



WINTER CONFERENCE ON BRAIN RESEARCH PROGRAM BOOK



JANUARY 24 - 29, 2026



BIG SKY, MONTANA

We are pleased to return to the origins of Winter Brain at Big Sky, Montana for our 58th meeting. Winter Brain continues a rich history of combining an outstanding scientific program with professional camaraderie, productive networking, and the enjoyment of alpine activities. Since its inception in 1968 by scientists from the Brain Research Institute of the University of California, Los Angeles (UCLA), Winter Brain has been dedicated to facilitating the free exchange of information and ideas between clinical and laboratory-based neuroscientists. Over the years, Winter Brain has continued to be a premier conference, providing a space for individuals to easily stay current on the latest advancements in all areas of neuroscientific research.

Winter Brain emphasizes a relaxed and inclusive atmosphere, encouraging scientific discourse and networking among scientists from various neuroscience fields, both within the conference center and across the mountain. The conference begins on Saturday, January 24th with a Welcome Reception and concludes on Thursday, January 29th with the Annual Awards Banquet. In addition to the scientific program, the Olympic Valley offers an array of exciting winter activities, including skiing, snowboarding, and the Olympic Museum. We are confident that the 58th Winter Conference on Brain Research will be an exceptional experience for all attendees.

The conference begins Saturday evening with a Welcome Reception, where everyone is encouraged to welcome and network with friends, colleagues, travel fellows, and new attendees. The scientific program will commence on Sunday, January 25th with our Plenary Breakfast, featuring Dr. Travis Rieder, Director of Education Initiatives and Associate Research Professor at the Johns Hopkins Berman Institute of Bioethics. Dr. Rieder is an internationally recognized expert in bioethics whose research on ethical and policy issues spans opioid prescribing practices, pain management and addiction, as well as broader societal challenges including climate change and sustainability. His plenary talk, "Responsible Opioid Use During a Drug Overdose Crisis," will explore the ethical considerations surrounding pain, opioid use and addiction, informed in part by his personal experience with opioid treatment after a motorcycle accident. The scientific program also includes sessions highlighting Winter Brain Pioneers on Sunday (Kristen Harris, Ph.D., "Synapse Development and Plasticity During Long-Term Potentiation") and Tuesday (Amy Newman, Ph.D., "A Medicinal Chemist's Journey One Mogul at a Time"). We also encourage participation in the Diversity and Inclusion sessions, Professional Development sessions, and the Outreach Program. Our Outreach Program involves presenting neuroscience research at local schools to inspire young students and enrich the communities hosting the Winter Brain meetings.

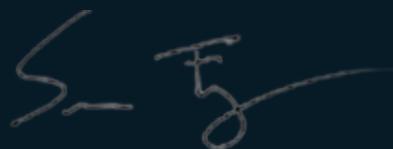


A traditional and exciting component of Winter Brain Outreach is the Brain Talk Town Meeting on Monday, when Dr. Rieder will speak to a public audience about his work on climate ethics and the broader theme of “catastrophe.” Afternoons offer opportunities for après-ski, exploring the exhibitor showcase, and attending poster sessions highlighting innovative research. The Special Poster Session on Wednesday recognizes the best posters from young investigators with competitive awards. The Smitty Stevens Memorial Ski Slalom, a fun race open to skiers and snowboarders of all skill levels, is followed by the Mountain Lunch on Wednesday. Finally, please join us for the Winter Brain Business Meeting on Wednesday, January 28th at 6:30 PM, where we discuss future sites for the meeting, the program, budget, and hold elections for the Conference Chair-Elect, Education Chair-Elect, Advocacy and Engagement Chair-Elect, and board members and discuss conference budget decisions and future site selections. We will conclude the 58th Winter Brain meeting with the Annual Banquet on Thursday evening, where we will present awards for best posters and winners of the Ski Slalom, followed by dancing and music.

Winter Brain is an independent and all-volunteer organization, made possible by the dedicated efforts of the Executive Committee, Board of Directors, Program Committee, and Fellowship Committee. The Fellowship Program, supported by generous donations from attendees and sponsors, provides travel funds to outstanding young neuroscientists. We thank you all for your generous contributions of time and donations.

Finally, the success and future of Winter Brain depend on you. Please consider nominating yourself or your colleagues for election to the Board of Directors for an open board position in clinical, cellular/molecular, or systems/behavioral neuroscience or for the Executive Committee. We also encourage you to make a meaningful contribution to the Winter Brain Fellowship Program, as it plays a vital role in nurturing and supporting the next generation of neuroscientists.

Welcome, thank you, and we look forward to sharing this outstanding experience with you!



Susan Ferguson, Conference Chair

58th Winter Conference on Brain Research

Big Sky, Montana, January 24 – January 29, 2026



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REGISTRATION

Winter Brain Registration Desk and Message Center are located at the Big Sky Resort Yellowstone Conference Center in the Upper Atrium.

The Registration Desk hours are as follows:

Saturday, January 24, 2026	12:00 p.m. – 7:00 p.m.
Sunday, January 25, 2026	6:30 a.m. – 12:00 p.m., 2:00 p.m. – 7:00 p.m.
Monday, January 26, 2026	7:00 a.m. – 11:00 a.m., 2:30 p.m. – 7:00 p.m.
Tuesday, January 27, 2026	7:00 a.m. – 11:30 a.m., 3:00 p.m. – 7:00 p.m.
Wednesday, January 28, 2026	7:00 a.m. – 10:00 a.m., 2:00 p.m. – 6:00 p.m.
Thursday, January 29, 2026	7:00 a.m. – 10:00 a.m., 2:30 p.m. – 6:00 p.m.

Pick up your badge at the Winter Brain Registration Desk in the Upper Atrium, Yellowstone Conference Center at the Big Sky Resort. If you have purchased guest meal tickets, these will also be available at registration.

EXHIBITS AND POSTER SESSIONS

Exhibits and Poster Sessions are in the Jefferson/Madison. Light refreshments are provided from 3:30 p.m. – 4:30 p.m., Sunday, January 25th through Wednesday, January 28th. Exhibitor setup is Saturday, January 24th, from 12:00 p.m. – 5:00 p.m. All exhibitors should have their materials removed by 10:00 p.m. on Wednesday, January 28th.

POSTER SESSION 1, SUNDAY, JANUARY 25TH, 3:30 p.m. - 4:30 p.m.

Posters can be set up after 1:00 p.m. on Sunday.

Posters will be available for viewing from 3:00 p.m. – 7:00 p.m. on Sunday. Presenters will be at their posters from 3:30 p.m. – 4:30 p.m. Posters must be removed by 7:00 p.m. on Sunday.

POSTER SESSION 2, MONDAY, JANUARY 26TH, 3:30 p.m. - 4:30 p.m.

Posters must be set up between 8:00 a.m. – 11:30 a.m. on Monday.

Posters will be available for viewing from 3:00 p.m. – 7:00 p.m. on Monday. Presenters will be at their posters from 3:30 p.m. – 4:30 p.m. Posters must be removed by 7:00 p.m. on Monday.

POSTER SESSION 3, TUESDAY, JANUARY 27TH, 3:30 p.m. - 4:30 p.m.

Posters must be set up between 8:00 a.m. – 11:30 a.m. on Tuesday.

Posters will be available for viewing from 12:00 p.m. – 7:00 p.m. on Tuesday. Presenters will be at their posters from 3:30 p.m. – 4:30 p.m. Posters must be removed by 7:00 p.m. on Tuesday.

Continued on next page.



EXHIBITS AND POSTER SESSIONS CONTINUED...

POSTER SESSION 4, WEDNESDAY, JANUARY 28TH, 3:30 p.m. - 4:30 p.m.

Posters must be set up between 8:00 a.m. – 11:30 a.m. on Wednesday.

