B-H 5 Mon 1-5 p.m. Neural Mechanisms of Nicotine Addiction II Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. New Cortical and Subcortical Circuits for Food Reward Nanosymposium SDCC Poster SDCC	414	Fear and Aversive Learning and Memory: Modulation	Poster	AAA4-BBB5	SDCC Halls B-H	5 Mon	1-5 p.m.	
Poster EEE1-FFF1 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Circuit and Molecular Mechanisms of Nicotine Addiction I Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Drugs of Abuse and Addiction: Opioid Reinforcement, Seeking, and Reinstatement Poster GGG17-HHH11 SDCC Halls B-H 5 Mon 1-5 p.m. Neural Mechanisms of Nicotine Addiction II Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. New Cortical and Subcortical Circuits for Food Reward Nanosymposium SDCC 2 6 Tue 8-10:15 a.m. Fear and Aversive Learning and Memory: Neural Circuitry II Poster YY7-ZZ5 SDCC Halls B-H 6 Tue 8 a.mnoon	415	Fear and Aversive Learning and Memory: Extinction	Poster	BBB6-CCC9	SDCC Halls B-H	5 Mon	1–5 p.m.	
Neural Mechanisms of Nicotine Addiction I Poster FFF2-FFF14 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster FFF15-GGG16 SDCC Halls B-H 5 Mon 1-5 p.m. Poster GGG17-HHH11 SDCC Halls B-H 5 Mon 1-5 p.m. Poster GGG17-HHH11 SDCC Halls B-H 5 Mon 1-5 p.m. Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. Poster Nanosymposium SDCC 2 6 Tue 8-10:15 a.m. Poster FFF2-FFF14 SDCC Halls B-H 6 Tue 8 a.mnoon Fear and Aversive Learning and Memory: Neural Circuitry II Poster YY7-ZZ5 SDCC Halls B-H 6 Tue 8 a.mnoon	416	Reward Neurophysiology	Poster	CCC10-DDD24	SDCC Halls B-H	5 Mon	1–5 p.m.	
Circuit and Molecular Mechanisms of Cocaine Action Poster FFF15—GGG16 SDCC Halls B—H 5 Mon 1—5 p.m. Poster GGG17—HHH11 SDCC Halls B—H 5 Mon 1—5 p.m. Poster HHH12—HHH36 SDCC Halls B—H 5 Mon 1—5 p.m. Poster HHH12—HHH36 SDCC Halls B—H 5 Mon 1—5 p.m. SDCC Halls B—H 5 Mon 1—5 p.m. Poster HHH12—HHH36 SDCC Halls B—H 5 Mon 1—5 p.m. Poster HHH12—HHH36 SDCC Halls B—H 5 Mon 1—5 p.m. Poster SDCC 2 6 Tue 8 a.m.—noon Fear and Aversive Learning and Memory: Neural Circuitry II Poster YY7—ZZ5 SDCC Halls B—H 6 Tue 8 a.m.—noon	417	Drugs of Abuse and Addiction: Cocaine: Other Behavioral Studies	Poster	EEE1-FFF1	SDCC Halls B-H	5 Mon	1-5 p.m.	
Drugs of Abuse and Addiction: Opioid Reinforcement, Seeking, and Reinstatement Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. Poster HHH12-HHH36 SDCC Halls B-H 5 Mon 1-5 p.m. New Cortical and Subcortical Circuits for Food Reward Nanosymposium SDCC 2 6 Tue 8-10:15 a.m. Poster XX5-YY6 SDCC Halls B-H 6 Tue 8 a.mnoon Fear and Aversive Learning and Memory: Neural Circuitry II Poster YY7-ZZ5 SDCC Halls B-H 6 Tue 8 a.mnoon	418	Neural Mechanisms of Nicotine Addiction I	Poster	FFF2-FFF14	SDCC Halls B-H	5 Mon	1–5 p.m.	
Neural Mechanisms of Nicotine Addiction II Poster HHH12—HHH36 SDCC Halls B—H 5 Mon 1–5 p.m. Nanosymposium SDCC 2 6 Tue 8–10:15 a.m. Poster Addiction II Poster XX5—YY6 SDCC Halls B—H 6 Tue 8 a.m.—noon Fear and Aversive Learning and Memory: Neural Circuitry II Poster YY7—ZZ5 SDCC Halls B—H 6 Tue 8 a.m.—noon	419	Circuit and Molecular Mechanisms of Cocaine Action	Poster	FFF15-GGG16	SDCC Halls B-H	5 Mon	1-5 p.m.	
Nanosymposium SDCC 2 6 Tue 8–10:15 a.m. Nanosymposium SDCC 2 6 Tue 8–10:15 a.m. Poster XX5–YY6 SDCC Halls B–H 6 Tue 8 a.m.—noon Fear and Aversive Learning and Memory: Neural Circuitry II Poster YY7–ZZ5 SDCC Halls B–H 6 Tue 8 a.m.—noon	420	Drugs of Abuse and Addiction: Opioid Reinforcement, Seeking, and Reinstatement	Poster	GGG17-HHH11	SDCC Halls B-H	5 Mon	1–5 p.m.	
Fear and Aversive Learning and Memory: Neural Circuitry I Poster XX5—YY6 SDCC Halls B—H 6 Tue 8 a.m.—noon Poster YY7—ZZ5 SDCC Halls B—H 6 Tue 8 a.m.—noon	421	Neural Mechanisms of Nicotine Addiction II	Poster	ННН12-ННН36	SDCC Halls B-H	5 Mon	1–5 p.m.	
503 Fear and Aversive Learning and Memory: Neural Circuitry II Poster YY7–ZZ5 SDCC Halls B–H 6 Tue 8 a.m.–noon	453	New Cortical and Subcortical Circuits for Food Reward	Nanosymposium		SDCC 2	6 Tue	8-10:15 a.m.	
	502	Fear and Aversive Learning and Memory: Neural Circuitry I	Poster	XX5-YY6	SDCC Halls B-H	6 Tue	8 a.mnoon	
504 Reward Neuropharmacology Poster ZZ6-ZZ17 SDCC Halls B-H 6 Tue 8 a.mnoon	503	Fear and Aversive Learning and Memory: Neural Circuitry II	Poster	YY7–ZZ5	SDCC Halls B-H	6 Tue	8 a.mnoon	
	504	Reward Neuropharmacology	Poster	ZZ6-ZZ17	SDCC Halls B-H	6 Tue	8 a.mnoon	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
505	Post-Traumatic Stress Disorder: Human Studies	Poster	ZZ18-AAA3	SDCC Halls B-H	6 Tue	8 a.mnoon	
506	Drugs of Abuse and Addiction: Memory and Relapse	Poster	AAA4-AAA25	SDCC Halls B-H	6 Tue	8 a.mnoon	
534	Sex Differences and Hormone Action in the Limbic System	Minisymposium		SDCC 29D	6 Tue	1:30-4 p.m.	2.5
599	Appetitive and Incentive Learning and Memory II	Poster	DDD23-EEE16	SDCC Halls B-H	6 Tue	1-5 p.m.	
600	Subcortical Neurocircuitry in Motivated Behaviors	Poster	EEE17-FFF20	SDCC Halls B-H	6 Tue	1-5 p.m.	
601	Drugs of Abuse and Addiction: Alcohol: Neural Mechanisms II	Poster	FFF21-GGG21	SDCC Halls B-H	6 Tue	1-5 p.m.	
602	Cannabinoids: Neural Mechanisms	Poster	GGG22-HHH14	SDCC Halls B-H	6 Tue	1-5 p.m.	
603	Drugs of Abuse and Addiction: Cocaine Seeking and Reinstatement II	Poster	HHH15-HHH32	SDCC Halls B-H	6 Tue	1-5 p.m.	
623	Reward Processing by the Dorsal Raphe	Lecture		SDCC Ballroom 20	7 Wed	11:30 a.m 12:40 p.m.	1.25
631	Depression and Bipolar Disorders: Neural Mechanisms	Nanosymposium		SDCC 5	7 Wed	8–10 a.m.	
632	Circuitry and Cell-Type Specific Neurophysiology of Addiction	Nanosymposium		SDCC 30B	7 Wed	8-11:15 a.m.	
681	Reward and Cell Signaling	Poster	WW14-XX12	SDCC Halls B-H	7 Wed	8 a.mnoon	
682	Post-Traumatic Stress Disorder: Preclinical Models	Poster	XX13-ZZ4	SDCC Halls B-H	7 Wed	8 a.mnoon	
683	Other Psychiatric Disorders	Poster	ZZ5-AAA5	SDCC Halls B-H	7 Wed	8 a.mnoon	
684	Other Psychiatric Disorders II	Poster	AAA6-AAA20	SDCC Halls B-H	7 Wed	8 a.mnoon	
685	Genetic Influences on Addiction	Poster	AAA21-BBB9	SDCC Halls B-H	7 Wed	8 a.mnoon	
686	Drugs of Abuse and Addiction: Alcohol: Other Behavioral Effects	Poster	BBB10-CCC12	SDCC Halls B-H	7 Wed	8 a.mnoon	
687	Drugs of Abuse and Addiction: Cocaine Reinforcement	Poster	CCC13-DDD13	SDCC Halls B-H	7 Wed	8 a.mnoon	
721	Depression and Bipolar Disorders: Treatment and Drug Discovery	Nanosymposium		SDCC 24	7 Wed	1-3:15 p.m.	
722	Looking For Biological Interventions for Cocaine Use Disorder	Nanosymposium		SDCC 1	7 Wed	1-3:30 p.m.	
782	Subcortical Mechanisms in Motivated Behaviors and Physiological States	Poster	GGG1-GGG26	SDCC Halls B-H	7 Wed	1-5 p.m.	
783	Anxiety Disorders: Preclinical Models	Poster	GGG27-HHH29	SDCC Halls B-H	7 Wed	1-5 p.m.	
784	Drugs of Abuse and Addiction: Alcohol: Intake and Preference	Poster	ННН30-ННН58	SDCC Halls B-H	7 Wed	1–5 p.m.	
785	Opioids: Neural Mechanisms of Addiction	Poster	HHH59-III20	SDCC Halls B-H	7 Wed	1–5 p.m.	
Them	e H: Cognition						
800	Neural Dynamics of the Primate Attention Network	Lecture		SDCC Ballroom 20	3 Sat	2-3:10 p.m.	1.25
019	Animal Cognition and Behavior: Learning and Memory: Neural Circuit Mechanisms	Nanosymposium		SDCC 30B	3 Sat	1-2:45 p.m.	
020	Human Cognition and Behavior: Timing and Temporal Processing	Nanosymposium		SDCC 7	3 Sat	1-3:30 p.m.	
081	Animal Cognition and Behavior: Executive Function: Network Activity	Poster	EEE6-EEE20	SDCC Halls B-H	3 Sat	1-5 p.m.	
082	Animal Cognition and Behavior: Learning and Memory: Hippocampal-Prefrontal Interactions	Poster	EEE21-FFF8	SDCC Halls B-H	3 Sat	1-5 p.m.	
083	Learning and Memory: Epigenetics	Poster	FFF9-GGG10	SDCC Halls B-H	3 Sat	1-5 p.m.	
084	Signal Pathways and Cognition	Poster	GGG11-GGG21	SDCC Halls B-H	3 Sat	1-5 p.m.	
085	Human Cognition and Behavior: Human Learning: Perceptual and Spatial Learning	Poster	GGG22-HHH23	SDCC Halls B-H	3 Sat	1–5 p.m.	
086	Human Cognition and Behavior: Human Long-Term Memory: Encoding, Retrieval, Reconsolidation	Poster	ННН24-ННН43	SDCC Halls B-H	3 Sat	1–5 p.m.	
087	Human Cognition and Behavior: Functional Mechanisms of Attention	Poster	HHH44-III12	SDCC Halls B-H	3 Sat	1-5 p.m.	
094	Specific Basal Forebrain-Cortical Cholinergic Circuits Coordinate Cognitive Operations	Symposium		SDCC 6B	4 Sun	8:30-11 a.m.	2.5
111	Decision Making: Circuits and Computations	Nanosymposium		SDCC 7	4 Sun	8–11 a.m.	
162	Animal Cognition and Behavior: Decision Making: Corticolimbic Circuits	Poster	BBB8-CCC13	SDCC Halls B-H	4 Sun	8 a.mnoon	

