

22ND ANNUAL NEUROTECH CONVENTION OF SBMT

 Los Angeles, California, USA

Breaking Boundaries of Science, Technology,
Medicine, Art, & Healthcare Policy



WBMF Gala "Gathering for Cure" will be held at the
Intercontinental Hotel, Downtown LA March 1st, 2025
For more information visit: www.worldbrainmapping.org

**FEB 27, 2025 - MARCH 2, 2025 at the Los Angeles
Convention Center, 1201 S. Figueroa St. Los Angeles, CA 90015**

Exhibition, Workshops, Didactics, Bio-skills/Cadaver Labs
(Brain & Spine) & International Brain Mapping Foundation Gala



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SOCIETY FOR BRAIN MAPPING AND THERAPEUTICS



ANNUAL SBMT

World Congress of Society for Brain Mapping & Therapeutics Los Angeles, California, USA
Breaking Boundaries of Science, Technology, Medicine, Art, & Healthcare Policy

OUR AUDIENCE INCLUDES:

Neurosurgeons, radiologists, neurologists, psychiatrists, rehabilitation medicine physicians, cardiologists pulmonologists, bio-ethicists, oncologists, radiation oncologists, neuroscientists, engineers, physicists, psychologists, industry leaders neuro-oncologists, orthopedic/spine surgeons, nanotechnologists, pharmacists, stem cell scientists, computer/data scientists biochemists. Post-docs, residents, and fellows



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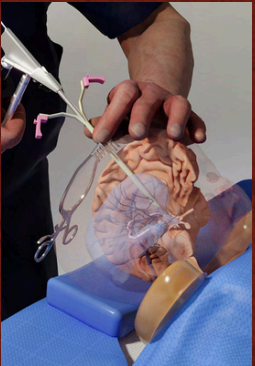
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DEAR INDUSTRY SUPPORTER

The SBMT Board of Directors invites you to
the 22nd Annual Congress on February 27th, 2025
At The LA Convention Center, Los Angeles, California.



The 2025 World Congresses will be supported by the US Government as well as many prominent US & international Universities and institutions. The program will represent state-of-the-art science & technology in the field of neuroscience, engineering, neurosurgery, psychiatry, psychology, molecular biology, neurology, radiology, & oncology.



This world-class scientific event will bring together physicians, scientists, policymakers, funding agencies, and industry to further advance the applications in brain & spinal cord mapping & image-guided therapies (operative and non-operative). The meeting is designed to facilitate the integration of nanotechnology & cellular therapy with medical devices & imaging.



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THE THEME OF THE MEETING IS

“BREAKING BOUNDARIES OF SCIENCE, TECHNOLOGY,
MEDICINE, ART, AND HEALTHCARE POLICY.”



This year SBMT will pay special attention to delivering this audience to the exhibit floor by creating specific initiatives, including oral poster presentations in the exhibit hall, conference breaks, & a wine & cheese reception. Showcase your innovative products with exhibition space on the trade show floor or by supporting one of our sponsorship programs. We can also customize a program to present your innovative brand in front of the attendees. This trade show & conference provide you with a significant opportunity to interact with recognized leaders in the field, meet potential investors, find new markets, & benefit from the exchange of ideas. & sell your technology. The SBMT Board of Directors appreciates your support and prompt response. We look forward to partnering with you to ensure an exceptional Congress in Los Angeles, California. Together, we push the boundaries of science and technology

Vicky Yamamoto, PhD

20th SBMT President (2022-2023)

Babak Kateb, MD

SBMT Chairman and CEO

Kheerty Sunder, MD

Industry Committee Co-Chair

Jason Cormier

19th SBMT President (2021-2022)

Farzad Massoudi, MD

Industry Committee Co-Chair

Namath Hussein, MD

Industry Committee Co-Chair



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TOPICS COVERED BY WORLD LEADERS IN THIS MEETING:

NEUROSURGERY

(eg. image guided therapy, intraoperative navigation, nanoneurosurgery, stereotactic radiosurgery, minimally invasive therapy, vascular neurosurgery, functional neurosurgery, neurotrauma/military medicine, neurosurgical oncology, surgical simulation, Peripheral nerve disorders....)

NEUROLOGY

(e.g. EEG, ERP, movement disorders, neurodegenerative diseases (Alzheimer, Parkinson, & Huntington), neuro-oncology, neuromodulation, epilepsy, neuroanesthesia and pain, brain and spinal cord function....)

PSYCHIATRY & PSYCHOLOGY

(e.g. opioid and addiction, anxiety disorder, autism, sleep, medical imaging for psychiatric conditions such as schizophrenia, depression, PTSD....)

RADIOLOGY, NEURO-ONCOLOGY AND RADIATION ONCOLOGY

(e.g. fMRI, MEG, PET, nuclear medicine, MRSI, MR-PET, DTI, CT-PET, focused ultrasound, MSI/MEG, ultra-high and low field MRI & interventional radiology, neuro-oncology, Gamma-Knife, Cyberknife, radiation physics, ZAP, medical Oncology....)

NEUROSCIENCE

(e.g. stem cell, molecular neuroscience, image-guided mapping of genes, proteomics, genomics, and neurophysiology. nanoneuroscience, aging, CBD....)



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NEUROVASCULAR SURGERY

(e.g. risk of Spinal Cord Injury & Stroke during Aortic procedures and new protective measures, new dynamic modalities of MRA and MRV in diagnosis of vascular diseases, Neurovascular imaging, Angiogenesis stimulation and stem cells research, new aggressive approach to Stroke management, endovascular treatment of Cerebral aneurysms, Vascular Disease in Patients with Multiple Sclerosis, Chronic Cerebrospinal Venous Insufficiency (CCSVI) in pathophysiology of MS, carotid disease identification & management in Stroke prevention....)

NEUROTECHNOLOGY & ENGINEERING

(e.g. artificial intelligence, fractal geometry, super computing, neurophotonics, biomaterial & tissue engineering, human-brain machine interface, brain and spinal cord devices, nanomedicine, extraterrestrial/space medicine & clinical practice, software engineering, electrical and material engineering, aeronautic engineering/space medicine and radiation physics/ oncology as well as robotics...)

NANO-BIO-ELECTRONICS & NANONEUROSURGERY

(e.g. integration of stem cell/cellular therapy with nanotechnology, medical devices and imaging...)

SPINE & NANOSPINE

(e.g. regeneration, stem cell, imaging, implants, biologics, materials, hardware and techniques...)

POLICY AND BUSINESS DEVELOPMENT

(e.g. business plan workshops, health care policy issues that affect treatment delivery, usage of certain devices/drugs/imaging technologies, FDA regulations and reimbursements, federal & regional regulation impacting health care delivery & research funding, initiative and congressional legislation...)

VISUAL PROCESSING

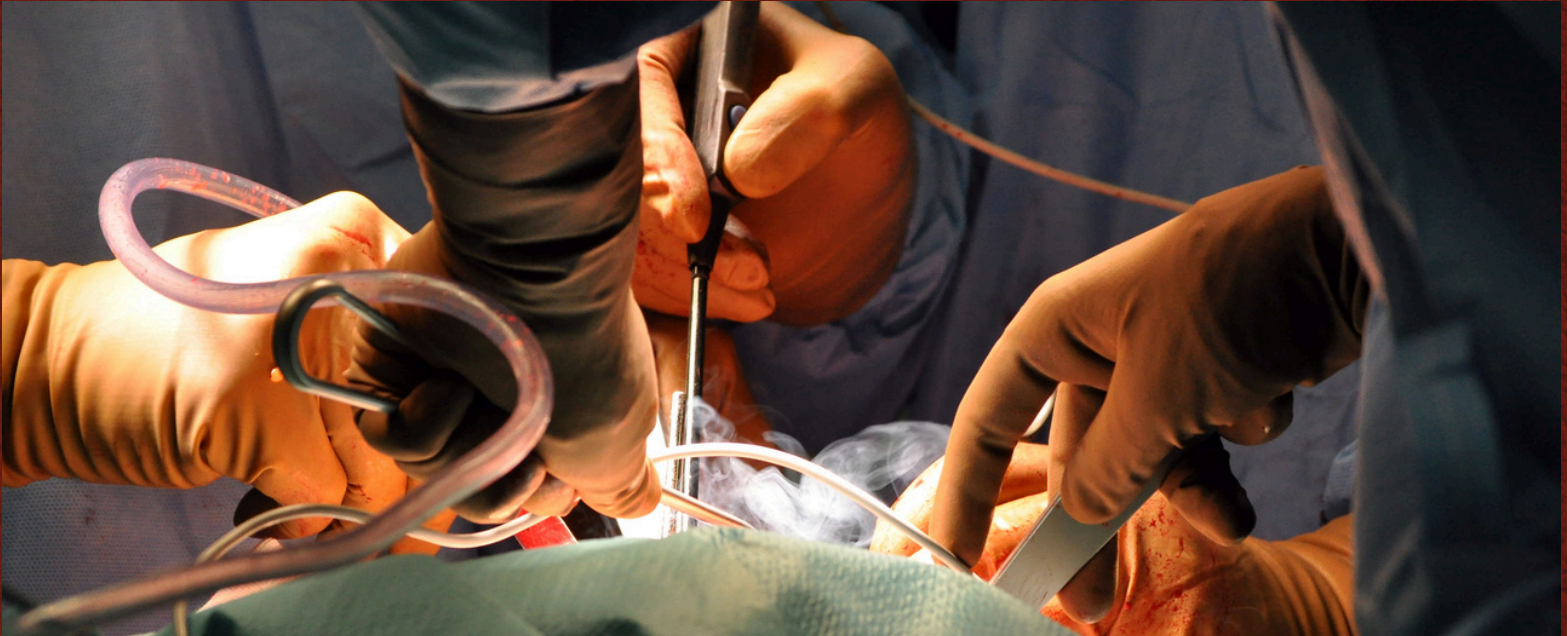
(e.g. business plan workshops, health care policy issues that affect treatment delivery, usage of certain devices/drugs/imaging technologies, FDA regulations and reimbursements, federal & regional regulation impacting health care delivery & research funding, initiative and congressional legislation...)





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SBMT MISSION STATEMENT

International Brain Mapping & Intraoperative Surgical Planning Society (IBMISPS) DBA SBMT is a non-profit society organized to encourage basic & clinical scientists as well as engineers who are interested in areas of Brain Mapping and Therapeutics to improve the diagnosis, treatment, and rehabilitation of patients afflicted with neurological disorders. This society promotes public welfare and improves patient care through the translation of new technologies into life-saving diagnostic and therapeutic procedures. The Society is committed to excellence in education & scientific discovery. The Society achieves its mission through multi-disciplinary collaborations with government agencies, patient advocacy groups, educational institutes, & private sector (industries), as well as philanthropic organizations. SBMT legal name and Tax ID: IBMISPS: 20-2793206



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EDUCATIONAL OBJECTIVES

Upon completion of the scientific congress, participants should be able to:

- Describe & assess the latest cutting-edge technological advancements in BM & therapeutics, such as the emerging field of nano-bio-electronics (integration of nanotechnology with stem cell/ cellular therapy, medical imaging, AI machine learning & others).
- Identify & apply new findings in brain mapping (BM) & therapeutics most relevant to their own sub-specialty, imaging, image-guided therapy, nanotechnology, nanotechnology, & stem cell devices!
- Discuss and describe governmental agencies, foundations, and industry roles in the research and development of the field
- Explain cross-linking amongst multiple disciplines.
- Discuss & design future research perspectives and developments in BM, neurophotonics, therapeutics, & nano-bio-electronics & assess the possible impact of such research and development on their own clinical and scientific work in the future.
- Recognize advancements in other disciplines & explain how such advancements can help with the formulation of new diagnostic & treatment modalities.
- Describe the effect of the newly developed methods on medical imaging, medical devices, nanotechnology, nanoneuroscience, stem cell/cellular therapy, quantum supercomputing.



ANNUAL SBMT WORLD CONGRESS

The annual SBMT World Congress is a multi-disciplinary forum designed to facilitate cross-disciplinary dissemination of technological and medical advances and scientific discovery. Thus the attendees are a mixture of neurosurgeons, radiologists, neurologists, neuro-oncologists, psychiatrists, physiatrists, other physicians, bioethicists, policymakers, government officials, engineers, physicists, graphic designers, neuroscientists, allied healthcare professionals, healthcare executives, students, post-docs, residents, & fellows. SBMT's annual meetings are world-class scientific events designed to have a significant impact on the cross-disciplinary flow of information & scientific advancements



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**A SHOWCASE OF THE VAST ARRAY OF BRAIN SCIENCE,
BRAIN RESEARCH, THERAPIES, AND THE TREATMENT OF
BRAIN AND SPINAL CORD INJURIES & DISEASES.**



In recent years, astonishing advances have contributed to amazing discoveries & breakthroughs in the fields of neurology, neuroscience, neurosurgery, & radiology. engineering, computer science, nanotechnology, medical imaging, and medical devices. and cellular/stem cell therapy. These scientific advances also have contributed to the large gap of knowledge among scientists in different disciplines. One of the significant challenges for scientists of the 21st century is how to close the gaps of knowledge among multiple disciplines. We have designed the annual meeting of SBMT to address such challenges by bringing together world-class experts across numerous fields.



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REASONS TO PARTICIPATE

LINK

In with near 100,000+ scientists, engineers, surgeons & physicians on SBMT global network.

NETWORK

With attendees in the exhibit hall during breaks and the networking reception.

PRESENT

In a World Class Multidisciplinary Biomedical Association.

MEET

Leaders and Pioneers at the conference and in poster sessions held in the exhibit hall.

MARKET

Your research and ideas to investors/grant makers.

PUBLISH

In Plos One NeuroMapping and Therapeutics SPIE-SBMT Neurophonic Journal.

DEMONSTRATE

Your State of the art technology at one of the top brain and spinal cord conventions in the world.

ACCESS

To our scientists, engineers surgeons and physicians from multiple disciplines.

PROMOTE

Your company through multiple networking opportunities while developing business to business contacts.

COMPETITIVE ADVANTAGE

Your participation at the conference provides you the opportunity to spend quality time with leaders in the scientific community, helping get your message across more effectively.

INTERACT

With a focused & attentive audience during scientific & educational activities, such as exhibitor-hosted workshops poster sessions & other meeting activities.

MAKE THE DIFFERENCE

& reinforce your visibility beyond the exhibition area through discussion groups, workshops & hands-on courses.

ENHANCE

Your knowledge and stay updated in Industry changes and new developments.

VISIT

The beautiful city of Los Angeles and behold beautiful sights.

HANDS ON TRAINING

Train with our specialized faculty in the BioSkills Lab.

MEET FUNDING AGENCIES

Meet funding agencies Foundations Government agencies, and Industry leaders.

ATTRACT

& influence attendees at every stage of their career, from students, to entry level scientists, to acknowledged leaders in the scientific field.

RETURN ON INVESTMENT

& increase your interaction with potential investors.

COMMERCIALIZE

Your ideas.



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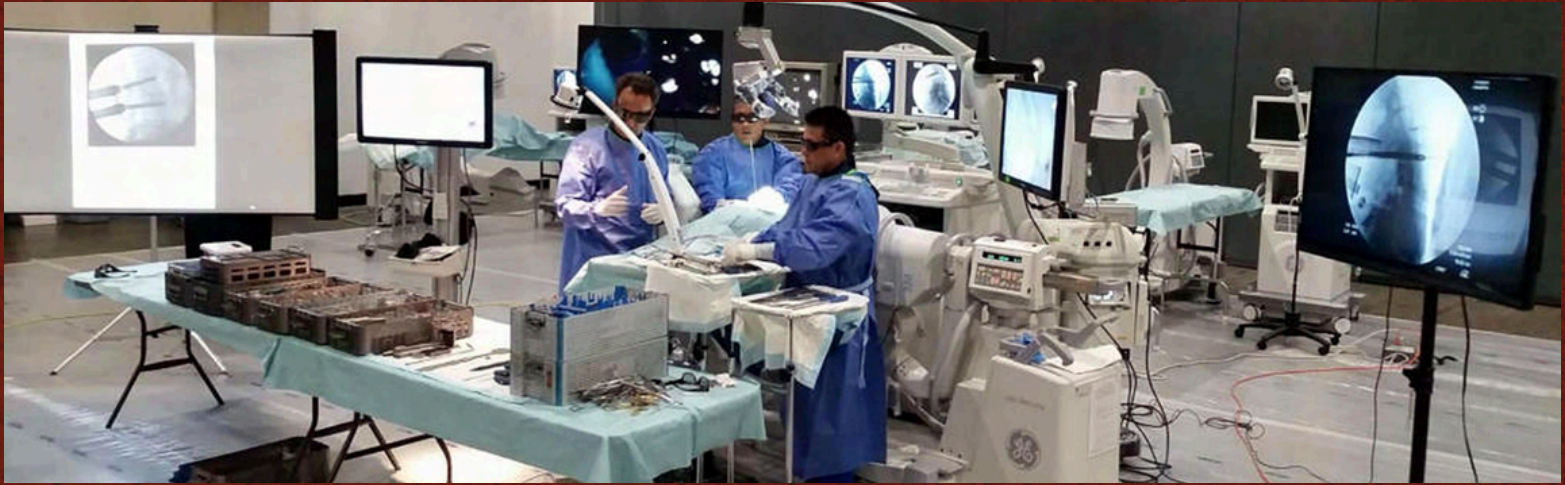




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BIOSKILLS LAB



The Neuro Vascular BioSkills Lab is designed for neurosurgeons with knowledge & experience in endoscopic surgery, neurotrauma, & /or neurovascular surgery. Short lectures and hands-on practical training will be provided to the attendees in the following areas:

- Neurotrauma
- Skull base tumor
- Aneurysm surgery
- Pineal tumor biopsy
- Colloid cyst removal
- Third ventriculostomy
- Image-guided parenchymal tumor biopsy & hematoma removal

The Spine BioSkills Lab is a hands-on practical course on cadaver to perform Lumbar OLIFs and Cervical Total Disc Replacements while teaching spine surgeons the approach & discussing indications, complications, & necessary tools. Performing the approach on a cadaver to show each step of the operation with guidance from experienced spine surgeons in a portable cadaver lab.



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THURSDAY, FEBRUARY 27, 2025

8:00 am - 9:30 am | SESSION 1: PSYCHIATRIC THERAPEUTICS FOR THE ELITE ATHLETE/MENTAL HEALTH



David Baron, DO, MEd

Provost and Senior Vice President at Western University of Health Sciences, Community Translational Research Institute, USA



Carla Edwards, MSc, MD

Assistant Clinical Professor, Department of Psychiatry and Behavioral Neurosciences at McMaster University, Canada

1:30 pm - 3:00 pm | SESSION 3: BRAIN STIMULATION AND NEUROMODULATION



Antonio Lima Júnior, MD, MS

Neuroradiologist, Research Coordinator at Neuroradiology Department at Uniclinic Imaging Diagnosis UDI (Brazil)



Pablo Coimbra, MD

Head of neuroradiology at uniclinic imaging diagnosis UDI (Brazil)





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THURSDAY, FEBRUARY 27, 2025

**10:00 am - 11:30 am | SESSION 2: INNOVATION IN AUTISM AND
DIAGNOSTIC IMAGING**



Keerthy Sunder, MD

Chief Medical Officer of Karma Doctors and Associates



Baris Metin, MD

Baris Metin, MD Üsküdar University

3:30 pm - 5:00 pm | SESSION 4: SEQUELAE IN HEAD INJURY IN SPORTS



David Baron, DO, MEd

Provost and Senior Vice President at Western University of Health Sciences, Community Translational Research Institute, USA



Carla Edwards, MSc, MD

Assistant Clinical Professor, Department of Psychiatry and Behavioral Neurosciences at McMaster University, Canada





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FRIDAY, FEBRUARY 28, 2025

8:00 am - 9:30 am | SESSION 1: SPECTRUM DISORDER CHALLENGES FACED BY UNDERSERVED POPULATION IN AUTISM



Antonio Lima Júnior, MD, MS

Neuroradiologist, Research Coordinator at Neuroradiology Department at Unclinic Imaging Diagnosis UDI, Brazil



Francis Silveira, MD

Psychiatrist, Assistant Physician at Instituto de Psiquiatria, and Consultant Psychiatrist at the Psychiatric Outpatient Clinic in Periquito, Brazil

10:00 am - 11:30 am | SESSION 2: GENOMICS, PHARMATECH, CELL-TECH, AND MED-TECH APPLICATIONS IN PSYCHIATRY



Nevzat Tarhan, MD

Professor, Department of Psychiatry, Usküdar University, Turkey



Nesrin Dilbaz, MD

Professor, Department of Psychiatry, Usküdar University, Turkey



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FRIDAY, FEBRUARY 28, 2025

1:30 pm - 3:00 pm | SESSION 3: ADVANCES IN GENOMICS, CLINICAL TRIALS AND COMMUNITY PSYCHIATRY



Thomas Schulze, MD

President Elect of World Psychiatric Association, Professor of Psychiatry and Behavioral Sciences, Upstate University, New York



Bhavna Chawda, MD

Past Presidents of the British Indian Psychiatric Association, Consultant Psychiatrist, Black Country Healthcare Foundation Trust, NHS, UK

3:30 pm - 5:00 pm | SESSION 4: TELEPSYCHIATRY AND AI IN MENTAL HEALTH



Keerthy Sunder, MD

Board member of SBMT, Clinical Faculty of UC Riverside, Department of Psychiatry, Chief Medical Officer of Karma Doctors and Associates



Turker Erguzel, PhD

Professor of Psychiatry, Department of Psychiatry, Usküdar University, Turkey





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SATURDAY, MARCH 1, 2025

8:00 am - 9:30 am | SESSION 1: THE ROLE OF COMMUNITY IN PSYCHIATRIC THERAPEUTICS



Anderson Johnson, PhD

CEO of Community Translational Research Institute, Claremont Graduate University, USA



Theodoros Koutsomitros, MD

Medical Psychotherapeutic Centre, Greek rTMS Clinic, Neuroscience Department Maastricht University

10:00 am - 11:30 am | SESSION 2: SUBSTANCE USE DISORDERS



Keerthy Sunder, MD

Board member of SBMT, Clinical Faculty of UC Riverside, Department of Psychiatry, Chief Medical Officer of Karma Doctors and Associates



Nesrin Dilbaz, MD

Professor, Department of Psychiatry, Usküdar University, TUR



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SATURDAY, MARCH 1, 2025

1:30 pm - 3:00 pm | SESSION 3: THE INTERFACE OF SCIENCE, TECHNOLOGY, MEDICINE, AND POLICY: A PSYCHIATRIC PERSPECTIVE



Carla Edwards, MSc, MD, FRCPC

Assistant Clinical Professor, Department of Psychiatry and Behavioral Neurosciences at McMaster University, Canada



Shane Creado, MD

Psychiatrist, Sleep Medicine Physician, Chairman of Membership for Board of Directors of the International Society of Sports Psychiatry, USA

3:30 pm - 5:00 pm | SESSION 4: NEUROSENSORY PROCESSING IN AUTISM AND FUNCTIONAL BRAIN ACTIVITY



Doug Major, OD, FAAO, CCHP

NORA Justice System Treatment Committee & The California Children's Vision Now Coalition.