This is a special session displaying the highest-ranked posters by young investigators. Award certificates will be presented to the best posters. Presenters will be at their posters from 3:30 p.m. – 4:30 p.m. and return for the special session from 7:30 p.m. – 9:30 p.m. Posters must be removed by 10:00 p.m. on Wednesday.

BREAKFAST

ALL WINTER BRAIN ATTENDEES

Breakfast is served to all conference delegates during the keynote presentation on Sunday, January 25th from 7:00 a.m. – 8:00 a.m. in the Missouri Ballroom, in the Upper Atrium of the Yellowstone Conference Center. Tickets are not required for the Sunday breakfast.

Guests staying in the Huntley Lodge, Shoshone Condos, or Village Center receive complimentary breakfast in the Huntley Dining Room. Guests staying in the Summit, vacation rentals, or off property are invited to visit the Winter Brain registration desk the night before you plan to attend breakfast for vouchers for the Huntley Dining Room.



CONTINUING MEDICAL EDUCATION



JOINTLY ACCREDITED PROVIDER
INTERPROFESSIONAL CONTINUING EDUCATION

SATISFACTORY COMPLETION

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

PHYSICIANS

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and Winter Conference on Brain Research. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team. Amedco Joint Accreditation Provider Number: 4008163

Credit Designation Statement – Amedco LLC designates this live activity for a maximum of 30.0 *AMA PRA Category 1 Credits™* for physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



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Each year Winter Brain offers travel fellowships to young investigators to encourage outstanding new investigator participation in the meeting. This has been a very successful program. Unrestricted donations to the fellowship program can be made at any value.

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Thank you to the individuals and organizations that generously support the Travel Fellowship Program. The gift you make is used exclusively to introduce young neuroscientists to the Winter Brain meeting.

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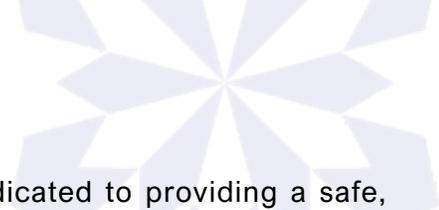
Thank you to the Winter Conference on Brain Research exhibitors.



TUCKER-DAVIS TECHNOLOGIES



CONFERENCE SUPPORT



Winter Brain CODE OF CONDUCT

1. Introduction

The Winter Conference on Brain Research (Winter Brain) is dedicated to providing a safe, productive and discrimination-free experience for all participants during the Annual Meeting regardless of race, color, national origin, religion, creed, age, sex (including pregnancy), gender, gender identity, physical or mental disability, perceived disability, ancestry, marital status, genetic information, sexual orientation, citizenship, past, current or prospective service in the uniformed services, or any other basis protected by federal, state or local laws. Winter Brain does not tolerate discrimination or any form of harassment and is committed to enforcing this Code of Conduct Policy. As a professional society, Winter Brain is committed to providing an atmosphere that encourages the free expression and exchange of scientific and educational ideas. Furthermore, Winter Brain upholds the philosophy of equality of opportunity for, and treatment of, all meeting participants, including but not limited to, attendees, guests, speakers, exhibitors, contractors, staff, and volunteers at all venues and events, including all ancillary and unofficial social events held in conjunction with the Annual Meeting (collectively “Annual Meeting”).

2. Scope of Code of Conduct

Winter Brain seeks to create a diverse, inclusive and respectful environment for the exchange of scientific information.

Winter Brain requires compliance with this Policy by all meeting participants throughout the period of the Annual Meeting, whether in public or private facilities. This policy is an expression of Winter Brain’s values and commitment to a safe and productive experience for all participants at the Annual Meeting. This policy is not an acknowledgement, admission, or description of Winter Brain’s legal obligations with respect to any of the subject matters addressed herein, nor does it create any such legal obligations on Winter Brain, its Board Members, and committee members.

3. Prohibited Conduct

Prohibited conduct at the Winter Brain Annual Meetings include, but is not limited to:

harassment and discrimination based on race, color, national origin, religion, creed, age, sex (including pregnancy), gender, gender identity, physical or mental disability, perceived disability, ancestry, marital status, genetic information, sexual orientation, citizenship, past, current or prospective service in the uniformed services, or any other basis protected by federal, state or local laws; demeaning comments or harassment about a person’s professional status, qualifications, or affiliations; sexual harassment, as defined in Section 4; abusive conduct that has the purpose or effect of unreasonably interfering with another person’s ability to benefit from and enjoy or participate in the Annual Meeting; undue or excessive interruption of any event, speaker, or session; and violence or threats of violence or physical harm.

4. Harassment Defined

Prohibited harassment includes any conduct that creates an intimidating, offensive, or hostile environment whether that conduct be verbal, physical, or visual.



Winter Brain CODE OF CONDUCT CONTINUED...

Harassment can take many forms and includes, but is not limited to, the following: slurs, epithets, derogatory comments, insults, degrading or obscene words, jokes, demeaning statements, offensive gestures, or displaying derogatory or demeaning pictures, photos, drawings, or cartoons based upon an individual's race, color, national origin, religion, creed, age, sex, pregnancy, gender, gender identity, physical or mental disability, perceived disability, ancestry, marital status, genetic information, sexual orientation, citizenship, past, current or prospective service in the uniformed services, or any other basis protected by federal, state or local laws. Sexual harassment includes unwanted sexual attention including expressions of romantic or sexual interest that are unwelcome, unreciprocated, and/or offensive to the target; examples include unwanted touching, hugging, stroking, and persistent requests for dates or sexual behavior despite discouragement. Sexual harassment also includes gender harassment which includes verbal and nonverbal behaviors that convey insulting, hostile, and degrading attitudes about members of one gender as well as crude harassment.

Sexually harassing conduct can be by a person of either the same or other sex. Conduct that begins as consensual in nature may become harassment if one party withdraws his or her consent. Sexual or other harassment prohibited by this policy is unacceptable and will not be tolerated.

The above list of prohibited behaviors is not a complete rendering of what may be deemed sexual or other harassment prohibited by this policy. It is impossible to define every action or word that could be interpreted as harassment or discrimination. However, Winter Brain has a "zero tolerance" policy toward discrimination and all forms of harassment. Winter Brain reserves the right to discipline meeting participants who engage in any inappropriate conduct, even if it is not specifically referred to or defined in this Code of Conduct, or is not legally actionable as sexual or any other form of harassment.

5. Filing a Formal Complaint

If you feel you have been subject to or have witnessed a violation of this Code of Conduct, a formal complaint can be filed with an authorized representative from our meeting management company, Parthenon Management Group, LLC. This individual can be contacted through the registration desk, or if after the Annual Meeting, at 615-324-2365. No participant will be retaliated against for making a good faith claim of harassment or discrimination, for opposing harassment or discrimination, or for participating in, or cooperating with, the investigation of a complaint. A designated member of the Parthenon team will gather information and put together a summary report, which will then be forwarded to the Conduct Subcommittee of the Executive Board of Winter Brain for a decision. If the decision of the Subcommittee is contested, it can be appealed to the full Executive Board.

The decision following appeal is final and not subject to further appeal. We will strive to keep the identity of the complainant and any witnesses, as well as the accused individual, confidential throughout this process. All participants of the Annual Meeting are bound by the decisions of the Conduct Subcommittee of the Executive Board.



Winter Brain CODE OF CONDUCT CONTINUED...

If it is determined that an individual has engaged in conduct constituting harassment or discrimination, discipline may be imposed, up to and including exclusion from participating in the Winter Brain Annual Meeting, and/or future meetings.

You may also file a complaint with the US Dept. of Health and Human Services Office for Civil Rights and filing a complaint with the conference organizer is not required before filing a complaint of discrimination with HHS OCR, and that seeking assistance from the conference organizer in no way prohibits filing complaints with the Office for Civil Rights. You may also find further information on harassment and other forms of inappropriate conduct on the [National Institutes of Health website](#).