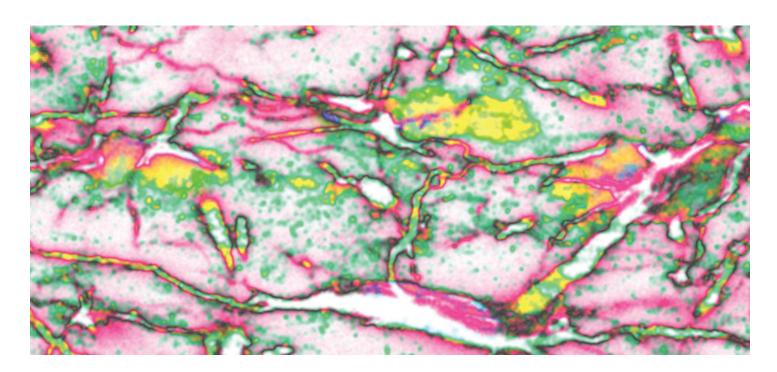
SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
163	Animal Cognition and Behavior: Executive Function: Learning and Memory I	Poster	CCC14-EEE4	SDCC Halls B-H	4 Sun	8 a.mnoon	
164	Animal Cognition and Behavior: Learning and Memory: Hippocampal Circuits I	Poster	EEE5-EEE22	SDCC Halls B-H	4 Sun	8 a.mnoon	
165	Animal Cognition and Behavior: Learning and Memory: Hippocampal Circuits II	Poster	EEE23-FFF20	SDCC Halls B-H	4 Sun	8 a.mnoon	
166	Animal Cognition and Behavior: Learning and Memory: Dentate Gyrus and Neurogenesis	Poster	FFF21-GGG12	SDCC Halls B-H	4 Sun	8 a.mnoon	
167	Human Cognition and Behavior: Executive Function	Poster	GGG13-HHH3	SDCC Halls B-H	4 Sun	8 a.mnoon	
168	Human Cognition and Behavior: Cognitive Development	Poster	HHH4-HHH24	SDCC Halls B-H	4 Sun	8 a.mnoon	
169	Human Cognition and Behavior: Timing and Temporal Processing	Poster	ННН25-ННН54	SDCC Halls B-H	4 Sun	8 a.mnoon	
178	High-Level Cognition in Low-Level Brain Regions	Minisymposium		SDCC 6C	4 Sun	1:30-4 p.m.	2.5
193	Human Cognition and Behavior: Decision Making and Cognitive Aging	Nanosymposium		SDCC 23	4 Sun	1-4:30 p.m.	
238	Mechanisms of Attention	Poster	ZZ2-AAA5	SDCC Halls B-H	4 Sun	1–5 p.m.	
239	Cortical and Hippocampal Circuits: Timing and Temporal Processing	Poster	AAA6-AAA21	SDCC Halls B-H	4 Sun	1–5 p.m.	
240	Animal Cognition and Behavior: Decision Making: Corticolimbic Circuits	Poster	AAA22-BBB12	SDCC Halls B-H	4 Sun	1–5 p.m.	
241	Animal Cognition and Behavior: Executive Function: Models of Disorders	Poster	BBB13-CCC9	SDCC Halls B-H	4 Sun	1–5 p.m.	
242	Animal Cognition and Behavior: Executive Function: Inhibitory Control	Poster	CCC10-DDD16	SDCC Halls B-H	4 Sun	1–5 p.m.	
243	Animal Cognition and Behavior: Working Memory	Poster	DDD17-EEE21	SDCC Halls B-H	4 Sun	1-5 p.m.	
244	Animal Cognition and Behavior: Learning and Memory: Physiology	Poster	EEE22-FFF14	SDCC Halls B-H	4 Sun	1-5 p.m.	
245	Aging: Anatomical, Physiological, and Cognitive Alterations	Poster	FFF15-GGG4	SDCC Halls B-H	4 Sun	1-5 p.m.	
246	Human Cognition and Behavior: Sensorimotor Processing	Poster	GGG5-GGG17	SDCC Halls B-H	4 Sun	1–5 p.m.	
247	Human Cognition and Behavior: Motor Learning and Memory	Poster	GGG18-HHH11	SDCC Halls B-H	4 Sun	1-5 p.m.	
248	Human Cognition and Behavior: Human Long-Term Memory: Retrieval I	Poster	ННН12-ННН35	SDCC Halls B-H	4 Sun	1–5 p.m.	
249	Human Cognition and Behavior: Human Long-Term Memory: Retrieval II	Poster	ННН36-ННН49	SDCC Halls B-H	4 Sun	1-5 p.m.	
250	Human Cognition and Behavior: Executive Function: Interference and Flexibility	Poster	HHH50-III3	SDCC Halls B-H	4 Sun	1–5 p.m.	
251	Human Cognition and Executive Function: Development	Poster	III4–III18	SDCC Halls B-H	4 Sun	1–5 p.m.	
252	Schizophrenia: Animal Models: Pharmacological	Poster	III19-III33	SDCC Halls B-H	4 Sun	1–5 p.m.	
265	New Computational Perspectives on Serotonin Function	Lecture		SDCC Ballroom 20	5 Mon	11:30 a.m 12:40 p.m.	1.25
273	Animal Cognition and Behavior: Decision Making: Prefrontal Cortex I	Nanosymposium		SDCC 25	5 Mon	8-10:45 a.m.	
274	Human Cognition and Behavior: Spatial Learning and Navigation	Nanosymposium		SDCC 23	5 Mon	8-11:15 a.m.	
275	Human Cognition and Behavior: Working Memory I	Nanosymposium		SDCC 5	5 Mon	8-11:30 a.m.	
324	Mechanisms of Episodic and Episodic-Like Memory	Poster	CCC4-DDD13	SDCC Halls B-H	5 Mon	8 a.mnoon	
325	Animal Cognition and Behavior: Decision Making: Orbitofrontal Cortex	Poster	DDD14-EEE2	SDCC Halls B-H	5 Mon	8 a.mnoon	
326	Animal Cognition and Behavior: Executive Function: Learning and Memory II	Poster	EEE3-FFF3	SDCC Halls B-H	5 Mon	8 a.mnoon	
327	Behavioral Aspects of Memory (Re)Consolidation	Poster	FFF4-FFF21	SDCC Halls B-H	5 Mon	8 a.mnoon	
328	Molecular Mechanisms of Memory (Re)Consolidation	Poster	FFF22-GGG15	SDCC Halls B-H	5 Mon	8 a.mnoon	
329	Animal Cognition and Behavior: Learning and Memory: Cortical-Hippocampal Interactions I	Poster	GGG16-HHH8	SDCC Halls B-H	5 Mon	8 a.mnoon	
330	Animal Cognition and Behavior: Learning and Memory: Cortical-Hippocampal Interactions II	Poster	ННН9-ННН23	SDCC Halls B-H	5 Mon	8 a.mnoon	
331	Animal Cognition and Behavior: Learning and Memory: Hippocampal Circuits III	Poster	ННН24-ННН52	SDCC Halls B-H	5 Mon	8 a.mnoon	
332	Animal Cognition and Behavior: Learning and Memory: Gamma and Theta Rhythms	Poster	HHH53-III6	SDCC Halls B-H	5 Mon	8 a.mnoon	
333	Decision Making I	Poster	1117-11136	SDCC Halls B-H	5 Mon	8 a.mnoon	
334	Human Cognition and Behavior: Human Learning: Feedback, Reinforcement, and Reward	Poster	11137-11163	SDCC Halls B-H	5 Mon	8 a.mnoon	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME Hours
335	Human Cognition and Behavior: Human Long-Term Memory: Encoding	Poster	III64-JJJ25	SDCC Halls B-H	5 Mon	8 a.mnoon	
336	Schizophrenia: Behavior and Symptoms	Poster	JJJ26-JJJ35	SDCC Halls B-H	5 Mon	8 a.mnoon	
337	Schizophrenia: Circuits and Systems	Poster	JJJ36-JJJ52	SDCC Halls B-H	5 Mon	8 a.mnoon	
343	DUAL PERSPECTIVES: Gamma – Fumes or Fundamental	Dual Perspectives		SDCC 10	5 Mon	1–2 p.m.	
359	Animal Cognition and Behavior: Decision Making: Prefrontal Cortex II	Nanosymposium		SDCC 25	5 Mon	1-3:45 p.m.	
360	Animal Cognition and Behavior: Learning and Memory: Cortical-Hippocampal Interactions I	Nanosymposium		SDCC 31C	5 Mon	1-4 p.m.	
361	Human Cognition and Behavior: Human Long-Term Memory: Encoding and Retrieval	Nanosymposium		SDCC 32	5 Mon	1-4:15 p.m.	
362	Human Cognition and Behavior: Language and Communication	Nanosymposium		SDCC 23	5 Mon	1-4:30 p.m.	
363	Schizophrenia: Circuits and Systems	Nanosymposium		SDCC 2	5 Mon	1-3:45 p.m.	
422	Invertebrate Learning and Memory	Poster	ННН37-ННН58	SDCC Halls B-H	5 Mon	1-5 p.m.	
423	Hippocampal Circuits and Cognition	Poster	HHH59-III15	SDCC Halls B-H	5 Mon	1-5 p.m.	
424	Animal Cognition and Behavior: Learning and Memory: Hippocampal Circuits IV	Poster	III16-III42	SDCC Halls B-H	5 Mon	1-5 p.m.	
425	Learning and Memory: Molecular Mechanisms	Poster	11143-11167	SDCC Halls B-H	5 Mon	1-5 p.m.	
426	Human Cognition and Behavior: Working Memory	Poster	III68-JJJ23	SDCC Halls B-H	5 Mon	1-5 p.m.	
427	Decision Making II	Poster	JJJ24-JJJ53	SDCC Halls B-H	5 Mon	1-5 p.m.	
428	Human Cognition and Behavior: Decision Making and Reasoning: Value, Gains, and Loses	Poster	JJJ54-JJJ69	SDCC Halls B-H	5 Mon	1-5 p.m.	
429	Human Cognition and Behavior: Decision Making and Reasoning: Neural Mechanisms	Poster	JJJ70-LLL21	SDCC Halls B-H	5 Mon	1-5 p.m.	
436	The Neurobiology of Forgetting	Minisymposium		SDCC 6C	6 Tue	8:30-11 a.m.	2.5
454	Human Cognition and Behavior: Working Memory II	Nanosymposium		SDCC 5	6 Tue	8-10:45 a.m.	
507	Animal Cognition and Behavior: Decision Making: Prefrontal Cortex	Poster	AAA26-DDD1	SDCC Halls B-H	6 Tue	8 a.mnoon	
508	Head Direction Cells and Spatial Navigation	Poster	DDD2-EEE7	SDCC Halls B-H	6 Tue	8 a.mnoon	
509	Animal Cognition and Behavior: Learning and Memory: Neural Circuit Mechanisms I	Poster	EEE8-EEE26	SDCC Halls B-H	6 Tue	8 a.mnoon	
510	Animal Cognition and Behavior: Learning and Memory: Neural Circuit Mechanisms II	Poster	FFF1-FFF14	SDCC Halls B-H	6 Tue	8 a.mnoon	
511	Animal Cognition and Behavior: Learning and Memory: Neural Circuit Mechanisms III	Poster	FFF15-GGG3	SDCC Halls B-H	6 Tue	8 a.mnoon	
512	Age-Related Cognitive Deficits and Treatments	Poster	GGG4-GGG22	SDCC Halls B-H	6 Tue	8 a.mnoon	
513	Human Cognition and Behavior: Effects of Disorders and Addictive Drugs	Poster	GGG23-HHH25	SDCC Halls B-H	6 Tue	8 a.mnoon	
514	Human Cognition and Behavior: Language Networks	Poster	HHH26-HHH55	SDCC Halls B-H	6 Tue	8 a.mnoon	
515	Human Cognition and Behavior: Cognitive Aging I	Poster	HHH56-III15	SDCC Halls B-H	6 Tue	8 a.mnoon	
516	Human Cognition and Behavior: Individual Differences	Poster	III16-III45	SDCC Halls B-H	6 Tue	8 a.mnoon	
517	Schizophrenia: Animal Models: Developmental	Poster	III46-III64	SDCC Halls B-H	6 Tue	8 a.mnoon	
531	Language Networks Derived From Direct Intracranial Recordings in Humans	Symposium		SDCC 6C	6 Tue	1:30-4 p.m.	2.5
545	Human Cognition and Behavior: Human Long-Term Memory Representations: Network and Circuit Mechanisms	Nanosymposium		SDCC 33	6 Tue	1–3:15 p.m.	
546	Human Cognition and Behavior: Working Memory III	Nanosymposium		SDCC 30B	6 Tue	1-3 p.m.	
547	Human Cognition and Behavior: Neurocognitive Development	Nanosymposium		SDCC 23	6 Tue	1-4:30 p.m.	
604	Place Cells	Poster	HHH33-III1	SDCC Halls B-H	6 Tue	1-5 p.m.	
605	Animal Cognition and Behavior: Associative, Nonassociative, and Skill Learning	Poster	III2–III25	SDCC Halls B-H	6 Tue	1-5 p.m.	
606	Human Cognition and Behavior: Working Memory II	Poster	III26-III51	SDCC Halls B-H	6 Tue	1-5 p.m.	
	Human Cognition and Behavior: Cognitive Aging II	Poster	III52–JJJ13	SDCC Halls B-H	6 Tue	1–5 p.m.	

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
608	Human Cognition and Behavior: Cognitive Aging III	Poster	JJJ14-JJJ38	SDCC Halls B-H	6 Tue	1–5 p.m.	
609	Schizophrenia: Genetic, Cellular, and Molecular Features	Poster	JJJ39-JJJ67	SDCC Halls B-H	6 Tue	1-5 p.m.	
616	Mental Structures and Sequences: Evolutionary Solutions From Birds to Primates	Symposium		SDCC 6B	7 Wed	8:30-11 a.m.	2.5
633	Animal Cognition and Behavior: Learning and Memory: Cortical-Hippocampal Interactions II	Nanosymposium		SDCC 1	7 Wed	8-11:30 a.m.	
634	Human Cognition and Behavior: Human Learning: Feedback, Reinforcement, and Reward	Nanosymposium		SDCC 4	7 Wed	8-11:15 a.m.	
688	Animal Cognition and Behavior: Decision Making: Prefrontal Cortex	Poster	DDD14-EEE17	SDCC Halls B-H	7 Wed	8 a.mnoon	
689	Spatial Navigation: Entorhinal Cortex	Poster	EEE18-FFF15	SDCC Halls B-H	7 Wed	8 a.mnoon	
690	Animal Cognition and Behavior: Social Memory and Cognition I	Poster	FFF16-GGG16	SDCC Halls B-H	7 Wed	8 a.mnoon	
691	Animal Cognition and Behavior: Social Memory and Cognition II	Poster	GGG17-HHH5	SDCC Halls B-H	7 Wed	8 a.mnoon	
692	Learning and Memory: Pharmacology	Poster	ННН6-ННН34	SDCC Halls B-H	7 Wed	8 a.mnoon	
693	Human Cognition and Behavior: Human Long-Term Memory: Medial Temporal Lobe I	Poster	HHH35-III1	SDCC Halls B-H	7 Wed	8 a.mnoon	
694	Human Cognition and Behavior: Human Long-Term Memory: Medial Temporal Lobe II	Poster	1112-11126	SDCC Halls B-H	7 Wed	8 a.mnoon	
695	Human Cognition and Behavior: Language	Poster	III27–III55	SDCC Halls B-H	7 Wed	8 a.mnoon	
696	Human Cognition and Behavior: Language Developmental Processes	Poster	III56-JJJ1	SDCC Halls B-H	7 Wed	8 a.mnoon	
697	Human Cognition and Behavior: Decision Making and Reasoning: Physiology and Basic Mechanisms	Poster	JJJ2-JJJ31	SDCC Halls B-H	7 Wed	8 a.mnoon	
707	From Recent to Remote Memory and Back	Minisymposium		SDCC 6C	7 Wed	1:30-4 p.m.	2.5
786	Cortical and Hippocampal Circuit Interactions	Poster	III21-III34	SDCC Halls B-H	7 Wed	1–5 p.m.	
787	Animal Cognition and Behavior: Cortical and Striatal Circuits	Poster	III35-III55	SDCC Halls B-H	7 Wed	1–5 p.m.	
788	Human Cognition and Behavior: Perception and Imagery I	Poster	III56-JJJ10	SDCC Halls B-H	7 Wed	1–5 p.m.	
789	Human Cognition and Behavior: Perception and Imagery II	Poster	JJJ11-JJJ31	SDCC Halls B-H	7 Wed	1–5 p.m.	
790	Human Cognition and Behavior: Perception and Imagery III	Poster	JJJ32-JJJ51	SDCC Halls B-H	7 Wed	1-5 p.m.	
791	Human Cognition and Behavior: Human Long-Term Memory: Medial Temporal Lobe III	Poster	JJJ52-JJJ66	SDCC Halls B-H	7 Wed	1-5 p.m.	
792	Human Cognition and Behavior: Attentional Networks I	Poster	JJJ67-LLL25	SDCC Halls B-H	7 Wed	1-5 p.m.	
793	Human Cognition and Behavior: Attentional Networks II	Poster	LLL26-LLL35	SDCC Halls B-H	7 Wed	1–5 p.m.	
794	Human Cognition and Behavior: Social Cognition: Neural Processes and Disorders I	Poster	LLL36-LLL58	SDCC Halls B-H	7 Wed	1–5 p.m.	
795	Human Cognition and Behavior: Social Cognition: Neural Processes and Disorders II	Poster	LLL59-MMM15	SDCC Halls B-H	7 Wed	1–5 p.m.	
Them	e I: Techniques						
003	New Observations in Neuroscience Using Superresolution Microscopy	Minisymposium		SDCC 6B	3 Sat	1:30-4 p.m.	2.5
088	Molecular, Biochemical, and Genetic Techniques: Molecular Techniques I	Poster	III13-III28	SDCC Halls B-H	3 Sat	1-5 p.m.	
089	Computation, Modeling, and Simulation: Cellular Models	Poster	III29–III42	SDCC Halls B-H	3 Sat	1–5 p.m.	
090	Data Analysis and Statistics: Human Data: EEG, Electrophysiology, and DBS	Poster	III43–III67	SDCC Halls B-H	3 Sat	1–5 p.m.	
091	Data Analysis and Statistics: Human Data: Vision, Audition, Movement, and Posture	Poster	III68–JJJ59	SDCC Halls B-H	3 Sat	1–5 p.m.	
100	Neural Data Science: Accelerating the Experiment-Analysis-Theory Cycle in Large-Scale Neuroscience	Lecture		SDCC Ballroom 20	4 Sun	10-11:10 a.m.	1.25
112	Physiological Methods: Optical Methodology	Nanosymposium		SDCC 30B	4 Sun	8–11 a.m.	
170	Anatomical Methods: Staining, Tracing, and Imaging Techniques: Sample Preparation	Poster	HHH55-III14	SDCC Halls B-H	4 Sun	8 a.mnoon	
171	Anatomical Methods: Staining, Tracing, and Imaging Techniques: Circuit Tracing	Poster	III15–III38	SDCC Halls B-H	4 Sun	8 a.m.–noon	
172	Physiological Methods: Optogenetics I	Poster	III39–III58	SDCC Halls B-H	4 Sun	8 a.mnoon	
173	Physiological Methods: Electrophysiology: Neural Networks	Poster	III59-JJJ4	SDCC Halls B-H	4 Sun	8 a.m.–noon	
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SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
174	Physiological Methods: Electrophysiology: Stimulating Neurons	Poster	JJJ5-GGG19	SDCC Halls B-H	4 Sun	8 a.mnoon	
176	Local Field Potentials and Deep Brain Stimulation	Symposium		SDCC 6A	4 Sun	1:30-4 p.m.	2.5
194	Biomarker and Drug Discovery: Drug Delivery and Assay Development	Nanosymposium		SDCC 4	4 Sun	1–3 p.m.	
253	Molecular, Biochemical, and Genetic Techniques: Biochemical Techniques	Poster	11134-11147	SDCC Halls B-H	4 Sun	1–5 p.m.	
254	Software Tools Connectivity Analysis Macro/Micro Structure	Poster	III48-III65	SDCC Halls B-H	4 Sun	1-5 p.m.	
255	Physiological Methods: Optogenetics II	Poster	III66-JJJ17	SDCC Halls B-H	4 Sun	1-5 p.m.	
256	Organelle Structure and Dynamics: What High-Resolution Imaging Is Uncovering	Lecture		SDCC Ballroom 20	5 Mon	8:30-9:40 a.m.	1.25
262	Exposing Neural Dynamics Using Real-Time Control: From Neurons to Human Behavior and Psychopathology	Minisymposium		SDCC 29D	5 Mon	8:30-11 a.m.	2.5
276	The Mouse Brain: Circuitry and Mapping in 3D	Nanosymposium		SDCC 30B	5 Mon	8-11:15 a.m.	
338	Physiological Methods: Optical Methodology: Development I	Poster	JJJ53-LLL10	SDCC Halls B-H	5 Mon	8 a.mnoon	
339	Computation, Modeling, and Simulation: Network Models: Theory I	Poster	LLL11-LLL28	SDCC Halls B-H	5 Mon	8 a.mnoon	
340	Computation, Modeling, and Simulation: Human Network Models	Poster	LLL29-LLL50	SDCC Halls B-H	5 Mon	8 a.mnoon	
341	Data Analysis and Statistics: Human Data: Neuroimaging	Poster	LLL51-MMM48	SDCC Halls B-H	5 Mon	8 a.mnoon	
348	Innovative Approaches for Monitoring Neuromodulation With Light	Minisymposium		SDCC 28A	5 Mon	1:30-4 p.m.	2.5
364	The Marmoset Brain: Brain Mapping and Circuit Tracing	Nanosymposium		SDCC 1	5 Mon	1-4:15 p.m.	
430	Anatomical Methods: Staining, Tracing, and Imaging Techniques: Electron Microscopy and Novel Probes	Poster	LLL22-LLL35	SDCC Halls B-H	5 Mon	1-5 p.m.	
431	Physiological Methods: Electrophysiology: Electrode Arrays I	Poster	LLL36-MMM3	SDCC Halls B-H	5 Mon	1-5 p.m.	
432	Biomarker and Drug Discovery: Drug Delivery and Neurodegenerative Diseases (AD, PD, MS, Stroke)	Poster	MMM4-MMM26	SDCC Halls B-H	5 Mon	1–5 p.m.	
439	Whole-Brain Analysis of Cells and Circuits by Tissue Clearing and Light-Sheet Microscopy	Minisymposium		SDCC 29D	6 Tue	8:30-11 a.m.	2.5
518	Tools and Techniques for Manipulation of Neurons and Circuits	Poster	III65-JJJ20	SDCC Halls B-H	6 Tue	8 a.mnoon	
519	Systems Biology and Bioinformatics: Genomics, Proteomics, and Systems Biology	Poster	JJJ20-JJJ44	SDCC Halls B-H	6 Tue	8 a.mnoon	
520	New Behavioral, In vivo, and In vitro Physiological Methods	Poster	JJJ45-JJJ66	SDCC Halls B-H	6 Tue	8 a.mnoon	
521	Computation, Modeling, and Simulation: Network Models: Experimentation	Poster	JJJ67-LLL8	SDCC Halls B-H	6 Tue	8 a.mnoon	
522	Computation, Modeling, and Simulation: Computational Tools: Neuroimaging	Poster	LLL9-LLL18	SDCC Halls B-H	6 Tue	8 a.mnoon	
523	Computation, Modeling, and Simulation: EEG, Evoked Potential, and Electrophysiology	Poster	LLL19-LLL38	SDCC Halls B-H	6 Tue	8 a.mnoon	
524	Computation, Modeling, and Simulation: Informatics and Database	Poster	LLL39-LLL51	SDCC Halls B-H	6 Tue	8 a.mnoon	
525	Computation, Modeling, and Simulation: Neuron/Network Modeling	Poster	LLL52-MMM9	SDCC Halls B-H	6 Tue	8 a.mnoon	
530	The Dynamic Brain: Signatures of Fast Functional Reconfiguration, Their Interpretability, and Clinical Value	Symposium		SDCC 6B	6 Tue	1:30-4 p.m.	2.5
548	Physiological Methods: Electrophysiology: Stimulating Neurons and Electrode Arrays	Nanosymposium		SDCC 30E	6 Tue	1-3:30 p.m.	
549	Computation, Modeling, and Simulation: Network Models: Theory and Experimentation	Nanosymposium		SDCC 2	6 Tue	1-3:15 p.m.	
610	Molecular, Biochemical, and Genetic Techniques: Molecular Techniques II	Poster	JJJ68-LLL27	SDCC Halls B-H	6 Tue	1–5 p.m.	
611	Anatomical Methods: Staining, Tracing, and Imaging Techniques	Poster	LLL28-LLL51	SDCC Halls B-H	6 Tue	1–5 p.m.	
612	Physiological Methods: Optical Methodology: Development II	Poster	LLL52-MMM16	SDCC Halls B-H	6 Tue	1–5 p.m.	
613	Neuronal Networks Widescale, Multimodal, and Electrophyioslogical	Poster	MMM17-MMM32	SDCC Halls B-H	6 Tue	1–5 p.m.	
617	Human Stem Cell Models to Validate Rare and Common Variants Contributing to Neurodevelopmental Disorders	Minisymposium		SDCC 6C	7 Wed	8:30–11 a.m.	2.5