Antonio Lima Júnior, MD, MS

Neuroradiologist, Research Coordinator at Neuroradiology Department at Unclinic Imaging Diagnosis UDI, Brazil





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SUNDAY, MARCH 2, 2025

8:00 am - 9:30 am | SESSION 1: (NAME NOT LISTED)



Carla Edwards, MSc, MD, FRCPC

Assistant Clinical Professor, Department of Psychiatry and Behavioral Neurosciences at McMaster University, Canada



David Baron, DO, MEd

Provost and Senior Vice President at Western University of Health Sciences, Community Translational Research Institute, USA

10:00 am - 11:30 am | SESSION 2: THE ROLE OF COMMUNITY IN PSYCHIATRIC THERAPEUTICS



Anderson Johnson, PhD

CEO of Community Translational Research Institute, Claremont Graduate University, USA



David Baron, DO, MEd

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SUNDAY, MARCH 2, 2025

1:30 pm - 3:00 pm | SESSION 3: THE INTERFACE OF SCIENCE, TECHNOLOGY, MEDICINE, AND POLICY: A PSYCHIATRIC PERSPECTIVE



Theodoros Koutsomitros, MD

Medical Psychotherapeutic Centre, Greek rTMS Clinic, Neuroscience Department Maastricht University



Eleanor Cole, MSc, PhD

Director of Clinical Innovation at Neuronetics

3:30 pm - 5:00 pm | SESSION 4: POLICY, ADVOCACY, AND ACTION FOR AUTISM SPECTRUM DISORDER



Antonio Lima Júnior, MD, MS

Neuroradiologist, Research Coordinator at Neuroradiology Department at Unclinic Imaging Diagnosis UDI, Brazil



Veviane Spergue

Psychologist, Neuropsychologist and Cognitive Behavioral Therapist





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Neurotechnology: BCI, Neuroengineering, Epilepsy, Ultrasound, Nanoneuroscience, Nanoneurosurgery, Mixed Reality, AI, ALS/MS Chairs and Co-Chairs: Drs. Babak Kateb, Thomas Williams, Qifa Zhou, Yousef Salimpour Fellows: Mostafa Rezayati Interns: Antonina W

Thursday, Feb 27th

Emerging Technologies and Applications in Ultrasound: Drs. Qifa Zhou, Peter Wang, Mack Yang

8:00-8:15

You Li, PhD

Vector flow velocity imaging in preterm neonatal brains using ultrasound & deep learning.

Assistant Professor - University of Texas at Dallas

8:15-8:30

Aiguo Han, PhD

A fully integrated wearable ultrasound system to monitor deep tissues in moving subjects

Assistant Professor - Virginia Tech

8:30-8:45

Muyang Lin, PhD

A fully integrated wearable ultrasound system to monitor deep tissues in moving subjects

Postdoctoral Scholar - University of California San Diego



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Thursday, Feb 27th

Emerging Technologies and Applications in Ultrasound: Drs. Qifa Zhou, Peter Wang, Mack Yang

8:45-9:00

Zhengchang Kou, PhD

High Resolution Functional Ultrasound Imaging of Rodents Brain without Contrast Agents

Postdoctoral Scholar - University of Illinois at Urbana-Champaign

9:00-9:15

Qifa Zhou, PhD

Ultrasound stimulation to eye and heart

Professor - University of Southern California

9:15 - 9:30

Question and Answer

9:30 - 10:00

30min. Coffee & Tea Break



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Thursday, Feb 27th

Space flight Risks to the Brain & the Potential for Neuromodulation strategies to mitigate them- Chairs: Thomas Williams

10:00-10:15

Dr. Tom Williams, Ph.D.

Neuromodulation Risks, Interventions, and Opportunities Associated with Spaceflight Hazards

Behavioral Health & Performance Operations Johnson Space Center Houston, TX

10:15-10:30

Dr. Emmanuel Urquieta, M.D.

Anatomic and Functional Brain Changes in Spaceflight Analogs

Vice Chair of Aerospace Medicine Associate Professor Department of Medicine University of Central Florida College of Medicine Health Sciences Campus at Lake Nona 6850 Lake Nona Blvd. Orlando, FL 32827-7408

10:30-10:45

Victor Vergara, MS, Anna Cejka, PhD, Jim Picano, PhD

Longitudinal Neurocognitive Surveillance of High-Performance Aviators

Clinical Psychology Intern at NASA and Psychology PhD Student at the University of Houston, Houston, TX Behavioral Health & Performance Space Medicine Operations Division NASA, Johnson Space Center



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Thursday, Feb 27th

Space flight Risks to the Brain & the Potential for Neuromodulation strategies to mitigate them- Chairs: Thomas Williams

10:45-11:00

Farha Anjum, MD

The Potential for TMS to Have Positive Effects on Astronauts

11:00-11:15

Dr. Matthew Antonucci

Gravity's Influence on Neurological Integration: Implications for Spaceflight and Beyond

Matthew M. Antonucci, DC, DACNB, FACFN, FABBIR, FICC Clinician, Carrick Institute
NeuroSynergy Associates, PA Florida

11:15-11:30

Question and Answer

11:30 - 1:30

Presidential Plenary Keynote



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Thursday, Feb 27th

Neurophotonics - Large-Scale Brain Imaging - Co-chair: Rui Cao and Fei Xia

1:30-1:45

Che-hang Yu, PhD

Large field of view multiphoton microscopy for mouse brain imaging

Postdoc - UCSB

1:45-2:00

Weijian Yang, PhD

High-speed short-line-excitation two-photon microscopy to image brain activity

Associate Professor - UC Davis

2:00-2:15

David Prober, PhD

Whole-brain two-photon light sheet imaging of zebrafish brain during sleep & wakefulness

Professor - Caltech

2:15-2:30

Lamiaa Abdeladim, PhD

Optical brain interface: combining large scale Mesoscopic imaging with photo stimulation

Postdoc - UC Berkeley



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Thursday, Feb 27th

Neurophotonics - Large-Scale Brain Imaging - Co-chair: Rui Cao and Fei Xia

2:30 - 2:45

Guosong Hong, PhD

Featured Speaker - A method to achieve transient optical transparency in live mice with absorbing molecules

Assistant Professor - Stanford

2:45-3:00

Question and Answer

3:00-4:00

30min. Coffee & Tea Break



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Thursday, Feb 27th

Bioelectronics Brain Interface-Chairs: Guosong Hong

4:00-4:15

Walter Voit, PhD

Softening Bioelectronics with Shape Fixity

Associate Professor - UT Dallas

4:15-4:30

Yuanwen Jiang, PhD

Material strategies for chronically-stable, high-precision bioelectronic interfaces

Assistant Professor - University of Pennsylvania

4:30-4:45

Fatima Alrashdan, PhD

Wireless Magnetolectric Bioelectronics

Postdoctoral Fellow - Rice University

4:45-5:00

Xiao Yang, PhD

Bioinspired electronics for brain-machine interface

Assistant Professor - Johns Hopkins University





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Thursday, Feb 27th

Bioelectronics Brain Interface-Chairs: Guosong Hong

5:00-5:15

Xiang Wu, PhD

Engineering optical bidirectional neural interfaces

Postdoctoral Fellow - Harvard University

5:15-5:30

Question and Answer

5:30-6:30

Presidential Plenary Keynote

7:00-9:00

Opening Reception



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Friday, Feb 28th

Innovative and Wearable Ultrasound Transducers and Systems - Co-Chair: Drs. Quifa Zhou, Peter Wang, Mack Yang

8:00-8:15

Huiliang Wang, PhD

Long-Term Stable and Miniaturized Ultrasound Transducer System for Wearable Neuromodulation

Assistant Professor - University of Texas at Austin

8:15-8:30

Jae Youn Hwang, PhD

Machine learning-based ultrasound hologram stimulation for precise neuromodulation

Professor - Daegu Gyeongbuk Institute of Science & Technology

8:30-8:45

Sai Zhou, PhD

Wearable ultrasound device for brain monitoring

Postdoctoral Scholar - University of California San Diego



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Friday, Feb 28th

Innovative and Wearable Ultrasound Transducers and Systems - Co-Chair: Drs. Quifa Zhou, Peter Wang, Mack Yang

8:45-9:00

Christopher Michael Puleo, PhD

New Opportunities to Use Ultrasound as a Translational Mapping Tool of Visceral Sensations

Associate Professor - Rensselaer Polytechnic Institute

9:00-9:15

Sheng Xu

TBD

9:15 - 9:30

Huiliang Wang, PhD

Long-Term Stable and Miniaturized Ultrasound Transducer System for Wearable Neuromodulation

Assistant Professor - University of Texas at Austin

5:30-6:30

30min. Coffee & Tea Break



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Friday, Feb 28th

Neurophotonics - Deep Brain Imaging - Co-chair: Rui Cao and Fei Xia

10:00-10:15

Yousuf Aborahama, PhD

Aberration correction for transcranial photoacoustic imaging

Postdoc Scholar - Caltech

10:15-10:30

Fei Xia, PhD

Multiphoton Deep Brain Imaging with more diverse insight

Incoming Assistant Professor - UCI

10:30-10:45

Bijan Pesaran, PhD

Multiregional calcium imaging in the non-human primate brain

Professor - Upenn

10:45-11:00

Xiaojun Cheng, PhD

Mapping human cerebral blood flow and brain function using speckle contrast optical spectroscopy

Research Assistant Professor - BU



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Friday, Feb 28th

Neurophotonics - Deep Brain Imaging - Co-chair: Rui Cao and Fei Xia

11:00-11:15

Baohong Yuan, PhD

Ultrasound-switchable Fluorescence Imaging in Deep Tissue

Professor - UT Arlington

11:15-11:30

Q&A

11:30 - 1:30

Presidential Plenary Keynote



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Friday, Feb 28th

Brain-Computer Interface (BCI)- Co-chair: Vasileios Christopoulos, David Bjanec Anqi Zhang

1:30-1:45

Whitney Griggs

A Functional Ultrasound Brain-Machine Interface: From Monkey to Human

MD-PhD Student - UCLA

1:45-2:00

Matiar Jafari, MD, PhD

Neural correlates of Sensorimotor Control in Human Cortex

Neurosurgery Resident - UCLA

2:00-2:15

Srinivas Chivukula, MD, PhD

An Internal Model of Touch in Human Posterior Parietal Cortex

Assistant Professor - UT Southwestern

2:15-2:30

Erfan Nozari, PhD

Improved seizure forecasting in medial temporal lobe epilepsy via predictive modeling of intracranial EEG

Assistant Professor - UC Riverside



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Friday, Feb 28th

Brain-Computer Interface (BCI)- Co-chair: Vasileios Christopoulos, David Bjanec Anqi Zhang

2:30-2:45

Sofia Sakellaridi, PhD

Decoding micturition from the brain & spinal cord using functional ultrasound imaging (fUSI)

Research Scientist - USC

2:45-3:00

Q&A

3:00 - 4:00

Poster and Exhibition Hall visit



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Friday, Feb 28th

Nanoparticles for gene delivery Co-Chairs: Dr. Guosong Hong

4:00-4:15

Niren Murthy, PhD

Acid degradable lipid nanoparticles deliver mRNA to the brain efficiently

Professor - UC Berkeley

4:15-4:30

Qi Cai, PhD

Leveraging Inverse Piezoelectric Effect To Potentiate Drug Delivery Across The Blood-Brain Barrier

Assistant Professor - Louisiana State University

4:30-4:45

Zhenpeng Qin, PhD

Minimally invasive therapeutic delivery to the spinal cord

Associate Professor - UT Dallas

4:45-5:00

Xiaoqian Ge, PhD

In vivo peptide-mediated neuron-specific targeting and molecular delivery

Postdoctoral Fellow - UT Dallas



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Friday, Feb 28th

Nanoparticles for gene delivery Co-Chairs: Dr. Guosong Hong

5:00-5:15

Yi Zhang, PhD

Surface-coated aptamer-based biosensors for long-term molecular monitoring in complex biological environments

Associate Professor - University of Connecticut

5:15-5:30

Q&A

5:30-6:30

Presidential Plenary Keynote



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Saturday, Mar 1st

**Brain-Computer Interface (BCI) - Co-chair:
Drs. Vasileios Christopoulos, David Bjanec, Anqi Zhang**

8:00-8:15

Zoran Nenadic, PhD

Neurostimulation after stroke: neural circuit mapping and treatment

Professor - UC Riverside

8:15-8:30

Amol Yadav, PhD

TBD

Assistant Professor - University of North Carolina at Chapel Hill

8:30-8:45

Ramana Vinjamuri, PhD

Towards Decoding Deception: Exploring Neural Correlates of Concealed Information with Noninvasive EEG

Associate Professor - University of Maryland

8:45-9:00

Shahan Vahdat, PhD

Neurostimulation after stroke: neural circuit mapping and treatment

Assistant Professor - UC Riverside



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Saturday, Mar 1st

**Brain-Computer Interface (BCI) - Co-chair:
Drs. Vasileios Christopoulos, David Bjanec, Anqi Zhang**

9:00-9:15

Dong Song, PhD

Combining AI with BCI to Build Cognitive Protheses

Associate Professor - USC

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Drs. Vasileios Christopoulos, David Bjanes, Anqi Zhang**

10:00-10:15

Elena Kokkoni, PhD

TBD

Assistant Professor - UC Riverside

10:15-10:30

HyeongChan Jo, PhD

Multiregional human brain dynamics during direct electrical stimulations

Postdoctoral fellow - USC

10:30-10:45

Sook-Lei Liew, PhD

Non-Invasive Brain and Muscle Computer Interfaces for Stroke Recovery

Associate Professor - USC

10:45-11:00

Varum Wadia, PhD

A shared code for perceiving and imagining objects in human ventral temporal cortex

Postdoctoral fellow - Cedars Sinai



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Saturday, Mar 1st

**Brain-Computer Interface (BCI) - Co-chair:
Drs. Vasileios Christopoulos, David Bjanec, Anqi Zhang**

11:15-11:30

Q&A

11:30-1:30

Presidential Plenary Keynote



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Saturday, Mar 1st

Microfluidics for Cancer Research and Cell Engineering - Co-Chairs: Song Li, Abraham Lee

1:30-1:45

Abraham Lee, PhD

Microfluidic cell engineering for cancer immunotherapies

Professor, Department of Biomedical Engineering, UC Irvine

1:45-2:00

Dino DiCarlo, PhD

Lab on a particle technology for discovery of immunotherapies

Professor, Department of Bioengineering, University of California, Los Angeles

2:00-2:15

Amy Rowat, PhD

Identifying targets for cancer therapeutics using high throughput, microfluidic-based screening of cell deformability

Professor, Integrative Biology and Physiology, University of California Los Angeles

2:15-2:30

Elliot Botvinick

Droplet microfluidics for cell- and organoid-based drug screening

Professor, Department of Biomedical Engineering, University of California, Irvine



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Saturday, Mar 1st

Microfluidics for Cancer Research and Cell Engineering - Co-Chairs: Song Li, Abraham Lee

2:30-2:45

Song Li

Microfluidic Manufacturing of Artificial Cells to Enhance CAR-T therapy

Professor, Department of Bioengineering, University of California, Los Angeles

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall visit



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Saturday, Mar 1st

Neurophotronics - Miniatured Optical Imaging - Co-Chairs: Rui Cao and Fei Xia

4:00-4:15

Jingyi Wang

Miniaturized Head-mount Doppler Optical Coherence Tomography Scope for Freely Moving Mouse

PhD Student - UCI

4:15-4:30

Rafael Piestun, PhD

Miniaturized brain imaging with multimode fiber

Professor - CU boulder

4:30-4:45

Chen Yang, PhD

High precision photoacoustic neural stimulation

Professor - Boston University

4:45-5:00

Song Hu, PhD

PRIME: A Single-Fiber Technique for 3D-Resolved, High-Density Neural Stimulation and Recording

Professor - WUSTL



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Saturday, Mar 1st

**Neurophotronics - Miniatured Optical Imaging - Co-Chairs:
Rui Cao and Fei Xia**

5:00-5:15

Yide Zhang, PhD

Single-Shot 3D Photoacoustic Imaging using a Single-Element Detector

Incoming Assistant Professor - CU boulder

5:15-5:30

Q&A

5:30-6:30

Presidential Plenary Keynote

7:30-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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Sunday, Mar 2nd

Neurophotonics - Label-Free Imaging - Co-Chairs: Rui Cao and Fei Xia

8:00-8:15

Daryl C Preece, PhD

Quantitative Phase Imaging of Astrocyte Damage Induced by Laser Shockwaves

Assistant Professor - UCI

8:15-8:30

Veronica Gomez-Godinez, PhD

From Shockwaves to Neuroprotection: Investigating TBI with Laser Technology

Project Scientist - UCSD

8:30-8:45

Max Huang

Correlating Stroke Risk with Non-Invasive Cerebrovascular Perfusion Dynamics using Portable Speckle Contrast Optical Spectroscopy Device

PhD Student - Caltech

8:45-9:00

Ji Yi, PhD

OCT and Light Sheet for imaging eyes and brain

Associate Professor - John Hopkins



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Sunday, Mar 2nd

Neurophotonics - Label-Free Imaging - Co-Chairs: Rui Cao and Fei Xia

9:00-9:15

Katie Matho, PhD

Neuroscience study enabled by multiphoton imaging

Postdoc - Cold Spring Harbor

9:15 - 9:30

Q&A

9:30 - 10:00

30min. Coffee & Tea Break



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Sunday, Mar 2nd

Neuromodulation with Light, Ultrasound, and Magnetic Field Co-Chairs: Dr. Guosong Hong

10:00-10:15

Chunlei Liu, PhD

Fully Genetically-Encoded Magnetic Modulation of Neurons

Professor - UC Berkeley

10:15-10:30

Yifan Dai, PhD

Phase Transition-dependent Regulation of Intracellular Electrochemistry

Assistant Professor - Washington University at St. Louis

10:30-10:45

Shirin Shivaiei, PhD

Ultrasound Imaging of in situ Gene Expression in the Brain

Postdoctoral Fellow - Caltech

10:45-11:00

Zihao Ou, PhD

Noninvasive Deep-Tissue Imaging in Live Animals Using Transient Optical-Clearing

Assistant Professor - UT Dallas



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Sunday, Mar 2nd

Neuromodulation with Light, Ultrasound, and Magnetic Field Co-Chairs: Dr. Guosong Hong

11:00-11:15

Marigold Malinao, PhD

A Minimally Invasive Light Source Enabled by the Circulatory System and Near-Infrared Stimulated Luminescence

Postdoctoral Fellow - Stanford University

11:15-11:30

Q&A

11:30 - 1:30

Presidential Plenary Keynote



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Sunday, Mar 2nd

Advances in Ultrasound Neuromodulation- Chair: Drs. Qifa Zhou, Peter Wang, Mack Yang

1:30-1:45

Lei Sun, PhD

Ultrasound neuromodulation with high precision

Professor - The HongKong Polytechnic University

1:45-2:00

Keith R. Murphy, PhD

Optimized ultrasound neuromodulation for non-invasive control of behavior and physiology

Co-Founder - Attune Neurosciences, Inc

2:00-2:15

Tommaso Di Ianni, PhD

Toward precision psychiatry: Advances in ultrasound neuroimaging and neuromodulation

Assistant Professor - UCSF

2:15-2:30

Sreekanth H. Chalasani, PhD

Remote control of neurons

Professor - Salk Institute for Biological Studies



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Sunday, Mar 2nd

Advances in Ultrasound Neuromodulation- Chair: Drs. Qifa Zhou, Peter Wang, Mack Yang

2:30-2:45

Jan Kubanek, PhD

Site-specific therapeutics for noninvasive neuromodulation

Assistant Professor - University of Utah

2:45-3:00

Zhimin Huang, PhD

Noninvasive deep brain stimulation

Assistant Professor - University of Pittsburgh

3:00 - 4:00

Poster and Exhibition hall visit



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Sunday, Mar 2nd

AI and Computational methods in Neuromodulation: Chair: Huiliang (Evan) Wang, Yi-kai Lo

4:00-4:15

Jin Hyung Lee

AI and the Future of Brain Health

Associate Professor, Stanford University

4:15-4:30

Feng Guo

Acoustofluidic patches guided by AI for neural applications

Associate professor, Indiana bloomington

4:30-4:45

Edgar Peña

Validating physics-based models of evoked compound action potentials

Assistant Professor, University of Minnesota

4:45-5:00

Joshua Chang

Optimization of stimulus waveforms for electroceutical therapies

Assistant Professor, UT Austin



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Sunday, Mar 2nd

AI and Computational methods in Neuromodulation: Chiar: Huiliang (Evan) Wang, Yi-kai Lo

5:00-5:15

Yi-Kai Lo

Advancing SCI Treatment with Non-Invasive Spinal Stimulation - Translating applied research to functional improvement

CEO, ANEUVO

5:15-5:30

5:30-6:30



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2025 Military Medicine and Veteran Health Track & Neurotrauma Chairs and Co-Chairs:
Dr. Michael Roy, Dr. David Keyser Research Scientist: Dr. Kevin Morris
Fellows: Interns: Antonina Wiewior

MMN-1/A

Thursday, Feb 27th

New Blood/Saliva/Hair Biomarker Findings in TBI, SCBE and PTSD

8:00-8:15

Miranda Lim, MD, PhD

Introduction and Overview of the Biomarker Field: What's on the Horizon?