Code of Conduct Attestation:

The Winter Brain Annual Meeting is committed to supporting discovery and scientific dialogue, and providing an atmosphere that is safe, respectful and welcoming to all those present in order to encourage the free expression and exchange of scientific and educational ideas. This commitment applies to the Winter Brain Annual Meeting, at all venues and events, including all ancillary and unofficial social events held in conjunction with the Annual Meeting (collectively “Annual Meeting”) and anyone present, including but not limited to, attendees, guests, speakers, exhibitors, contractors, staff, and volunteers.

To that end, the Winter Brain Annual Meeting strictly prohibits and does not tolerate unlawful harassment or discrimination on the basis of race, color, religion, creed, national origin, ancestry, sex (including pregnancy), sexual orientation, gender (including nonconformity and status as a transgender or transsexual individual), gender identity, age, physical or mental disability, perceived disability, citizenship, marital status, genetic information, past, current or prospective service in the uniformed services, or any other basis recognized by applicable federal, state, or local laws. Winter Brain upholds the philosophy of equality of opportunity for, and treatment of, all individuals present at the Annual Meeting and thus, does not tolerate any form of discrimination, harassment, and/or retaliation. We expect all those present at the Annual Meeting of Winter Brain to help us in ensuring a productive, safe and positive environment for all.

By registering for the meeting, I confirm that I have read the Code of Conduct for Winter Brain, and agree that it is my responsibility to be familiar with, and to abide by, its terms. I also attest that I will cooperate with any formal or informal inquiry into my behavior and/or actions at the Annual Meeting. I agree to be bound by the decisions of the Executive Subcommittee on Meeting Conduct, which may take any action that it deems appropriate, including but not limited to exclusion from a current Annual Meeting (without refund) or from future meeting.

PHOTOGRAPHY AND VIDEOGRAPHY POLICY

Winter Brain does not allow photography of oral presentations, slides, and/or posters without permission from the presenter. At the beginning of the presentation, the presenter must either grant permission to the audience and/or include an icon on the first slide or poster signifying photos are allowed. No videography by attendees is allowed at oral presentations, slides, and/or posters.

CONGRATS TO WINTER BRAIN'S 2026 PIONEER AWARDEES!

Each year, Winter Brain solicits nominations for the annual Pioneer Awards. This tradition serves to recognize and honor pioneering scientists who demonstrate excellence in the field of neuroscience and have made invaluable contributions to Winter Brain over the years. Many worthy candidates were nominated this year and the Winter Brain Board of Directors and Executive Committee had the difficult task to select two candidates for recognition.



KRISTEN M. HARRIS, PH.D.

2026 Winter Brain Pioneer Awardee

Kristen Harris has been an active participant in Winter Brain since 2002. Her professional career began at Harvard Medical school from 1984-1999 when she was recruited to Boston University, where she worked to establish their graduate program in experimental and computational neuroscience.

From BU she was recruited as a Georgia Research Alliance Eminent scholar to the Medical College of Georgia. Since 2006 she is Professor of Neuroscience in the Center for Learning and Memory and Department of Neuroscience at the University of Texas at Austin. She is renowned for her work on synapse structure and function pioneering three-dimensional reconstruction from serial section electron microscopy to advance understanding of the synaptic mechanisms of learning and memory. Her lab had developed novel tools sharing them together with data that are widely used resources (synapseweb.clm.utexas.edu). She is the recipient of Sloan Research Fellowship, Javits Merit Award, Brain Research Foundation Fellowship, Mika Salpeter Lifetime achievement and many other awards. She is known for innovative teaching, service on many prestigious scientific advisory boards, and presentations worldwide. She is a member of the National Academy of Sciences.



AMY HAUCK NEWMAN, PH.D.

2026 Winter Brain Pioneer Awardee

Dr. Amy Hauck Newman received her doctorate in Medicinal Chemistry from the Medical College of Virginia, Virginia Commonwealth University, under the mentorship of Dr. Richard Glennon. She joined the laboratory of Dr. Kenner Rice at the National Institutes of Health (NIH) for her postdoctoral studies where she conducted total opiate synthesis, as a National Research Service Award fellow.

After starting her first independent lab at Walter Reed Army Institute of Research, she joined the National Institute on Drug Abuse-Intramural Research Program (NIDA-IRP), NIH, in 1991, where she was tenured and became the Medicinal Chemistry Section Chief. She currently serves as the Scientific Director, Chief of the Molecular Targets and Medications Discovery Branch and Director of the NIDA-IRP Medications Development Program. She has coauthored more than 340 original articles and reviews on the design, synthesis, and evaluation of centrally active agents, with an emphasis on selective ligands for the dopaminergic system, as potential treatment medications for substance use disorders. In particular, she has pioneered the development of highly selective and bitopic dopamine D3 receptor antagonists and partial agonists for treatment of Opioid Use Disorders (OUD). More recently, she has turned her attention to developing medications for the treatment of psychostimulant use disorders that are comorbid with bipolar disorder and/or schizophrenia. In addition, she has developed research tools that include small molecule fluorescent ligands, radioligands and irreversible ligands directed toward the dopamine, serotonin or norepinephrine transporters. She is an inventor on >25 NIH patents and patent applications.

Dr. Newman has received numerous awards from both the NIH and NIDA Directors including the NIH Ruth L. Kirschstein Mentoring Award, in 2019. She was the first woman to receive the Philip Portoghese Lectureship Award, awarded by the Division of Medicinal Chemistry (MEDI) and the Journal of Medicinal Chemistry, American Chemical Society (ACS) in 2016. Dr. Newman was honored as a "Remarkable Woman in Medicinal Chemistry" by the ACS, in 2018 and was inducted into the ACS MEDI Hall of Fame in 2023.

WINTER CONFERENCE ON BRAIN RESEARCH

JANUARY 24 - 29, 2026
BIG SKY, MONTANA

Brain Talk Town Hall: Catastrophe Ethics: How to be Good in a World on Fire
Brain Talk Town Hall presentation by: Travis Rieder, Ph.D.

Travis Rieder, Ph.D. Johns Hopkins Berman Institute of Bioethics



Modern life is morally exhausting and confusing. Everything we do seems to matter. But simultaneously: nothing we do seems to matter. The problems are too big for a person's individual contribution to make a difference. How do we live a morally decent life when we can't even get our arms around the problems? While traditional ethics may harbor ambitions for telling us precisely what we are morally required to do, catastrophe ethics aims to answer a slightly different question: what sort of life can you justify in the face of today's threats?

With particular attention to climate change and environmental health, Rieder will elaborate his account of catastrophe ethics, suggesting how to resist the seductive pulls of both purity and nihilism. He will demonstrate how in a world where nearly everything we do implicates us in various systems and structures, there are a lot of opportunities to engage in moral work that is constant and creative, and that matters.

Travis N. Rieder, PhD, is a bioethicist and moral philosopher at the Johns Hopkins Berman Institute of Bioethics, where he splits his time between teaching at the graduate and undergraduate level, research, and communicating with the public. Although he's written on a fairly wide variety of topics, the vast majority of his scholarship, speaking, and writing for the public falls into one of two research programs.

The first involves the ethical and policy issues raised by pain, pain medicine, opioids, other drugs, addiction, and North America's drug overdose crisis. Travis's entry into this topic was quite personal, after a motorcycle accident in 2015 left him with a crushed foot, lots of pain, and an extended series of reconstruction surgeries. His experience with opioids and the difficulty getting off of them launched his interest in the topic and eventually became the subject of a TED talk and his first book, *In Pain*.

His most enduring research interest, however, has involved the overarching theme of "catastrophe." In particular, Travis is concerned with how to engage in ethical reasoning about our own, individual lives in a time dominated by massive, structural threats that are too big and too complex for any one of us to meaningfully address on our own. This has led to many publications on climate change, pandemics, food ethics, and even overpopulation—and is the subject of his second book, *Catastrophe Ethics*.