SESS	ION # / SESSION TITLE	SESSION TYPE	POSTER BOARD #	LOCATION	DATE	TIME	CME HOURS
635	Advances in Molecular, Genetic, and Imaging Techniques	Nanosymposium		SDCC 2	7 Wed	8–10 a.m.	
698	Systems Biology and Bioinformatics: Bioinformatics	Poster	JJJ32-JJJ47	SDCC Halls B-H	7 Wed	8 a.mnoon	
699	Physiological Methods: Optical Methodology: Probes	Poster	JJJ48-LLL3	SDCC Halls B-H	7 Wed	8 a.mnoon	
700	Physiological Methods: Electrophysiology: Electrode Arrays II	Poster	LLL4-LLL32	SDCC Halls B-H	7 Wed	8 a.mnoon	
701	Biomarker and Drug Discovery: Affective Disorders and Schizophrenia	Poster	LLL33-LLL50	SDCC Halls B-H	7 Wed	8 a.mnoon	
702	Computation, Modeling, and Simulation: Network Models: Theory II	Poster	LLL51-MMM4	SDCC Halls B-H	7 Wed	8 a.mnoon	
703	Neuronal Network Models Applied to Neuroscience	Poster	MMM5-MMM29	SDCC Halls B-H	7 Wed	8 a.mnoon	
723	Molecular, Biochemical, and Genetic Techniques: Molecular Techniques	Nanosymposium		SDCC 25	7 Wed	1–2:45 p.m.	
796	Physiological Methods: Optical Methodology: Application	Poster	MMM16-MMM39	SDCC Halls B-H	7 Wed	1–5 p.m.	
Them	e J: History and Education						
021	History of Neuroscience	Theme J Poster	JJJ34-JJJ46	SDCC Halls B-H	3 Sat	1–5 p.m.	
022	Teaching of Neuroscience: K-12	Theme J Poster	JJJ47-JJJ60	SDCC Halls B-H	3 Sat	1–5 p.m.	
023	Teaching of Neuroscience: College I	Theme J Poster	JJJ61-LLL14	SDCC Halls B-H	3 Sat	1–5 p.m.	
024	Teaching of Neuroscience: College II	Theme J Poster	LLL15-LLL41	SDCC Halls B-H	4 Sun	8 a.mnoon	
025	Teaching of Neuroscience: Graduate and Professional	Theme J Poster	LLL42-LLL53	SDCC Halls B-H	3 Sat	1–5 p.m.	
026	Public Awareness of Neuroscience: Outreach Activities I	Theme J Poster	LLL54-MMM13	SDCC Halls B-H	4 Sun	8 a.mnoon	
027	Public Awareness of Neuroscience: Outreach Activities II	Theme J Poster	MMM14-MMM26	SDCC Halls B-H	4 Sun	8 a.mnoon	
028	Ethical and Policy Issues in Neuroscience	Theme J Poster	MMM27-MMM39	SDCC Halls B-H	4 Sun	8 a.mnoon	
179	Telling Stories of Science	Minisymposium		SDCC 6E	4 Sun	1:30-4 p.m.	



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NEUROSIOUSY OF DISEASE WORKSHOP. The Role of Invate Immunity in CNS Diseases. NEUROSIOUSY OF DISEASE WORKSHOP. The Role of Invate Immunity in CNS Diseases. SHOP recording to Company of the Company of the Political Repeated. SHOP recording to Section Science Section SOC Diseases. SHOP recording to Section SOC Diseases.			SESSION I TPE	LUGATION	DATE	TIME
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SPOOD SHORT COURSE 2. Functional, Structural, and Movecular Imaging, and Big Data Analysis SIN Preconference Session SINCE COURSE 3. Recognizing and Addressing Proser Dynamics in Academia SIN Preconference Session Hillion Big/foot: Significant Course 5. Recognizing and Addressing Proser Dynamics in Academia SIN Preconference Session Hillion Big/foot: Significant Course 5. Recognizing and Addressing Proser Dynamics in Academia SIN Preconference Session Hillion Big/foot: Significant Course 5. Session 1: Pyrope Witherster - Morteling Splind Cord Development and Disease With Stem Cell-Demond Nations Hillion Big/foot: Significant Significant Significant Significant Significant Development and Disease With Stem Cell-Demond Nations Hillion Big/foot: Significant Significant Significant Significant Significant Development and Disease With Stem Cell-Demond Nations Hillion Big/foot: Significant Significa	SPC01		SfN Preconference Session	SDCC 6A	2 Fri	8 a.m5 p.m.
SPOOD Model the Export, Seasion 1: Carties Automate 1: The Synapses to Behavior Uncovering monitoremot Seasion 1: Carties Automate 3: State Seasion 1: Carties Automate 1: The Synapses to Behavior Uncovering monitoremot Discusse Coloring the Development and Plastody of Neural Circuits 1: State Seasion 1: Carties Automate 3: State Seasion 1: Carties Automate 1: State Seasion 1: Carties Automate 1: State Seasion 1: Carties Automate 1: State Seasion 1: Monitor Preve - Neurophysiology Guiding Recovery After CNS Equity SIN Proconference Seasion Seasion Supplies Beltmoon 1: State Seasion 1: Like State Seasion 2: Like State Seasion 2: Like State Seasion 2: Like State Seasion 3: State Seasion 2: Like State Seasion 3: S	SPC02	SHORT COURSE 1: Sex Differences in the Brain: Balancing Sex in Preclinical Research	SfN Preconference Session	SDCC 6B	2 Fri	8 a.m.–6 p.m.
Need the Expert, Session 1: Curtos Atzenman From Synapses to Bethavior: Unicoverling Fundamental Concepts Session 1: Curtos Atzenman From Synapses to Bethavior: Unicoverling Fundamental Concepts Session 1: Hybrok Wichter - Modeling Spinal Cord Development and Disease Shi Preconference Session Hillion Bayford: Supplies Barborni 1 With Stam Control Development and Plasticity of Nevarior Programs of Spinal Cord Development and Disease Shi Preconference Session Hillion Bayford: Supplies Barborni 1 Spinal Bethavior 1 Spinal B	SPC03	SHORT COURSE 2: Functional, Structural, and Molecular Imaging, and Big Data Analysis	SfN Preconference Session	SDCC 6C	2 Fri	8 a.m6 p.m.
Fundamental Concepts Guiding the Development and Plasticity of Neural Circuits SPC00 Meet-the-Expert, Session 1: North With Internal Policy Span I Cord Development and Disease SPC007 Meet-the-Expert, Session 1: Agents With Internal Policy Span I Cord Development and Disease SPC007 Meet-the-Expert, Session 1: Carnilla Ballow - My Parsonal Journey From Synapses to Circuit and Behavior SPC008 Meet-the-Expert, Session 1: Carnilla Ballow - My Parsonal Journey From Synapses to Circuit and Behavior SPC009 Meet-the-Expert, Session 1: Morrica Persor - Meanphysiology Guiding Recovery After CNS Hyury SPC009 Meet the Expert, Session 1: Lisa Stores - From Behavior to Mechanism: The Features and Flavor of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse of Shudging Internal and Social Behavior in the Mouse Shudging Internal and Social Section 1: Sasphire Sellation Ballot Behavior Shudging Internal and Social Sellation Behavior Shudging Internal Sell	SPC04	SHORT COURSE 3: Recognizing and Addressing Power Dynamics in Academia	SfN Preconference Session	SDCC 11	2 Fri	1-5:30 p.m.
With Stem Call-Derived Neurons SNP Preconference Session Supphire Ballroom I 3-81 8-9-15 a.m. Wall-Time-Expart, Session 1: Canalla Ballona – My Personal Journey From Synapse to SIN Preconference Session Supphire Ballroom I 3-81 8-9-15 a.m. SPC03 Meet-time-Expart, Session 1: Monica Perez - Neurophysiology Guiding Recovery After CNS Irigary SIN Preconference Session Hitton Bayfront: Supphire Ballroom I 3-81 8-9-15 a.m. Septime Ballroom I 3-81 8-9-15 a.m. Septime Ballroom I 3-8-9-15 a.m. Septi	SPC05		SfN Preconference Session	*	3 Sat	8-9:15 a.m.
PCOD Meet-the-Expert, Session 1: Monica Perez - Neurophysiology Guiding Recovery After CNS Injury SNN Preconference Session Hillon Bayfront: Sapphire Ballmonn M Sat 8–9.15 a.m. SPC00 Meet-the-Expert, Session 1: Linea Stowers - From Behavior to Mechanism: The Features and Flave of Studying Innata and Social Behavior in the Mouse SNN Preconference Session Hillon Bayfront: Sapphire Ballmonn A Sat 8–9.15 a.m. SPC10 Meet-the-Expert, Session 1: Timothy Harris - High Channel Count Electrophysiology, Neuropoets, SNN Preconference Session Hillon Bayfront: Sapphire Ballmonn A Sat 8–9.15 a.m. SPC11 Meet-the-Expert, Session 1: Timothy Harris - High Channel Count Electrophysiology, Neuropoets, SNN Preconference Session Hillon Bayfront: Sapphire Ballmonn A Sat 8–9.15 a.m. SPC11 Meet-the-Expert, Session 1: Timothy Harris - High Channel Count Electrophysiology, Neuropoets, SNN Preconference Session Hillon Bayfront: Sapphire Ballmonn B SNN Preconference Session Hillon Bayfront: Sapphire Ballmonn	SPC06		SfN Preconference Session	•	3 Sat	8-9:15 a.m.
Meet-the-Expert, Session 1: Monara Perez - Neurophysiology (studing Necovery Atter CNS Injury Sh Preconference Session Sapphire Ballroom M 9 3 at 8-9:15 a.m. SPC10 Meet-the-Expert, Session 1: Lisa Slowers - From Behavior to Mechanism: The Features and Flaws Sh Preconference Session Hillion Bayfront: Sapphire Ballroom A 3 Sat 8-9:15 a.m. SPC10 Meet-the-Expert, Session 1: Timothy Harris - High Channel Count Electrophysiology, Neuropixels, and Beyond: Where Cart Technology Take Us? SIN Preconference Session Hillion Bayfront: Sapphire Ballroom A 3 Sat 8-9:15 a.m. Septine Ballroom B 1 Sin Preconference Session Septine Ballroom B 1 Sin Preconference Session Session 2: Cherephus Gu - Molecular Mechanisms of Sensory Signaling Sense: Neuronal and Molecular Mechanisms of Sensory Signaling Sin Preconference Session Sin Septine Ballroom B 3 Sat 9:30-30-30-30-30-30-30-30-30-30-30-30-30-3	SPC07		SfN Preconference Session	*	3 Sat	8-9:15 a.m.
of Studying Immate and Social Behavior in the Mouse SIN Preconference Session Sapphire Ballroom E SIN Preconference Session Hilton Bayfront: Sapphire Ballroom A Sapphire Ballroom B Sin Preconference Session Hilton Bayfront: Sapphire Ballroom B	SPC08	Meet-the-Expert, Session 1: Monica Perez - Neurophysiology Guiding Recovery After CNS Injury	SfN Preconference Session	,	3 Sat	8-9:15 a.m.
and Beyond: Where Can Technology Take Us? SIN Preconference Session Sapphire Ballroom A Sat 8-9-15 a.m. SPC11 Meet-the-Clinician-Expert, Session 1: Y. Joyce Liao - How to Make Your Work/Life Relevant SIN Preconference Session Sin Preconference Session Hilton Bay/ront: Sapphire Ballroom B Sapphire Ballroom B Sat 9-30- 10-45 a.m. SPC13 Meet-the-Expert, Session 2: Chenghua Gu - Molecular Mechanisms Governing the Blood Brain Barrier Function SIN Preconference Session Hilton Bay/ront: Sapphire Ballroom I Sapphire Ballroom I Sapphire Ballroom I Sat 9-30- 10-45 a.m. SPC14 Meet-the-Expert, Session 2: Piali Sengupta - Start Making Sense: Neuronal and Molecular Mechanisms of Sensory Signaling Meet-the-Clinician-Expert, Session 2: Christian Luscher - A Circuit Model for Addiction: SIN Preconference Session Sin Preconference Session Hilton Bay/ront: Sapphire Ballroom E Sapphire Ballroom E Sapphire Ballroom E Sapphire Ballroom B Sat 10-45 a.m. SPC15 Meet-the-Expert, Session 2: Christian Luscher - A Circuit Model for Addiction: Construction and Translation Sin Preconference Session Hilton Bay/ront: Sapphire Ballroom B Sat 10-45 a.m. SPC16 Meet-the-Expert, Session 2: Tomomi Shimogori - Early Life Experence Shapes Brain Development: To Understand Primate Brains From Rodent Works SPC17 Meet-the-Expert, Session 2: Anne Churchland - Decision-Making in the Brain, the Lab, and Beyond Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Sin Preconference Session Hilton Bay/ront: Sapphire Ballroom B Sat 10-45 a.m. Professional Development Workshop Professional Development Workshop Professional Development Workshop SDCC 30E 3 Sat 9-30- 10-45 a.m. Professional Development Workshop New Publication Landscape Professional Development Workshop SDCC 31C 3 Sat 12-2 p.m. Professional Development Workshop SDCC 31C 3 Sat 3-5 p.m.	SPC09		SfN Preconference Session	*	3 Sat	8-9:15 a.m.
Meet-the-Expert, Session 2: Linda Overstreet-Wadiche - Understanding the Physiology of New and Old Neurons in the Dentate Gyrus Meet-the-Expert, Session 2: Linda Overstreet-Wadiche - Understanding the Physiology of New and Old Neurons in the Dentate Gyrus Meet-the-Expert, Session 2: Chenghua Gu - Molecular Mechanisms Governing the Blood Brain Barrier Function StN Preconference Session Meet-the-Expert, Session 2: Chenghua Gu - Molecular Mechanisms Governing the Blood Brain Barrier Function StN Preconference Session Hilton Bayfront: Sapphire Ballroom E Meet-the-Clinician-Expert, Session 2: Plail Sengupta - Start Making Sense: Neuronal and Molecular Mechanisms of Sensory Signaling Meet-the-Clinician-Expert, Session 2: Christian Luscher - A Circuit Model for Addiction: Construction and Translation StN Preconference Session Hilton Bayfront: Sapphire Ballroom E Meet-the-Expert, Session 2: Thromai Shimogori - Early Life Experience Shapes Brain Development: To Understand Primate Brains From Rodent Works Popular Meet-the-Expert, Session 2: Amen Churchland - Decision-Making in the Brain, the Lab, and Beyond Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Professional Development Workshops Professional Development Workshop DW01 Building a Supportive Global Network Improving Your Science: Better Inference, Reproducible Analyses, and the New Publication Landscape Professional Development Workshop SDCC 31C 3 Sat 12–2 p.m. Professional Development Workshop SDCC 31C 3 Sat 12–2 p.m.	SPC10		SfN Preconference Session		3 Sat	8-9:15 a.m.
Meet-the-Expert, Session 2: Chenghua Gu - Molecular Mechanisms Governing the Blood Brain Barrier Function Meet-the-Expert, Session 2: Chenghua Gu - Molecular Mechanisms Governing the Blood Brain Barrier Function Meet-the-Expert, Session 2: Piali Sengupta - Start Making Sense: Neuronal and Molecular Mechanisms of Sensorry Signaling Meet-the-Expert, Session 2: Piali Sengupta - Start Making Sense: Neuronal and Molecular Mechanisms of Sensorry Signaling Meet-the-Expert, Session 2: Piali Sengupta - Start Making Sense: Neuronal and Molecular Mechanisms of Sensorry Signaling Meet-the-Expert, Session 2: Christian Luscher - A Circuit Model for Addiction: SfN Preconference Session Meet-the-Expert, Session 2: Christian Luscher - A Circuit Model for Addiction: SfN Preconference Session Meet-the-Expert, Session 2: Tomomi Shimogori - Early Life Experience Shapes Brain Development: To Understand Primate Brains From Rodent Works Meet-the-Expert, Session 2: Anne Churchland - Decision-Making in the Brain, the Lab, and Beyond Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Professional Development Workshop Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Professional Development Workshop SDCC 30E 3 Sat 9-11 a.m. Professional Development Workshop SDCC 31C 3 Sat 12-2 p.m. Development Workshop Professional Development Workshop SDCC 31C 3 Sat 3-5 p.m.	SPC11	Meet-the-Clinician-Expert, Session 1: Y. Joyce Liao - How to Make Your Work/Life Relevant	SfN Preconference Session	*	3 Sat	8-9:15 a.m.
Barrier Function SIN Preconference Session Sapphire Ballroom I 10:45 a.m. PC14 Meet-the-Expert, Session 2: Piali Sengupta - Start Making Sense: Neuronal and Molecular Mechanisms of Sensory Signaling Meet-the-Clinician-Expert, Session 2: Christian Luscher - A Circuit Model for Addiction: Construction and Translation SfN Preconference Session Hilton Bayfront: Sapphire Ballroom B 3 Sat 9:30— 10:45 a.m. SfN Preconference Session Hilton Bayfront: Sapphire Ballroom B 3 Sat 9:30— 10:45 a.m. SfN Preconference Session Hilton Bayfront: Sapphire Ballroom B 3 Sat 9:30— 10:45 a.m. SpC17 Meet-the-Expert, Session 2: Anne Churchland - Decision-Making in the Brain, the Lab, and Beyond Meet-the-Expert, Session 2: Anne Churchland - Decision-Making in the Brain, the Lab, and Beyond Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators PC16 Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators PC17 Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators PC18 Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators PC19 Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators PC19 Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators PC19 Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development Workshop Spect Sin Preconference Session Hilton Bayfront: Spphire Ballroom A 3 Sat 9:30— 10:45 a.m. PC10:45 a.m. PC10	SPC12		SfN Preconference Session	*	3 Sat	
Meet-the-Expert, Session 2: Christian Luscher - A Circuit Model for Addiction: Construction and Translation Meet-the-Expert, Session 2: Tomomi Shimogori - Early Life Experience Shapes Brain Development. To Understand Primate Brains From Rodent Works PC17 Meet-the-Expert, Session 2: Anne Churchland - Decision-Making in the Brain, the Lab, and Beyond Meet-the-Expert, Session 2: Anne Churchland - Decision-Making in the Brain, the Lab, and Beyond Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development Workshop Development Workshops Development Workshops Development Workshop Development Work	SPC13		SfN Preconference Session	*	3 Sat	
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And Beyond SIN Preconference Session Sapphire Ballroom A 3 Sat 10:45 a.m. SPC18 Meet-the-Expert, Session 2: Michael Lin - The Need for Speed: Development and Use of Genetically Encoded Voltage Indicators SfN Preconference Session SfN Preconference Session Hilton Bayfront: Sapphire Ballroom M 3 Sat 10:45 a.m. Professional Development Workshops PDW01 Building a Supportive Global Network Professional Development Workshop SDCC 30E 3 Sat 9-11 a.m. PDW02 Improving Your Science: Better Inference, Reproducible Analyses, and the New Publication Landscape Professional Development Workshop SDCC 31C 3 Sat 9-11 a.m. PDW03 Careers in Making Medicines: Translating Basic Research Into Therapeutics Professional Development Workshop SDCC 31C 3 Sat 12-2 p.m. PDW04 How SfN Helped My Career: Expanding Your Neural Network at the Annual Meeting Professional Development Workshop SDCC 31C 3 Sat 12-2 p.m. PDW05 How to Thrive as a Woman in Neuroscience Professional Development Workshop SDCC 31C 3 Sat 3-5 p.m.	SPC16		SfN Preconference Session	•	3 Sat	
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PDW05 How to Thrive as a Woman in Neuroscience Professional Development Workshop SDCC 31C 3 Sat 3-5 p.m.	PDW03	Careers in Making Medicines: Translating Basic Research Into Therapeutics	Professional Development Workshop	SDCC 31C	3 Sat	12–2 p.m.
	PDW04	How SfN Helped My Career: Expanding Your Neural Network at the Annual Meeting	Professional Development Workshop	SDCC 30E	3 Sat	12–2 p.m.
PDW06 Bringing a Student-Run Outreach Program to Your Institution Professional Development Workshop SDCC 11 4 Sun 9-11 a.m.	PDW05	How to Thrive as a Woman in Neuroscience	Professional Development Workshop	SDCC 31C	3 Sat	3–5 p.m.
	PDW06	Bringing a Student-Run Outreach Program to Your Institution	Professional Development Workshop	SDCC 11	4 Sun	9–11 a.m.