Staff Neurologist and Associate Director of Research & Co-Associate Director of Education,
VA VISN20 Northwest Mental Illness Research Education Clinical Center (MIRECC), VA
Portland Health Care System, Portland, OR.

8:15-8:30

Sarah Mithani, PhD

Utility of Blood Biomarkers in Understanding Biological Mechanisms & Clinical Symptoms in TBI

UT Health San Antonio School of Nursing, San Antonio, TX

8:30-8:45

**Mingxiong Huang, PhD or Juan Piantino, MD Oregon
Health & Science University**

Cerebral Perivascular Spaces, at the Crossroads Between Neuroinflammation and Solute Clearance in Blast-Exposed Veterans

University of California San Diego



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Dr. Michael Roy, Dr. David Keyser Research Scientist: Dr. Kevin Morris
Fellows: Interns: Antonina Wiewior

MMN-1/A

Thursday, Feb 27th

New Blood/Saliva/Hair Biomarker Findings In TBI, SCBE and PTSD

8:45-9:00

Bryce Mander, PhD Associate Professor, University of California Irvine
Keynote (30 min)

**New methods to detect neurodegenerative proteins in saliva related
to sleep in older adults**

9:15-9:30

Q & A - Session Discussion

9:30-10:00

30min. Coffee & Tea Break



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MMN-2/A

Thursday, Feb 27th

Motion-assisted, Multi-modular Memory Desensitization and Reconsolidation (3MDR) Therapy for PTSD

10:00-10:15

Eric Vermetten, MD, PhD

Updated Results of 3MDR Therapy in Patients in The Netherlands, and Lessons Learned

Leiden University Medical Center

10:15-10:30

Eric Vermetten, MD, PhD

In Vivo Exposure with the Dutch Military in Bosnia

10:30-10:45

Michael J. Roy, MD, MPH, Colonel (Retired), U.S. Army

Computer Monitor versus Augmented Reality, Expanding delivery of 3MDR Therapy for PTSD: A Randomized Controlled Trial (CARE4PTSD Study)

Uniformed Services University, Bethesda, MD



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MMN-2/A

Thursday, Feb 27th

Motion-assisted, Multi-modular Memory Desensitization and Reconsolidation (3MDR) Therapy for PTSD

10:45-11:00

Eric Vermetten, MD, PhD

In Vivo Therapy for Posttraumatic Stress Disorder with Dutch Veterans in Serbia

Leiden University Medical Center

11:00-11:15

Vrajeshri Ordek, NHRC

Understanding Mechanisms of 3MDR Therapy Through Heart Rate and Cortisol Monitoring

11:15-11:30

Q & A - Session Discussion

11:30-1:30

Presidential Planary Keynote



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MMN-3/A

Thursday, Feb 27th

Advances in Virtual Reality and Augmented Reality

1:30-1:45

Jeffrey Gold, PhD

The Role of Virtual and Augmented Reality in Pain Management

University of Southern California

1:45-2:00

Skip Rizzo, PhD

Expanding the Role of VR Exposure Therapy: Development and Feasibility Testing of a Military Sexual Trauma Application and Beyond

University of Southern California

2:00-2:15

Sharon Mozgai, PhD

Battle Buddy: A Virtual Human Enabled Mobile App to Address Veteran Wellness and Suicide Prevention

University of Southern California



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MMN-3/A

Thursday, Feb 27th

Advances in Virtual Reality and Augmented Reality

2:15-2:30

Pedro Gamito, PhD

Post-Traumatic Stress Symptoms and Decision-Making in First Responders: A Virtual Reality Simulation

University Lusofona

2:30-2:45

2:45-3:00

Q & A - Session Discussion

3:00-4:00

Poster and Exhibition Hall visit



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MMN-4/A

Thursday, Feb 27th

Reconsolidation of Traumatic Memories Therapy for PTSD

4:00-4:15

Frank Bourke, PhD

Development of the Reconsolidation of Traumatic Memories Protocol

Cornell University, NY.

4:15-4:30

Rick Gray, PhD

Conducting the Initial Clinical Trials with Reconsolidation of Traumatic Memories, a novel intervention for PTSD

Research & Recovery Project, Cornell, NY

4:30-4:45

Michael Roy, MD, MPH

RECONsolidation of Traumatic Memories to ResOLve Posttraumatic Stress Disorder (RECONTROL) Study

Uniformed Services University, Bethesda, MD



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MMN-4/A

Thursday, Feb 27th

Reconsolidation of Traumatic Memories Therapy for PTSD

4:45-5:00

Jeffrey David Lewine, Ph.D.

Quantitative EEG Markers of Post-Traumatic Stress Disorder: Baseline Observations and Impact of the Reconsolidation of Traumatic Memories (RTM) Treatment

University of New Mexico Director of Research, Beyond Barriers Therapeutics, Albuquerque, NM

5:00-5:15

Loree Sutton, MD,

How to Foster Adoption of a Novel PTSD Therapy in the DoD and VA

US Army

5:15-5:30

Q & A - Session Discussion

5:30-6:30

Presidential Plenary Keynote

7:00-9:00

Opening Reception



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MMN-5/B

Friday, Feb 28th

Subconcussive Head Injury in Athletes and Service Members

8:00-8:15

Elsa Ermer, PhD

The NCAA-DoD CARE-SALTOS Integrated Study: Updates on the Military Service Academy and Explosive Ordnance Disposal Cohorts

8:15-8:45

Michael McCrea, PhD, ABPP

(Featured Speaker) TBI Biomarkers: Emerging Evidence and Pathway to Clinical Translation

Research & Recovery Project, Cornell, NY

8:45-9:00

Vernon B. Williams, MD, F.A.A.N

Use of Digital Therapeutics in Athletes with Repetitive Subconcussive Head Injury

Center for Sports Neurology & Pain Medicine Cedars-Sinai Kerlan-Jobe Institute



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MMN-4/A

Thursday, Feb 27th

Reconsolidation of Traumatic Memories Therapy for PTSD

9:00-9:15

Nikki Barczak-Scarboro, PhD

Methodological Considerations for Subconcussive Head Trauma Measurement

9:15-9:30

Q & A - Session Discussion

9:30-10:00

Coffee Break



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MMN-6/B

Friday, Feb 28th

Brain Impact of Subconcussive Blast Exposure in Military Service Members

10:00-10:15

David O. Keyser, PhD

Investigating Training-Associated Blast Pathology: The INVICTA Study

Department of Military and Emergency Medicine and Military Traumatic Brain Injury Initiative, Uniformed Services University School of Medicine

10:15-10:30

Suthee Wiri, PhD

Blast Gauge Assessment of Subconcussive Blast Exposure in Military Units

Applied Research Associates, Albuquerque, NM

10:30-10:45

Rika Carlsen, Ph.D.

Quantifying Blast Safety Limits to Prevent Sub-concussive Traumatic Brain Injury During Heavy Weapons Training

Robert Morris University



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MMN-6/B

Friday, Feb 28th

Brain Impact of Subconcussive Blast Exposure in Military Service Members

10:45-11:00

Adam Bartsch, PhD

Monitoring Blast and Blunt Forces Using a Single Body Worn Device

Prevent Biometrics, Minneapolis, MN

11:00-11:15

Jason Bailie, PhD

**Understanding the Long-Term Impact of Blast Exposure on Cognitive and
Psychiatric Functioning**

Naval Hospital Camp Pendleton, Intrepid Spirit Center

11:30-1:30

Presidential Plenary Keynote



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MMN-7/B

Friday, Feb 28th

Improving the Prevention and Treatment of Traumatic Brain Injury

1:30-1:45

Leanne Young, PhD

Illuminating Cognitive Performance: Assessing the Role of transcranial photobiomodulation (tPBM) in augmenting Cognition

Applied Research Associates, Inc.

1:45-2:00

Brad Dengler, MD, LTC, US Army

Development of Clinical Practice Guidelines for Penetrating TBI (?)

USUHS

2:00-2:15

Dr. Yashar Rahimpour

DTI / Neuroimaging - Localization of tx targets for TBI

Robert Morris University



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MMN-7/B

Friday, Feb 28th

Improving the Prevention and Treatment of Traumatic Brain Injury

2:15-2:30

Sarka Southern, PhD

Salivary Biomarkers in TBI and Neurodegenerative Conditions

2:30-2:45

Alexander Ring, B. S.

Alpha guided neuromodulation in a military population

Wave Neuroscience

2:45-3:00

Q & A - Session Discussion

3:00-4:00

Poster and Exhibition Hall visit



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MMN-8/B

Friday, Feb 28th

Advances in Neuroimaging Relative to TBI, SCBE and CTE

4:00-4:15

Daniel Perl, MD

Neuropathologic Similarities and Differences Between Athletes and Military Veterans

Brain Bank, Uniformed Services University

4:15-4:30

Daniel Benjamini, PhD

Moving Beyond Diffusion Tensor Imaging: What is the best way to Demonstrate the Impact of Blast Exposure on the Brain

NIH

4:30-4:45

Doug Morris, Ph.D.

The MAGNUS and Distinguishing the Impact of Blast in Military Service Members

4:45-5:00

Vince Ho, MD

Enhancing the Power of Neuroimaging to Document Unique Military Exposures on Neuroanatomy



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MMN-8/B

Friday, Feb 28th

Advances in Neuroimaging Relative to TBI, SCBE and CTE

4:45-5:00

Vince Ho, MD

Enhancing the Power of Neuroimaging to Document Unique Military Exposures on Neuroanatomy

5:00-5:15

Leighton J Reynolds, MD

The Complex Architecture of a Traumatic Brain Injury

5:15-5:30

Q & A - Session Discussion

5:30-6:30

Presidential Plenary Keynote



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MMN-9/C

Saturday, Mar 1st

Lessons Learned from the Ukraine War: A Panel Discussion

8:00-8:15

Kateryna Potapova, MD

PANEL DISCUSSION

Bogomolets National Medical University, Kyiv, Ukraine

8:15-8:30

Sirko Cherednichenko

PANEL DISCUSSION

8:30-8:45

Tsybalenko National Neurosurgery Institute Ramadanova, Kyiv

PANEL DISCUSSION

8:45-9:00

Voznitsina

PANEL DISCUSSION

9:00-9:15

**Speaker from Med department, Ministry of health of
Ukraine (due to safety reason name can't be published now)**

9:15-9:30

Q & A - Session Discussion

9:30-10:00

Coffee Break



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MMN-10/C

Saturday, Mar 1st

Lessons Learned from the Gaza War

10:00-10:15

Adam Hamawy, MD MBA FACS

Combat Trauma and Rehabilitation in Gaza

PrincetonMD Institute, Penn Medicine Princeton Medical Center

10:15-10:30

Abigail Livny, PhD.

Advanced neuroimaging for TBI and Phantom Pain

Co-Founder & CSO CoPilotMD Co-Founder & CSO Inkognito Health

10:30-10:45

Raquel C. Gardner, MD

Traumatic Brain Injury in Operation Iron Swords

10:45-11:00

Alisa Sheldon

Perspective on Brain Injury from Inside the Israeli Defense Force

IDF



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MMN-10/C

Saturday, Mar 1st

Lessons Learned from the Gaza War

11:00-11:15

Feroze Sidhwa, MD, MPH, FACS, FICS

Gaza's Warzone Medicine: What Sets It Apart

San Joaquin General Hospital

11:15-11:30

David Hassan, MD, MSc,

Neuro-trauma Case reports from Gaza

Duke University Medical School

11:30-1:30

Presidential Plenary Keynote



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MMN-11/C

Saturday, Mar 1st

Brain Health in Women Service Members and Veterans, Session 1

1:30-1:50

Maheen Mausoo Adamson, PhD, MHL

Sex/Gender differences in TBI: A perspective from Veteran and active-military research

Research Director, WOMEN CoE, VA Palo Alto Health Care System Senior Scientist, Rehabilitation, VA Palo Alto Healthcare System Clinical Professor, Neurosurgery (Affiliated), Stanford University School of Medicine

1:50-2:10

Colleen Mills-Finnerty, PhD

Gender Disparities in TBI Outcomes in Women Veterans

Women's Operational Military Exposure Network Palo Alto Veterans Administration Instructor (Affiliated) Stanford University Dept. of Psychiatry and Behavioral Sciences

2:10 - 2:30

Leah Eizadi, MSN, FNP-C

Implementation and Preliminary Findings of the Women's Health Addendum





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MMN-11/C

Saturday, Mar 1st

Lessons Learned from the Gaza War

2:30 - 2:50

Michael J. Roy, MD, MPH

Preliminary Findings from the Baseline Longitudinal Study of EOD Males and Females for Alterations in Symptoms, Intellectual and Sensory function

Uniformed Services University

2:50 - 3:00

Q & A - Session Discussion

3:00-4:00

Poster and Exhibition Hall visit



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MMN-12/C

Saturday, Mar 1st

Brain Health in Women Service Members and Veterans, Session 2

4:00 - 4:20

Jennifer Jennings, MD

Impact of Military Environmental Exposures on Women Veterans Health

WOMEN CoE, VA Palo Alto Healthcare System

4:20 - 4:40

Terra D. Vincent-Hall, PhD, DABT

The Effects of Jet Fuel Exposure in the Military on the Mental Health of Women Veterans: Analyses from the VA's LIFE Study

Department of Veterans Affairs

4:40 - 5:00

Maxine H. Kregel, Ph.D.

Women Veterans from the Boston Biorepository and Integrative Network for Gulf War Illness: Exposures, Neuroimaging and Cognitive Outcomes

VA Palo Alto Boston University Chobanian and Avedisian School of Medicine



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MMN-12/C

Saturday, Mar 1st

Brain Health in Women Service Members and Veterans, Session 2

5:00 - 5:20

Randi Brown, PhD Candidate

Does Transcranial Magnetic Stimulation work as well in Women as it does in Men?

5:20 - 5:30

Q & A - Session Discussion

5:30-6:30

Presidential Plenary Keynote

7:30-12:30

22nd annual World Brain Mapping Foundation Gathering for Cure Gala



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MMN-13/D

Sunday, Mar 2nd

Applications of Machine Learning and Artificial Intelligence to Improve the Brain Health of Service Members and Veterans

8:00-8:15

Christopher Smalt, PhD

Wearable Neurophysiologic Monitoring Technologies for Assessing Brain Health

8:15-8:30

Yuk Sham, PhD

Improving Classification of Traumatic Brain Injury with Brain Imaging Segmentation and Protein Biomarker Levels

8:30-8:45

Richard Fletcher, PhD

Machine Learning Based Digital Interventions for Drug Addiction and Recovery: Past and Present Work

MIT



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MMN-13/D

Sunday, Mar 2nd

Applications of Machine Learning and Artificial Intelligence to Improve the Brain Health of Service Members and Veterans

8:45-9:00

Uzma Samadani (VA)

Adding Insight to Injury: Eye Tracking Detects Alterations in Cranial Nerve 2-7 Function After Concussion

WOMEN CoE, VA Palo Alto Healthcare System

9:00-9:15

Yuk Sham, PhD

Preliminary Analysis of the INVICTA Study Using Machine Learning

University of Minnesota

9:15-9:30

Q & A - Session Discussion

9:30-10:00

Coffee Break



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MMN-14/D

Sunday, Mar 2nd

Military Applications of Digital Diagnostics and Therapeutics

10:00-10:15

Polemnia Amazeen, PhD

Think Ahead! Best Design Practices to Facilitate Analysis of Multiscale Multimodal Data

Arizona State University

10:15-10:30

Jayci Landfair, PhD Student

Using Eye Tracking to Assess Team Process: Pupil Diameter Dynamics as a Measure of Synchronization in Action Teams

Arizona State University

10:30-10:45

Emmanuel Espejo, PhD

Using a Digital Clinical Decision Support Platform to Treat Insomnia in Service Members with TBI

Naval Health Research Center, San Diego, CA to Boston University Chobanian and Avedisian School of Medicine



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MMN-14/D

Sunday, Mar 2nd

Military Applications of Digital Diagnostics and Therapeutics

10:45-11:00

Vrajeshri Ordek, PhD

Shipboard Physiological Monitoring during Mental Strength and Resilience Training

Naval Health Research Center, San Diego, CA

11:00-11:15

Sangram Redkar, PhD

Pulse Oximetry, EKG, and Respiration data fidelity for a custom-molded in-ear Wearable Device

Arizona State University

11:15-11:30

Q & A - Session Discussion

11:30-1:30

Presidential Plenary Keynote



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MMN-15/D

Sunday, Mar 2nd

Sleep Disorders in Military Service Members and Veterans

1:30-1:45

J. Kent Werner, MD, PHD

Sleep, TBI and Glymphatic Waste Clearance

Uniformed Services University, Bethesda, MD

1:45-2:00

Vincent F. Capaldi, II, Sc.M., M.D., DFAPA, FACP, FAASM

Using Army STARRS Data to Evaluate Predeployment and Deployment-Related Risk and Resilience for Insomnia in Military Personnel

Uniformed Services University, Bethesda, MD

2:00-2:15

Cameron Good, PhD

Use of focused ultrasound to modulate the thalamus and sleep/wake states

Attune Neuroscience



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MMN-15/D

Sunday, Mar 2nd

Sleep Disorders in Military Service Members and Veterans

2:15-2:30

Tentative Acceptance of Featured Speaker Slot:
Rachel Markwald, NHRC, San Diego

Comparison of Digital Devices for Documenting Sleep

2:30-2:45

TBD

2:45-3:00

Q & A - Session Discussion

3:00-4:00

Poster and Exhibition visit



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MMN-16/D

Sunday, Mar 2nd

**Nanoneurosurgery - Co-Chairs: Drs. Babek Kateb,
Kevin Morris, & John Heiss**

4:00-4:15

4:15-4:30

4:30-4:45

4:45-5:00

5:00-5:15

5:15-5:30

5:30-6:30



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NeuroPsychiatry and Innovation (Autism track added here) Chairs and Co-Chairs: Dr. David Baron, Dr. Keerthy Sunder, Dr. Türker Tekin Ergüzel, Dr. Carla Edwards (Autism Dr. Antonio Lima) Fellows: Sara L Hassani, Japjee Parmar (Autism - Putri Caesa, Mostafa) Interns: Nima Shirazi (Autism - Ria)

PSY-1/A

Thursday, Feb 27th

Psychiatric Therapeutics for the Elite Athlete/Mental Health

8:00-8:15

Carla Edwards, MSc, MD

Sports Psychiatry: Heavy Lifting Behind the Scene of Sport

McMaster University

8:15-8:30

Dr. Shane Creado

The Role of Sleep in Sports Psychiatry

Board of Directors of the International Society for Sports Psychiatry

8:30-8:45

Pamela Weatherbee MD, FRCPC

Exploring Sport Psychiatry Beyond General Practice

International Society of Sport Psychiatry

8:45-9:00

Dr. Andrea Andi Murez (Olympain)

Dealing with Stress in Female Olympian Athletes

Psychiatry Resident in Mayo Clinic



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SOCIETY FOR BRAIN MAPPING AND THERAPEUTICS



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PSY-1/A

Thursday, Feb 27th

Psychiatric Therapeutics for the Elite Athlete/Mental Health

9:00-9:15

Ms. Susan Francis (Olympian)

State of Mind in Olympians

World Brain Mapping Foundation

9:15-9:30

Q & A - Session Discussion

9:30-10:00

Coffee Break



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AUT-2/A

Thursday, Feb 27th

Autism Session #1 : Innovation in Autism and Diagnostic Imaging

10:00-10:15

Timothy Roberts, PhD

Uses of Magnetoencephalography in Autism

Vice-chair of Research for the Department of Radiology and the Oberkircher Family Endowed Chair in Pediatric Radiology at Children's Hospital of Philadelphia

10:15-10:30

Pablo Coimbra, MD

Neuroimaging in Autism Spectrum Disorder: Advanced Techniques & Clinical Applications

Head of neuroradiology at uniclinic imaging diagnosis UDI Unclinic Imaging Diagnosis UDI