Brain Talk Town Hall: Catastrophe Ethics: How to be Good in a World on Fire
Monday, January 26, 7:00 PM - 8:30 PM, Gallatin Room

SATURDAY, JANUARY 24TH

6:00 p.m. - 6:30 p.m.
Welcome Reception for
Newcomers, 1st Time Attendees,
Travel Fellows and Mentors
Jefferson, Yellowstone
Conference Center

6:30 p.m. - 7:30 p.m.
Welcome Reception (All are
Welcome)
Jefferson/Madison, Yellowstone
Conference Center



SUNDAY, JANUARY 25TH

7:00 a.m. - 8:00 a.m.
Plenary Breakfast
Missouri Ballroom, Yellowstone
Conference Center

8:00 a.m. - 9:30 a.m.
Conference Welcome
and Plenary Address
Missouri Ballroom, Yellowstone
Conference Center

Keynote: Responsible Opioid Use
During a Drug Overdose Crisis
Travis Reider, Ph.D.

9:45 a.m. - 11:15 a.m.
Pioneer Session #1: Kristen Harris,
Ph.D.
Amphitheater, Yellowstone
Conference Center
Synapse Development and Plasticity
During Long-Term Potentiation
Pioneer: Kristen Harris
Investigators: Sergei
Kirov, Michael Chirillo

11:15 a.m. - 11:45 a.m.
Panel Chair Training Session
Dunraven/Obsidian, Yellowstone
Conference Center

SUNDAY, JANUARY 25TH

2:00 p.m. - 3:30 p.m.

Professional Development Session #1
Gallatin, Yellowstone Conference Center
Preparing for the Job You Want: The
Business of Academia
Chair: Michael Stefanik
Rebecca Fallon, Jacob Beckley, Kim
Cronise, Lori Knackstedt, Lique Coolen

3:30 p.m. - 4:30 p.m.

Exhibits & Poster Session I
Jefferson/Madison, Yellowstone
Conference Center

4:30 p.m. - 6:30 p.m.

Panel

Lake, Yellowstone Conference Center
Advances in Auditory Cortical Circuit
Development and Function
Chair: Robert Froemke
Co-Chair: Lauren Kreeger
Alfonso junior Apicella, Melissa Caras,
Patrick Kanold, Hysell Oviedo

Panel

Gallatin, Yellowstone Conference Center
Driving With the Top-Down: Investigating
the Role of Frontal Cortices in
Modulating Alcohol
and Stress Comorbidity
Chair: Laura Ornelas
Co-Chair: Julia Mitchell
Veronika Kondev, Aqilah McCane

Panel

Canyon, Yellowstone Conference Center
Getting the "Beta" on Delta Glutamate
Receptors
Chair: Zoe McElligott
Co-Chair: Andrew Kain
Haobo Wang, Shashank Dravid

Panel

Amphitheater, Yellowstone Conference
Center
Mechanisms of Learning and Behavior
Beyond Integrated Value
Chair: Thorsten Kahnt
Mihaela Iordanova, Ronald Keiflin, Kaue
Costa, Angela Langdon

Panel

Dunraven/Obsidian, Yellowstone
Conference Center
Reconsidering the Textbook: New Players
in Our Concepts of Central Homeostatic
Regulation
Chair: Carie Boychuk
David Mendelowitz, Kevin Williams, Pablo
Nakagawa, Brent Myers

Panel

Lamar, Yellowstone Conference Center
Safety Nets on the Slopes and in the CNS:
Perineuronal Nets in Neuroplasticity,
Addiction and Disease
Chair: Anna Klintsova
Kim Green, Barbara Sorg, Alexia Zylko

Panel

Gibbon, Yellowstone Conference Center
Utilizing Novel Models to Elucidate
Pathogenic Mechanisms of Alzheimer's
Disease
Chair: Angela Gomez Arboledas
Grant MacGregor, Afonso Silva, Michael
Wolfe

6:30 p.m. - 7:00 p.m.

Evening Refreshment Break
Upper Atrium and Lower Atrium,
Yellowstone Conference Center

SUNDAY, JANUARY 25TH

7:00 p.m. - 8:30 p.m.

Panel

Gallatin, Yellowstone Conference Center
Impact of Emotional Circuits on
Quantitative Behavior and Executive
Function

Chair: Deryn LeDuke

Co-Chair: Joshua Gordon

Shana Silverstein, Ryan Cho, Garret
Stuber, Kay Tye

Panel

Dunraven/Obsidian, Yellowstone
Conference Center
Mechanistic Insights into the Prevention
and Treatment of Childhood and
Adolescent Psychiatric Disorders

Chair: Kristin Bigos

Jodi Lukkes, Jack Staples

Panel

Lake, Yellowstone Conference Center
Molecular Signals at the Neurovascular
Unit: Convergent Mechanisms in
Neuropathic Pain and Traumatic Brain
Injury

Chair: Aric Logsdon

Co-Chair: Daniela Salvemini

Josee Guindon, Tally Largent-Milnes

Panel

Lamar, Yellowstone Conference Center
The Modern Clinician-Scientist's Role to
Bridge Basic Neuroscience and Clinical
Practice

Chair: Songjun Li

Co-Chair: Joseph Luchsinger

Erik Carlson, Amelia Gallitano, Milos Pekny



MONDAY, JANUARY 26TH

6:30 a.m. - 8:30 a.m.

Breakfast at Leisure

6:30 a.m. - 8:30 a.m.

Board of Director's Meeting (Invitation
Only)

Talus, Summit

7:30 a.m. - 9:30 a.m.

Panel

Gallatin, Yellowstone Conference Center
Advances in Linking Biochemistry and
Behavior Using Fluorescence Lifetime
Biosensors

Chair: Andrew Lutas

Yulong Li, Helen Farrants, Tianyi Mao,
Stephen Zhang

Panel

Gibbon, Yellowstone Conference Center
Bandits at Big Sky - Neurocomputational
Underpinnings of Reinforcement
Learning Through the Lens of the Field's
Most Popular Task

Chair: Jeremy Hogeveen

Diana Burk, Kathryn Rothenhoefer,
Vincent Costa, Becket Ebitz, Robert
Wilson, Prakhar Godara

MONDAY JANUARY 26TH

Panel

Lake, Yellowstone Conference Center
Carving Soundscapes: Slalom Across
Auditory Coding Circuits

Chair: Maria Geffen

Co-Chair: Li Zhang

Andrea Hasenstaub, Michele Insanally,
Robert Liu, Celine Drieu, Maria Geffen

Panel

Amphitheater, Yellowstone Conference
Center

Excitatory/Inhibitory (E/I) Biomarkers for
Ketamine Response: Focusing on
Glutamate and GABA Modulation

Chair: Balwinder Singh

Co-Chair: Manoela Fogaca

Gerard Sanacora, Manoela Fogaca,
Balwinder Singh, Jordi Bonaventura

Panel

Canyon, Yellowstone Conference Center
Slalom Between Craving and Control:
Prefrontal Cortex Regulation of Drug

Seeking and Emotion

Chair: Lori Knackstedt

Brett Froeliger, Matthew Hearing, Rachel
Clarke

Panel

Dunraven/Obsidian, Yellowstone
Conference Center

The Emerging Role of Astrocytic Deficits
in Neurodevelopmental Disorders

Chair: Vitaly Klyachko

Ashley Brandebura, Iryna Ethell, Vitaly
Klyachko, Anna Dunaevsky

Panel

Lamar, Yellowstone Conference Center
The Social and Affective Brain: From
Neurons to Neuroimaging

Chair: Tor Wager

Matthias Kirschner, Frederike Petzchner,
Barbara Jobst

9:45 a.m. - 10:45 a.m.

Diversity and Inclusion Power Hour
Dunraven/Obsidian, Yellowstone
Conference Center

3:00 p.m. - 3:30 p.m.

Data Blitz

Gallatin, Yellowstone Conference Center

3:30 p.m. - 4:30 p.m.