SESSION	# / SESSION TITLE	SESSION TYPE	LOCATION	DATE	TIME
PDW07	Face-to-Face Networking: Building and Maintaining Professional Relationships	Professional Development Workshop	SDCC 30E	4 Sun	9–11 a.m.
PDW08	Fixing the Leaky Pipeline for Women in Science: Addressing Issues Facing New Moms	Professional Development Workshop	SDCC 31C	4 Sun	9–11 a.m.
PDW09	Career Planning and Explorations for Biomedical PhD Scientists and Physician-Scientists (MD/PhD)	Professional Development Workshop	SDCC 31C	4 Sun	12–2 p.m.
PDW10	Cultivating Leadership in Multidisciplinary Research: Bridging Gaps Across Campuses, Countries, and Continents	Professional Development Workshop	SDCC 30E	4 Sun	12–2 p.m.
PDW11	Neuroscience Departments and Programs Workshop: Breaking Through: Pathways to Independence for Early Career Neuroscientists	Professional Development Workshop	SDCC 30E	4 Sun	2:30-5 p.m.
PDW12	How a Journal Handles Your Paper	Professional Development Workshop	SDCC 31C	4 Sun	3-5 p.m.
PDW13	FAIR Neuroscience: Sharing and Collaborating for Reproducible Neuroscience	Professional Development Workshop	SDCC 31C	5 Mon	9–11 a.m.
PDW14	Teaching Neuroscience: Emotion and Learning	Professional Development Workshop	SDCC 30E	5 Mon	9–11 a.m.
Meeting	s and Events				
ME01	NeuroJobs Career Center	Meetings and Events	SDCC Sails Pavilion	3 Sat	8 a.m5 p.m.
ME02	Meeting Mobile App Tutorial	Meetings and Events	SDCC 11	3 Sat	10-11 a.m.
ME03	Graduate School Fair	Meetings and Events	SDCC Sails Pavilion	3 Sat	1-3 p.m.
ME04	BRAIN AWARENESS CAMPAIGN EVENT: Action and Potential in Outreach, Education, and Research	Meetings and Events	SDCC 16	3 Sat	2:30-4 p.m.
ME05	Diversity Poster Session	Meetings and Events	SDCC Hall A	3 Sat	6:30-8:30 p.m.
ME06	International Fellows Poster Session	Meetings and Events	SDCC Hall A	3 Sat	6:30-8:30 p.m.
ME07	Trainee Professional Development Awards Poster Session	Meetings and Events	SDCC Hall A	3 Sat	6:30-8:30 p.m.
ME08	Career Development Topics: A Networking Event	Meetings and Events	SDCC Hall A	3 Sat	7:30-9:30 p.m.
ME09	NeuroJobs Career Center	Meetings and Events	SDCC Sails Pavilion	4 Sun	8 a.m5 p.m.
ME10	Graduate School Fair	Meetings and Events	SDCC Sails Pavilion	4 Sun	12-2 p.m.
ME11	SOCIAL ISSUES ROUNDTABLE: Solitary Confinement: Psychological and Neurobiological Insights Into Isolation	Meetings and Events	SDCC 10	4 Sun	1–3 p.m.
ME12	NeuroJobs Career Center	Meetings and Events	SDCC Sails Pavilion	5 Mon	8 a.m5 p.m.
ME13	NeuroJobs Career Center Workshop: Best Practices for Filling Your Open Position With the Perfect Candidate	Meetings and Events	SDCC 11	5 Mon	10-10:30 a.m.
ME14	ANIMALS IN RESEARCH PANEL: Gaining Public Support for Animal Research: A Proposal for Openness	Meetings and Events	SDCC 11	5 Mon	12–2 p.m.
ME15	Graduate School Fair	Meetings and Events	SDCC Sails Pavilion	5 Mon	12-2 p.m.
ME16	SfN CHAPTERS WORKSHOP AND RECEPTION	Meetings and Events	Marriott Marquis: San Diego Ballroom A	5 Mon	6:45-8:45 p.m.
ME17	NeuroJobs Career Center	Meetings and Events	SDCC Sails Pavilion	6 Tue	8 a.m5 p.m.
ME18	Celebration of Women in Neuroscience Luncheon	Meetings and Events	Hilton Bayfront: Sapphire Ballroom CD	6 Tue	12–2 p.m.
ME19	Graduate School Fair	Meetings and Events	SDCC Sails Pavilion	6 Tue	12-2 p.m.
ME20	PUBLIC ADVOCACY FORUM: Advocacy in Four Dimensions	Meetings and Events	SDCC 10	6 Tue	2-3:30 p.m.
ME21	SfN Members' Business Meeting	Meetings and Events	SDCC 3	6 Tue	6:45-7:30 p.m.
ME22	Graduate Student Reception	Meetings and Events	Hilton Bayfront: Sapphire Ballroom CD	6 Tue	8:30-11:30 p.m.
ME23	NeuroJobs Career Center	Meetings and Events	SDCC Sails Pavilion	7 Wed	8 a.m3 p.m.

Clinician-Scientists and Continuing Medical Education (CME)

Continuing Medical Education

The Society for Neuroscience (SfN) annual meeting is a forum for the education of physicians in the field of neuroscience.

By attending select lectures, symposia, minisymposia, and roundtables, physicians can receive both a broad overview of the field and detailed information about the most recent advances and research on the topic of the session. The abstract of each plenary session contains a brief description of the material to be presented. By attending these events, physicians can better understand the basic science that underlies clinical practice.

Statement of Need

It is important that physicians comprehend the basic science that underlies clinical medicine. The SfN annual meeting is the premier venue for this educational opportunity. Physicians learn about the most up-to-date, cutting-edge discoveries regarding the brain and nervous system.

Global Learning Objective

Physicians will integrate the most up-todate information and research about the mechanism, treatment, and diagnosis of conditions related to neurological and psychiatric disorders into their diagnostic and therapeutic modalities of practices in order to determine the best course of action in treating the patient.

Accreditation

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

Credit Designation by Format

Albert and Ellen Grass Lecture

SfN designates this live activity for a maximum of 1.25 AMA PRA Category 1

Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Basic-Translational-Clinical Roundtables

SfN designates this live activity for a maximum of 2.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Minisymposia

SfN designates this live activity for a maximum of 2.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Presidential Special Lectures

SfN designates this live activity for a maximum of 1.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Special Lectures

SfN designates this live activity for a maximum of 1.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Symposia

SfN designates this live activity for a maximum of 2.5 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

A meeting attendee seeking Continuing Medical Education (CME) credit may use a combination of the activities described above to claim a maximum of 35 AMA PRA Category 1 CreditsTM.

CME Registration

CME registration must be completed before or during the annual meeting. An on-site processing fee of \$135 is charged in addition to the meeting registration fee. Purchase orders will not be accepted as payment. To register for CME, check the appropriate box on the annual meeting registration form and include the CME processing fee.

Those who do not register for CME before the conclusion of the meeting will not be able to request CME credits. CME registration cannot be completed after the annual meeting. Two weeks prior to the start of the meeting, CME registrants will receive the CME Supplemental Program, which contains important information regarding the CME program, including disclosure information and instructions for how to obtain the CME certificate.

CME Credit for Exhibitors

Exhibitors with medical degrees can earn *AMA PRA Category 1 Credits*™ by registering for the CME program and attending lectures, symposia, minisymposia, and clinical roundtable sessions. Call Convention Data Services at (888) 736-6690 or (508) 743-8563 to add CME to your exhibitor registration.

Claiming Credits

Physicians who registered for CME will be invited to claim their AMA PRA Category 1 Credits™ and print their CME certificates via the online Neuroscience Meeting Planner (NMP) following the conclusion of the educational activities. CME registration is required to be able to access the credit claiming site. Visit sfn.org/cme for additional information.



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Awards in Neuroscience

Award for Education in Neuroscience

The Award for Education in Neuroscience recognizes individuals who have made outstanding contributions to neuroscience education and training. The award will be presented prior to the Presidential Special Lecture Monday, November 5, at 5:15 p.m. in the San Diego Convention Center, Ballroom 20.

Bernice Grafstein Award for Outstanding Accomplishments in Mentoring

Support contributed by: Bernice Grafstein, PhD

The Bernice Grafstein Award is given to an individual who has shown dedication and success in mentoring female neuroscientists and facilitating their entry or retention in the field. The award will be presented during the Celebration of Women in Neuroscience Luncheon Tuesday, November 6, at noon in the Hilton Bayfront Hotel, Sapphire CD.

Chapter of the Year Award

The Chapter of the Year Award is given to an SfN chapter in recognition of its efforts to engage the local community in innovative activities that advance the mission of the Society for Neuroscience. Awardees are selected by the Global Membership Committee. The award will be presented at the Chapters Workshop and Reception Monday, November 5, at 6:45 p.m. in the Marriott Marquis, San Diego Ballroom A.

Donald B. Lindsley Prize in Behavioral Neuroscience

Support contributed by:

The Grass Foundation

The Donald B. Lindsley Prize recognizes a young neuroscientist for his or her outstanding PhD thesis in the general area

of behavioral neuroscience. The prize will be presented prior to the Albert and Ellen Grass Lecture Monday, November 5, at 3:15 p.m. in the San Diego Convention Center, Ballroom 20.

Jacob P. Waletzky Award

Support contributed by: The Waletzky Family
The Jacob P. Waletzky Award is given to a
young scientist (within 15 years of his/her
receiving a PhD or MD degree) who has
conducted or plans to conduct independent
research leading to significant conceptual
and/or empirical contributions to the
understanding of drug addiction. The award
will be presented prior to the Presidential
Special Lecture Saturday, November 3,
at 5:15 p.m. in the San Diego Convention
Center. Ballroom 20.

Janett Rosenberg Trubatch Career Development Award

Support contributed by: The Trubatch Family
The Janett Rosenberg Career Development
Award recognizes two individuals who
have demonstrated originality and creativity
in research and is intended to promote
success during academic transitions prior to
tenure. The awards will be presented during
the Celebration of Women in Neuroscience
Luncheon Tuesday, November 6, at noon in
the Hilton Bayfront Hotel, Sapphire CD.

Julius Axelrod Prize

Support contributed by: Eli Lilly and Company Foundation

The Julius Axelrod Prize honors a scientist with distinguished achievements in neuropharmacology or a related area and exemplary efforts in mentoring young scientists. The award will be presented prior to the Presidential Special Lecture Saturday, November 3, at 5:15 p.m. in the San Diego Convention Center. Ballroom 20.



Louise Hanson Marshall Special Recognition Award

The Louise Hanson Marshall Special Recognition Award honors an individual who has significantly promoted the professional development of women in neuroscience through teaching, organizational leadership, public advocacy, or other efforts not necessarily related to research. The award will be presented during the Celebration of Women in Neuroscience Luncheon Tuesday, November 6, at noon in the Hilton Bayfront Hotel, Sapphire CD.

Mika Salpeter Lifetime Achievement Award

The Mika Salpeter Lifetime Achievement Award recognizes an individual with outstanding career achievements in neuroscience who also has significantly promoted the professional advancement of women in neuroscience. The award will be presented prior to the Presidential Special Lecture Monday, November 5, at 5:15 p.m. in the San Diego Convention Center, Ballroom 20 and again recognized during the Celebration of Women in Neuroscience Luncheon Tuesday, November 6, at noon in the Hilton Bayfront Hotel, Sapphire CD.

Nemko Prize in Cellular or Molecular Neuroscience

Support contributed by: The Nemko Family
The Nemko Prize recognizes a young
neuroscientist for his or her outstanding PhD
thesis that advances the understanding of
molecular, genetic, or cellular mechanisms
underlying brain function, including higher
function and cognition. The prize will be
presented prior to the Albert and Ellen
Grass Lecture Monday, November 5, at 3:15
p.m. in the San Diego Convention Center,
Ballroom 20.