10:30-10:45

Antonio Lima, MD

Quantum Machine Learning Applied to ASD Diagnosis

Fellow and co-chair of Autism consortium at SBMT

10:45-11:00

Kevin Murphy, MD

PrTMS in Autism Spectrum Disorders

President of PrTMS



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AUT-2/A

Thursday, Feb 27th

Autism Session #1 : Innovation in Autism and Diagnostic Imaging

11:00-11:15

Alexej Abyzov, PhD

Modeling idiopathic autism in forebrain organoids reveals an imbalance of excitatory cortical neuron subtypes during early neurogenesis

Mayo Clinic, Associate Professor of Biomedical Informatics, Consultant

11:15-11:30

Q & A - Session Discussion

11:30-1:30

Presidential Plenary Keynote



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PSY-3/A

Thursday, Feb 27th

Brain Stimulation and Neuromodulation

1:30-1:45

Keerthy Sunder, MD

Personalized TMS in PTSD

Clinical Faculty UC Riverside, Dept. of Psychiatry; President of Sunder Foundation, SBMT Board member

1:45-2:00

Prof. Nesrin Dilbaz

Current and emerging neuromodulation therapies for addiction

Professor of Psychiatry, Uskudar University

2:00-2:15

Baris Metin, MD

NIRS applications and preliminary results for ASD

Professor of Psychiatry

2:15-2:30

Manuel Hernandez-Salazar, MD

Importance of Development of Radiosurgery in Mexico

General Director of Anticipated Wills in State of Mexico



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PSY-3/A

Thursday, Feb 27th

Brain Stimulation and Neuromodulation

2:30-2:45

Aaron Filler, MD, PhD

DTI supported TMS in TBI

Member of Board Director of SBMT; Founder of Institute for Nerve Medicine

2:45-3:00

Q & A - Session Discussion

3:00-4:00

Poster and Exhibition Visit



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PSY-4/A

Thursday, Feb 27th

Sequelae of Head Injuries in Sports

4:00-4:15

Dan Miulli, DO, MS, FACOS

New Treatment Advances in Concussion

Neurosurgeon in Colton California

4:15-4:30

Pamela Weatherbee MD, FRCPC

Sports concussion in female Athletes

International Society of Sport Psychiatry

4:30-4:45

Shane Creado, MD

Sleep Disturbance After Sport Concussion- Mechanisms and Management

Board of Directors of the International Society for Sports Psychiatry

4:45-5:00

Raymond Pan, MD

Sports concussions in youth athletes

Board of Directors, International Society for Sports Psychiatry, Associate Professor of Psychiatry and Orthopedic Surgery, University of Pittsburgh



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PSY-4/A

Thursday, Feb 27th

Sequelae of Head Injuries in Sports

5:00-5:15

Panel Discussion

5:15-5:30

Q&A: Session discussion

5:30-6:30

Presidential Plenary Keynote



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AUT-5/B

Friday, Feb 28th

Autism Session #2 : Challenges Faced by Underserved Populations in ASD

8:00-8:15

Francis Silveira, MD

Challenges in Autism Screening in Developing Countries

Psychiatrist, Assistant Physician at Instituto de Psiquiatria, and Consultant Psychiatrist at the Psychiatric Outpatient Clinic in Periquito, MG

8:15-8:30

Bruno Hemerly, MD

The Impact of AI and Telemedicine on Diagnosis and Treatment for Underserved Populations

Logos University

8:30-8:45

Jyotirmaya Patro, MD

Policy Advocacy & Community-Centric Partnerships for Inclusive Tech Access

Green AI Institute



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PSY-4/A

Thursday, Feb 27th

Sequelae of Head Injuries in Sports

8:45-9:00

Antonio Lima Jr., MD

Autism Diagnosis in Black and Latin Communities in the U.S.: Integrating Technology and Cultural Sensitivity

Specialization in Autism Spectrum Disorder from Harvard Medical School (Boston, USA), Certified in Quantum Computing and Artificial Intelligence in Healthcare (Stanford, USA), & Research Coordinator at Neuroradiology Department at Uniclinic Imaging Diagnosis UDI (Brazil)

9:00-9:15

Veviane Spergue

TBD

Professor of Psychiatry, UNINASSAU

9:15-9:30

Q&A: Session discussion

9:30-10:00



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PSY-6/B

Friday, Feb 28th

Genomics, Pharmatech, Cell Tech, and Med Tech Applications in Psychiatry

10:00-10:15

Dr. Nevzat Tarhan

Neuropsychiatric Pharmacogenetics

Professor of psychiatry, Usküdar University

10:15-10:30

Dr. Nesrin Dilbaz

Pharmacogenetics in Psychiatric Disorders - Depression and Addiction

Professor of Psychiatry, Usküdar University

10:30-10:45

Dr Sevim Isik

Cellular Therapies in Neurodegenerative Diseases

Professor of Molecular Biology and Genetics; Usküdar University

10:45-11:00

Dr. Thomas Schulze

Genomics and Bipolar Disorder

Clinical Professor of Psychiatry, Upstate University



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PSY-6/B

Friday, Feb 28th

Genomics, Pharmatech, Cell Tech, and Med Tech Applications in Psychiatry

11:00-11:15

Dr. Umut Yilmaz

Identifying Early-Stage Alzheimer's Disease and Discovering New Pathways with VR and AI-Assisted Psychosocial Assessment: A Spatial Navigation-Focused Approach

Professor of Psychiatry, UsküdarUniversity

11:15-11:30

Q&A: Session discussion

11:30-1:30

Presidential Plenary Keynote



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PSY-7/B

Friday, Feb 28th

Advances in Clinical Trials & Community Psychiatry

1:30-1:45

Dr. Thomas Schulze

Global collaborations in psychiatry: fostering education, upholding human rights, strengthening community mental health & empowering research

Professor of Psychiatry and Behavioral Sciences, Upstate University

1:45-2:00

Dr. Dan Wilson MD PHD *

Anthropology and Culture in Psychiatric Disorders

Psychiatrist, Western University

2:00-2:15

Dr. Sita Ratna

Stigma in community psychiatry

Associate Medical Director and Consultant General Adult Psychiatrist at the Black Country Healthcare Foundation Trust



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PSY-7/B

Friday, Feb 28th

Advances in Clinical Trials & Community Psychiatry

2:30-2:45

George Chrousos, MD, PhD

Stress and Human Brain Evolution, Development and Function

Professor of Pediatrics and Endocrinology Emeritus and at the National and Kapodistrian University of Athens School of Medicine, Athens, Greece and as Director of University Research Institute of Maternal And Child Health & Precision Medicin

2:45-3:00

Q&A: Session discussion

3:00-4:00

Poster and Exhibition Hall Visit



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PSY-8/B

Friday, Feb 28th

Telepsychiatry & AI in Mental Health

4:00-4:15

4:15-4:30

Dr. Baris Metin

AI Based predictive models in psychiatry

Psychiatrist, Western University

4:30-4:45

Dr. Firat Tarhan

NP Istanbul Brain Hospital and Big Data Management

CEO of NP Brain Hospital

4:45-5:00

Dr. Turker Erguzel

Advanced Facial Expression Recognition Using CNN and CAM Analysis

Professor of Psychiatry Uskudar University



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PSY-8/B

Friday, Feb 28th

Telepsychiatry & AI in Mental Health

5:00-5:15

Dr. Umit Kupeli

Enhanced ADHD Diagnosis: A Hybrid Model Integrating Neurobiological and Cognitive Markers with AI and Eye-Tracking in VR

Uskudar University Computer Engineering

5:15-5:30

Q&A: Session discussion

5:30-6:30

Presidential Plenary Keynote



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PSY-9/C

Saturday, Mar 1st

The Role Of Community in Psychiatric Therapeutics

8:00-8:15

Dr. David Baron

Lifestyle Psychiatry

Community Translational Research Institute and Western University of Health Sciences

8:15-8:30

Dr. Andy Johnson

A model for community-embedded teams for promotion of social-emotional and neurocognitive health in children and adolescents

Community Translational Research Institute and Claremont Graduate University

8:30-8:45

Dr. Eusebio Alvaro

Neuropsychological findings from adolescents screened in communities of Southern California

Community Translational Research Institute and Claremont Graduate University

8:45-9:00

Dr. Aparna Jain

Early Detection and Community Engagement for Mental Health Promotion

Community Translational Research Institute and Claremont Graduate University



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PSY-9/C

Saturday, Mar 1st

The Role Of Community in Psychiatric Therapeutic

9:00-9:15

Antoine Bechara, PhD

Potential of Environmental Shaping of Brain Mechanisms for Optimal Impulse Regulation

University of Southern California

9:15-9:30

Q&A: Session discussion

9:30-10:00

Coffee Break



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PSY-10/C

Saturday, Mar 1st

Substance Use Disorders:

10:00-10:15

Keerthy Sunder, MD

Gender Issue in Treating Substance Use Disorder

10:15-10:30

John Dougherty, DO, MS

The Emerging Role of Neuromodulation in Sports Psychiatry

10:30-10:45

Dr. Doug Major

Substance Abuse Treatment for Women Post TBI in the Justice System

NORA Justice System Treatment Committee & The California Children's Vision Now Coalition.

10:45-11:00

Dr. Connor Murray

Establishing safety of psilocybin therapy for cocaine use disorder

UCLA - Assistant Project Scientist



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PSY-10/C

Saturday, Mar 1st

Substance Use Disorders:

11:00-11:15

Dr. Carla Edwards, MSc, MD

Winning at All Costs; Prohibited Substance Use in Competitive Athletes

McMaster University

11:15-11:30

Q&A: Session discussion

11:30-1:30

Presidential Plenary Keynote



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PSY-11/C

Saturday, Mar 1st

The interface of science, technology, medicine and policy: A psychiatric perspective

1:30-1:45

Dr. Shane Creado

Digital therapeutics and AI in psychiatry.

Board of Directors of the International Society for Sports Psychiatry, as its Chairman of Memberships

1:45-2:00

Dr. Dan Miulli

New Treatment Advances in Concussion

Neurosurgeon, Colton California

2:00-2:15

Dr. Carla Edwards

Controversies in Exercise Science Technology

McMaster University

2:15-2:30

David Baron, MD

The impact of sports science on sports policy and athlete's care

Community Translational Research Institute and Western University of Health Sciences



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PSY-11/C

Saturday, Mar 1st

The interface of science, technology, medicine and policy: A psychiatric perspective

2:30-2:45

Cindy Miller Aron, LCSW

Making Progress in Athlete Care Through Multi-Disciplinary Teamwork and Advocacy

Senior Director of Clinical Services Ascend CHC/ Sports Performance Institute, Chicago, IL USA; Adjunct Professor, Department of Psychiatry, University of Wisconsin School of Medicine and Public Health, Madison WI USA

2:45-3:00

Q&A: Session discussion

3:00-3:30

30min. Coffee & Tea Break



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PSY-11/C

Saturday, Mar 1st

Autism Session #3 : Neurosensory processing in autism an functional brain activity

4:00-4:15

Paul Brewer, OD

Sensory Integration and Performance Optimization in Autism

Founder of Diverge Performance and Assistant Professors Carrick Institute

4:15-4:30

Deborah Zelinsky, OD

How to link Auditory and Visual Processing in People with Autism

Mind Eye Institue

4:30-4:45

Doug Major, OD, FAAO, CCHP

Vestibulo-Ocular reflex changes in Autism

NORA Justice System Treatment Committee & The California Children's Vision Now Coalition.

4:45-5:00

Lillian Chen-Byerley, MS, OTR/L, CNDT, RCTC

Implications of Traditionally Used Neurodevelopmental Theories

STAR Institute



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PSY-11/C

Saturday, Mar 1st

Autism Session #3 : Neurosensory processing in autism an functional brain activity

5:00-5:15

Danielle Nelson, MS,OTR/L,CNSI

Going Beyond Traditional Sensory Integration OT; Neurological Assessment and Intervention with CNSI Brain Mapping

CNSI Therapies

5:15-5:30

Q&A: Session discussion

5:30-6:30

Presidential Plenary Keynote

7:30-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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PSY-13/D

Sunday, Mar 2nd

Sports Medicine: Brain and psychiatric trauma in elite sports teams: (Guidelines SCAT 6)

8:00-8:15

Doug Major, OD, FAAO, CCHP

TBI Sequelae: From Sports to Behavioral Issues

NORA Justice System Treatment Committee & The California Children's Vision Now Coalition.

8:15-8:30

Paul Brewer, OD

Perfect Vision Post Concussion

Founder of Diverge Performance and Assistant Professors Carrick Institute

8:30-8:45

Raymond Pan, MD

Brain and Psychiatric Trauma in Elite Sports

Board of Directors, International Society for Sports Psychiatry, Associate Professor of Psychiatry and Orthopedic Surgery, University of Pittsburgh

8:45- 9:00

Cindy Miller Aron, LCSW

Trauma and loss associated with Sport Related Concussion

Senior Director of Clinical Services Ascend CHC/ Sports Performance Institute, Chicago, IL USA; Adjunct Professor, Department of Psychiatry, University of Wisconsin School of Medicine and Public Health, Madison WI USA



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PSY-13/D

Sunday, Mar 2nd

Sports Medicine: Brain and psychiatric trauma in elite sports teams: (Guidelines SCAT 6)

9:00-9:15

Pamela Weatherbee, MD, FRCPC

Competing agendas following concussions in Elite Sports

International Society of Sport Psychiatry

9:15-9:30

Q&A: Session discussion

9:30-10:00

30min. Coffee & Tea Break



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PSY-14/D

Sunday, Mar 2nd

The Role Of Community in Psychiatric Therapeutics

10:00-10:15

Dr. Lily Dgidula

The Role of the Community Mental Health Worker

Community Translational Research Institute

10:15-10:30

Dr. Abdul Shukoor Haidary

Case Management in a Community-Embedded Mental Health Team

Community Translational Research Institute

10:30-10:45

Dr. Alexandra Auslander

The Social Prescription for Neuropsychological Health Development

West Coast University

10:45-11:00

Dr. Cesar Armendariz

The Community Health Village - a Model for Managed Care

Inland Empire Health Plan



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PSY-14/D

Sunday, Mar 2nd

The Role Of Community in Psychiatric Therapeutics

9:00-9:15

Jaime Adan, MD

Current Challenges in the implementation of NIBS in psychiatric practice

International Society of Sport Psychiatry

11:15-11:30

Q&A: Session discussion

11:30-1:30

Presidential Plenary Keynote



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PSY-15/D

Sunday, Mar 2nd

Recent Advances in Non-invasive Brain Stimulation

1:30-1:45

Theodoros Koutsomitros MD

Non-invasive brain stimulation : a new era of mental health therapies

Greek rTMS clinic , Medical Psychotherapeutic Centre, Neuroscience department
Maastricht University

1:45-2:00

Eleanor Cole, MSc, PhD

Accelerated TMS in Psychiatric Disorders

Director of Clinical Innovation at Neuronetics

2:00-2:15

Balder Onarheim

Making at-home tDCS intelligent with PlatoScience

CEO of Plato Science

2:15-2:30

Prof Egas Caparelli-Daquer

Reaching specific brain targets with HD-tDCS

Professor of Neurophysiology, State University Rio de Janeiro , Brasil



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PSY-14/D

Sunday, Mar 2nd

The Role Of Community in Psychiatric Therapeutics

2:30-2:45

Daniel Diez, MBA, PhD/Jaime Adan, MD

New developments in AI-based personalised rTMS

Founder of Connectoma

2:45-3:00

Q&A: Session discussion

3:00-4:00

Poster and Exhibition Hall visit



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PSY-16/D

Sunday, Mar 2nd

Policy, Advocacy, and Action for Autism Spectrum Disorder

4:00-4:15

Veviane Spergue

The Human and Financial Cost of Autism to the Brazilian Economy

Psychologist, Neuropsychologist and Cognitive Behavioral Therapist

4:15-4:30

Dr. Francis Silveira, MD

Autism Policy Frameworks: A Comparative Analysis of Global Approaches

Psychiatrist, Assistant Physician at Instituto de Psiquiatria, and Consultant Psychiatrist at the Psychiatric Outpatient Clinic in Periquito, MG

4:30-4:45

Renata Esteves, JD

Lawyer Specializing in the Rights of Autistic People

Lawyer and President of the Autistic Rights Committee, President Special Committee on the Law of Autistic People and their Families of OAB Niterói, Brazil

4:45-5:00

Nestor Ezequiel de Oliveira

Assistive Technologies in Autism: Enhancing Skills and Promoting Autonomy for Moderate Autism

Degree in Electrical Engineering Master's and Doctorate in Electrical Engineering – UNICAMP



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PSY-14/D

Sunday, Mar 2nd

The Role Of Community in Psychiatric Therapeutics

5:00-5:15

Antonio Lima, MD, MS

The Intersection of Technology and Policy: Opportunities for Transforming ASD Care

Specialization in Autism Spectrum Disorder from Harvard Medical School (Boston, USA), Certified in Quantum Computing and Artificial Intelligence in Healthcare (Stanford, USA), and Research Coordinator at Neuroradiology Department at Uniclinc Imaging Diagnosis UDI (Brazil)

5:15-5:30

Q&A: Session discussion

5:30-6:30

Poster and Exhibition Hall visit



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Fellows: Drs. Shiva Rampersad, Lawal Sodiq, Marcel Interns: Pria Chawla, Solagbade Pelumi, Samone Newton, Jeremiah Daniel

ALZ-1/A

Thursday, Feb 27th

Neuromodulation

8:00 - 8:15

8:15 - 8:30

8:30 - 8:45

8:45 - 9:00

9:00 - 9:15

9:15 - 9:30

Question and Answer - Discussion

9:30-10:00

30min. Coffee & Tea Break



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ALZ-2/A

Thursday, Feb 27th

10:00 - 10:15

10:15 - 10:30

10:30 - 10:45

10:45 - 11:00

11:00 - 11:15

11:15 - 11:30

Question and Answer - Discussion

11:30 - 1:30

Presidential Plenary Keynote



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Thursday, Feb 27th

1:30 - 1:45

1:45 - 2:00

2:00 - 2:15

2:15 - 2:30

2:30 - 2:45

2:45 - 3:00

Question and Answer - Discussion

3:00 - 3:30

30min. Coffee & Tea Break



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Thursday, Feb 27th

3:30 - 3:45

3:45 - 4:00

4:00 - 4:15

4:15 - 4:30

4:30 - 4:45

4:45 - 5:00

Question and Answer - Discussion

5:30 - 6:30

Presidential Plenary Keynote

7:00 - 9:00

Opening Reception



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Friday, Feb 28th

Lifestyle factors in aging and AD: mechanistic insights Chair: Dr. Ashley Keiser

8:00-8:15

Paula Desplats

How Circadian Regulation & Feeding Windows Impact Alzheimer's Progression

Associate Professor, Department of Neuroscience, Department of Pathology, University of Mar del Plata, Argentina

8:15-8:30

Fernanda Guarino De Felice

Unveiling the role of Irisin in Alzheimer's Disease

Associate Professor at the Center for Neurosciences Studies & Departments of Biomedical and Molecular Sciences and Psychiatry at Queens University, Canada.

8:30-8:45

Cesar Hernandez

Therapeutic effects of exogenous ketones on neuropsychiatric symptoms in Alzheimer's disease

Assistant Professor, University of Alabama, Birmingham, United States.

8:45-9:00

Ashley Keiser

Acvr1c as an epigenetic regulator of memory in aging & Alzheimer's disease

Assistant Professor, Biodesign ASU-Banner Neurodegenerative Disease Research Center and School of Life Sciences.



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Q&A: Session discussion

9:30-10:00

30min. Coffee & Tea Break



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Pelumi, Samone Newton, Jeremiah Daniel

Friday, Feb 28th

Questioning 30 years of paralysis from Amyloid Dogma in Alzheimer's Disease Co-Chairs: Drs. George Perry, Rudy Castellani

10:00-10:15

Paula Desplats

A non-discriminatory target: anti-amyloid therapy leading to necrotizing vasculitis in a patient with advanced cerebral amyloid angiopathy (tentative title)

Associate Program Director, Neuropathology Fellowship Training Program

10:15-10:30

George Perry PhD,

Are Amyloid & Tau Adaptive Responses?

Professor of Biology and Chemistry at the University of Texas, San Antonio, United States;
Co-Chair of SBMT Alzheimer's Subcommittee.

10:30-10:45

Abass Alavi MD.

Facts and Fictions about Amyloid Imaging Based Diagnosis and Treatment of Alzheimer's Disease

Professor of Radiology and Associate Director at the Institute on Aging at the University of Pennsylvania Perelman School of Medicine.



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Friday, Feb 28th

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10:45-11:00

Chris Wheeler, PhD

A New Model of AD

Professor and Research Scientist at Cedars-Sinai Medical Center, Los Angeles, California, USA.

11:00-11:15

11:15-11:30

Q&A: Session discussion

11:30-1:30

Presidential Plenary Keynote



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Friday, Feb 28th

Molecular Aspects of Behavior and Cognition: Implications for Aging and AD Co-Chairs: Dr. Lisa Munter

1:30-1:45

Iva Zovkic

Histone variants in Alzheimer's disease

Associate Professor, Department of Psychology, University of Toronto, Mississauga, Ontario, Canada.

1:45-2:00

Cristelle Hugo

Astrocyte senescence in Alzheimer's disease

Doctoral Candidate, Keck School of Medicine, University of Southern California, California, USA>

2:00-2:15

William Mobley, MD. PhD.