Exhibits and Poster Session #2
Jefferson/Madison, Yellowstone
Conference Center

4:30 p.m. - 6:30 p.m.

Panel

Dunraven/Obsidian, Yellowstone
Conference Center

Avalanches of Emotion: Making Sense of
Insular Cortex Circuits for Negative Affect

Chair: Samuel Centanni

Co-Chair: John Christianson

Eileen Chun, Songjun Li, Alexandra Klein

Panel

Amphitheater, Yellowstone Conference
Center

Beyond Disinhibition: Revisiting Mu Opioid
Modulation Within the VTA Circuitry

Chair: Flavia Barbano

Co-Chair: Elyssa Margolis

Frank Meyer, Thomas Jhou

MONDAY JANUARY 26TH

Panel

Lamar, Yellowstone Conference Center
Integration of Diverse Neuromodulatory
Signals in the Striatum: From Synaptic
Inputs to Behavioral Outputs

Chair: Jacqueline Giovanniello
Munir Kutlu, Katherine Nautiyal, Eduardo
Gallo

Panel

Canyon, Yellowstone Conference Center
NMDA Receptor Subunit Properties and
Their Role in the Control of Circuit
Function

Chair: Stephen Traynelis
Katherine Roche, Shashank Dravid, Eric
Gouaux

Panel

Lake, Yellowstone Conference Center
Promises and Challenges of Multi-Omics
in Biomarker Development for
Neurodegenerative Diseases

Chair: Norman Haughey
Ornit Chiba-Falek, Aliza Wingo, David
Crosslin, Ara Khachaturian

Panel

Gallatin, Yellowstone Conference Center
The Role of Dendritic Spine Dynamics
in Distinct Learning Paradigms and Its
Contributions to Cognitive Alterations in
Neurodegenerative, Neuropsychiatric
and Neuropsychotropic Conditions

Chair: Zachary Wills
Megha Sehgal, Yi Zuo, Peter Penzes

Panel

Gibbon, Yellowstone Conference Center
Too Much Ice on the Slopes: Uncovering
Central and Peripheral Consequences of
Methamphetamine Use in Preclinical
Models

Chair: Marek Schwendt
Co-Chair: M. Foster Olive
Ellen Unterwald, Marek Schwendt,
Amanda Acuna, Habibeh Khoshbouei,
Susan Ferguson

7:00 p.m. - 8:30 p.m.

Brain Talk Town Meeting: Travis Rieder,
Ph.D.

Gallatin, Yellowstone Conference Center
Catastrophe Ethics: How to be Good in a
World on Fire

9:00 p.m. - 11:00 p.m.

Karaoke
Vista Hall South

TUESDAY, JANUARY 27TH

6:30 a.m. - 8:30 a.m.

Breakfast at Leisure

6:30 a.m. - 8:00 a.m.

Travel Fellow and Mentor Breakfast
Cheyenne, Huntley Lodge

7:30 a.m. - 9:30 a.m.

Panel

Lake, Yellowstone Conference Center
Advances in Bioanalytical Sensing
Technologies for in Vivo Neurochemical
Monitoring in Rodents and Primates
Chair: Leslie Sombers
Lori Knackstedt, Matthew Wanat, Tod
Kippin, Helen Schwerdt

Panel

Canyon, Yellowstone Conference Center
Disease-Specific Roles of Glial Cells -
From Concepts to Promising Treatment
Interventions
Chair: Milos Pekny
Marie-Eve Tremblay, Shane Liddelow,
Marcela Pekna

Panel

Dunraven/Obsidian, Yellowstone
Conference Center
Neural and Inflammatory Mechanisms
Contributing to Traumatic Brain Injury
Pathology-Novel Potential Sites for
Translation and Therapeutic Intervention
Chair: Akiva Cohen
Audrey Lafrenaye, Cole Vonder Haar,
David Devilbiss, Abigail Schindler

Panel

Gallatin, Yellowstone Conference Center
Opioid Self Administration: Behavioral,
Molecular, and Circuit Mechanisms of
Addiction Vulnerability
Chair: Brian Kipp
Ginevra D'Ottavio, Ewa Galaj, Nicolas
Massaly, Zoe McElligott

Panel

Lamar, Yellowstone Conference Center
Structural and Functional Analysis of the
Glutamatergic Synapse at the Nanoscale
Level
Chair: Johannes Hell
Matthew Dalva, Mary Horne, Daniel
Choquet

Panel

Amphitheater, Yellowstone Conference
Center
Translational Brain Stimulation I:
Modulating Neural Circuit Physiology to
Influence Behavior
Chair: David Blake
Thibaut Sesia, Sarah Kearsley, Vincent
Ferrera

9:45 a.m. - 11:15 a.m.

Pioneer Session #2: Amy Newman, Ph.D.
Amphitheater, Yellowstone Conference
Center
A Medicinal Chemist's Journey One
Mogul at a Time
Pioneer: Amy Newman
Chair: Lorenzo Leggio
Investigators: Alessandro Bonifazi, Gisela
Camacho Hernandez

TUESDAY, JANUARY 27TH

3:30 p.m. - 4:30 p.m.

Exhibits and Poster Session #3
Jefferson/Madison, Yellowstone
Conference Center

4:30 p.m. - 6:00 p.m.

Professional Development Session #2
Gallatin, Yellowstone Conference Center
Staying on the Trail: Science
Communications and Media Training
Chair: Michael Stefanik
Laura Sanders, Karin Kirk, Alaina Jaster

6:00 p.m. - 6:30 p.m.

Evening Refreshment Break
Upper Atrium and Lower Atrium,
Yellowstone Conference Center

6:30 p.m. - 8:30 p.m.

Panel
Lake, Yellowstone Conference Center
Advancing Precision Medicine for TBI:
Biomarkers Across Genes, Proteins, and
Circuits
Chair: Victoria Risbrough
Victoria Merritt, Michaela Cullum-Doyle,
Xianjin Zhou, Miranda Koloski

Panel

Amphitheater, Yellowstone Conference
Center
Balancing the Brain: Inhibitory Synapses in
Health and Disease
Chair: Derek Bowie
Co-Chair: Katharine Smith
Hideto Takahashi, Radu Aricescu

Panel

Dunraven/Obsidian, Yellowstone
Conference Center
Gut-Brain Axis in Health and Disease
Chair: Laura Ferguson
Laura Rupprecht, Iris Titos, Sarah Najjar,
Esther Melamed

Panel

Lamar, Yellowstone Conference Center
Neural Mechanisms Linking Sensation,
Behavior, and Memory
Chair: Gideon Rothschild
Cristopher Niell, Stephen David, Kishore
Kuchibhotla, Utku Kaya, Ipshita Zutshi,
Carmen Varela

Panel

Gallatin, Yellowstone Conference Center
Risk Factors for Pain Development and
Chronification
Chair: Edita Navratilova
Co-Chair: Michael Jankowski
Emily Bartley, Hadas Nahman-Averbuch,
Edita Navratilova, Greg Dussor

Panel

Canyon, Yellowstone Conference Center
Translational Brain Stimulation II:
Modulating Neural Circuit Physiology to
Influence Behavior
Chair: Matt Johnson
Azadeh Yazdan-Shahmorad, Luis Lujan,
Matt Johnson, Jonathan Baker

WEDNESDAY, JANUARY 28TH

6:30 a.m. - 8:30 a.m.

Breakfast at Leisure

7:30 a.m. - 9:30 a.m.

Panel

Gibbon, Yellowstone Conference Center
Body-Brain Interactions Controlling
Alcohol Intake

Chair: Laura Rupprecht

Cody Siciliano, Guillaume de Lartigue,
Summer Thompson, Laura Ferguson

Panel

Lake, Yellowstone Conference Center
Cannabis Use and Health: Green Slope,
Blue Slope or Double Black?