Next Generation Award

The Next Generation Award recognizes SfN chapter members who have made outstanding contributions to public communication, outreach, and education about neuroscience. The award will be presented prior to the Presidential Special Lecture Tuesday, November 6, at 5:15 p.m. in the San Diego Convention Center, Ballroom 20.

Patricia Goldman-Rakic Hall of Honor

The Patricia Goldman-Rakic Hall of Honor is a posthumous award for a neuroscientist who pursued career excellence and exhibited dedication to the advancement of women in neuroscience. The award will be presented during the Celebration of Women in Neuroscience Luncheon Tuesday, November 6, at noon in the Hilton Bayfront Hotel, Sapphire CD.

Peter and Patricia Gruber International Research Award in Neuroscience

Support contributed by:

The Gruber Foundation

The Peter and Patricia Gruber International Research Award in Neuroscience recognizes two young neuroscientists for outstanding research and educational pursuit in an international setting. The awards will be presented prior to the Peter and Patricia Gruber Lecture Sunday,

November 4, at 2:30 p.m. in the San Diego Convention Center, Ballroom 20.

Ralph W. Gerard Prize in Neuroscience

The Ralph W. Gerard Prize, the highest recognition conferred by the Society, honors an outstanding scientist who has made significant contributions to neuroscience throughout his or her career. This prize is named for Ralph W. Gerard, who was instrumental in founding SfN and served as honorary president from 1970 until his death in 1974. The prize will be presented prior to the Presidential Special Lecture Sunday, November 4, at 5:15 p.m. in the San Diego Convention Center. Ballroom 20.

Science Educator Award

Support contributed by: The Dana Foundation

The Science Educator Award honors up to two outstanding neuroscientists who have made significant contributions to educating the public about neuroscience: one who conducts education activities full time, and/or one who devotes his or her time primarily to research while conducting outreach, policy, and education activities. The award will be presented prior to the Presidential Special Lecture Tuesday, November 6, at 5:15 p.m. in the San Diego Convention Center, Ballroom 20.

Swartz Prize for Theoretical and Computational Neuroscience

Support contributed by:

The Swartz Foundation

The Swartz Prize honors an individual whose activities have produced a significant cumulative contribution to theoretical models or computational methods in neuroscience or who has made a particularly noteworthy recent advance in theoretical or computational neuroscience. The prize will be presented prior to the Presidential Special Lecture Saturday, November 3, at 5:15 p.m. in the San Diego Convention Center, Ballroom 20.

Young Investigator Award

Support contributed by: Sunovion
The Young Investigator Award recognizes the outstanding achievements and contributions of a young neuroscientist who has demonstrated scholarly independence and received his or her advanced professional degree in the past ten years. The award will be presented prior to the Albert and Ellen Grass Lecture Monday, November 5, at 3:15 p.m. in the San Diego Convention Center, Ballroom 20.

SfN Professional Development Awards

SfN/IBRO International Professional Development Awards

SfN/IBRO International Travel Awards recognize young investigators from developing countries. The awards are sponsored by SfN, and recipients are selected by the International Brain Research Organization (IBRO). This year, 34 awardees from ten countries will attend Neuroscience 2018.

SfN/JNS Professional Development Awards

Support contributed by: John Simpson SfN and the Japan Neuroscience Society (JNS) sponsor a travel award exchange program allowing five trainees from Japan to attend the SfN annual meeting and five North American trainees who are members of SfN to attend the JNS meeting in Japan.

Trainee Professional Development Awards

Support contributed by: Amgen, Biogen, Burroughs Wellcome Fund, the Nancy Rutledge Zahniser Fund, Novartis Institutes for BioMedical Research, Sanofi, Friends of SfN Fund, and the Society for Neuroscience

The Trainee Professional Development Award (TPDA) recognizes undergraduate and graduate students and postdoctoral fellows demonstrating scientific merit and excellence in research with the chance to present an abstract in a poster session, meet peers, network with senior scientists, and participate in learning opportunities at the annual meeting.



Registration

ONLINE DISCOUNT	OPENS OCTOBER 3 AT MIDNIGHT EDT AND CONTINUES THROUGH THE ANNUAL MEETING
ON-SITE IN LINE	OPENS NOVEMBER 3 AT 7:30 A.M. PDT AND CONTINUES THROUGH THE ANNUAL MEETING

REGISTRATION CATEGORY	ONLINE DISCOUNT	ON-SITE IN LINE DISCOUNT
Member	\$460	\$550
Member, Category II	\$195	\$235
Member, Category III	\$260	\$305
Postdoctoral Member	\$345	\$415
Postdoctoral Member, Category II	\$125	\$145
Postdoctoral Member, Category III	\$190	\$230
Student Member	\$230	\$275
Student Member, Category II	\$80	\$100
Student Member, Category III	\$130	\$155
Student Member, Undergraduate	\$115	\$140
Student Member, Undergraduate Category II	\$40	\$50
Student Member, Undergraduate Category III	\$65	\$80
Nonmember	\$830	\$995
Student Nonmember	\$415	\$495
Guest - Nonscientific	\$65	\$75
Continuing Medical Education CME	\$115	\$135

Note: Single-day registration is not available.

All members must be in good standing at the time of registering for the annual meeting in order to receive member rates. Membership status will be verified. Fees vary based on registration categories and options. Refunds will not be issued for incorrect registration categories. If you choose to register under another category before your membership status is verified, the difference will not be refunded to you. No exceptions. If you are uncertain about your membership status, contact membership@sfn.org or call (202) 962-4911.

Accepted Forms of Payment

MasterCard, Visa, American Express, Discover, checks or money orders in U.S. dollars drawn on a U.S. bank and made payable to the Society for Neuroscience, and cash (on-site only).

Badge Reprint Fee

Attendees will incur a \$25 fee for badge reprints. If you require a badge reprint, visit the Attendee Resources counter in the Sails Pavilion of the San Diego Convention Center.

When to Register

Online Discount

From Wednesday, Oct. 3 through the duration of the annual meeting, discounted fees are available by using the online registration system. Avoid waiting in line and bring your confirmation number to any Express Badge Pick-Up location to claim your meeting materials.

On-Site In Line Registration

Discounted registration fees are available through the online registration system. If you prefer to register at an on-site counter (located in the Sails Pavilion of the San Diego Convention Center), higher registration rates apply. On-site and online registration will be available for the duration of the meeting.

On-Site Registration Hours

Friday, Nov. 2*, 2-5 p.m. PDT Saturday, Nov. 3, 7:30 a.m.–5 p.m. PDT Sunday, Nov. 4–Wednesday, Nov. 7, 7:30 a.m.–5 p.m. PST

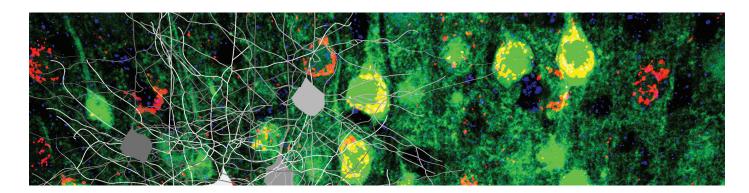
*Express Badge Pick-Up stations available only. Full registration services will begin Saturday, Nov. 3, at 7:30 a.m. PDT.

Contact Information

sfnregistration@xpressreg.net (888) 736-6690 (U.S. and Canada) +1 (508) 743-8563 (International) 9 a.m.-5 p.m. EDT

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Navigating the Meeting



Explore all that the meeting has to offer with SfN's electronic meeting resources!

Neuroscience Meeting Planner

Use the online Neuroscience Meeting Planner (NMP) to browse full-text abstracts, explore sessions, create itineraries, and much more. Attendees can access the NMP at www.sfn.org/NMP or onsite in the Neuroscience Meeting Planner Viewing Area (San Diego Convention Center, Sails Pavilion).

Meeting Mobile App

Download the meeting mobile app to your Apple or Android devices and access annual meeting content on-the-go. With offline functionality, you can use the app to explore sessions and presentations and plan your time at the annual meeting without an internet connection. The app is available in iTunesTM and the Google PlayTM App Store.

Meeting Mobile App Tutorial Session

Saturday, November 3
San Diego Convention Center: Room 11
Time: 10–11 a.m.

To ensure that attendees are able to take full advantage of the annual meeting mobile app, a free user tutorial led by the app's developers well be held during the meeting.

Curated Itineraries

These topical itineraries created by the SfN Program Committee tailor the annual meeting to your area of interest. Download the itineraries using the annual meeting mobile app or the Neuroscience Meeting Planner.

Trainee-focused Curated Itineraries

Continuing from last year, there are two additional curated itineraries, created by SfN's Trainee Advisory Committee, which are geared toward trainees and are intended to complement the scientific itineraries. Look for these itineraries in the annual meeting mobile app and the Neuroscience Meeting Planner.

- Undergraduate
- Graduate/Post Doc

Printed Programs

As a part of its commitment to environmental stewardship and resource conservation, the Society has enhanced its digital offerings for accessing scientific program content in order to reduce the overall number of printed program books.

All Neuroscience 2018 program information will be accessible free of charge in the meeting mobile app and the Neuroscience Meeting Planner. Attendees may also opt to download PDF versions of the printed books from SfN.org.

Attendees will receive free printed copies of the general information book and the Exhibit Guide. The printed daily books and the author index will be available for a modest fee.

Fees are as follows:

SfN Members

Full Program Set	\$40
ndividual Daily Books	\$17

Nonmembers

Full Program Set	\$50
Individual Daily Books	\$22

Hotel Map

The Society's housing company, Convention Management Resources (CMR), will be on-site to assist with any housing questions during the meeting. Representatives will be located in the San Diego Convention Center, Sails Pavilion, Nov. 3-7 during the following hours:

Friday, Nov. 2-2-5 p.m. | Saturday, Nov. 3-7:30 a.m. -5 p.m. | Wednesday, Nov. 7-7:30 a.m. -3 p.m. On-site phone: (619) 525-6215



Hotel List

The Hilton San Diego Bayfront, the Manchester Grand Hyatt San Diego, and the Marriott Marquis San Diego Marina are the official co-headquarter hotels.

#	HOTEL NAME / ADDRESS	SHUTTLE ROUTE	PICK UP POINT	LOCATION
	CO-HEADQUARTERS HOTELS			
1	Hilton San Diego Bayfront One Park Boulevard	Walk	Walk to San Diego Convention Center	Downtown
2	Manchester Grand Hyatt San Diego One Market Place	Walk	Walk to San Diego Convention Center	Downtown
3	Marriott Marquis San Diego Marina 333 West Harbor Drive	Walk	Walk to San Diego Convention Center	Downtown
	ATTENDEE HOTELS			
4	Andaz San Diego 600 F Street	6-Pink	Across Street on Sixth Avenue at F Street	Downtown
5	Bay Club Hotel and Marina 2131 Shelter Island Drive	1-Red	Walk to Humphreys Half Moon — Curbside in Front on Shelter Island Dr.	Shelter Island
6	Best Western Plus Bayside Inn 555 West Ash Street	7-Purple	On India Street at Ash Street	Downtown
7	Best Western Plus Island Palms Hotel & Marina 2051 Shelter Island Drive	1-Red	Curbside in Front	Shelter Island
8	Best Western Seven Seas 411 Hotel Circle South	3-Yellow	Walk to Days Inn – Curbside on Hotel Circle Drive	Mission Valley
9	Bristol Hotel 1055 First Avenue	5-Orange	Walk to Westin Gaslamp Quarter on First Avenue	Downtown
10	Courtyard San Diego Downtown 530 Broadway	6-Pink	Curbside on Sixth Avenue	Downtown
11	Courtyard San Diego Gaslamp/Convention Center 453 Sixth Avenue	Walk	Walk to San Diego Convention Center	Downtown
12	Days Inn San Diego Hotel Circle Near Seaworld 543 Hotel Circle South	3-Yellow	Curbside on Hotel Circle	Mission Valley
13	DoubleTree by Hilton Hotel San Diego Downtown 1646 Front Street	7-Purple	Curbside at Union Street Entrance	Downtown
14	Embassy Suites by Hilton San Diego Bay Downtown 601 Pacific Highway	4-Green	Curbside on Pacific Highway	Downtown

#	HOTEL NAME / ADDRESS	SHUTTLE ROUTE	PICK UP POINT	LOCATION
15	Four Points by Sheraton San Diego Downtown 1617 First Avenue	7-Purple	Walk to DoubleTree – Curbside at Union Street Entrance	Downtown
16	Hampton Inn San Diego - Downtown 1531 Pacific Highway	4-Green	Walk to the Residence Inn – Curbside on Pacific Highway	Downtown
17	Handlery Hotel and Resort San Diego 950 Hotel Circle North	3-Yellow	Curbside on Hotel Circle at Hotel Driveway	Mission Valley
18	Hard Rock Hotel San Diego 207 Fifth Avenue	Walk	Walk to San Diego Convention Center	Downtown
19	Hilton Garden Inn San Diego Downtown/Bayside 2137 Pacific Highway	4-Green	Walk to Residence Inn – Curbside on Pacific Highway	Downtown
20	Hilton San Diego Airport/Harbor Island 1960 Harbor Island Drive	2-Blue	Curbside Front Entrance	Harbor Island
21	Hilton San Diego Gaslamp Quarter 401 K Street	Walk	Walk to San Diego Convention Center	Downtown
22	Holiday Inn San Diego Bayside 4875 North Harbor Drive	1-Red	Curbside on Harbor Drive	Shelter Island
23	Homewood Suites by Hilton San Diego Downtown/Bayside 2137 Pacific Highway	4-Green	Walk to Residence Inn – Curbside on Pacific Highway	Downtown
24	Horton Grand Hotel 311 Island Avenue	Walk	Walk to San Diego Convention Center	Downtown
25	Hotel Indigo San Diego Gaslamp Quarter 509 Ninth Avenue	6-Pink	Front of Hotel on Ninth Avenue	Downtown
26	Hotel Republic San Diego, Autograph Collection 421 West B Street	5-Orange	Walk to Westin San Diego – Curbside on Broadway	Downtown
27	Hotel Z Gaslamp Quarter 521 Sixth Avenue	Walk	Walk to San Diego Convention Center	Downtown
28	Humphreys Half Moon Inn & Suites 2303 Shelter Island Drive	1-Red	Curbside in Front on Shelter Island Drive	Shelter Island
29	Kimpton Hotel Palomar San Diego 1047 Fifth Avenue	6-Pink	Walk to Courtyard Downtown – Curbside on Sixth Avenue	Downtown
30	Kimpton Solamar San Diego 435 Sixth Avenue	Walk	Walk to San Diego Convention Center	Downtown

#	HOTEL NAME / ADDRESS	SHUTTLE ROUTE	PICK UP POINT	LOCATION
31	King's Inn Hotel 1333 Hotel Circle South	3-Yellow	Curbside on Hotel Circle	Mission Valley
32	La Quinta Inn & Suites San Diego SeaWorld/Zoo Area 641 Camino Del Rio South	8-Grey	Curbside in Front	Mission Valley
33	Omni San Diego Hotel 675 L Street	Walk	Walk to San Diego Convention Center	Downtown
34	Pendry San Diego 550 J Street	Walk	Walk to San Diego Convention Center	Downtown
35	Porto Vista Hotel 1835 Columbia Street	7-Purple	Walk to DoubleTree – Curbside at Union Street Entrance	Downtown
36	Residence Inn by Marriott San Diego Downtown 1747 Pacific Highway	4-Green	Curbside on Pacific Highway	Downtown
37	Residence Inn San Diego Downtown Gaslamp 356 Sixth Avenue	Walk	Walk to San Diego Convention Center	Downtown
38	Residence Inn San Diego Downtown/Bayfront 900 Bayfront Court	4-Green	Walk to SpringHill Suites – Curbside on Pacific Highway	Downtown
39	San Diego Marriott Gaslamp Quarter 660 K Street	Walk	Walk to San Diego Convention Center	Downtown
40	Sheraton San Diego Hotel & Marina 1380 Harbor Island Drive	2-Blue	Curbside Marina Tower & Curbside Bay Tower Entrances	Harbor Island
41	SpringHill Suites San Diego Downtown/Bayfront 900 Bayfront Court	4-Green	Curbside on Pacific Highway	Downtown
42	US Grant Hotel 326 Broadway	5-Orange	Walk to Westin Gaslamp – Curbside on First Avenue	Downtown
43	Westgate Hotel 1055 Second Avenue	5-Orange	Walk to Westin Gaslamp – Curbside on First Avenue	Downtown
44	Westin San Diego 400 West Broadway	5-Orange	Curbside on Broadway	Downtown
45	Westin San Diego Gaslamp Quarter 910 Broadway Circle	5-Orange	Curbside on First Avenue	Downtown
46	Wyndham San Diego Bayside 1355 North Harbor Drive	4-Green	Curbside in Front	Downtown

Current sales and occupancy taxes are 12.8% per room, per night. Hotel tax is subject to change and does not include additional surcharges (up to \$0.80 per night) which may be applicable. Hotel rates include a nominal \$18 fee to help defray the high cost of the shuttle service, which will be provided to the San Diego Convention Center from most of the hotels throughout the day.