Rethinking the Pathogenesis of Alzheimer Disease in Down Syndrome

Professor of Neurology at UC San Diego School of Medicine, San Deigo, California, USA.

2:15-2:30

Lisa Munter

About the physiological functions of APP

Associate Professor, Department of Pharmacology and Therapeutics, McGill University, Montreal, Canada.



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Friday, Feb 28th

Molecular Aspects of Behavior and Cognition: Implications for Aging and AD Co-Chairs: Dr. Lisa Munter

2:30-2:45

2:45-3:00

Q&A: Session discussion

3:00-4:00

Poster and Exhibition Visit



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Friday, Feb 28th

Round Table Panel: Biochemical, Molecular, Genetic influences in Aging & AD Co-Chairs: Drs. Chris Wheeler, Rudy Castellani, Lisa Munter, George Perry

4:00-4:15

Rudy Castellani

The pros and cons of targeting amyloid-beta in Alzheimer's disease

Professor of Pathology (Neuropathology), Feinberg School of Medicine, Northwestern University, Chicago, United States.

4:15 - 4:30

4:30 - 4:45

4:45 - 5:00

5:00-5:15

5:15-5:30

5:30-6:30

Presidential Plenary Keynote



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Pelumi, Samone Newton, Jeremiah Daniel

Saturday, Mar 1st

Cellular Senescence & Mitochondrial Dysfunction in Aging,

8:00-8:15

Russell Swerdlow, MD

Mitochondria and Mitochondrial Cascades in Alzheimer's Disease

Professor, University of Kansas; Director, University of Kansas Alzheimer's Disease Research Center

8:15-8:30

Hemachandra Reddy, PhD

Brain Atrophy in MCI and Alzheimer's Disease: Focus on Sleep Deprivation

Professor, Department of Internal Medicine; Vice Chair of Research of Basic and Translational Sciences Internal Medicine and Professor of Pharmacology & Neuroscience, Neurology, Public Health, & Speech, Language, & Hearing Departments at Texas Tech University Health Sciences Center, Lubbock, Texas, USA.

8:30-8:45

Elizabeth Perry DMD, PhD

Tetracyclines promote survival and fitness in mitochondrial disease models

General Dentist in Private Practice (Perry Endodontics), Part-time Faculty University of California Los Angeles School of Dentistry.

8:45-9:00

George Perry PhD

Metabolic failure at the heart of Alzheimer's disease

Professor, Semmes Foundation Endowed Distinguished University Chair in Neurobiology, Neuroscience, Developmental and Regenerative Biology



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Saturday, Mar 1st

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9:00-9:15

9:15-9:3

Q&A: Session discussion

9:30-10:00

30min. Coffee & Tea Break



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Saturday, Mar 1st

Neuroimmunity & Neuroinflammation in Aging and AD Induction Co-Chairs: Dr. Chris Wheeler

10:00-10:15

Sajad Sahab

Microglial Exosome Therapy for AD

Associate Professor at Neuroscience Department, Mashhad University of Medical Sciences (MUMS).

10:15-10:30

Sally Frautschy

title pending

Professor in Residence of Neurology, David Geffen School of Medicine at UCLA; Director, Sally A. Frautschy Alzheimer Research Laboratory

10:30-10:45

Jessica Rexach MD, Ph.D

Distinct Glial Inflammatory Contributors to Heritability Across Tau Dementias

Assistant Professor-in-Residence, Neurology, University of California Los Angeles

10:45-11:00

Christopher Wheeler

Integration of T cell metrics into the Alzheimer's biomarker landscape

Professor and Research Scientist at Cedars-Sinai Medical Center, Los Angeles, California, USA.



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Saturday, Mar 1st

Neuroimmunity & Neuroinflammation in Aging and AD Induction Co-Chairs: Dr. Chris Wheeler

11:00-11:15

11:15-11:30

Presidential Plenary Keynote

11:30-1:30



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Friday, Feb 28th

Artificial Intelligence at the intersection between people and their environment on health and social factors in the prevention of age related neurodegeneration Co-Chairs: Drs. Giulio Pasinetti

1:30-1:45

Sofia Singh, PhD

Artificial Intelligence: A New Frontier in Alzheimer's Prevention & Treatment

Associate Professor, Department of AI, Amity School of Engineering & Tech, Amity University, Noida

1:45-2:00

Garima Shukla, PhD

Advancements in Alzheimer's Disease Diagnosis: A Synergy of Machine Learning and Imaging Biomarkers

Professor of Neurology, Epilepsy and Clinical Sleep Medicine, Department of Medicine, Queen's University, Canada

2:00-2:15

Jonathan Kao

Artificial intelligence poised to transform neurological care from diagnosis to treatment

Assistant Professor, Department of Electrical Engineering, University of California, Los Angeles, United States

2:15-2:30

Jiandi Wan

Suppressed capillary hyperemia in aged brain

Assistant Professor, Department of Chemical Engineering, College of Engineering, University of California, Davis



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Friday, Feb 28th

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2:30-2:45

2:45-3:00

Q&A: Session discussion

3:00-4:00

Poster and Exhibition Hall visit



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Saturday, Mar 1st

Neuroresilience as a biomarker and therapeutic target in asymptomatic subjects at risk for AD and related dementias Co-Chairs: Dr. Giulio Pasinetti

4:00-4:15

Sofia Singh, PhD

AI and Alzheimer's: From Early Detection to Personalized Care

Associate Professor, Department of AI, Amity School of Engineering & Tech, Amity University, Noida

4:15-4:30

Jon Depierro

Psychosocial resilience factors in neuropsychiatric disorders: Current state and opportunities for AI applications

Associate Professor of Psychiatry, Ichan School of Medicine at Mount Sinai

4:30-4:45

Gregory Cole

title pending

Professor of Medicine and Neurology, University of California Los Angeles (UCLA)

4:45-5:00

Giulio Pasinetti

Immune's surprise role: regulatory T cells impact resilience & impact to mood and memory

The Saunders Family Chair in Neurology, Professor in Neurology, Professor of Psychiatry, Professor of Geriatric and Adult development



Director, Mount Sinai Center in Advance Botanical Research in Molecular Integrative
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Keiser Fellows: Drs. Shiva Rampersad, Lawal Sodiq, Marcel Interns: Pria Chawla,
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4:45-5:00

Giulio Pasinetti

Immune's surprise role: regulatory T cells impact resilience & impact to mood and memory

The Saunders Family Chair in Neurology, Professor in Neurology, Professor of Psychiatry, Professor of Geriatric and Adult development Director, Mount Sinai Center in Advance Botanical Research in Molecular Integrative Neuroresilience Professor of Neurology, Icahn School of Medicine at Mount Sinai

5:00-5:15

5:15-5:30

5:30-6:30

Presidential Plenary Keynote

7:30-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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Fellows: Drs. Shiva Rampersad, Lawal Sodiq, Marcel Interns: Pria Chawla, Solagbade Pelumi, Samone Newton, Jeremiah Daniel

Sunday, Mar 2nd

AD Subcommittee meeting (Dr Chris Wheeler, Dr Giulio M. Pasinetti)

8:00 - 8:15

8:15 - 8:30

8:30 - 8:45

8:45 - 9:00

9:00 - 9:15

9:15-9:30

Question and Answer - Discussion

9:30-10:00

30min. Coffee & Tea Break



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Pelumi, Samone Newton, Jeremiah Daniel

Sunday, Mar 2nd

Alzheimer's Disease and Environmental Challenges - Co-Chair: Dr. Giulio M. Pasinetti

10:00-10:15

Jennifer Ailshire

Environment, social-determinants, and disparities during aging

Assistant Professor of Gerontology, University of Southern California

10:15-10:30

Andrew Petkus

**Association between late-life pollution exposure & gender-related
susceptibility as a function of aging**

Associate Professor of Clinical Neurology, University of Southern California

10:30-10:45

Gyorgy Lur

**Adolescent Environmental stressors reorganize cognitive circuits in the
parietal cortex**

Associate Professor Neurobiology & Behavior, Charlie Dunlop School of Biological Sciences



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World Congress of Society for Brain Mapping & Therapeutics Los Angeles, California, USA
Breaking Boundaries of Science, Technology, Medicine, Art, & Healthcare Policy

Alzheimer's Disease and Dementia and Neuromodulation Chairs and Co-Chairs:
Drs. Christopher Wheeler, PhD; George Perry Ph.D., Dr Giulio M. Pasinetti, Dr Ashley
Keiser Fellows: Drs. Shiva Rampersad, Lawal Sodiq, Marcel Interns: Pria Chawla,
Solagbade Pelumi, Samone Newton, Jeremiah Daniel

Sunday, Mar 2nd

Artificial Intelligence at the intersection between people and their environment on health and social factors in the prevention of age related neurodegeneration Co-Chairs: Drs. Giulio Pasinetti

10:45-11:00

Giulio M. Pasinetti

Exposure to World Trade Center dust in cognitive impairment and onset of Alzheimer's disease and related dementia

The Saunders Family Chair in Neurology, Professor in Neurology, Professor of Psychiatry, Professor of Geriatric and Adult development Director, Mount Sinai Center in Advance Botanical Research in Molecular Integrative Neuroresilience Professor of Neurology, Icahn School of Medicine at Mount Sinai

11:00-11:15

11:15-11:30

Question and Answer - Discussion

12:30-1:30

Presidential Plenary Keynote



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Pelumi, Samone Newton, Jeremiah Daniel

Sunday, Mar 2nd

Lifestyle factors in Aging and Alzheimer's Disease Mitigation - Co-Chairs: Dr. Giulio Pasinetti

1:30-1:45

Maria Sajimon

Post-translational modification of Abeta to reduce toxicity

PhD student, Department of Chemistry and Biochemistry, University of California Santa Cruz (UCSC)

1:45-2:00

Isaac Asante PhD

PreventE4 clinical trial

Assistant Professor of Research Ophthalmology and Clinical Pharmacy
Titus Family Department of Clinical Pharmacy

2:00-2:15

Christie Fowler

Seeing through the smoke: The impact of nicotine on the aging brain

Professor and Chancellor Fellow, Neurobiology and Behavior Charlie Dunlop School of
Biological Sciences





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Sunday, Mar 2nd

Lifestyle factors in Aging and Alzheimer's Disease Mitigation - Co-Chairs: Dr. Giulio Pasinetti

2:15-2:30

Giulio M. Pasinetti

Dietary polyphenols in synucleinopathies in implication for age-related neurodegenerative disorder

The Saunders Family Chair in Neurology, Professor in Neurology, Professor of Psychiatry, Professor of Geriatric and Adult development Director, Mount Sinai Center in Advance Botanical Research in Molecular Integrative Neuroresilience Professor of Neurology, Icahn School of Medicine at Mount Sinai

2:45-3:00

3:00-4:00

Question and Answer - Discussion



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Sunday, Mar 2nd

Round Table Panel: Behavioral, Cellular, and Environmental Factors in Aging & AD - Co-Chairs: Dr. Chris Wheeler, Giulio M. Pasinetti, Ashley Keiser

4:00-4:15

4:15 - 4:30

4:30 - 4:45

4:45 - 5:00

5:00-5:15

5:15-5:30

5:30-6:30

Presidential Plenary Keynote



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CVS-1/A

Thursday, Feb 27th

Cranial Approaches and Technologies

8:00-8:15

Dr Raj Sawh-Martinez

Black Bone MRI and Augmented Reality for Cranial Vault Reconstruction

Director of Pediatric Craniofacial Surgery at AdventHealth for Children

8:15-8:30

Dr.Dhruve Jeevan

Brain Plasticity and Connectomics

Assistant Professor of Neurosurgery McClane Children's Hospital

8:30-8:45

Dr Bipin Chaurasia, MD, MS

Geographic Disparities in the Proliferation of Minimally Invasive Approaches for Sellar/Parasellar Lesions

Department of Neurosurgery, Neurosurgery Clinic, Birgunj ,Nepal

8:45-9:15

Dr Akitsugu Kawashima, MD, PhD

Featured Speaker: Surgical Management of Giant Aneurysms

Chief, Department of Neurosurgery, St. Luke's International Hospital, Tokyo

9:15-9:30

Question and Answer - Discussion

9:30-10:00

30min. Coffee & Tea Break



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CVS-2/A

Thursday, Feb 27th

Skullbase approaches and Treatments

10:00-10:30

Dr. Edisher Maghalashvili Md. Phd.

Transorbital neuroendoscopy: a new gateway to the skull base.

American Hospital Tbilisi - Head of neurosurgery

10:15-10:30

Dr. Behnam Rezai Jahromi MD

ARCH trial intermediate result and perspective in ICH treatment

Department of Neurosurgery & Department of Interventional Neuroradiology Helsinki University Hospital Helsinki, Finland

10:30-11:00

Dr. Nirav Patel

Bypass surgery in Endovascular era

Director, Brigham AVM Program, Assistant Professor of Neurosurgery, Harvard Medical

11:15-11:30

Question and Answer - Discussion

11:30-1:30

Presidential Plenary Keynote



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Thursday, Feb 27th

Emerging Endovascular Technologies (Stroke, AVM, Aneurysms)

1:30-2:00

Ali Alaraj, MD, MHA, FACS, FAHA

Featured Speaker: Role of Preoperative Flow Reduction in Arteriovenous Malformation Surgery

Professor and Section Chief, Endovascular Neurosurgery, Unniiversity of Illinois Hospital

2:00-2:15

Sabareesh Natarajan

The Endovascular Impact on Subdural Hematomas

Endovascular & Skull Base Neurosurgeon, Sharp Memorial Hospital, San diego

2:15-2:30

Ashkan Mowla

Thrombectomy for Stroke with Large Infarct on Non-contrast CT

Assistant Professor of Endovascular Neurosurgery at Uni. of Southern California

2:30-2:45

Ziad Hage

Where are we with Distal Thrombectomies

Head of Cranial Neurosurgery, Novant Health Greater Charlotte Market

2:45-3:00

Question and Answer - Discussion

3:00-4:00

Poster and Exhibition Hall Visit



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4:00-4:30

Dr. Edisher Maghalashvili Md. Phd.

Transorbital neuroendoscopy: a new gateway to the skull base.

American Hospital Tbilisi - Head of neurosurgery

4:30-4:45

Anand Venkatraman

Neuroendovascular tech advances

Interventional neurologist HCA Florida

4:45-5:00

Lawrence Daniels

Director of Pediatric Neurosurgery, New Neurons Neurosurgical Institute

5:00-5:15

Dr Kurtis Auguste

Augmented Reality in Pediatric Neurosurgery

Pediatric Neurosurgeon, UCSF Benioff Children's Hospital, San Francisco, California

5:15-5:30

Question and Answer - Discussion

5:30-6:30

Presidential Keynote

7:00-9:00

Opening Reception



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Friday Feb 28th

Bio Skills LAB-Accepted Oral Poster - All Tracks

Dr. Nirav Patel

Director, Brigham AVM Program, Assistant Professor of Neurosurgery, Harvard Medical

Dr. Emrah Celtikci

Assoc. Prof. of Neurosurgery, Gazi University Faculty of Medicine Dept. of Neurosurgery



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Friday Feb 28th

Bio Skills LAB-Accepted Oral Poster - All Tracks

11:30-1:30



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5:30-6:30

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Saturday, Mar 1st

AVM and Aneurysm Surgical Management

5:30-6:30

Dr. Akitsugu Kawashima

Transorbital neuroendoscopy: a new gateway to the skull base.
American Hospital Tbilisi - Head of neurosurgery

4:30-4:45

Anand Venkatraman

Neuroendovascular tech advances
Interventional neurologist HCA Florida

4:45-5:00

Lawrence Daniels

Director of Pediatric Neurosurgery, New Neurons Neurosurgical Institute

5:00-5:15

Dr Kurtis Auguste

Augmented Reality in Pediatric Neurosurgery
Pediatric Neurosurgeon, UCSF Benioff Children's Hospital, San Francisco, California

5:15-5:30

Question and Answer - Discussion

5:30-6:30

Presidential Keynote

7:00-9:00

Opening Reception



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Saturday, Mar 1st

AVM and Aneurysm Surgical Management

8:00-8:15

Dr. Akitsugu Kawashima

EC-IC bypass to upper basilar artery aneurysms

Chief, Department of Neurosurgery, St. Luke's International Hospital, Tokyo

8:15-8:30

Dr. Nirav Patel

Mapping in AVM surgery

Director, Brigham AVM Program, Assistant Professor of Neurosurgery, Harvard Medical

8:30-8:45

Dr. Leonardo Rangel-Castilla

Cerebral Aneurysms-simple treatment is always best

Vascular Neurosurgeon, Mayo Clinic

8:45-9:00

Ali Alaraj, MD, MHA, FACS, FAHA

Multimodality Management of Dural Arteriovenous Fistula

Professor and Section Chief, Endovascular Neurosurgery, University of Illinois Hospital

9:00-9:15

Question and Answer - Discussion

9:15-9:30

15min. Coffee & Tea Break



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Saturday, Mar 1st

Endovascular Management of AVM and Aneurysm

10:00-10:30

Dr. Omar Choudhri, MD

Neurovascular Connectomics and the Road to Functional Vascular Anatomic Brain Mapping

Assistant Professor of Neurosurgery at the Hospital of the University of Pennsylvania

10:30-10:45

Dr. Sabareesh Natarajan

Intrasacular Devices for Wide Necked Aneurysms

Endovascular & Skull Base Neurosurgeon, Sharp Memorial Hospital, San diego

10:45-11:00

Ziad Hage

The paradigm of vertebrobasilar insufficiency

Head of Cranial Neurosurgery, Novant Health Greater Charlotte Market

11:00-11:15

Dr Mandar Waghralkar, MD DM FINR EDSI

Stroke, Era of Neurointervention: An Update

DMIHER's JN Medical college, Sawangi, Nagpur

11:15-11:30

Question and Answer - Discussion

11:30-1:30

Presidential Plenary Keynote



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Saturday, Mar 1st

AI Applications in Clinical Neuroscience

1:30-1:45

Dr. Zhaoyang Fan

AI-driven intracranial vessel wall imaging

Radiology, Keck School of Medicine, University of Southern California

1:45-2:00

Dr. Pei-Chen Peng

Advancing equitable cancer prognostic models with machine learning.

Cedars-Sinai Medical Center

2:00-2:15

Dr. Yibin Xie

Retrospective MR quantification and prediction of aging and disease

Cedars Sinai Medical Center



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Lifestyle factors in Aging and Alzheimer's Disease Mitigation - Co-Chairs: Dr. Giulio Pasinetti

2:15-2:30

Dr. Ryan Urbanowicz

STREAMLINE: A Transparent Automated Machine Learning Tool for Cognitive Outcome Prediction and Beyond

Assistant Professor of Computational Biomedicine at Cedars Sinai Medical Center, Los Angeles, CA Adjunct Assistant Professor of Biostatistics, Epidemiology and Informatics at the University of Pennsylvania, Philadelphia, PA

2:30-2:45

Dr. Touseef Ahmad Qureshi

Prediction of Pancreatic Cancer Using AI Analysis of Pre-Diagnostic Abdominal CT

Assistant Professor of Biomedical Sciences, Biomedical Imaging Research Institute, Cedars-Sinai Medical Center

2:45-3:00

Dr. Andrei Irimia

Deep neural networks to map brain aging in health and Alzheimer's disease

Assistant Professor, University of Southern California

3:00-4:00

Poster and Exhibition Hall Visit



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Saturday, Mar 1st

Economics and Technology Interfaces

4:00-4:15

Dr Ellen Air, MD, PhD

Advanced Technology within the Constraints of Healthcare Economics

Chairman, Department of Neurosurgery, Henry Ford Health System, Detroit

4:15-4:30

Behnam Rezai Jahromi MD

Gene therapy for central nervous system- intrathecal changes with CSF manipulation

Department of Neurosurgery & Department of Interventional Neuroradiology Helsinki University Hospital Helsinki, Finland

4:30-4:45

Dr Joseph Lopez

Integrating computer-assisted planning in pediatric craniofacial surgery

Chief Pediatric ENT Skullbase surgery, Advent Health, Orlando

4:45-5:00

Dr Fedor Panov, MD

Vagal Nerve stimulation in Stroke Rehab

Director of Epilepsy Surgery, Mount Sinai Hospital, New York



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Saturday, Mar 1st

AI Applications in Clinical Neuroscience

5:00-5:15

Dr. Emrah Celtikci

Endoscopic Approaches to and through the Orbit

Assoc. Prof. of Neurosurgery, Gazi University Faculty of Medicine Dept. of Neurosurgery

5:15-5:30

Q&A

5:30-6:30

Presidential Planary Keynote

Advancing equitable cancer prognostic models with machine learning.