Chair: Crystal Smith

Co-Chair: Ryan Vandrey

Sterling McPherson, Crystal Smith, Alan
Budney, Johannes Thrul

Panel

Gallatin, Yellowstone Conference Center
Characterization of Dopaminergic
Contributions to Amygdala-Mediated
Emotional Learning

Chair: Megan Brickner

Co-Chair: David Barker

Damien Kerspern, Mi-Seon Kong

Panel

Amphitheater, Yellowstone Conference
Center

Endogenous Opioid Modulation of Neural
Circuits for Motivated Behavior

Chair: Raajaram Gowrishankar

Matthew Pomrenze, Sofia Shirley, Marta
Trzeciak

Panel

Canyon, Yellowstone Conference Center
Experience-Driven Epigenetic Regulation
of Memory

Chair: Philipp Mews

Marcelo Wood, Janine Kwapis, Philipp
Mews, Anne West

Panel

Lamar, Yellowstone Conference Center
Information Seeking: Neurons and
Networks, Curiosity and Boredom

Chair: Johannes Seiler

Kalina Christoff Hadjiilieva, Catherine
Hartley, Jessica Andrews-Hanna,
Johannes Seiler

Panel

Dunraven/Obsidian, Yellowstone
Conference Center
Synaptic Modulators, Circuit Interactions,
and Behavioral Outcomes in Health and
Disease

Chair: Jinye Dai

Co-Chair: Markus Wöhr

Bo Zhang, Tara LeGates, Cirong Liu,
Christopher Patzke

10:30 a.m. - 12:00 p.m.

Smitty Stevens Ski Slalom
Chet's Knob

12:30 p.m. - 2:30 p.m.

Winter Brain Mountain Lunch
Huntley Dining Room, Huntley Lodge

3:30 p.m. - 4:30 p.m.

Exhibits and Poster Session #4
Jefferson/Madison, Yellowstone
Conference Center

WEDNESDAY, JANUARY 28TH

4:30 p.m. - 6:30 p.m.

Panel

Lake, Yellowstone Conference Center
Advancing Mechanisms of
Neuronal Homeostasis and Sleep
Chair: Graham Diering
Jason Shepherd, Graham Diering, Michelle
Bridi, Keith Hengen

Panel

Amphitheater, Yellowstone Conference
Center
Cognitive Circuitry and Behavior as a
Cause
and Effect of Substance Use
Chair: David Bortz
Ryan Kovaleski, Ryan McLaughlin, David
Bortz, Beatriz Luna

Panel

Canyon, Yellowstone Conference Center
Decoding Cortical Feedback:
Mechanisms and Functions
Chair: Anubhuti Goel
Edward Zagher, David Schneider, Gal Atlan

Panel

Lamar, Yellowstone Conference Center
Linking Mitochondrial Metabolism to
Altered Excitability in Bipolar Disorder
Using Brain Organoids
Chair: Leonard Kaczmarek
Jenny Tam, Elizabeth Jonas, Giselli Scaini,

Panel

Gallatin, Yellowstone Conference Center
Structure, Function, and the Application
of Network Neuroscience, to Understand
the Healthy and Diseased Brain
Chair: Todd Constable
Peter Fox, Hal Blumenfeld, Stefan Posse,
Xiaoping Hu

Panel

Gibbon, Yellowstone Conference Center
The Lateral Habenula at the Interface
Between Motivation and Pain
Chair: Mary Heinricher
Co-Chair: David Barker
Olivia DePasquale, Elizabeth Glover,
Mary Heinricher, Elyssa Margolis

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

Winter Brain Business Meeting
Gallatin, Yellowstone Conference Center

7:30 p.m. - 9:30 p.m.

Special Poster Session and Reception
Jefferson/Madison, Yellowstone
Conference Center

THURSDAY, JANUARY 29TH

6:30 a.m. - 8:30 a.m.

Breakfast at Leisure

6:30 a.m. - 8:30 a.m.

Board of Director's Meeting (Invitation Only)

Talus, Summit

7:30 a.m. - 9:30 a.m.

Panel

Amphitheater, Yellowstone Conference Center

Amygdala Modulation Across Scales and Species

Chair: Peter Rudebeck

Co-Chair: Vincent Costa

Jacqueline Giovanniello, Vincent Costa, Peter Rudebeck, Negar Fani

Panel

Cheyenne, Yellowstone Conference Center

Dynamic Gain Modulation by Endogenous Cannabinoids

Chair: Veronika Kondev

Co-Chair: Miguel Lujan

David Marcus, Saptarnab Naskar

Panel

Lake, Yellowstone Conference Center
Fresh Powder: The Latest in Our Understanding of Sensory Signaling

Chair: Jasenka Zubcevic

Lauren Woodie, Claire de La Serre, Christopher Banek

Panel

Lamar, Yellowstone Conference Center
Navigating Theta Moguls on Oscillatory Slopes

Chair: Kamran Diba

Joshua Jacobs, Kamran Diba, Elizabeth Buffalo, Eran Stark, Andrew Maurer, Kari Hoffman

Panel

Dunraven/Obsidian, Yellowstone Conference Center

Network Dynamics in Neuropsychiatric Disorders: From Symptoms to Circuits

Chair: Anil Malhotra

George Foussias, Andrew Pines, Sana Ali, Miklos Argyelan

Panel

Gibbon, Yellowstone Conference Center
Organization and Neuromodulation of Temporal-Prefrontal Circuits of Decision-Making and Learning

Chair: Davide Folloni

Kate Wassum, Joni Wallis, Erie Boorman

Panel

Canyon, Yellowstone Conference Center
Routes off the Lone Peak: New Pathways Toward Injury Recovery and Pain Relief

Chair: Yimin Zou

Co-Chair: Theodore Price

Sandra Garraway, Megan Detloff, Angelo Lepore, Matthew Dalva

2:30 p.m. - 3:00 p.m.

Afternoon Coffee Break

Upper Atrium, Yellowstone Conference Center

12:30 p.m. - 2:30 p.m.

Winter Brain Mountain Lunch
Huntley Dining Room, Huntley Lodge

THURSDAY, JANUARY 29TH

3:00 p.m. - 4:20 p.m.

Advocacy Panel

Scientific Advocacy: Advocating for
Science, Policy, and Yourself
Amphitheater, Yellowstone Conference
Center

4:30 p.m. - 6:30 p.m.

Panel

Canyon, Yellowstone Conference Center
Alzheimer's Disease Mechanism and
Therapeutic Intervention
Chair: Julia TCW
Kevin Beier, Yimin Zou, Pooja Jadiya,
Miranda Orr, Timothy Hohman

Panel

Lake, Yellowstone Conference Center
Carving New Trails to Dopamine Function
in Learning and Decision Making
Chair: Sean Ostlund
Erin Calipari, Melissa Malvaez, Kathia
Ramírez-Armenta, Vijay Mohan K
Namboodiri

Panel

Lamar, Yellowstone Conference Center
From Development to Aging: Social
Circuits in Psychiatric Disorders and
Neurodegeneration
Chair: Alessandra Porcu
Co-Chair: Valeria Lallai
William Giardino, Sophia Weber, Giedre
Milinkeviciute

Panel

Gibbon, Yellowstone Conference Center
Integrating AI and Machine Learning With
Brain and Clinical Mechanisms
Chair: Frederike Petzschnier
Michael Frank, Thomas Serre, Erie
Boorman

Panel

Amphitheater, Yellowstone Conference
Center
Neurobiology of Motivation: Insights From
Food, Drugs, and Emerging Approaches to
Addiction Research
Chair: Carrie Ferrario
Ana Clara Bobadilla, Giuseppe Giannotti,
Travis Brown

Panel

Dunraven/Obsidian, Yellowstone
Conference Center
Prefrontal Mechanisms of Adaptive
Cognitive Behaviors
Chair: Ido Maor
Co-Chair: Evan Hart
Alison R Preston, Sebastijan Veselic,
Zeena Rivera

Panel

Cheyenne, Huntley Lodge
Under the Big Sky: Illuminating Synaptic
Plasticity With High-Resolution Imaging
Chair: Karen Zito
Co-Chair: Martin Hruska
Harold MacGillavry, Linnaea Ostroff, Mark
Dell'Acqua

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

Cocktail Hour

Huntley Dining Room, Huntley Lodge

7:30 p.m. - 11:30 p.m.