Travel Information

Airport

San Diego International Airport san.org Phone: (619) 400-2404 Located 3 miles (5 km) from downtown

San Diego

Public Transportation

Metropolitan Transit System (MTS)

The Metropolitan Transit System (MTS), San Diego's commuter trolley and bus system, is available for transportation all over San Diego. There is a trolley station at the Convention Center and within a short walk from most major downtown hotels.

Taxis

There are several companies that provide taxicab service in San Diego. Taxis are easily accessible at the convention center, major hotels, and other downtown locations and attractions.

Parking

On-site private vehicle parking is available at the San Diego Convention Center's

1950-vehicle underground garage located below the building. Enter the parking garage on Harbor Drive between First and Fifth Avenues. The daily rate is \$15. Parking rates may range from \$15 to \$35 on days when there is special event activity at Petco Park or other downtown events. Payment is due upon entry and there are no in and out privileges.

Directly across the street from the Convention Center, on the corner of Harbor and Eighth Avenue, is a 2,000 space parking structure.

Off-site parking is available at numerous nearby parking lots and garages in Downtown San Diego, many are within walking distance of the convention center. Parking lots and garages are individually owned and operated, prices vary by location.

Airport Shuttle Service

Production Transport provides express shuttle service to San Diego International

Airport from the San Diego Convention Center from 11 a.m. to 6 p.m. on Tuesday, November 6, and Wednesday, November 7. Tickets can be purchased for \$10 per person (cash or credit card) at the shuttle information desk in Lobby E from Monday, November 5, through Wednesday, November 7, during shuttle service hours.

To make your reservation early and secure your seat, email mponce@prodtrans.com. Buses will depart every 30 minutes on the hour and the half hour. For questions regarding the shuttle services, contact meetings@sfn.org.

Additionally, SuperShuttle offers transportation between the San Diego International Airport and downtown San Diego hotels. Fares will vary according to your final destination. When you arrive at the airport, claim your luggage and visit the SuperShuttle counter in the baggage claim area of your respective terminal. For more information, call (800) 258-3826, or visit supershuttle.com.



Shuttle Schedule

SfN provides complimentary shuttle services between the San Diego Convention Center and most of the official SfN meeting hotels, with the exception of hotels within walking distance of the convention center.

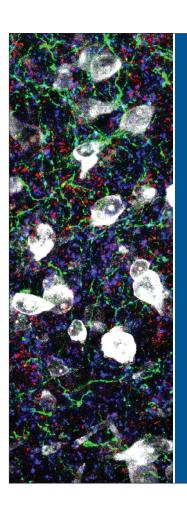
The shuttle schedule varies daily, with shuttles departing between the hotels and the convention center every 10 minutes during peak time or every 20 minutes during off-peak time. Each shuttle route is coded with a unique color and number.

For questions about shuttle routes and schedules while at the annual meeting, call the shuttle information desk at (619) 525-6245 or stop by the shuttle information desk located in the San Diego Convention Center, Lobby E.

DATE	TIMES	SERIVCE
Saturday, Nov. 3	7 a.m.–4 p.m.	20-minute service
Saturday, Nov. 3	4–10 p.m.	10-minute service
	6:30 a.m10:30 a.m.	10-minute service
Sunday, Nov. 4	10:30 a.m4 p.m.	20-minute service
Sullday, Nov. 4	4–8 p.m.	10-minute service
	8-9:30 p.m.	20-minute service
	7–10:30 a.m.	10-minute service
Monday, Nov. 5	10:30 a.m4 p.m.	20-minute service
	4–8 p.m.	10-minute service
	8–9:30 p.m.	20-minute service
	7–10:30 a.m.	10-minute service
Tuggday May 6	10:30 a.m4 p.m.	20-minute service
Tuesday, Nov. 6	4–8 p.m.	10-minute service
	8-9:30 p.m.	20-minute service
	7–10:30 a.m.	10-minute service
Wednesday, Nov. 7	10:30 a.m3:30 p.m.	20-minute service
	3:30-6 p.m.	10-minute service



#SfN18 | SfN.org/Shuttle 89



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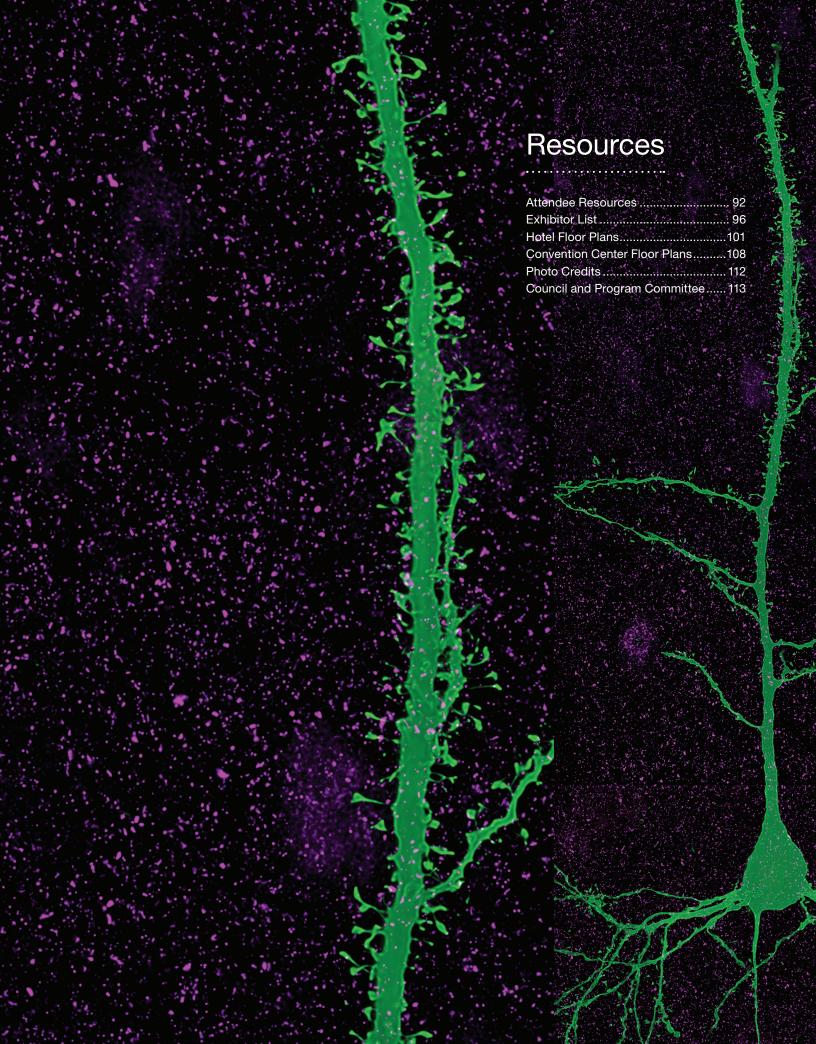












Attendee Resources

ADA/Special Accommodations

The Society for Neuroscience (SfN) strives to make the on-site experience of the annual meeting accessible to all interested members of the neuroscience community.

Real-Time Captioning Services and Special Needs Requests

Real-Time Captioning Services will be provided for all lectures in Ballroom 20. Dedicated seating areas near the screens will display the captioned text.

If you require American Sign Language or CART Transcription Services, please contact meetings@sfn.org in advance of the annual meeting to secure these services.

If you have a disability or special need that may affect your participation in the annual meeting, please contact meetings@sfn.org. SfN cannot ensure the availability of appropriate accommodations without prior notification of need. For assistance with special needs or disabilities on-site, visit the SfN headquarters office in the Sails Pavilion.

Scooter and Wheelchair Rentals

For scooter and wheelchair rentals, please contact either vendor below.

Mobility Source:

If you order an electric scooter in advance of the annual meeting, the scooter will be delivered to the convention center prior to the start of Neuroscience 2018.

Note: There will be a limited supply of scooters available on-site for rent.

(619) 234-9505

email: info@mobility-source.com www.mobility-source.com

Scootaround Inc:

Reservations will be processed at https://locations.scootaround.com/ SocietyforNeuroscienceAnnualMeeting

(888) 441-7575

email: info@scootaround.com

fax: (204) 478-1172 www.scootaround.com

Annual Meeting Headquarters Office

Logistics and Programming

San Diego Convention Center: Sails Pavilion

Hours:

Friday, Nov. 2

8 a.m. - 5 p.m.

Saturday, Nov. 3–Wednesday, Nov. 7 7 a.m. – 6 p.m.

The Annual Meeting Headquarters
Office addresses all questions
concerning annual meeting logistics and
programming for the 2018 and 2019
annual meetings.

ATM Machines

There are two automatic teller machines (ATMs) located in Halls B2 and E lobbies. The lobbies of the Marriott Marquis, Grand Hyatt, and the Hilton Bayfront Hotels have ATMs for your added convenience.

Business Center

Shipping, mailing, faxing, photocopying and other important services are available at the San Diego Convention Center. FedEx Office is conveniently located in the Hall D lobby and

specializes in digital distribution and printing of conference materials.

Depending on your needs, you will find a wide range of supplies and services. For your added convenience, the Marriott Marquis, Grand Hyatt and the Hilton Bayfront Hotels also operate full-service business centers.

Certificate of Attendance

San Diego Convention Center: Sails Pavilion and Lobby A

Every attendee is advised to obtain a certificate, available at a designated booth in the registration area. Signed and sealed by SfN staff, certificates of attendance are proof to home institutions that attendees were present at the meeting. The document is often required for reimbursement of meeting expenses. Attendees must pick up the certificate in person at the meeting. There are no exceptions.

Child Care

San Diego Convention Center: Room 17B

On-site child care and youth programs are available for children ages six months to 12 years. This service is provided through KiddieCorp, a national firm with more than 30 years of experience, including nine with SfN, in on-site conference child care.

Details, pricing, and reservation information are available on the KiddieCorp-Neuroscience 2018 web page at SfN.org/attendeeresources. All policies and fees are established by KiddieCorp, and all questions should be directed to them. Space is limited.

Coat & Luggage Check

San Diego Convention Center

Hours:

Lobby C

Friday, Nov. 2-Tuesday, Nov. 6

7:30 a.m.-7 p.m.

Wednesday, Nov. 7

7:30 a.m.-6 p.m.

Lobby D

Saturday, Nov. 3–Wednesday, Nov. 7 7:30 a.m.–6 p.m.

Limited space will be available for coat & luggage check on a first-come, first-served basis at the convention center. Please do not bring luggage into the meeting rooms.

Continuing Medical Education (CME)

CME registration must be completed before or during the annual meeting. Those who do not register at these times will not receive the necessary documentation should they request it after the meeting. CME registrants will receive, via e-mail two weeks before the meeting, the CME Supplemental Program, which contains important information regarding the CME Program, including disclosure information and instructions for obtaining CME credits. Visit www.SfN.org/cme or see page 76 for details.

Event Locations

Lectures, exhibits, scientific sessions, symposia, poster sessions, registration, and headquarters offices will be located in the San Diego Convention Center.

SfN-sponsored socials will be held at the Marriott Marquis Hotel. Satellite and ancillary events will be held at the San Diego Convention Center, the Marriott Marquis, the Grand Hyatt, the Hilton Bayfront, and other San Diego facilities.

Review the Neuroscience Meeting Planner at SfN.org/NMP for up-to-date locations.

San Diego Convention Center

111 W. Harbor Drive San Diego, CA 92101

Hilton San Diego Bayfront

One Park Boulevard San Diego, CA 92101

Manchester Grand Hyatt San Diego

One Market Place San Diego, CA 92101

Marriott Marquis San Diego Marina

333 W. Harbor Drive San Diego, CA 92101

Exhibits

San Diego Convention Center: Halls B-H

Hours:

Sunday, Nov. 4-Wednesday, Nov. 7 9:30 a.m.-5 p.m.

Exhibits provide attendees an opportunity to learn about the latest products, publications, and services available. Pick up a copy of the Exhibit Guide at any program pick-up kiosk. The Exhibit Guide includes a listing of exhibiting companies and a cross-referenced listing of companies by type of product exhibited. Links to exhibiting company websites are available through the Neuroscience 2018 website, sfn.org/exhibits. The hyperlinks will remain live through June 30, 2019.

Inquiry cards: Your badge will serve a double purpose: (1) as a name badge and (2) an exhibit inquiry card. Your demographic information will be encoded onto the front of the badge. E-mail addresses will only be included if you selected the option box when registering. Council encourages all annual meeting attendees to present their badge at each exhibit booth they visit.

Exhibitors determine the success of their participation in the annual meeting by the number of leads they accumulate from attendees visiting their exhibit booths. We appreciate your cooperation — a successful exhibit program helps defray the cost of running the annual meeting and keeps registration fees at a minimum.

For further information, visit SfN.org/exhibits or contact exhibits@sfn.org.

First Aid and Emergencies

San Diego Convention Center: Lobby C During session hours, the first aid room at the convention center will be open and staffed by certified medical providers.

First Aid and Hospital Numbers

First Aid Station: Lobby C

(619) 525-6211

Scripps Mercy Hospital

4077 Fifth Avenue San Diego, CA 92103 (619) 294-8111

Sharp Rees-Stealy Downtown San Diego

Urgent Care 300 Fir Street San Diego, CA 92101 (858) 499-2600

Food Courts

San Diego Convention Center: Sails Pavilion

Hours:

Saturday, Nov. 3 11 a.m.-2 p.m.

Sunday, Nov. 4-Wednesday, Nov. 7 7:30 a.m.-3 p.m.

Important Phone Numbers

Headquarters Offices

HQ Office/Logistics (619) 525-6200

HQ Office/Programming

(619) 525-6205

Press Office

(619) 525-6230

Exhibit Management

(619) 525-6240

Infant Care Facilities

San Diego Convention Center: Room 17A

The infant care room, designated for the privacy of parents and guardians caring for infants, is equipped with chairs, tables, and electrical access in private areas for nursing or pumping. Additionally, the room has an open seating area, diaper changing tables, and a water cooler (room temperature). Parents and guardians are responsible for providing their own infant care supplies. The infant care room is unsupervised. SfN is not responsible for accidents or injuries that may occur in this room or any items left unattended.

The San Diego Convention Center also includes a nursing mother's lounge in the Women's Restroom outside of Hall E.

Information Booths

Information booths, operated by members of SfN staff, are located in the following areas of the San Diego Convention Center:

Lobby A Lobby D Sails Pavilion

Hours: Friday, Nov. 2

2–6 p.m.

Saturday, Nov. 3-Tuesday, Nov. 6

7:30 a.m. – 6 p.m. Wednesday, Nov. 7 7:30 a.m. – 5 p.m.

Literature Displays

San Diego Convention Center: Sails Pavilion

Keep your eyes open for important annual meeting event updates on display in the registration area of the San Diego Convention Center. Approval is required to place announcements on displays. Attendees can get approval before the meeting by contacting meetings@sfn.org, or on-site in the Headquarters Office.

Lost and Found

San Diego Convention Center: Sails Pavilion

Direct inquiries about lost items to the lost and found counter in the attendee services area of the San Diego Convention Center.

My Neuroscience Marketplace

Build your list of preferred exhibitors through My Neuroscience Marketplace, SfN.org/exhibits, a virtual directory of vendors offering products and services to the neuroscience community. My Neuroscience Marketplace is searchable by exhibitor names, booth numbers, products, or keywords.

NeuroJobs Career Center

San Diego Convention Center: Sails Pavilion

Hours:

Saturday, Nov. 3-Tuesday, Nov. 6 8 a.m. – 5 p.m. Wednesday, Nov. 7 8 a.m. – 3 p.m.

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 be made by credit card only.

Neuroscience Meeting Planner Viewing Area

San Diego Convention Center: Sails Pavilion

Hours:

Saturday, Nov. 3-Tuesday, Nov.6 7:30 a.m.-5 p.m. Wednesday, Nov. 7 7:30 a.m.-3 p.m.

The Neuroscience Meeting Planner (NMP) contains the full text of abstracts and allows attendees to plan an itinerary for Neuroscience 2018. It can be accessed online at www.SfN.org/nmp or on-site in the NMP Viewing Area. A help desk will also be available in the NMP viewing area for questions about the NMP or the meeting mobile app.

Photography and Electronic Recording Restrictions/Cell Phones

Photography, video, filming, tape recording, and all other forms of recording are prohibited during the poster sessions, lectures, symposia, minisymposia, nanosymposia, courses, workshops, and on the exhibit floor. Such recording is only permitted during press conferences. Other arrangements must be made in advance in the Press Room. Cell phone use in sessions is prohibited. For arrangements to photograph the exhibit floor, email exhibits@sfn.org.

Poster Sessions

San Diego Convention Center: Halls B-H Hours: Saturday, Nov. 3 1-5 p.m.

Sunday, Nov. 4-Wednesday, Nov. 7 8 a.m.-noon, 1-5 p.m.

Prayer Room

San Diego Convention Center: Room 19

There will be a prayer room available for attendee use at Neuroscience 2018. The prayer room is unsupervised, and SfN is not responsible for the loss of any personal property left unattended in the room.

Press Offices

San Diego Convention Center

Press Room: Room 15B

Press Conference Room: Room 15A Press Interview Room: Room 14B

Hours:

Saturday, Nov. 3-Wednesday, Nov. 7

8 a.m. - 5 p.m.

Members of the press must register and pick up their badges in the Press Room.

Program and Exhibit Guide Pick-Up

San Diego Convention Center: Lobby A and Sails Pavilion

Hours:

Friday, Nov. 2 (Lobby A only) 2–5 p.m.

Saturday, Nov. 3-Tuesday, Nov. 6 7:30 a.m. – 5 p.m.