Cedars-Sinai Medical Center

7:30-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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Sunday, Mar 2nd

Epilepsy, neuroradiology and therapeutics

8:00-8:15

Dr Fedor Panov, MD

Meditation in RNS and SEEG patients

Director of Epilepsy Surgery, Mount Sinai Hospital, New York

8:15-8:30

Dr. Gregory Olavarria

Epilepsy surgery strategies in children: different strokes for different little folks

Neurosurgeon, Nemours Hospital for Children, and Associate Professor, UCF College of Medicine

8:30-8:45

Isaac Yang

EMP2 as a novel Biomarker for Meningioma and the role for adjuvant therapies against Meningioma

Associate Professor in the Department of Neurosurgery at UCLA

8:45-9:00

Girish Fatterpekar

Perfusion Permiability Imaging Advances

Pofessor and Chair of Neuroradiology, NYU Langone, New York



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Epilepsy, neuroradiology and therapeutics

9:00-9:15

Dhruve Jeevan

Brain connectotomics and Brain plasticity

Assistant Professor of Neurosurgery McClane Children's Hospital

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Saturday, Mar 1st

Brain Tumors Open/metastasis, Skull Base & Pituitary Approaches

10:00-10:15

Ray Chu

Advances in glioma surgery

Neurosurgeon Cedars Sinai, Los Angeles

10:15-10:30

Dr Jaime Torres-Corzo

Flexible Neuroendoscopy- an underused tool in Neurosurgery

Department of Neurosurgery, Hospital Central Dr. Ignacio Morones Prieto, San Luis Potosi, Mexico

10:30-10:45

Dr Emanuela Binello

Globe-sparing resection of optic nerve glioma

Neurosurgeon, Boston Medical Center

10:45-11:00

Kaveh Asadi, MD, PhD

Cranial vault reconstructing strategies

Director of Pediatric Neurosurgery, Palm Beach, FL





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Neurosurgery Cerebrovascular (Skull and Spine) Chairs and Co-Chairs: Abilash Haridas, M.D; Marcos Wagner De Sousa Porto, M.D; Sabareesh Natarajan, M.D; Akitsugu Kawashima, M.D, Ph.D. Research Scientist: Dr. Kevin Morris Fellows: Dr Shiva Rampersad, Daniel Omoju, Farha Anjum, Dr. Gallo Interns: Yoshita

Sunday, Mar 2nd

Brain Tumors Open/metastasis, Skull Base & Pituitary Approaches

11:00-11:15

Justin Garling

Minimally invasive approaches to the anterior skull base.

Assistant Professor TCU and UNTHSC School of Medicine

11:15-11:30

Q&A

11:30-1:30

Presidential Plenary Keynote



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Sunday, Mar 2nd

Acquired brain and cerebrovascular therapeutics

1:30-2:00

Shiva Rampersad

Update on Brain metastases

Neurosurgical Director, Evolve Medical, Trinidad and Tobago

2:00-2:15

Lawrence Daniels

Director of Pediatric Neurosurgery, New Neurons Neurosurgical Institute

2:15-2:30

Dr Ankit Pansara

LVO advances and technology

Interventional radiologist, St Joseph Hospital, Tampa, Fl

2:30-2:45

Arman Sourani, MD

The role of early superficial temporal to middle cerebral artery bypass revascularization surgery in MCA-territory strokes

SBMT Fellow-Cerebrovascular, Neuro-Oncology and Spine Consortium; Department of Neurosurgery, Isfahan University of Medical Sciences, Isfahan, Iran

2:45-3:00

Professor Yonghong Wang

Evaluation of cisternostomy

Shanxi Bethune Hospital, Neurosurgeon

3:00-3:30

Poster and Exhibition Hall Visit



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Sunday, Mar 2nd

Ultrasound for Imaging and Therapy: Chair: Drs. Qifa Zhou, Peter Wang, Mack Yang

3:30-3:45

Guosong Hong, PhD

Deep-tissue light delivery and imaging based on novel nanophotonic materials

Assistant Professor - Stanford University

3:45-4:00

Peter Wang, PhD

Ultrasound control of cell therapy for brain tumors

Professor - University of Southern California

4:00-4:15

Alfred Yu, PhD

TBD

Professor - University of Waterloo

4:15-4:30

Jun Chen, PhD

**Magnetoelastic Generators as an Emerging Platform Technology for
Ultrasound Energy Conversion**

Associate Professor - University of California, Los Angeles



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Sunday, Mar 2nd

Ultrasound for Imaging and Therapy: Chair: Drs. Qifa Zhou, Peter Wang, Mack Yang

4:30-4:45

Chenzhi Shi, PhD

Vortex ultrasound for therapy

Associate Professor - University of Michigan

4:45-5:00

Richard Everson, MD

Ultrasound for brain tumor surgery

5:00-6:00

Presidential Plenary Keynote



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SPN-1/A

Thursday, Feb 27th

Spinal Instrumentations

8:00-8:15

Dr. Hazem Nikola

Regional spine deformities and correction with MIS OLLIF

Spine surgeon, Hospital de los Valles, Ecuador

8:15-8:45

Dr. Todd Jackman

Artificial Disc Replacement- Featured Speaker

Orthopedic Spine Surgeon, Midwest Spine & Brain Institute

8:45-9:00

Dr. Namath Hussain

Prone Transpsoas approach

Department of Neurosurgery Loma Linda University Medical Center

9:00-9:15

Dr. Kamran Parsa

Personal experience with OLLIF as compared to other techniques

CEO, NeuroSpine Institute

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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SPN-2/A

Thursday, Feb 27th

Ortho-biologics and revision spine surgery

10:00-10:15

Dr Mohammad Khasawneh

Anterior Upper Thoracic Exposure utilizing a split sternal approach

Vascular and Endovascular Surgeon, Allina Health Minneapolis Heart Institute

10:15-10:30

Dr Onesimo Jaramillo

Barricaid Device- solution to disc herniation recurrence

Neurosurgeon, Lomas Hospital of San Luis, Mexico

10:30-10:45

Dr Marc Moise

Spine Osteomyelitis

10:45-11:00

Dr. Majid Rezvani

Spine oncosurgery, Basic and complex approaches

Director of Complex neurospine fellowship program, Neurosurgery Department of Isfahan University of Medical Sciences





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SPN-2/A

Thursday, Feb 27th

Ortho-biologics and revision spine surgery

11:00-11:15

Dr Luan Messi

Between Bridges and Barriers: Facing the Challenges of Treating Spina Bifida in Indigenous Communities of the Amazon

Board certified Brazilian Neurosurgeon; Head of the Acre State trauma center Hospital

11:15-11:30

Q&A

11:30-1:30

Presidential Plenary Keynote



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PNS-3/A

Thursday, Feb 27th

Peripheral Nerve Injury and Repair

1:30-1:45

Dr. Karl Michel

Lower Extremity Entrapment Syndromes: A Focus on Tarsal Tunnel

Genesis Foot & Ankle Institute, Inc

1:45-2:00

Laroslav Tsymbaliuk

Long term Electro-stimulation of Peripheral Nerve Injuries

Neurosurgeon at State Institution "A.P. Romodanov Institute of Neurosurgery
NAMS of Ukraine

2:00-2:15

Marcus Wagner

Management of Brachial Plexus Injuries in Adults

President of N20 Brazil | Professor Neurosurgery, Member of SBMT Board

2:15-2:30

Aaron Filler

Managment of Peripheral Nerve Injuries

Medical Director at Neurography Institute Medical Associates, Inc.



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PNS-3/A

Thursday, Feb 27th

Peripheral Nerve Injury and Repair

2:30-2:45

Adilson José Manuel De Oliveira, MD

Surgical anatomy and approach Musculocutaneous nerve

São Paulo University / Agostinho Neto University

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit



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SPN-4/A

Thursday, Feb 27th

Peripheral Nerve Injuries

4:00-4:15

Adilson José Manuel De Oliveira, PhD

Surgical anatomy of brachial plexus

São Paulo University / Agostinho Neto University

4:15-4:30

Navid Sadoughi

Utilization of class 4 laser for peripheral neuropathy

Chief of podiatry at White Oak Medical Center

4:30-4:45

Adam Hamawy, MD, MBA, FACS

Surgical Treatment for Migrane

Attending Surgeon and PrincetonMD, Medical Director, PrincetonMD Institute, Penn Medicine Princeton Medical Center

4:45-5:00

Muhammad Tehir, MD

Management of war related peripheral never injuries

Fajr Scientific Foundation, Chief Orthopaedic Siurgeon





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PNS-3/A

Thursday, Feb 27th

Peripheral Nerve Injuries

5:00-5:15

Mark Perlmutter, MD

Peripheral Nerve and Hand Injuries in Gaza

Vice President of the International College of Surgeons. President of the World Surgical Foundation, past President of the American Academy of Neurologic and Orthopedic Surgery.

5:15-5:30

Q&A

5:30-6:30

Presidential Plenary Keynote

7:00-9:00

Opening Reception



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Friday, Feb 28th

Bio skills lab

8:00 - 8:15

8:15 - 8:30

8:30 - 8:45

8:45 - 9:00

9:00-9:15

9:15-9:30



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Friday, Feb 28th

Break

10:00-10:15

10:15-10:30

Bio skills

10:30-10:45

10:45-11:00

11:00-11:15

11:15-11:30

TBD

11:30-1:30

Presidential Plenary Keynote



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Friday, Feb 28th

1:30-1:45

1:45-2:00

2:00-2:15

2:15-2:30

2:30-2:45

2:45-3:00

3:00-4:00

Poster and Exhibition Hall Visit



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Friday, Feb 28th

4:00-4:15

4:15-4:30

4:30-4:45

4:45-5:00

5:00-5:15

5:15-5:30

5:30-6:30

Presidential Planery Keynote



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SPN-5/C

Saturday, Mar 1st

Minimally invasive Spine Surgery

8:00-8:15

Dr. Todd Jackman

Minimally Invasive Sacroiliac Joint Fusions

Orthopedic Spine Surgeon, Midwest Spine & Brain Institute

8:15-8:30

Gurpreet Gandhoke

Cost effective research in neurosurgery

Neurosurgeon, Saint Luke's Neurological & Spine Surgery, Kansas City

8:30-8:45

Dr. Namath Hussain

Bi-portal laminectomy

Neurosurgeon, Loma Linda University Medical Center

8:45-9:00

Dr. Min Woo Song

MIS TLIF

Advanced Neurosurgery, Rena and Carson City, Nevada



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Saturday, Mar 1st

Minimally invasive Spine Surgery

9:00-9:15

Don Park

What is possible with Endoscopic Spine Surgery? A Paradigm Shift

Professor of Orthopedic Surgery, UCI

9:15-9:30

Dr. Hamid Reza Abbasi

Transkambin OLLIF - featured speaker

Chief Medical officer, Inspired Spine

9:30-10:00

30min. Coffee & Tea Break



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SPN-6/C

Saturday, Mar 1st

Peripheral Nerve - Anatomy and Diagnostic Modalities

10:00-10:15

Joanne Balkaran

Peripheral Nerve Injury and Transplantation

Ankle & Foot Center of Central Florida

10:15-10:30

Namath Hussain

Endoscopic CTR

Neurosurgeon, Loma Linda University Medical Center

10:30-10:45

Iaroslav Tsymbaliuk

Surgical Treatment of facial nerve injuries

Neurosurgeon at State Institution "A.P. Romodanov Institute of Neurosurgery NAMS of Ukraine

10:45-11:00

Navid Sadoughi

Recent Advances in Treatment of Foot and Ankle Injuries

Chief of podiatry at White Oak Medical Center



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Saturday, Mar 1st

Peripheral Nerve - Anatomy and Diagnostic Modalities

11:00-11:15

11:15-11:30

Q/A

11:30-1:30

Presidential Plenary Keynote



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SPN-7/C

Saturday, Mar 1st

Advance Topics in Peripheral Nerve Surgery

1:30-1:45

Prof. Sergiy Strafun

Challenges in Diagnosing and Treating Gunshot induced Nerve Damage

Chief of Department of Microsurgery and Reconstructive Surgery of the Upper Limb, Institute of Traumatology and Orthopedics of NAMS of Ukraine

1:45-2:15

Namath Hussain

Lumbosacral plexus anatomy

Neurosurgeon, Loma Linda University Medical Center

2:15-2:30

Dr. Maria Katova

Peripheral nerve trauma

Orthopaedic surgeon, Institute of Traumatology and Orthopedics of NAMS of Ukraine

2:30-2:45

Dr. Lee Dellon

Tarsal Tunnel decompression and peroneal nerve decompression surgery

Director, Dellon Institute for Peripheral nerve surgery, Professor of plastic surgery and neurosurgery John Hopkins University School of Medicine

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall visit



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SPN-8/C

Saturday, Mar 1st

Neuro-photo-bio-Modulation and Pain Management Techniques in Spine

3:30-3:45

Scott Sigman

Photobiomodulation: Indications in Mainstream Healthcare

Team Physician UMASS Lowell; CMO OrthoLazer

3:45-4:00

Hamid Abbasi

Transkambin OLLIF

Chief Medical Officer at Inspired Spine

4:00-4:15

Rakesh Kumar

Spondyloptosis of cervical spine

Neurosurgeon at St Joseph's Hospital and Tampa General Hospital

4:15-4:30

Dr. Louis Saegar

Diagnosing SI joint pain using interventional techniques

Founder, Premier Spine and Pain Clinic, Minnesota



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SPN-8/C

Saturday, Mar 1st

Neuro-photo-bio-Modulation and Pain Management Techniques in Spine

4:30-4:45

Dr. Howard Levene

Energy Environment of the degenerated Disk and Implications for Regenerative Medicine

Levene Neurosurgery, Florida

4:45-5:00

Q/A

5:00-6:00

Presidential Plenary Keynote

7:00-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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SPN 9/D

Sunday, Mar 2nd

Spinal surgery and avoiding complications in Morbidly Obese patients

8:00-8:15

Rakesh Kumar

Problems inside the Spinal Dura. Not your usual Cup of Tea!

Neurosurgeon at St Joseph's Hospital and Tampa General Hospital

8:15-8:30

Dr. Anders Cohen

Anterior cervical fusion- standalone results

Neurosurgery Chief at Brooklyn Hospital Center, New York President - Gotham Neurosurgery, New York

8:30-8:45

Dr. Mohammad Khasawneh

Anterior spine exposure in obese patients and challenging anatomy

Vascular and Endovascular Surgeon, Allina Health Minneapolis Heart Institute

8:45-9:00

Dr. Marc Moisi

Tech in revision spine surgery

Neurosurgeon Hurley Neurological Center - Mid-Michigan Center for Brain & Spine Disorders



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SPN 9/D

Sunday, Mar 2nd

Spinal surgery and avoiding complications in Morbidly Obese patients

9:00-9:15

Dr. Shiva Rampersad

Anterior vs Posterior Approach in cervical spine surgery in the Obese patient

Director, Evolve Medical, Trinidad Tobago

9:15-9:30

Q/A

9:30-10:00

30min. Coffee & Tea Break



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SPN 10/D

Sunday, Mar 2nd

Advance Spine Surgery from Endoscopy, Artificial Intelligence to Nanoneurosurgery

10:00-10:15

Dr. Richard S. Hart

Developing Elite Performance in Stress Resilient Surgeons and their OR Teams

Founder of eXeX, Founder of NextGen Surgery, Hepatobiliary, Pancreatic and General Surgeon

10:15-10:30

Dr. Shirazahmed A. Munshi

Experience with percutaneous endoscopic cervical discectomy

Director, DIVINE INSTITUTE OF SPINE AND PAIN CARE, Rajkot, India

10:30-10:45

10:45-11:00

Dr. Dan Herbert

Class IV Laser Therapy for Spinal Conditions and Neuropathy

CEO of CureWave Lasers



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SPN 10/D

Sunday, Mar 2nd

Advance Spine Surgery from Endoscopy, Artificial Intelligence to Nanoneurosurgery

11:00-11:15

Hazem Ahmed Mostafa

AI in Neurosurgery

Secretary General of Egyptian Society of Neurological Surgeons.
Professor of Neurosurgery and Spine Surgery, Ain Shams University

11:30-1:30

Q&A

11:30-1:30

30min. Coffee & Tea Break



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Breaking Boundaries of Science, Technology, Medicine, Art, & Healthcare Policy

Spinal Pain Management Chairs and Co-Chairs: Stephano Sinicropi, M.D.; Marcos Wagner De Sousa Porto, M.D.; Namath Hussain, M.D.; Abilash Haridas, M.D.; Navid Sadoughi, M.D. Research Scientist: Dr. Kevin Morris Fellows: Dr Shiva Rampersad, Muhammad Nauman Bashir, Dr Danel Omoju Interns: Michael Zheng

SPN 11/D

Sunday, Mar 2nd

Spinal Ischemia, Oncology and treatment strategies

1:45-2:00

Marc Moisi

Spine Cord Injury- updated strategies

Chief of Neurosurgery, Hyrley Medical Center, Michigan

2:00-2:15

Mike Chen

Sacral cordomas

Neurosurgeon in Arcadia, City of Hope Comprehensive Cancer Center

2:15-2:30

Daniel Carr

Robotic TLIF

Program Director, Providence Hospital, Southfield Michigan

2:30-2:45

Dr. Louis Saegar

Regenerative medicine options for spinal conditions

Founder, Premier Spine and Pain Clinic, Minnesota

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit



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SPN 11/D

Sunday, Mar 2nd

Surgical advances and the future of Spinal Care: Paradigm Shift

4:00-4:15

Dr. Manuel Salazar

Chronic Intermittent spinal stimulation of posterior cords, long term results

National Medical Center of the Institute for Social Security and Services, Mexico

4:15-4:30

Dr. Keith J. Cronin

Use of whole body Electrical stimulation for back pain

DPT, Neuro20 Technologies

4:30-4:45

Farzad Massoudi

TBD

Assistant Clinical Professor of Neurosurgery at UCLA

4:45-5:00

Jessica West

Optimizing Spinal Cord Stimulation: Merging Advantages of Paddle and Percutaneous Lead Implant with Novel Approach Utilizing METRx Tubular Retractors

Loma Linda University Health, Pain Management Fellow



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SPN 11/D

Sunday, Mar 2nd

Surgical advances and the future of Spinal Care: Paradigm Shift

5:00-5:15

Dr. Nicole Yim

Factors Affecting Outcomes in Patients Receiving High Frequency Spinal Cord Stimulators: A Retrospective Study

Loma Linda University, fellow

5:15-5:30

Q&A

5:30-6:30

Presidential Plenary Keynote



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Immunocellular Therapeutics

Chairs and Co-Chairs: Melissa King, Babak Kateb,

Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-1/A

Thursday, Feb 27th

Non-Invasive Neuromodulation Technology-Chairs and Co-Chairs: Hanzang Wang and Qifa Zhou

8:00-8:15

Immanuel Lerman

Non-invasive Cervical Autonomic Neurography Indicative of Inflammatory Response to Intravenous Lipopolysaccharide Injection

Professor - UCSD

8:15-8:30

Wynn Legon

Exploring ultrasound for non-invasive brain modulation in humans: Past, present, and future

Associate Professor - University of Virginia Tech

8:30-8:45

Dong Song

Reverse translation of transcranial magnetic stimulation to rodent models

Associate Professor - USC



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RMS-1/A

Thursday, Feb 27th

Non-Invasive Neuromodulation Technology-Chairs and Co-Chairs: Hanzang Wang and Qifa Zhou

8:45-9:00

Ryan Ash

Towards noninvasive modulation of neuroplasticity in human deep brain circuits with transcranial focused ultrasound

Instructor - Stanford

9:15-9:30

Q&A

10:00-10:15

30min. Coffee & Tea Break



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Interns: Jeremiah

RMS-2/A

Thursday, Feb 27th

Biomechanics & Biomaterials - Neural Interfaces & Recording Technologies - Co-Chairs: Frank Zhang, Qianbin Wang

10:15-10:30

Siyuan Rao, PhD

Featured Speaker: Multifunctional Neural Probes for Intraspinal Recording in vivo

Assistant Professor - Binghamton University

10:30-10:45

Philipp Gutruf, PhD

Wireless and Battery Free Central and Peripheral Nervous System Interfaces

Associate Professor - University of Arizona

10:45-11:00

Chathura Kumaragamage, PhD

Novel Hardware Approaches for Robust Proton Magnetic Resonance Spectroscopic Imaging (MRSI) for Applications in Neurological and Psychiatric Disorders

Assistant Professor - University of Calgary



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-2/A

Thursday, Feb 27th

Biomechanics & Biomaterials - Neural Interfaces and Recording Technologies - Co-Chairs: Frank Zhang, Qianbin Wang

11:00-11:15

Xin Sun

Contrast-Free Blood Vessel Imaging Using High Frequency Ultrasound Array

Graduate Student - University of Southern California

11:15-11:30

Q&A

11:30-1:30

Presidential Plenary Keynote



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-3/A

Thursday, Feb 27th

Game changing Brain Mapping and Therapeutics Innovations & Technologies Co-Chairs: Frank Zhang and Zhongping Chen

1:30-1:45

Zhongping Chen, PhD

Optical coherence elastography for brain research (Featured Speaker)

Professor - University of California, Irvine

1:45-2:00

2:00-2:15

Chen Ran, PhD

A brainstem map for visceral sensations

Assistant Professor - The Scripps Research Institute

2:15-2:30

Ashraf El-Sayegh MD

Newest Communication assistive devices in ALS

Professor of Pulmonary Medicine, Cedars-Sinai Medical Center

2:30-2:45

Sharmila Koppiseti, MD

The Future of Cell Therapy

Senior VP of Research & Development at Celularity

2:45-3:00

Q&A

3:00-3:30

Poster and Visiting Exhibition Hall



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-4/A

Thursday, Feb 27th

Advancements in CAR-T/Stem Cell Therapy for Neurological Disorders Co-Chairs: Evan Snyder, and Robert Hariri

4:00-4:15

Evan Snyder Featured Speaker**

Viewing cognitive disorders as neural “network’opathies” that are druggable – A stem cell approach

UCSD Professor, Human Genetics Program; Aging, Immunity, & Tumor Microenvironment Program; Center for Genetic Disorders & Aging Research, Director, Center for Stem Cells & Regenerative Medicine, UCSD