Awards Banquet and Dance
Missouri Ballroom, Yellowstone
Conference Center

POSTER TITLES AND PRESENTERS

Please click the title to view the selection.



POSTER ABSTRACTS

Please click the title to view the selection.



PANEL ABSTRACTS

Please click the title to view the selection.



PRESENTER DISCLOSURES

Aricescu, Radu:

BioNTech UK: Employee; BioNTech UK: Stock/Equity – Publicly Traded Company

Bayer, Ulli:

Neurexis Therapeutics Inc: Advisory Board Member; Neurexis Therapeutics Inc: Consultant; Neurexis Therapeutics Inc: Founder

Beckley, Jacob:

ReTUNED Therapeutics: Stock/Equity – Privately Held Company; Supernus Therapeutics: Employee

Budney, Alan:

Clear30, Inc.: Advisory Board Member

Cairns, Murray:

PolygenRx Pty Ltd: Owner

Dussor, Greg:

PARMedics: Founder; Delphian Therapeutics: Advisory Board Member; Acadia Pharmaceuticals: Stock/Equity – Publicly Traded Company

Fani, Negar:

Carlson AirFlo: Honoraria; RealChemistry: Honoraria

Gordon, Joshua:

Neurokaire: Consultant

Hohman, Timothy:

Circular Genomics: Advisory Board Member

Johnson, Matt:

Inspire Medical: Consultant

Kaczmarek, Leonard:

Praxis Precision Medicine: Stock/Equity – Publicly Traded Company

Khachaturian, Ara:

Alzheon: Advisory Board Member; Lilly and Company: Grant; Elsevier: Honoraria

Kirschner, Matthias:

Otsuka: Consultant

Liddelow, Shane:

AstronauTx Ltd: Owner; Synapticure: Owner; Concept Life Sciences: Advisory Board Member; Illumina: Honoraria; EMD: Honoraria; Global BioAccess Fund: Advisory Board Member; ONO Pharmaceuticals: Contracted Research

Logsdon, Aric:

Psycheceutical Biosciences Inc.,: Employee

Malhotra, Anil:

Dedham Group: Consultant; First Word: Consultant; InformedDNA: Consultant; Iqvia: Consultant; MEDACorp: Consultant; Zen Neuroscience: Consultant

Margolis, Elyssa:

Neumora Therapeutics: Consultant

Martino, Michael:

Prodeo, LLC: Consultant

McPherson, Sterling:

Altimmune: Advisory Board Member; Providence Healthcare: Consultant

Napadow, Vitaly:

Cala Health, Inc.: Consultant

Petzschner, Frederike:

SomaCare Inc: Founder

Posse, Stefan:

NeurInsight LLC: Founder

Sanacora, Gerard:

Abbvie,: Consultant; Actinogen Medical,: Consultant; Alto Neuroscience,: Consultant; Atai,: Consultant; Axsome Therapeutics,: Consultant; Biogen,: Consultant; Biohaven Pharmaceuticals,: Advisory Board Member; Biohaven Pharmaceuticals,: Stock/Equity – Publicly Traded

Singh, Balwinder:

Mayo Clinic: Employee; Elsevier: Honoraria

PRESENTER DISCLOSURES

Smith, Mark:

Orexo: Consultant

Thomas, Merrilee:

Montana Molecular: Employee

Thrul, Johannes:

Mindco Health: Advisory Board Member

Traynelis, Stephen:

GRIN Therapeutics: Consultant;
GRIN Therapeutics: Grant; Eumentis:
Advisory Board Member; Neurocrine:
Advisory Board Member; Seyltx:
Consultant; Sage Therapeutics:
Consultant; Agrithera: Founder;
NeurOp: Founder

Tschang, Monica:

Amylyx Pharmaceuticals: Stock/Equity
– Publicly Traded Company

Vandrey, Ryan:

Charlotte's Web: Consultant; Syqe
Medical Ltd.: Consultant

Vonder Haar, Cole:

Turner Scientific: Consultant

Wood, Marcelo:

EpiVario: Stock/Equity – Privately Held
Company; MelBridge Therapeutics:
Stock/Equity – Privately Held Company

Zou, Yimin:

VersaPeutics, Inc: Founder;
VersaPeutics, Inc: Board Member;
VersaPeutics, Inc: Stock/Equity –
Privately Held Company

THE FOLLOWING PRESENTERS HAD NOTHING TO DISCLOSE

Acuna, Amanda

Aggarwal, Srishty

Aguayo, Caleb

Ajonijebu, Toluwalope

Ajonijebu, Duyilemi

Alducin, Cecilia

Ali, Sana

Anderson, Anne

Andersson, Sandra

Andrews-Hanna, Jessica

Anzolin, Alessandra

Apicella, Alfonso junior

Argyelan, Miklos

Atlan, Gal

Bacchus, Zarah

Baker, Jonathan

Baldi, Samantha

Balintfy, Joe

Banek, Christopher

Barbano, Flavia

Barker, David

Brandebura, Ashley

Brickner, Megan

Bridi, Michelle

Brown, Travis

Buffalo, Elizabeth

Bùi, Tùng

Burk, Diana

Burke, Andrew

Caccavano, Adam

Calipari, Erin

Camacho Hernandez, Gisela

Caras, Melissa

Carlson, Erik

Carter, Angela

Cataldo, Noelle

Catalfio, Amanda

Centanni, Samuel

Chaudhry, Sarah

Chawla, Amita

Chiba-Falek, Ornit

Chirillo, Michael

THE FOLLOWING PRESENTERS HAD NOTHING TO DISCLOSE

Cho, Ryan
Cho, Wonhee
Choquet, Daniel
Christianson, John
Christoff Hadjiilieva, Kalina
Chu, Hong-yuan
Chu, Erskine
Chun, Eileen
Clarity, Thomas
Clarke, Rachel
Coblentz, Azariah
Cohen, Akiva
Constable, Todd
Coolen, Lique
Costa, Vincent
Costa, Kauê
Cousens, Phoebe
Craddock, Ainsley
Crosslin, David
Cryan, Casey
Cullum-Doyle, Michaela
Daher, Fernanda
Dai, Jinye
Dalva, Matthew
David, Stephen
de La Serre, Claire
de Lacalle, Sonsoles
de Lartigue, Guillaume
Deckers, Claire
Dell'Acqua, Mark
DePasquale, Olivia
Detloff, Megan
Devilbiss, David
Dheer, Amarpreet
Diba, Kamran
Diering, Graham
D'Ottavio, Ginevra
Downs, Anthony
Dravid, Shashank
Drieu, Celine
Dunaevsky, Anna

Ebitz, Becket
Effinger, Devin
Elam, Hannah
Elerding, Abigail
Ely, Samantha
Emerson, Soren
Ethell, Iryna
Farr, Susan
Farrants, Helen
Ferguson, Laura
Ferguson, Susan
Ferrario, Carrie
Ferrera, Vincent
Fetterly, Tracy
Fleury, Sixtine
Fogaca, Manoela
Folloni, Davide
Folloni, Davide
Foussias, George
Fox, Peter
Frank, Michael
Froeliger, Brett
Froemke, Robert
Frost, Nicholas
Galaj, Ewa
Galli, Aurelio
Gallitano, Amelia
Gallo, Eduardo
Garcia, Joshua
Garcia-Castañeda, Brandon
Garraway, Sandra
Geffen, Maria
Gensky, Andrea
Geva, Nitzan
Giannotti, Giuseppe
Giardino, William
Giovanniello, Jacqueline
Glover, Elizabeth
Godara, Prakhar
Goel, Anubhuti
Gold, Michael