The final *Program* will be available on-site at the San Diego Convention Center and online at sfn.org/am2018 as downloadable PDFs. Attendees can pick up a copy of the General Information book of the final *Program* or *Exhibit Guide* at any *Program* and *Exhibit Guide* pick-up location in the convention center. To obtain printed versions of the daily books, attendees must have purchased the books during registration or pay for the program books on-site.

Restaurant Reservations

San Diego Convention Center: Lobby B and Lobby E Restaurant reservation services are available at the San Diego Convention Center.

Hours:

Saturday, Nov. 3 Noon-6 p.m. Sunday, Nov. 4-Tuesday, Nov. 6 10 a.m.-6 p.m. Wednesday, Nov. 7 10 a.m.-5 p.m.

San Diego Resources and Attractions

For visitor's information, visit meetmeinsandiego.com/sfn2018

SfN Booth

San Diego Convention Center: Hall D, Booth #2113

As you experience Neuroscience 2018's Exhibit Hall, stop by the SfN Booth to learn about new member resources and services offered by your professional society.

Speaker Ready Room

San Diego Convention Center: Room 9 Hours:

Friday, Nov. 2–Tuesday, Nov. 6 7 a.m. – 5 p.m. Wednesday, Nov. 7 7 a.m. –1:30 p.m.

Presenters are urged to check their media at least 24 hours in advance of presentation in the Speaker Ready Room to confirm compatibility with the session room computers.

Transportation to and from San Diego Convention Center/Hotels

For information on the complimentary SfN shuttle service and other travel resources, see pages 86–87.

Volunteer Leadership Lounge

San Diego Convention Center: Room 14A Hours:

Saturday, Nov. 3-Wednesday, Nov. 7 7:30 a.m. -5 p.m.

The Volunteer Leadership Lounge is reserved for members of the SfN Council, committees, and past presidents.

Wireless Internet

As a service to annual meeting registrants, SfN provides free wireless Internet access in designated areas of the San Diego Convention Center during Neuroscience 2018.

To take advantage of this free service, bring a laptop, smartphone, or tablet with a built-in wireless network card or with an external wireless card that is 802.11b/g/n compatible, and set your network card to use DHCP ("or Acquire address automatically"). The Exhibit Hall areas will provide wireless service only to wireless cards that are 802.11n/ac compatible. Wireless network users should reference the FAQs and disclaimers at sfn.org/wireless before accessing the network. SfN will provide support for wireless users at the Wireless Support booth in the Attendee Services area.

Yoga and Meditation Instruction

Yoga Class: Flow and Meditate @ SfN Marriott Marquis: Marriott Grand Ballroom Foyer

Hours:

Sunday, Nov. 4-Tuesday, Nov. 6 6:30-7:30 a.m.

Start your day with a free class fusing mindfulness meditation with a dynamic vinyasa yoga flow. With a focus on the breath-mind-body connection, this class led by RYT 200 Dr. Aleksandra Vicentric is designed to awaken the energy centers and enhance the sense of balance and inner peace. The class is accessible to all regardless of experience; just bring your water bottle, mat or towel, and sign up. For information, visit: SfN.org/attendeeresources.

As of September 17, 2018

Exhibitor List

Company Name	Booth Number
10x Genomics	418
3Brain AG	3631
3i - Intelligent Imaging Innovations	s2628
89 North, Inc	821
A - M Systems, Inc.	1921
A.M.P.I.	2118
AAAS Science & Technology	
Policy Fellowships	2132
AAT Bioquest, Inc	4024
Abbkine Scientific Co., Ltd	3510
Abcam	734
ACS Publications	4301
Active Motif	234
Addgene	4412
ADInstruments, Inc	2018
Adipogen Life Sciences, Inc	637
Advanced Brain Monitoring	228
Advanced Targeting Systems, Inc	3225
Agarose Bead Technologies	416
Agency for Toxic Substances and	Disease
Registry - National ALS Bioreposi	-
Agilent Technologies	713
ALA Scientific Instruments, Inc	2232
Alembic Instruments Inc.	721
Allen Institute for Brain Science	500
Alpha MED Scientific Inc	929
Alpha Omega	1104
ALZET® Osmotic Pumps/ Durect Corporation	2120
Alzheimer's Association	4225
Alzheimer's Drug Discovery Found	dation 4232
American Physiological Society, T	he 4100
American Society for Pharmacolo	
& Experimental Therapeutics	
Amplitude	435
Amuza Inc	3127
AnaBios	433
Analytik Jena	1829
AnaSpec, EGT Group	
Andor Technology	1229
Animal Identification & Marking	
Systems, Inc.	
ANS Biotech SA	
ANT Neuro	
Antec Scientific	1936

Antibodies Incorporated	
APDM Wearable Technologies	
Applied Physics & Electronics, Inc	
Applied StemCell Inc	3528
Arbor Assays	3533
arivis AG	3114
Arrington Research, Inc.	
ASI/Applied Scientific Instrumentation	n 1729
Association of Migraine Disorders	4224
ATCC	3326
Atlas Antibodies AB	605
ATLAS Neuroengineering	622
Atuka Inc.	3626
Aurora Scientific Inc.	3530
AutoMate Scientific, Inc.	1634
Aves Labs	3327
Aviva Systems Biology Corporation	3532
Axiom Optics	603
Axion Biosystems	618
Azure Biosystems	1815
Bachem Americas, Inc	1122
Backyard Brains	3330
BASi	1821
Bentham Science Publishers, Ltd	120
Bertin Instruments	2017
BESA GmbH	723
Bio - Rad Laboratories	1221
Bio - Serv	2912
Bio Research Center., Co. Ltd	3428
Biocompare	3824
Biocytogen, LLC	3229
BioLegend	
BIOPAC Systems, Inc	
Biorbyt Ltd	
bioRxiv	
Bioseb	
biosensis Pty Ltd	
Bio-Signal Technologies, LLC	
Bioss Inc.	
Bio-Techne	
BioTechniques	
BioTek Instruments, Inc.	
BIOTILIM INC	717
Biotrial	

BioVision, Inc
Bitplane, Inc. – (IMARIS)1229
Bittium
BKIN Technologies Ltd 1935
Blackfynn, Inc
Blackrock Microsystems829
Bliq Photonics
BlueCloud by HealthCarePoint3902
BMG LABTECH, Inc3324
Boster Biological Technology3611
Boston University Neurophotonics Center 4527
Brain Architecture Project4531
Brain Products
BrainBits LLC923
BRAINS4533
BrainXell, Inc
Bridge the Gap - SYNGAP Education
and Research Foundation4226
BrightFocus Foundation
Bruker Corporation1101
BTX / Biochrom, A division of Harvard
Bioscience, Inc
Caliber Imaging & Diagnostics, Inc 3226
Cambridge Electronic Design Ltd 1928
Cambridge NeuroTech
Cambridge University Press117
Canadian Association for Neuroscience 4333
Canadian Neurophotonics Platform, The 4525
Canopy Biosciences
Carbosynth LLC
Carl Zeiss Microscopy, LLC2313
Cayman Chemical Company3028
Cedarlane
Cedars-Sinai4308
Cell Applications, Inc
Cell Signaling Technology, Inc2013, 3104
Cellectricon
Center for the Neurobiology of Learning and Memory4312
Centre for Brain Research, Indian Institute of Science
Certerra Inc
Changchun New Industries
Optoelectronics Technology Co. Ltd 1833
Charles River2519

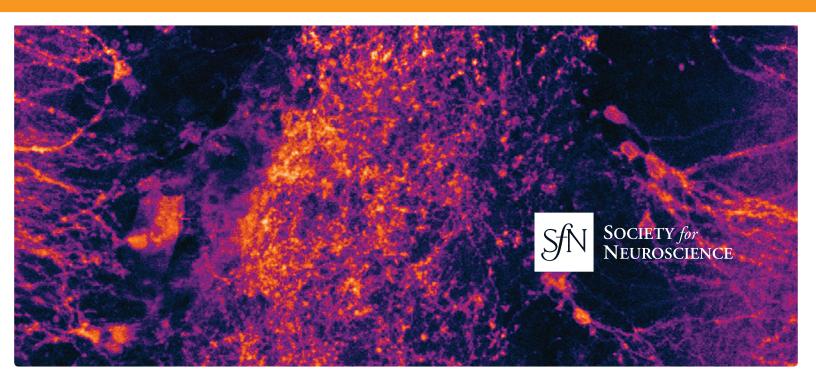
Chroma Technology	821	EnCor Biotechnology Inc	437	HEKA, A division of Harvard	
ChromoTek GmbH	3009	Enzo	901	Bioscience, Inc.	2813, 2829
Clever Sys. Inc	1834, 1835	Epigentek Group Inc	3433	Hello Bio Ltd	436
cloud-clone Corp	1819	Eppendorf	1201	Hilltop Lab Animals, Inc	3500
CMA Microdialysis, A division of		Etaluma Inc	3800	HiQScreen Sàrl	2019
Harvard Bioscience, Inc	2813, 2829	Evolocus LLC	534	Hitachi High Technologies America	a, Inc 3203
Cocaine BioBank	4130	Excelitas Technologies	2529	Hoefer, Inc., A division of Harvard	
Cognionics, Inc.	523	Expedeon		Bioscience, Inc.	2813, 2829
Coherent	1100	EyeTech Digital Systems		Hopstem Biotechnology	3302
Cold Spring Harbor Laboratory Me	etinas	F1000 Ltd		Horizon Discovery	3416
& Courses Program			201	Huron Digital Pathology	3102
Columbia University Press	222	Faculty for Undergraduate Neuroscience / FUN	4300	IBL-America	
Columbus Instruments	3117	FASEB		IBRO / International Brain	
Compumedics Neuroscan				Research Organization	4305
Consortium for Public Outreach on		FD NeuroTechnologies, Inc	2134	Iconeus	230
Animal Research		Federation of European Neuroscience Societies (FENS)	1010	II-VI	3402
CoolLED Ltd.	1023	Femtonics Ltd		Illumina	3105
CorTec GmbH				ImmunoChemistry Technologies L	
Coulbourn Instruments, A division		FHC, Inc.		INCF	
Harvard Bioscience, Inc		Fimmic			
CREmedical Corp	,	Fine Science Tools	2112	Inscopix, Inc.	
		Fitzgerald Industries International	1719	Instech Laboratories, Inc	
CrestOptics		Fluicell AB	403	Institute for Basic Science	
Crist Instrument Company, Inc		Flywheel	3110	Intan Technologies, LLC	3717
Cusabio LLC		Frontiers	121	International Behavioral	
Cyagen Biosciences Inc	2133	FUJIFILM Cellular Dynamics	2935	Neuroscience Society (IBNS)	4133
Cytocybernetics	818	FUJIFILM VisualSonics	1235	International Drug Abuse	
CytoLogistics, LLC	3227	FUJIFILM Wako Chemicals USA Corp	o 3625	Research Society	4201
Cytoskeleton Inc	1912	Funakoshi Co., Ltd	3202	International Mouse Phenotyping	4400
Dainippon Seiki Co., Ltd	3614	FUS Instruments Inc		Consortium	
Data Sciences International (DSI)	1920	g.tec neurotechnology USA, Inc		International Society For Autism R	
Datwyler Pharma Packaging USA -	- Medical	Gene Tools, LLC		(INSAR)	
Solutions Division	113			Intervivo Solutions Inc	
DDNews	3516	GeneCopoeia, Inc.		Invicro	3624
Deuteron Technologies	3929	GeneTex®, Inc.	235	Iowa Neuroscience Institute	4515
Diagenode	903	Genetic Engineering	2002	IPAN, University of Michigan	4331
Diatome U.S	1816	& Biotechnology News		iPRECIO Infusion Pumps by	
Digital Proteomics	504	GenScript USA Inc.		Primetech Corporation	
Digitimer Ltd		George Tiemann & Company		Isto Visio, LLC	3726
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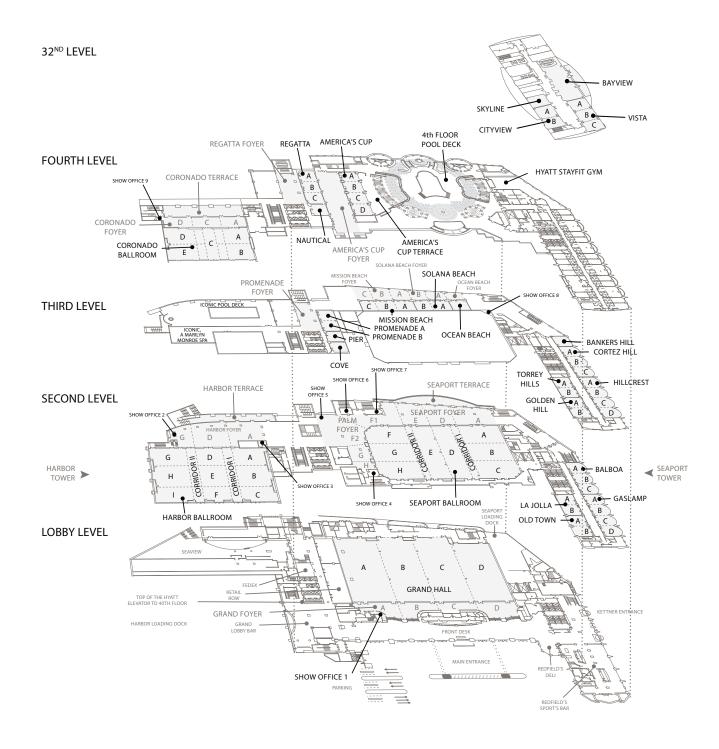
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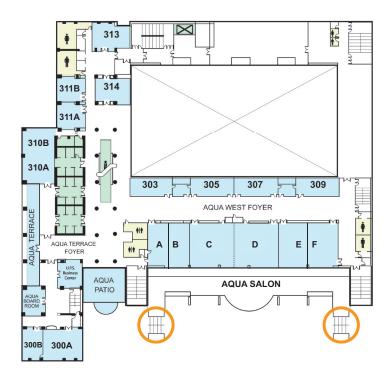
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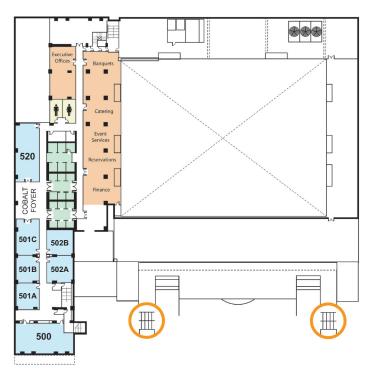


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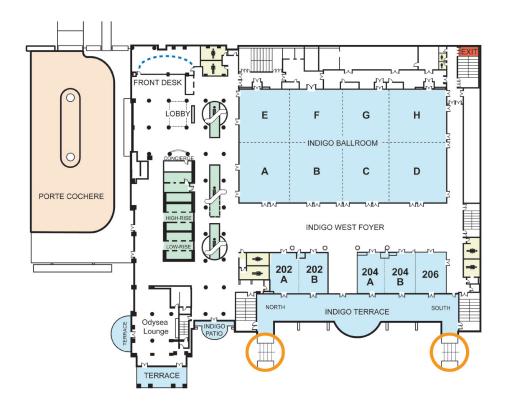
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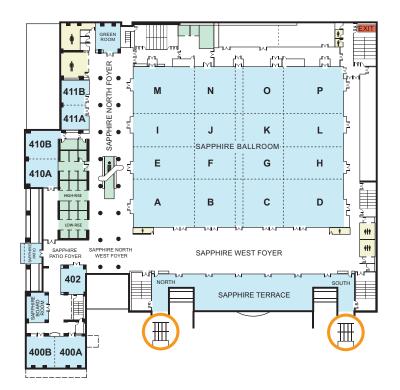
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COBALT LEVEL



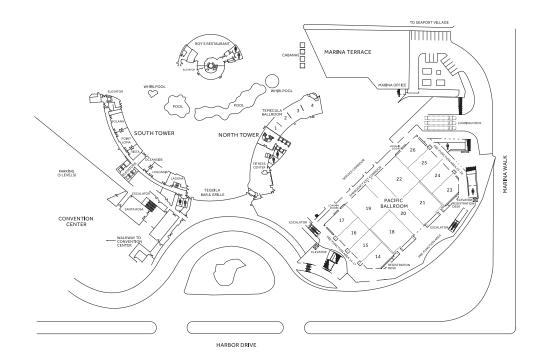
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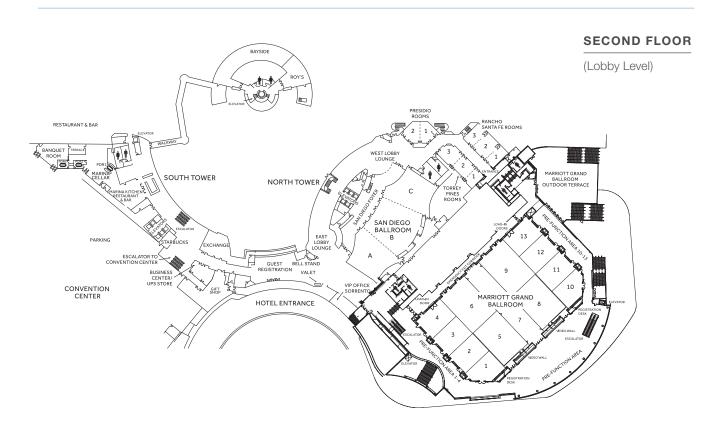
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FIRST FLOOR

(Ground Level)