4:15-4:30

Su-Chun Zhang, MD, PhD

Stem Cell Therapy for Neurological Disorders

Sanford Burnham Prebys Medical Discovery Institute

4:30-4:45

Lisa Feldman, MD

Chimeric Antigen Receptor (CAR) Tcell Therapy for Primary Brain Tumors and Leptomeningeal Disease

Assistant Professor of Neurosurgery, City of Hope Comprehensive Cancer Center



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-4/A

Thursday, Feb 27th

Advancements in CAR-T/Stem Cell Therapy for Neurological Disorders Co-Chairs: Evan Snyder, and Robert Hariri

4:45-5:00

Xinnan Wang PhD

Mitochondrial Dysfunction in Neurodegenerative Disorders

Research Investigator at Gladstone Institutes

5:15-5:30

Q/A

5:30-6:30

Presidential Plenary Keynote

7:00-9:00

Opening Reception



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-5/B

Friday, Feb 28th

Neuromodulation for Disease Treatments-Chairs and Co-Chairs: Hanzang Wang and Qifa Zhou

8:00-8:15

Hubert Lim

Emerging ultrasound approaches to noninvasively modulate the nervous system and end-organs for treating multiple inflammatory disorders

Professor

8:15-8:30

Guangqiang (Jay) Jiang

Application of neuromodulation techniques in urinary and bowel dysfunction

CTO

8:30-8:45

Vivek Bush

Percutaneous Network Mapping for Personalized Psychiatric Neuromodulation

Assistant Professor



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-5/B

Friday, Feb 28th

Neuromodulation for Disease Treatments-Chairs and Co-Chairs: Hanzang Wang and Qifa Zhou

8:45-9:00

Victor Pikov

Bioelectronic Medicine: parasympathetic nerve stimulation for treating chronic inflammation

CEO

9:00-9:15

Yi-Kai Lo

Advancing SCI Treatment with Non-Invasive Spinal Stimulation - Translating applied research to functional improvement

CEO

9:15-9:30

Q/A

9:30-10:00

30 min Coffee and Tea Break



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Immunocellular Therapeutics

Chairs and Co-Chairs: Melissa King, Babak Kateb,

Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-6/B

Friday, Feb 28th

Updates on Parkinson's Disease and Epilepsy: Co-Chairs: Daniel Di Lorenzo and Jeanne Loring, PhD

10:00-10:15

Jeanne Loring, PhD Featured Speaker**

iPSc Derived dopaminergic neurons as a cellular treatment for Parkinson's disease

Professor Emeritus SCRIPTS research institute

10:15-10:30

10:30-10:45

Daniel DiLorenzo, MD

Neuroengineering and NeuroVantures: Neurosensing Innovations and a War Story on the Launching of a Venture to Treat Epilepsy

Assistant Professor of Neurosurgery and Biomedical Science, Department of Neurosurgery, Loma Linda University

10:45-11:00

Dawn Eliashiv, MD

Recent Advances in Epilepsy Treatment

Professor of Neurology and Neurosurgery, UCLA David Geffen School of Medicine



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Interns: Jeremiah

RMS-6/B

Friday, Feb 28th

Updates on Parkinson's Disease and Epilepsy: Co-Chairs: Daniel Di Lorenzo and Jeanne Loring, PhD

11:00-11:15

Vasillis Kastsaros, MD

pre-Operative advanced Imaging Protocols for drug-resistant Epilepsy

Department of Advanced Imaging Modalities, General Anti-Cancer and Oncological Hospital of Athens, St. Savvas

11:15-11:30

Q&A

11:30-1:30

Presidential Plenary Keynote



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-7/B

Friday, Feb 28th

Biomechanics & Biomaterials - Elastography and Brain Function - Co-Chairs: Drs. Frank Zhang, Qianbin Wang

1:30-1:45

Curtis Johnson (30-minute talk)

Featured Speaker: In Vivo Brain Biomechanics with MR Elastography

Associate Professor - University of Delaware

2:00-2:15

Hsiao-Chuan Liu

Longitudinal Shear Wave Elastography in Neurosurgery

Assistant Professor - University of Southern California (USC)

2:15-2:30

Adnan Rayes

Estimating Thrombus Elasticity by Shear Wave Ultrasound Elastography for Improved Stroke Therapy

Graduate Student - University of Southern California (USC)



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-7/B

Friday, Feb 28th

Biomechanics & Biomaterials - Elastography and Brain Function - Co-Chairs: Drs. Frank Zhang, Qianbin Wang

2:30-2:45

Fengyi Zhang

Optical clearing enhanced optical coherence elastography of ex vivo mouse brain

Graduate Student - University of California, Irvine

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit

Estimating Thrombus Elasticity by Shear Wave Ultrasound Elastography for Improved Stroke Therapy

Graduate Student - University of Southern California (USC)



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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-8/B

Friday, Feb 28th

Experts discuss the latest advancements in Multiple Sclerosis - Co-Chairs: Babak Kateb

4:00-4:15

Jeffrey Huang, PhD

Role of MicroGlia in CNS Myelin Regeneration: Implications in Multiple Sclerosis

Associate Professor of Biology, Georgetown University

4:15-4:30

4:30-4:45

Emily Louise Baadsvik, PhD

Quantitative Mapping of the Meline Bilayer with MRI

Institute for Biomedical Engineering, ETH Zurich and University of Zurich, Switzerland

4:45-5:00

Carl Taswell, MD, PhD

The EPSMS Clinical Trial: Entire-body PET Scans for Multiple Sclerosis

Brain Health Alliance





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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS-8/B

Friday, Feb 28th

Experts discuss the latest advancements in Multiple Sclerosis - Co-Chairs: Babak Kateb

5:15-5:30

Keith Cronin

Whole body electrical muscle stimulation to improve physical function in patients with Multiple Sclerosis

CEO of Neuro20 Technology

5:30-5:45

Q&A

6:00-7:00

Presidential Plenary Keynote

The EPSMS Clinical Trial: Entire-body PET Scans for Multiple Sclerosis

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Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS 9/A

Saturday, Mar 1st

Advances in Neuromodulation hardware-Chairs and Co-Chairs: Hanzang Wang, and Qifa Zhou

8:00-8:15

Charles Caskey

MR-guided focused ultrasound for high precision neuromodulation

Associate Professor

8:15-8:30

Philipp Gutruf

Wireless Battery-Free Neuromodulation and Recording technologies

Associate Professor

8:30-8:45

Yaoyao Jia

Wirelessly Powered Miniature Biomedical Devices

Assistant Professor

8:45-9:00

Alexander Yeh

Clinical Use of Ultra-Miniaturized Implantable Device for Neuromodulation of Visceral Nerve Targets

CTO



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RMS 9/A

Saturday, Mar 1st

Advances in Neuromodulation hardware-Chairs and Co-Chairs: Hanzang Wang, and Qifa Zhou

9:00-9:15

Xiaoting Jia

Flexible fiber-based neural probes for electrical, optical, and chemical sensing and neuromodulation

Associate Professor

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Interns: Jeremiah

RMS 9/B

Saturday, Mar 1st

Brain Organoids: Chair: Nilay Patel PhD, Melissa King, MBA.,

10:00-10:15

Tyler Mark Pierson, MD-PhD

IPSC and Cerebral Organoids Models of Ultra-rare Neurogenetic Disorders

The Fashion Industries Guild Endowed Fellow in Pediatric Undiagnosed Diseases; The Diana and Steve Marienhoff Fashion Industries Guild Endowed Fellow in Pediatric Neuromuscular Diseases

10:15-10:30

Valerie Arboleda, MD, PhD

Stem Cell Models of Epigenetic nNeurodevelopment Disorders— From Mechanism to Precision Treatments

Associate Professor

10:30-10:45

Momoko Watanabe, Ph.D.

Self-organized brain organoids to model neurological disorders

Assistant Professor, Department of Anatomy & Neurobiology, Sue & Bill Gross Stem Cell Research Center

10:45-11:00

Giorgia Quadrato, PhD

Upgrading the physiological relevance of human brain organoids

Assistant Professor, Stem Cell Biology and Regenerative Medicine, Broad CIRM Center



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11:15-11:30

Q&A

11:30-1:30

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RMS 9/C

Saturday, Mar 1st

MS Session Co-Chairs: Flavia Nelson, Lawrence Steinman

1:30-1:45

Flavia Nelson, MD

Featured Speaker: Stem Cell Transplant in Ms and NMO

Professor of Clinical Neurology
Chief, CNS Autoimmune Disorders Division
Director, National Multiple Sclerosis Center of Excellence

1:45-2:00

Lawrence Steinman, MD

Featured Speaker: Opposing Roles of EBV and CMV in the Triggering and Progression of Multiple Sclerosis

Zimmermann Prof. of Neurology and Neurological Science and Pediatrics, Backman Center for Molecular Medicine, Stanford University School of Medicine

2:00-2:15

Pablo Avalos, MD

TBD

Associate Director of Translational Medicine, Bpard of Governors Regenerative Medicine Institute, Cedars-Sinai Medical Center

2:15-2:30

Robert Hariri, MD, PhD

Featured Speaker: Cell Therapy in Neurodegenerative Disorders

Chairman & CEO, Celularity



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RMS 9/C

Saturday, Mar 1st

MS Session Co-Chairs: Flavia Nelson, Lawrence Steinman

2:30-2:45

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit



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Interns: Jeremiah

RMS 9/D

Saturday, Mar 1st

Nanoparticles for neuromodulation Co-Chairs: Guosong Hong

4:00-4:15

Chen Yang, PhD

Photoacoustic retinal stimulation

Professor - Boston University

4:15-4:30

Sedat Nizamoglu, PhD

Near-Infrared Photovoltaic Neurostimulation via Quantum Dots

Professor - Koc University

4:30-4:45

Jae Hyun Lee, PhD

Magnetic tools for remote and wireless neuromodulation in animals

Assistant Professor - Yonsei University

4:45-5:00

Huiliang (Evan) Wang, PhD

**Designing Ultrasound-responsive Nanoparticles for Non-invasive,
Genetically-targeted Neuromodulation**

Assistant Professor - UT Austin



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RMS 9/C

Saturday, Mar 1st

MS Session Co-Chairs: Flavia Nelson, Lawrence Steinman

5:00-5:15

Shan Jiang, PhD

Brain-wide neuromodulation via sono-optogenetics

Postdoctoral Fellow - University of Virginia

5:15-5:30

Q&A

5:30-6:30

Presidential Plenary Keynote

7:30-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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Interns: Jeremiah

RMS 10/A

Sunday, Mar 2nd

Biomechanics & Biomaterials - Biomaterials & Modulation - Co-Chairs: Drs. Frank Zhang, Qianbin Wang

8:00-8:15

Shaoting Lin, PhD

Selective-permeable Electrical Hydrogel Bio-adhesives for Localized Therapeutic Intervention

Assistant Professor - Michigan State University

8:15-8:30

Shang Song, PhD

Advanced Microfabrication for Engineering Microphysiological Blood-Brain Barrier (BBB) Platform

Assistant Professor - University of Arizona

8:30-8:45

X. Frank Zhang, PhD (Section Co-chair)

Mechanobiology of Brain Microvascular Endothelium

Professor - University of Massachusetts Amherst

9:00-9:15

Yuanyuan Liu, PhD

New thoughts on pain modulation

Stadtman Tenure Track Investigator - NIH/NIDCR



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RMS 10/A

Sunday, Mar 2nd

Biomechanics & Biomaterials - Biomaterials & Modulation - Co-Chairs: Drs. Frank Zhang, Qianbin Wang

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Interns: Jeremiah

RMS 10/B

Sunday, Mar 2nd

Biomechanics & Biomaterials - Neurosensory Systems & Biomechanics - Co-Chairs: Drs. Frank Zhang, Qianbin Wang

10:00-10:15

Yu Zhang, PhD

AI-guided Neuroimaging Biomarkers Empower Precision Mental Health

Associate Professor - Lehigh University

10:15-10:30

Chase Cornelison, PhD

Fluid biomechanics as a therapeutic target after central nervous system injury

Assistant Professor - University of Massachusetts Amherst

10:30-10:45

Computer Simulations for Ultrasound-Mediated Blood-Brain Barrier Opening

Computer Simulations for Ultrasound-Mediated Blood-Brain Barrier Opening

Assistant Professor - Florida Institute of Technology

10:45-11:00

Fan Wei

Integrative ultrasound platform for multi-modal mechanotransduction study of 3D in vitro models

Graduate Student - University of Southern California



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Immunocellular Therapeutics

Chairs and Co-Chairs: Melissa King, Babak Kateb,

Fellows: Dr Rampersad, Dr Marcel

Interns: Jeremiah

RMS 10/B

Sunday, Mar 2nd

Biomechanics & Biomaterials - Neurosensory Systems & Biomechanics - Co-Chairs: Drs. Frank Zhang, Qianbin Wang

11:00-11:15

Qianbin Wang, PhD (Section Co-chair)

Glaucomatous Biomechanics: From Vision Loss to Sleep Disorder

Assistant Professor - Binghamton University

11:15-11:30

Q&A

11:30-1:30

Presidential Plenary Keynote



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RMS 10/C

Sunday, Mar 2nd

Recent Advances in ALS

1:30-1:45

Ashraf El-Sayegh MD

Pulmonary Management of ALS patients

Professor of Pulmonary Medicine, Cedars-Sinai Medical Center

10:15-10:30

Pablo Avalos, MD

Associate Director of Translational Medicine, Board of Governors Regenerative Medicine Institute, Cedars-Sinai Medical Center

2:00-2:15

2:15-2:30

2:30-2:45

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibitional hall Visit



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RMS 10/D

Sunday, Mar 2nd

Nanoneurosurgery-Babak Kateb, Ming hsieh, John Hiess and John Yu, Joe Bolanos and Kevin

4:00-4:15

4:15-4:30

4:30-4:45

4:45-5:00

5:00-5:15

5:15-5:30

5:30-6:30

Q&A



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Interns: Antonina Wiewior

NOC-1/A

Thursday, Feb 27th

Panel on Brain Metastases Prevention: From Preclinical to Clinical Translation

8:00-8:05

Diana Citelly, PhD

Introduction by Moderators

Associate Professor, Brain Metastasis Research; Department of Pathology

Alexandra Zimmer, MD, MSc

Associate Professor, Hematology & Medical Oncology Division; Breast Cancer Program Director

8:05-8:45

Christine Hodgdon, MS

Speakers

Patient Advocate

Alexandra Zimmer, MD, MSc

Associate Professor, Hematology & Medical Oncology Division; Breast Cancer Program Director



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NOC-1/A

Thursday, Feb 27th

Panel on Brain Metastases Prevention: From Preclinical to Clinical Translation

8:00-8:05

Maxine Umeh Garcia, PhD

Instructor, Department of Biomedical Data Science

8:45-9:30

J Manuel Perez, PhD; DeeDee Smart, MD PhD; Maxine Umeh Garcia, PhD ;Christine Hodgdon, MS ; Stephanie Yoon, MD, MS & Joanne Mortimer, MD, FACP, FASCO

Panel Discussion

9:30-10:00

30min. Coffee & Tea Break



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Interns: Antonina Wiewior

NOC-2/A

Thursday, Feb 27th

Tumor Board 1: Benign Brain Tumors

10:00-10:15

Diana Kaya, MD (Neuroradiologist)

Case 1: Meningioma

Assistant Professor, Neuroradiology Head & Neck Imaging

10:15-10:30

Shaan Mohammed Raza MD (Neurosurgeon)

Case 2: Pituitary Adenoma

Professor, Department of Neurosurgery, Division of Surgery

10:30-10:45

Leomar Y Ballester, MD, PhD (Neuropathologist)

Case 3: Schwannoma

Associate Professor, Department of Pathology, Division of Pathology/Lab Medicine

10:45-11:00

Todd A Swanson, MD (CNS Radiation Oncologist)

Case 4: Chordoma

Professor, Department of Radiation Oncology, Division of Radiation Oncology



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Interns: Antonina Wiewior

NOC-2/A

Thursday, Feb 27th

Tumor Board 1: Benign Brain Tumors

11:00-11:15

Ashley Elimar Aaroe, MD (Neuro-Oncologist)

Case 5

Assistant Professor, Department of Neuro-Oncology, Division of Cancer Medicine

11:15-11:30

Tumor Board format: 5 cases will be discussed by the panelists (18 minutes per case)

12:00-1:30

Presidential Keynote



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Interns: Antonina Wiewior

NOC-3/A

Thursday, Feb 27th

Translational Neuro-Oncology

1:30-1:45

Jana Portnow, MD

Neural stem cell-based oncolytic virotherapy for treatment of glioblastoma

Professor, Department of Medical Oncology & Therapeutics Research; Co-Director, Brain Tumor Program

1:45-2:00

Ishwar Puri, PhD

Revolutionizing glioblastoma treatment: A high-throughput 3D spheroid platform for drug screening.

Senior Vice President, Research and Innovation

2:00-2:15

Corinne Beinat, PhD

Monitoring of Glioma Ferroptosis through Inhibition of System Xc-

Assistant Professor of Radiology- Molecular Imaging Program

2:15-2:30

Pier Paolo Peruzzi, MD, PhD

New generation high throughput pharmacophenotyping in patients with glioblastoma

Assistant Professor of Neurosurgery



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Fellows: Japjee Parmar, Arman Sourani, Ehanga Idi Marcel

Interns: Antonina Wiewior

NOC-3/A

Thursday, Feb 27th

Translational Neuro-Oncology

2:30-2:45

Eric A. Mellon, MD, PhD

Whole Brain Spectroscopic MRI for Recurrent Glioblastoma

Associate Professor of Radiation Oncology; Co-Leader, Sylvester Neuro-Oncology Site Disease Group; Medical Director, Stereotactic Radiotherapy, Department of Radiation Oncology

2:45-3:00

3:00-3:30

30min. Coffee & Tea Break



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Interns: Antonina Wiewior

NOC-4/A

Thursday, Feb 27th

Scientific/Clinical Updates: Benign Brain Tumors

3:30-3:45

James D. Battiste, MD, PhD

Local delivery of gene editing therapies for benign brain tumors

Associate Professor, Department of Neurosurgery

3:45-4:00

Tresa McGranahan, MD, PhD

Advances in systemic treatments for benign brain tumors

Medical Neuro-oncologist

4:00-4:15

Vinay K. Puduvalli, MD

Benign Brain Tumors: Are they all benign?

Professor and Chair, Department of Neurooncology

4:15-4:30

Zachary Janatpour, MD

Foreshadowing the upcoming molecular classification for the diagnosis of meningioma

Physician



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Fellows: Japjee Parmar, Arman Sourani, Ehanga Idi Marcel

Interns: Antonina Wiewior

NOC-4/A

Thursday, Feb 27th

Scientific/Clinical Updates: Benign Brain Tumors

4:30-4:45

4:45-5:00

Q & A

5:30-6:30

Presidential Keynote

7:00-9:00

Opening Reception



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Interns: Antonina Wiewior

NOC-4/A

Thursday, Feb 27th

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4:30-4:45

4:45-5:00

Q & A

5:30-6:30

Presidential Keynote

7:00-9:00

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Interns: Antonina Wiewior

NOC-5/B

Friday, Feb 28th

Panel on Building Multi-Dimensional Solutions for Early Detection and Treatment of Brain Metastases

8:00-8:05

Melanie Hayden-Gephart, MD

Introduction by Moderators

Professor of Neurosurgery, Neurology & Neurological Sciences

J Manuel Perez, PhD

Program Director, Division of Cancer Treatment and Diagnosis Radiation Research Program

8:05-8:45

Ms. Niki Kozak

Speakers

Patient Advocate

Melanie Hayden-Gephart, MD

Professor of Neurosurgery & Director, Stanford Brain Tumor Center



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Interns: Antonina Wiewior

NOC-5/B

Friday, Feb 28th

Panel on Building Multi-Dimensional Solutions for Early Detection and Treatment of Brain Metastases

8:00-8:05

Timothy J. Kaufmann, MD, MS

Professor of Radiology; Brain Tumor Program

Eli Gibson, PhD

Director of Engineering - Neuro AI

8:45-9:30

**J Manuel Perez, PhD; Nicole Willmarth, PhD; Eli Gibson, PhD;
Timothy J. Kaufmann, MD, MS; Ms. Niki Kozak & Michelle M. Kim,
MD**

Panel Discussion

9:30-10:00

30min. Coffee & Tea Break



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Interns: Antonina Wiewior

NOC-6/B

Friday, Feb 28th

Tumor Board 2: Low Grade Gliomas

10:00-10:15

Shekhar Khanpara, MD (Neuroradiologist)

Case 1: Ganglioglioma

Assistant Professor, Department of Neuroradiology, Division of Diagnostic Imaging

10:15-10:30

Maria A Gubbiotti, MD, PhD (Neuropathologist)

Case 2: Glioneuronal Tumor

Assistant Professor of Neuropathology

10:30-10:45

Sherise Desiree Ferguson, MD (Neurosurgeon)

Case 3: Pilomyxoid Astrocytoma

Associate Professor, Department of Neurosurgery, Division of Surgery

10:45-11:00

Martin C. Tom, MD (CNS Radiation Oncologist)

Case 4: Grade 2 IDH-mutant Glioma

Assistant Professor, Department of Radiation Oncology, Division of Radiation Oncology



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Interns: Antonina Wiewior

NOC-6/B

Friday, Feb 28th

Tumor Board 2: Low Grade Gliomas

11:00-11:15

Barbara Jane O'Brien, MD (Neuro-Oncologist)

Case 5

Associate Professor, Department of Neuro-Oncology, Division of Cancer Medicine

11:15-11:30

**Tumor Board format: 5 cases will be discussed by the panelists
(18 minutes per case)**

11:30-1:30

Presidential Keynote



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Interns: Antonina Wiewior

NOC-7/B

Friday, Feb 28th

Electromagnetic Therapies

1:30-1:45

Carsten Hagemann, PhD

Breaking Barriers: How Tumor Treating Fields (TTFields) Enhance Blood-Brain Barrier Permeability

Section Experimental Neurosurgery, Department of Neurosurgery

1:45-2:00

Michael Iv, MD

Post-treatment Brain Tumor Imaging in the Current Neuro-Oncology Landscape

Clinical Professor- Radiology; Director- Brain Tumor Imaging, Stanford Brain Tumor Center

2:10-2:30

Carlos Kamiya-Matsuoka, MD

Application of 200 kHz Tumor Treating Fields (TTFields) in patients with Infratentorial High-grade Glioma: Case Series

Associate Professor, Department of Neuro-Oncology, Division of Cancer Medicine

2:30-2:45

Vivek Sharma

Modulating the tumor microenvironment in with alternating magnetic fields: preclinical findings on Asha Therapy

CEO and Founder, Asha Medical



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Interns: Antonina Wiewior

NOC-7/B

Friday, Feb 28th

Electromagnetic Therapies

2:45-3:00

Q & A

3:00-4:00

Poster and Exhibition Hall Visit



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Interns: Antonina Wiewior

NOC-8/B

Friday, Feb 28th

Scientific/Clinical Updates: Low & High Grade Gliomas

4:00-4:15

Thomas H. Beckham, MD, PhD

Surgically Targeted Radiation Therapy for Gliomas

Assistant Professor, Department of Radiation Oncology, Division of Radiation Oncology

4:15-4:30

Na Tosha Gatson, MD, PhD

Extending Quality Living in Neuro-Oncology: Innovations not inventions

Senior Medical Director- Neuro-Oncology Center of Excellence; Professor; Master Clinician

4:30-4:45

Carlos Kamiya-Matsuoka, MD

Targeted therapy in low- and high-grade Glioma

Associate Professor, Department of Neuro-Oncology, Division of Cancer Medicine

4:45-5:00

Chirag Patel, MD, PhD

Biological Therapies for Gliomas

Assistant Professor, Department of Neuro-Oncology, Division of Cancer Medicine



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Interns: Antonina Wiewior

NOC-8/B

Friday, Feb 28th

Scientific/Clinical Updates: Low & High Grade Gliomas

5:00-5:15

Katsumi Hirose, MD, PhD

How should BPA-BNCT be applied to the treatment of malignant gliomas?