THE FOLLOWING PRESENTERS HAD NOTHING TO DISCLOSE

Gomez Arboledas, Angela
Gordon-Fennell, Adam
Gouaux, Eric
Gowrishankar, Raajaram
Grahl, Arvina
Green, Kim
Greig, Nigel
Grodin, Erica
Guindon, Josee
Halbing, Amy
Harris, Kristen
Hart, Evan
Hart, Evan
Hartley, Catherine
Hasenstaub, Andrea
Haughey, Norman
Hazelton, Anthony
He, Jialin
Healey, Kati
Hearing, Matthew
Heinricher, Mary
Hell, Johannes
Hemmati, Parnian
Hengen, Keith
Hentges, Shane
Herborg, Freja
Hisey, Erin
Hoffman, Kari
Hogeveen, Jeremy
Horne, Mary
Hruska, Martin
Hsieh, Jenny
Hu, Xiaoping
Huguenard, John
Hussain Shuler, Marshall
Hyde, Thomas
Iacobucci, Francesca
Ingram, Susan
Insanally, Michele
Iordanova, Mihaela
Jacobs, Joshua
Jadiya, Pooja

Jankowski, Michael
Jaster, Alaina
Jhou, Thomas
Jobst, Barbara
Johansen, Joshua
Johnson, Luke
Jonas, Elizabeth
K Namboodiri, Vijay Mohan
Kahn, Elizabeth
Kahnt, Thorsten
Kain, Andrew
Kanold, Patrick
Kaya, Utku
Kearsley, Sarah
Keiflin, Ronald
Kerspern, Damien
Khoshbouei, Habibeh
Kipp, Brian
Kippin, Tod
Kirchner, Emily
Kirk, Karin
Kirov, Sergei
Klein, Alexandra
Klintsova, Anna
Klyachko, Vitaly
Knackstedt, Lori
Kocharian, Adrina
Koloski, Miranda
Kondev, Veronika
Kong, Mi-Seon
Kovaleski, Ryan
Kreeger, Lauren
Kshatriya, Dushyant
Kuchibhotla, Kishore
Kumar, Renuka
Kurkela, Margareta
Kutlu, Munir
Kwapis, Janine
Lafferty, Danielle
Lafrenaye, Audrey
Lallai, Valeria
Langdon, Angela

THE FOLLOWING PRESENTERS HAD NOTHING TO DISCLOSE

Largent-Milnes, Tally
LeDuke, Deryn
LeGates, Tara
Leggio, Lorenzo
Leigh, Richard
Lepore, Angelo
Li, Hao
Li, Yulong
Li, Songjun
Li, Bohan
Lingg, Ryan
Liu, Robert
Liu, Cirong
Loland, Claus
Loth, Francis
Lucas, Elizabeth
Luchsinger, Joseph
Lujan, Luis
Lujan, Miguel
Lukkes, Jodi
Luna, Beatriz
Lutas, Andrew
Ly, Anh
Ma, Siyi
MacGillavry, Harold
MacGregor, Grant
Makowicz, Emily
Malvaez, Melissa
Manusky, Logan
Mao, Tianyi
Maor, Ido
Marcus, David
Markota, Matej
Martens, Kris
Massaly, Nicolas
Matheson, Chloe
Maurer, Andrew
McCane, Aqilah
McDougale, Molly
McElligott, Zoe
McGinty, Jacqueline

McLaughlin, Ryan
Melamed, Esther
Mellert, Simone
Mendelowitz, David
Merritt, Victoria
Mews, Philipp
Meye, Frank
Meyer, Katharina
Michaelides, Michael
Milinkeviciute, Giedre
Milinkeviciute, Giedre
Miller, Cory
Mills, Hadley
Mitchell, Julia
Mol, William
Moreno-Castilla, Perla
Morgan, Daniel
Morley, Kirsten
Mueller, Devin
Musa, Aminu
Myers, Brent
Nahman-Averbuch, Hadas
Najjar, Sarah
Nakagawa, Pablo
Naskar, Saptarnab
Nautiyal, Katherine
Navratilova, Edita
Naylor, David
Negrón-Moreno, Paola
Newman, Amy
Ng, Alexandra
Nguyen, Trang
Kimberly
Nicolaisen, Emma
Niebur, Ernst
Niebur, Tobias
Niell, Christopher
Nielsen, Jeppe
Nowak, David
Olive, M. Foster
Oliver, Brandon
Opendak, Maya

THE FOLLOWING PRESENTERS HAD NOTHING TO DISCLOSE

Ornelas, Laura
Orr, Miranda
Ostlund, Sean
Ostroff, Linnaea
Oviedo, Hysell
Ozols, Annika
Paniccia, Jacqueline
Pastina, Joseph
Patel, Reesha
Patzke, Christopher
Peden-Asarch, Ari
Pekna, Marcela
Pekny, Milos
Pennington, Kendyl
Penzes, Peter
Perry, Sarah
Pines, Andrew
Pomrenze, Matthew
Porcu, Alessandra
Porter-Stransky, Kirsten
Preston, Alison R
Prevost, Emily
Price, Theodore
Radley, Jason
Ramirez, Maria
Ramírez-Armenta, Kathia
Rathan Kumar, Sudiksha
Rice, Margaret
Rieder, Travis
Riley-DiPaolo, Alexis
Risbrough, Victoria
Rivera, Zeena
Rivera Rosario, Francisco
Roche, Katherine
Rothenhoefer, Kathryn
Rothschild, Gideon
Rudebeck, Peter
Rupprecht, Laura
Russell, Emma
Sachse, Elizabeth
Salvemini, Daniela
Sanchez, Jacqueline

Sanders, Laura
Scaini, Giselli
Schindler, Abigail
Schneider, David
Schwendt, Marek
Schwerdt, Helen
Seban, Nicolas
Sehgal, Megha
Seibert, Michael
Seiler, Johannes
Seim, Roland
Serre, Thomas
Sesia, Thibaut
Shallow, Molly
Shepherd, Jason
Shirley, Sofia
Siciliano, Cody
Silva, Afonso
Silverstein, Shana
Simen, Patrick
Simonsen, Kristine
Sitnikova, Tatiana
Skandan, Neha
Smith, Katharine
Smith, Crystal
Somers, Leslie
Sorg, Barbara
Spooner, Heather
Squillace, Silvia
Staples, Jack
Stark, Eran
Stefanik, Michael
Stuber, Garret
Stubs, Josephine
Taffe, Michael
Takahashi, Hideto
Tam, Jenny
TCW, Julia
Templer, Victoria
Testen, Anze
Thompson, Summer
Titos, Iris

THE FOLLOWING PRESENTERS HAD NOTHING TO DISCLOSE

Tovar-y-Romo, Luis
Townsend, Erica
Tremblay, Marie-Eve
Trzeciak, Marta
Tye, Kay
Unterwald, Ellen
Varela, Carmen
Vento, Peter
Veselic, Sebastijan
Wager, Tor
Walker, Christopher
Wallis, Joni
Wanat, Matthew
Wang, Tianyu
Wang, Haobo
Ward, Lucy
Wassum, Kate
Weber, Sophia
West, Anne
Whitaker-Fornek, Jessica
Wilkinson, Courtney
Williams, Kevin
Wills, Zachary

Wilson, Robert
Wimmer, Mathieu
Wingo, Aliza
Wingo, Thomas
Wöhr, Markus
Wolcott, Joelyz
Wolfe, Michael
Woodahl, Erica
Woodie, Lauren
Yarur-Castillo, Hector
Yazdan-Shahmorad, Azadeh
Zagha, Edward
Zhang, Li
Zhang, Stephen
Zhang, Bo
Zhou, Xianjin
Zito, Karen
Zlebnik, Natalie
Zubcevic, Jasenka
Zuo, Yi
Zutshi, Ipshita
Zylko, Alexia

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