SOUTH TOWER

Second Floor

Bayside

1st Floor

Laguna

Leucadia

Oceanside

Point Loma

Santa Rosa

Solana

Vista

3rd Floor

Balboa

Cardiff

Carlsbad

Del Mar

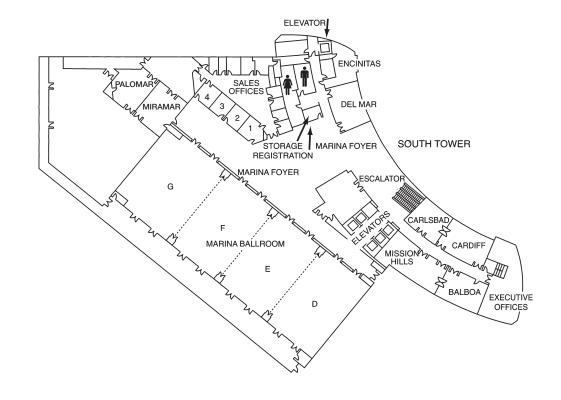
Encinitas

Marina Ballroom D-G

Miramar

Mission Hills

Palomar



4th Floor

Catalina

Coronado

Dana Point

La Costa

La Jolla

La Mesa

Malibu

Newport Beach

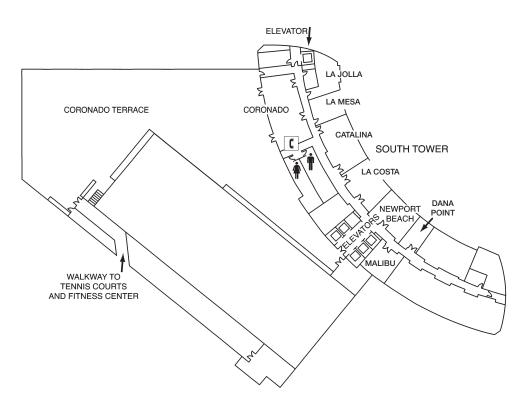
NORTH TOWER

Lobby Level

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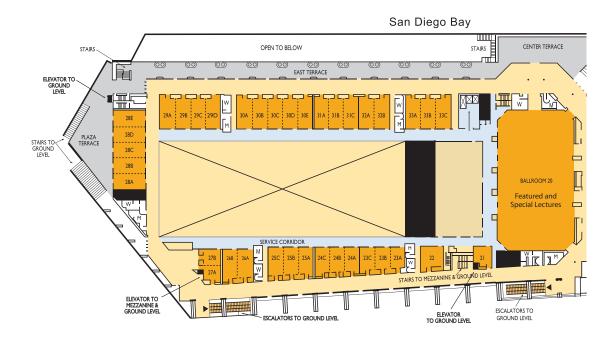
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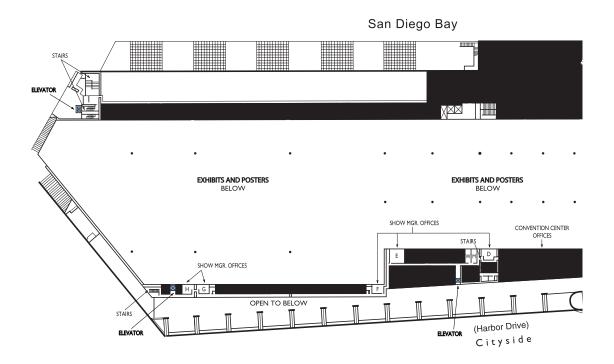
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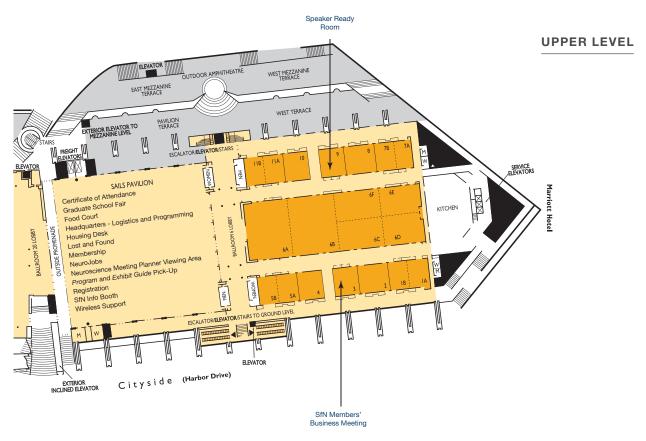


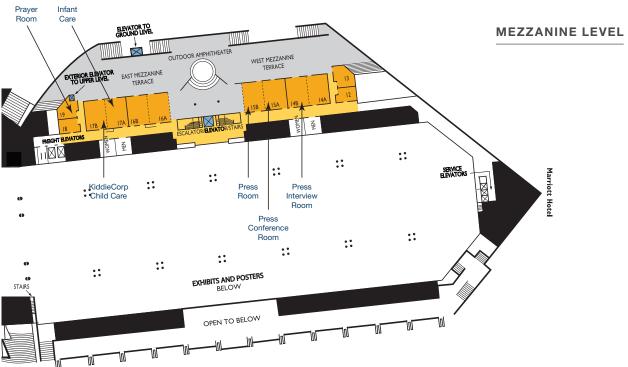
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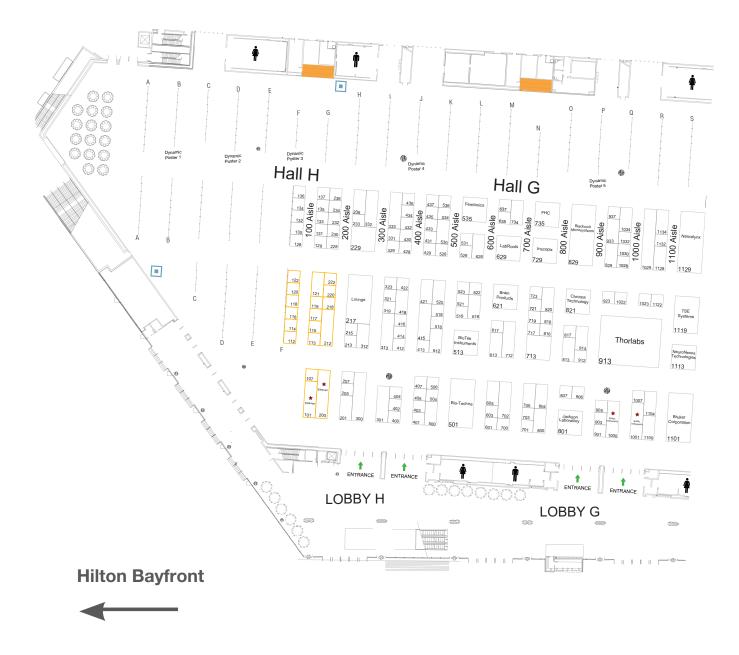


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Meeting Dates: November 3–7 | Exhibit Dates: November 4–7

Note: Entrances will open at noon on Saturday and at 7 a.m. Sunday through Wednesday for poster presenter setup only. Poster sessions are open for all attendees at 1 p.m. on Saturday and 8 a.m. Sunday through Wednesday.

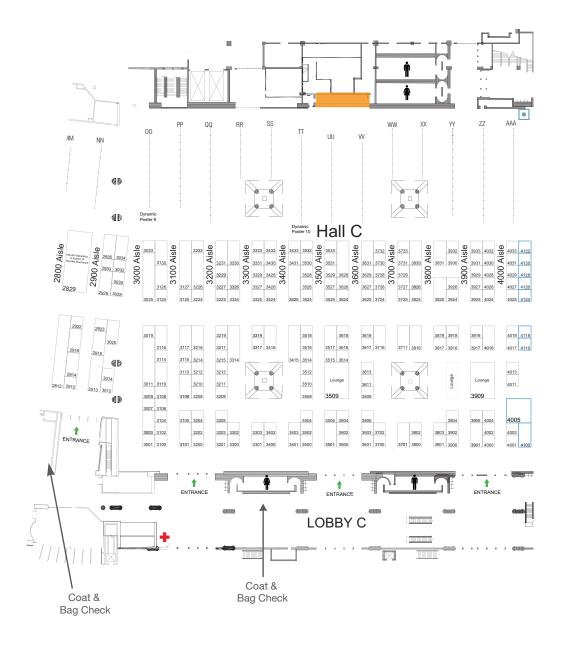
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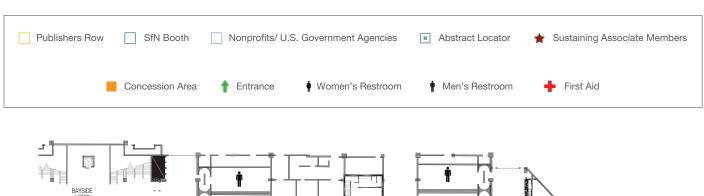


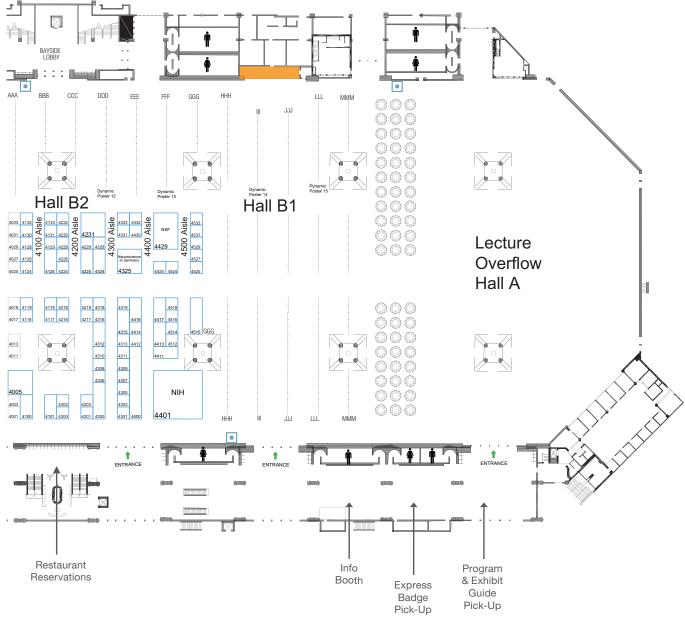
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Gaslamp District







Marriott Marquis San Diego Marina



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Cover: This image shows the dendritic trees of two Purkinje cells from wild-type (left, orange) and mutant mice lacking the alpha- and gamma-Protocadherin gene clusters (Pcdhs) (right, blue). Purkinje cells were labelled with fluorophores, and shown as confocal projections with surface rendering and color to illustrate depth. Pcdhs promote dendrite self-avoidance to ensure that Purkinje dendrites are evenly arranged across the arbor, with minimal overlaps between branches. Courtesy with permission: Samantha Ing-Esteves, Dimitar Kostadinov, Julie Marocha, Anson D. Sing, Kezia S. Joseph, Mallory A. Laboulaye, Joshua R. Sanes and Julie L. Lefebvre. *Journal of Neuroscience* 14 March 2018, 38 (11) 2713-2729.

Page 2: This image shows mature cochlear heminodes beneath hair cells and nodes of Ranvier within osseous spiral lamina in adult mouse auditory nerve. The nodes and their flanking paranodes were immunolabeled for neuronal cell adhesion molecule (NrCAM, green) and contactin 1 (Cntn1, red), respectively. Myelin of the auditory nerve (following the heminodes) was detected by immunolabeling for myelin basic protein (MBP, blue; nuclei were counterstained with DAPI also in blue). The integrity of myelin and nodal structures in the cochlea is needed for fast transfer of sound information from the hair cells to the brain. Courtesy with permission: Clarisse H. Panganiban, Jeremy L. Barth, Lama Darbelli, Yazhi Xing, Jianning Zhang, Hui Li, Kenyaria V. Noble, Ting Liu, LaShardai N. Brown, Bradley A. Schulte, Stéphane Richard and Hainan Lang. Journal of Neuroscience 7 March 2018, 38 (10) 2551-2568.

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Page 9: This image shows a male brain of Drosophila subobscura doubly stained by the Venus marker knocked into the fruitless locus (green) and the antibody against Fruitless (purple), a neural masculinizer protein. Optogenetic activation of this fruitless-labeled circuitry induces a series of species-specific courtship behavior, including actions for nuptial gift transfer. This study opens up an avenue for genetic studies on the neural basis of diversified behavior in non-model organisms. Courtesy with permission:
Ryoya Tanaka, Tomohiro Higuchi, Soh Kohatsu, Kosei Sato and Daisuke Yamamoto. Journal of Neuroscience 29 November 2017, 37 (48) 11662-11674.

Page 13: Corpus callosum axons in coronal brain slices labeled with antibodies against neurofilaments (magenta) and glial nuclei (yellow) labeled with Sytox. Note the dimly fluorescent cell bodies with clear cytoplasm containing three to five nuclear inclusions (dark yellow) characteristic of uninjured glial nuclei. Courtesy with permission: Selva Baltan, Sean P. Murphy, Camelia A. Danilov, Amelia Bachleda and Richard S. Morrison. *Journal of Neuroscience* 16 March 2011, 31 (11) 3990-3999.

Page 21: Unprocessed pro-Neuregulin 1 (type I) accumulates as discrete puncta on the soma and proximal dendrites of cultured hippocampal neurons at contact sites, known as subsurface cisterns, between the somatic plasma membrane and the ER (white). Note that Neuregulin puncta are absent from axons (initial segments labeled with Ankyrin G, green) and more distal dendrites (labeled with MAP2, magenta). In response to NMDAR activity pro-NRG1 is processed and released. Courtesy with permission: Detlef Vullhorst, Tanveer Ahmad, Irina Karavanova, Carolyn Keating and Andres Buonanno. Journal of Neuroscience 24 May 2017, 37 (21) 5232-5249.

Page 24: This image shows Nestin-GFP-expressing cells in the dentate gyrus of the adult mouse hippocampus, rendered using a depth-coding palette. A small proportion of Nestin-GFP-expressing cells coexpress the epithelial growth factor receptor (cells with black puncta). These cells are predominantly neurosphere-forming precursor cells. The adult hippocampus contains two phenotypically similar populations of quiescent neural precursors that are activated by different stimuli. Courtesy with permission: Dhanisha Jhaveri and Luke Hammond... Journal of Neuroscience 27 May 2015, 35 (21) 8132–8144.

Page 28: This artistic rendering shows papaverine-induced ribosomal S6 phosphorylation in striatonigral and striatopallidal medium-sized spiny neurons. The original image showed triple-labeled nNOS-positive interneurons and phospho-rpS6 in *Drd2*-EGFP mice.

Courtesy with permission: Emma Puighermanal, Anne Biever, and Emmanuel Valjent. *Journal of Neuroscience* 11 March 2015, 35 (10) 4113–4130.

Page 80: This image is an artistic rendering of mouse hippocampus, stained with antibodies against α-synuclein (yellow) and the sphingolipid glucosylceramide (blue).α-Synuclein interacts with select sphingolipids in the context of GBA-associated Parkinson's disease. Courtesy with permission:

Journal of Neuroscience 4 October 2017, 37 (40)
9617–9631.

Page 83: Intratelencephalic projection neurons (IT-PNs, red retrograde label) in mouse motor cortex express different proteins implicated in molecular control of neuron phenotype. The transcription factor Fezf2 (green transgenic GFP label) is expressed specifically by IT-PNs in layer 5A (red + green = yellow neurons), whereas, Cux1 protein (blue immunostain) is specific to layer 2/3 IT-PNs (red + blue). The dendritic reconstructions of Fezf2-positive IT-PNs are superimposed in gray to illustrate their unique morphology. Courtesy with permission: Journal of Neuroscience 19 March 2014, 34 (12) 4303–4308.

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Page 91: This image shows a layer 3 pyramidal neuron and surrounding inhibitory axon terminals in the monkey anterior cingulate cortex. Pyramidal neurons (green) were labeled using whole-cell patchclamp and intracellular filling techniques, and immunohistochemical staining of vesicular GABAergic transporter positive (VGAT+) was used to visualize axon terminals (magenta). Courtesy with permission: Journal of Neuroscience 3 May 2018, 37 (18) 4717–4734.

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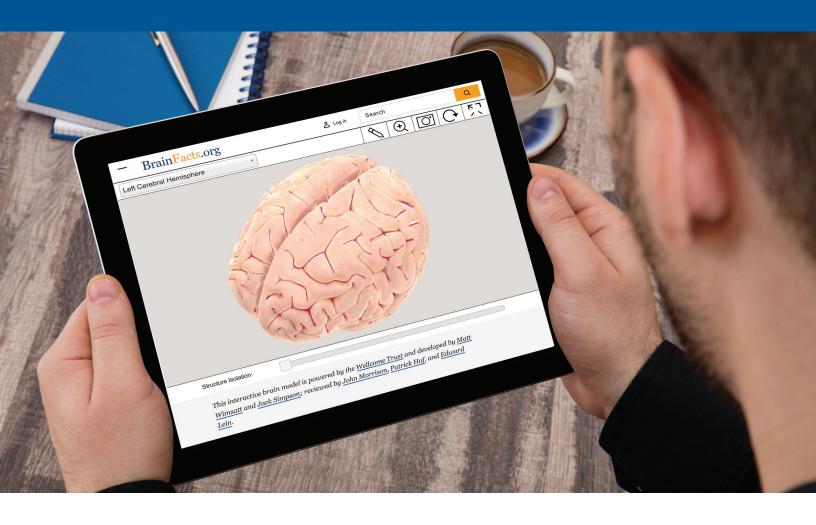
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