Associate Professor, Department of Radiation Oncology

5:15-5:30

Q/A

5:30-6:30

Presidential Keynote



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Interns: Antonina Wiewior

NOC-9/C

Saturday, Mar 1st

Panel on leveraging Real World Data to Accelerate Advances in Brain Metastases Research and Treatment

8:00-8:05

Douglas Kondziolka, MD, MSc, FRSC, FACS

Introduction by Moderators

Gray Family Professor of Neurosurgery and Radiation Oncology

Michelle M. Kim, MD

Professor of Radiation Oncology

8:05-8:45

Christine Hodgdon, MS

Speakers

Patient Advocate

Paul W. Sperduto, MD, MPP, FASTRO

Adjunct Professor, Radiation Oncology

Eric K. Oermann, MD

Assistant Professor of Neurosurgery, Radiology, and Data Science



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Interns: Antonina Wiewior

NOC-9/C

Saturday, Mar 1st

Panel on leveraging Real World Data to Accelerate Advances in Brain Metastases Research and Treatment

Charles Mayo, PhD

Professor in Radiation Oncology & Director of Radiation Oncology Informatics and Analytics

Alberto Santamaria-Pang, PhD

8:45-9:30

J Manuel Perez, PhD; Paul W. Sperduto, MD, MPP, FASTRO; Eric K. Oermann, MD; Susan M Chang, MD; Joseph Evans, MD, PhD; Charles Mayo, PhD; Alberto Santamaria-Pang, PhD & Christine Hodgdon, MS

Panel Discussion

9:30-10:00

30min. Coffee & Tea Break



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Interns: Antonina Wiewior

NOC-10/C

Saturday, Mar 1st

Tumor Board 3: Pediatric Brain Tumors

10:00-10:15

Katrina O'Halloran, MD, MS (Neuro-Oncologist)

Case 1: Medulloblastoma

Assistant Professor of Clinical Pediatrics

10:15-10:30

Benita Tamrazi, MD (Neuroradiologist)

Case 2: Juvenile Pilocytic Astrocytoma

Associate Professor of Clinical Radiology; Director of Neuroradiology; Radiology Director-Brain Tumor Center

10:30-10:45

Peter Chiarelli, MD (Neurosurgeon)

Case 3: Ependymoma

Assistant Professor of Clinical Neurological Surgery

10:45-11:00

Debra Hawes, MD (Neuropathologist)

Case 4: Diffuse Intrinsic Pontine Glioma

Associate Professor of Clinical Pathology; Director of Pathology Core Lab



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NOC-10/C

Saturday, Mar 1st

Tumor Board 3: Pediatric Brain Tumors

11:00-11:15

Kenneth Wong, MD (CNS Radiation Oncologist)

Case 5

Associate Professor of Clinical Radiation Oncology

11:15-11:30

**Tumor Board format: 5 cases will be discussed by the panelists
(18 minutes per case)**

11:30-1:30

Presidential Keynote



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NOC-11/C

Saturday, Mar 1st

Biomarkers for Prognosis and Treatment Monitoring

1:30-1:45

Jason Johnson, MD, MBA

Innovations and Breakthroughs in Advanced Brain Tumor Imaging

Associate Professor- Radiology and Biomedical Imaging; Section Chief- Neuroradiology

1:45-2:00

Leomar Y. Ballester, MD, PhD

Important Biomarkers for the Diagnosis and Grading of CNS Tumors Current Neuro-Oncology Landscape

Associate Professor, Department of Pathology, Division of Pathology/Lab Medicine

2:00-2:15

Hamed Arami, PhD

Advanced Brain-Machine Interfaces for Early Diagnosis and Treatment of Brain Diseases

Assistant Professor- School for Engineering of Matter, Transport and Energy

2:15-2:30

Golnaz Morad, DDS, PhD

Bacterial signals in primary and metastatic brain tumors

Postdoctoral Fellow



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NOC-11/C

Saturday, Mar 1st

Biomarkers for Prognosis and Treatment Monitoring

2:30-2:45

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit



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NOC-12/C

Saturday, Mar 1st

Scientific/Clinical Updates: Pediatric Brain Tumors

4:00-4:15

Shadi Shams, DO

TTFields Trials in Pediatric Neuro-oncology

Child Neurology Resident Physician

4:15-4:30

Anita Mahajan, MD

Proton Therapy for Pediatric Brain Tumors: An Update

Professor of Radiation Oncology; Consultant- Department of Radiation Oncology;
Consultant- Department of Pediatric and Adolescent Medicine

4:30-4:45

Joya Chandra, PhD

Translational potential for targeting epigenetic and kinase signaling vulnerabilities in pediatric high grade gliomas

Curtis Family Endowed Distinguished Professor of Pediatric Cancer Research; Co-Director,
Center for Energy Balance in Cancer Prevention and Survivorship

4:45-5:00

Anahita Fathi Kazerooni, PhD

Imaging-AI in Pediatric Neuro-Oncology

Assistant Professor Department of Neurosurgery



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Interns: Antonina Wiewior

NOC-11/C

Saturday, Mar 1st

Biomarkers for Prognosis and Treatment Monitoring

5:00-5:15

5:15-5:30

Q&A

5:30-6:30

Presidential Keynote

7:30-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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Interns: Antonina Wiewior

NOC-13/D

Sunday, Mar 2nd

Panel on Towards Precision Neuro-Oncology

8:00-8:15

Christina Tsien, MD, FASTRO

Advances in Radiation Oncology Technologies

Michael Rosenbloom Endowed Chair of Radiation Oncology

8:15-8:30

Chetan Bettegowda, MD, PhD

Advances in Liquid Biopsy in Neuro-Oncology

Jennison and Novak Families Professor of Neurosurgery

8:30-8:45

Erik P. Sulman, MD, PhD

Advances in Theranostics in Neuro-Oncology

Professor, Department of Radiation Oncology & Vice Chair, Research, Department of Radiation Oncology

8:45-9:00

Rivka Colen, MD

Advances in Radiogenomics in Neuro-Oncology

Associate Professor, Department of Radiology



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NeuroOncology

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Fellows: Japjee Parmar, Arman Sourani, Ehanga Idi Marcel

Interns: Antonina Wiewior

NOC-13/D

Sunday, Mar 2nd

Panel on Towards Precision Neuro-Oncology

8:00-8:15

Clark C. Chen, MD, PhD

Advances in Neurosurgical Technologies

Professor, Department of Neurosurgery & Director, Brain Tumor Program

Moderators: Susan M. Chang, MD Professor and Lai Wan Kan Endowed Chair Division of Neuro-Oncology Director, UCSF Neuro-Oncology Gordon Murray Caregiver Program (University of California, San Francisco) & Christina Tsien, MD, FASTRO Michael Rosenbloom Endowed Chair of Radiation Oncology (McGill University)

Panelists: J Manuel Perez, PhD (Program Director, Division of Cancer Treatment and Diagnosis Radiation Research Program (National Cancer Institute); Susan M Chang, MD (Professor and Lai Wan Kan Endowed Chair Division of Neuro-Oncology Director, UCSF Neuro-Oncology Gordon Murray Caregiver Program (University of California, San Francisco) & Babak Kateb, MD, PhD (President-Brain Mapping Foundation)

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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NOC-14/D

Sunday, Mar 2nd

Tumor Board 4: High Grade Gliomas

10:00-10:15

Alexander M. Khalaf, MD (Neuroradiologist)

Case 1: Glioblastoma

Assistant Professor, Department of Neuroradiology, Division of Diagnostic Imaging

10:15-10:30

Jason T Huse, MD, PhD (Neuropathologist)

Case 2: Grade 4 IDH-mutant Astrocytoma

Professor with Tenure, Department of Pathology and Translational Molecular Pathology

10:30-10:45

Chibawanye I. Ene, MD, PhD (Neurosurgeon)

Case 3: Oligodendroglioma

Assistant Professor, Department of Neurosurgery, Division of Surgery

10:45-11:00

Subha Perni, MD (CNS Radiation Oncologist)

Case 4: H3K27M-altered Glioma

Assistant Professor, Department of Radiation Oncology, Division of Radiation Oncology





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NOC-14/D

Sunday, Mar 2nd

Tumor Board 4: High Grade Gliomas

11:00-11:15

Katsumi Hirose, MD, PhD

Case 5

Assistant Professor, Department of Neuro-Oncology, Division of Cancer Medicine

11:15-11:30

**Tumor Board format: 5 cases will be discussed by the panelists
(18 minutes per case)**

11:30-1:30

Presidential Keynote



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NOC-15/D

Sunday, Mar 2nd

New Developments in Immunotherapy

1:30-1:45

Christopher Jackson, MD

Targeting T cell metabolism to enhance immunotherapy against brain tumors

Assistant Professor of Neurosurgery

1:45-2:00

Gavin Dunn, MD, PhD

TBD

Associate Professor of Neurosurgery

2:00-2:15

Derek Wainwright, PhD

IDO1 as a target for glioma immunotherapy - dead or playing possum?

Associate Professor-Cancer Biology and Neurological Surgery; Scientific Director- Brain Tumor Research; Program Leader-Cancer Biology & Therapeutics

2:15-2:30

Tomas Garzon-Muvdi, MD, MSc

Harnessing stem-like CD8 T cells to improve brain tumor immunotherapy

Associate Professor, Department of Neurosurgery



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Interns: Antonina Wiewior

NOC-15/D

Sunday, Mar 2nd

New Developments in Immunotherapy

2:30-2:45

Bryan Choi, MD, PhD

TBD

Assistant Professor of Neurosurgery; Associate Director-Center for Brain Tumor Immunology and Immunotherapy

2:45-3:00

Christina Jackson, MD

TBD

Assistant Professor of Neurosurgery

3:00-4:00

Poster and Exhibition Hall Visit



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NOC-16/D

Sunday, Mar 2nd

Scientific/Clinical Updates: Metastatic Brain Tumors

4:00-4:15

Keng Lam, MD

Current Landscape of Leptomeningeal Disease from Solid Tumors

Neuro-Oncologist; Department of Medical Oncology and Therapeutics Research

4:15-4:30

Jing Li, MD, PhD

Updates in the Current Management of Brain Metastasis (With a Focus on the Challenges Incorporating CNS-Penetrating Systemic Therapy into the Standard Care of Radiation and Surgery in the Lack of Phase III Data)

Professor, Radiation Oncology; Chair Ad Interim, Dept. CNS Radiation Oncology; Director, Gamma Knife Radiosurgery Co-Director, MD Anderson Brain Metastasis Clinic and Research Program

4:30-4:45

Toni Qian Cao, MD

New targets for the treatment of brain metastases

Stanford neuro-oncology fellow

4:45-5:00

Clara Ferreira, PhD

GammaTile dose coverage and post-operative dosimetry in high-grade meningioma

Assistant Professor of Radiation Oncology



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NOC-16/D

Sunday, Mar 2nd

Scientific/Clinical Updates: Metastatic Brain Tumors

5:00-5:15

5:15-5:30

Q&A

5:30-6:30



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O.T.R Fellow : Shiva Rampersad ; Putri Caesa Inten : Ria Chawla

O&O-1/A

Thursday, Feb 27th

Glymphatic and Lymphatic Flow During Sleep - Co-Chairs: Dr. Zelinsky and Dr. Delia DeBuc

8:00-8:15

Nancy Rothstein, MBA

Featured Speaker : OPTIMIZING SLEEP: Aligning Behaviors with Biological Design

The Sleep Ambassador

8:30-8:45

Lernik Torossian, OD, FAAO

TBD

8:45-9:00

John K. Werner, Jr. MD, PhD

Sleep, Glymphatic Function and Traumatic Brain Injury

Commander in the Navy Medical Corps

9:00-9:15

9:15-9:30

Q & A

9:30 - 10:00

30min. Coffee & Tea Break



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O&O-2/A

Thursday, Feb 27th

Perspectives on Brain Functional Measures - Co-Chair: Dr. Zelinsky and Dr. Delia DeBuc

10:00-10:15

Monica Metea, PhD, DSP, BCN

Moving Beyond Trial and Error: EEG Neuroanalytics in precision drug development and personalized medicine

Preclinical Electrophysiology Consulting

10:15-10:30

Christy Sheehy, PhD

Quantitative Biomarker for Fixation and Cerebellar Atrophy

C. Light Technologies

10:30-10:45

Rosalie Hopkins, OD, FCOVD, FAAO

Atypical Case of Eyelid Fluttering and Systemic Involvement Triggered by Light Changes to the Peripheral Retina

Hopkins Eye Center

10:45-11:00

Leighton Reynolds, PhD

"Listening to the Brain/Recovering the Brain/Mind" Part V

Treatment and Tools for Trauma/Orange County, California



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O&O-2/A

Thursday, Feb 27th

Perspectives on Brain Functional Measures - Co-Chair: Dr. Zelinsky and Dr. Delia DeBuc

11:00-11:15

11:15-11:30

Q&A

11:30-1:30

Presidential Keynote



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Thursday, Feb 27th

Peripheral Eyesight Constriction from Brain Trauma - Co-Chair: Dr. Zelinsky and Dr. Delia Debuc

1:30-1:45

Deborah Zelinsky, OD

Peripheral Retinal Stimulation Affecting Motor Responses

Mind-Eye Institute, Northbrook, IL

1:45-2:00

Robert Wilson

The Effect of PTSD on Peripheral Eyesight

USAF Reserves, LTC-ret Chief Flight Surgeon

2:00-2:15

Laura Hanson, DC, MS, QEEG-DL, DICCP, NDT, BCN, CAS

Persisting Early Childhood Primitive Reflexes As A Possible Disruption To the Sensory Input of the Eyes, Ears, and Vestibular Systems

Connect My Brain

2:15-2:30

Chap Attwell, MD

Rewiring the limbic system in PTSD: Peripheral retinal connections with the cerebellum and auditory systems.

Private practice



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Thursday, Feb 27th

Peripheral Eyesight Constriction from Brain Trauma - Co-Chair: Dr. Zelinsky and Dr. Delia Debuc

2:30-2:45

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibitiona Hall Visit



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Thursday, Feb 27th

Peripheral Eyesight Constriction and Sensitivity - Co-Chair: Dr. Zelinsky and Dr. Delia DeBuc

3:30-3:45

Laura Hanson, DC, MS, QEEG-DL, DICCP, NDT, BCN, CAS

The Vestibular System Converging with Other Senses

Connect My Brain

3:45-4:00

4:00-4:15

Charles Shidlofsky, OD

Visual Snow and Its Effect on Peripheral Signaling

NeuroVision Associates

4:15-4:30

Sam Graham

Modifying Scanning Ability Using Navigational Skills

Move Therapy

4:30-4:45



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Thursday, Feb 27th

Peripheral Eyesight Constriction and Sensitivity - Co-Chair: Dr. Zelinsky and Dr. Delia DeBuc

4:45-5:00

Q&A

5:30-6:30

Presidential Keynote

7:00-9:00

Opening Reception



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Friday, Feb 28th

Visual Processing in Aging and Injury

8:00-8:15

8:15-8:30

Joseph Kleman

Shattered Predictions: Trauma, Predictive Processing, & the Dissociated Mind
Move Therapy

8:30-8:45

Sasha Semaan, B.S

Exploring Accelerated Aging with Functional Near-Infrared Spectroscopy
Bascom Palmer Eye Institute and the University of Miami School of Medicine

8:45-9:00

Peter Guhl, OD

Shifty Vision after It Hits the Fan (Visual Consequences After Acquired Brain Insult)

Center for Neuro-Optometric Rehabilitation

9:00-9:15

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Friday, Feb 28th

Accessory Optic System (Visuo-Vestibular) - Co-Chair: Dr. Zelinsky, Dr Jonathan Hall

10:00-10:15

Lillian Chen-Byerley, MS, OTR/L, RCTC

The Importance of Having Connected Visual and Auditory Sensory Systems

SensAble Kids

10:15-10:30

Isabelle Renard-Fontaine, MSPT

Effect of Visual Reflex maturation on behavioral challenges in individuals with autism

Baptist Health South Florida, Masgutova Foundation

10:30-10:45

Svetlana Masgutova, PhD

Impact of the MNRI Reflex Integration on Visual Reflexes and Abilities of Children with Neurodevelopmental Challenges: Brain Mapping Results.

MNRI/Masgutova Method

10:45-11:00

Susy Dornberg , OTR/L

Retained Primitive Reflexes and their Effect on Visual Processing

South Bay Brain Center



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Accessory Optic System (Visuo-Vestibular) - Co-Chair: Dr. Zelinsky, Dr Jonathan Hall

11:00-11:15

11:15-11:30

Q&A

11:30-13:30

Presidential Keynote



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Friday, Feb 28th

Visual Processing in Sports - Co-Chair: Dr. Zelinsky. Dr Jonathan Hall

1:30-1:45

David Baron, MD

The impact of sports science on sports policy and athlete's care

dbaron@westernu.edu

1:45-2:00

Paul Brewer, OD

Optimizing Sports Performance with Neuro-training

Brewer Eye Care, Diverge Sports Vision, Idaho Brain and Body Institute

2:00-2:15

Fabian Tai, OD

Peripheral Awareness Used in Sports

One Vision Optometry and Vision Therapy

2:15-2:30

Dr. Shane Creado

The Effect of Sleep on Sports Performance

The International Society for Sports Psychiatry



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Friday, Feb 28th

**Visual Processing in Sports - Co-Chair:
Dr. Zelinsky. Dr Jonathan Hall**

2:30-2:45

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit



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Friday, Feb 28th

Visual Processing: More than Eyesight - - Co-Chair: Dr. Zelinsky, Dr Jonathan Hall

4:00-4:15

Vincent Vicci, OD

**The Importance of a Solid Visual-Vestibular Connection
(Accessory Optic System)**

Private Practice, Westfield, NJ, USA

4:15-4:30

Cheryl Lebedovich

Mapping the impact of Retinal Stimulation - A Life Transformed

U.S. Breastfeeding Committee

4:30-4:45

Mark Dean, OD

Dissecting the Visual Processing of a Reclusive Teenager

Grand Strand Vision

4:45-5:00

Paul Brewer, OD

Perfect Processing Post Concussion with Brain Training

Idaho Brain and Body Institute, Brewer Eye Care



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Q&A

5:30-6:30

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Saturday, Mar 1st

Biomarkers for Neurodevelopment - Co-Chair: Dr. Zelinsky and Marianna Newsam

4:00-4:15

Dr Andrew King, PhD

Merging information across the senses

Wellcome, Department of Physiology, Anatomy and Genetics, University of Oxford

4:15-4:30

Lynda G. Detweiler

The Complexity of Dyslexia, Apraxia, and ADHD

Encinitas Learning Center

4:30-4:45

Jonathan Hall

Clinical Collaboration Plays A Vital Role In Successful Outcomes of Sensory Processing Patients

Daniel and Davis Optometry, Carlsberg, CA

9:00-9:15

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Saturday, Mar 1st

Accessory Optic Sytem (Visuo-Vestibular) - Co-Chair: Dr. Zelinsky and Marianna Newsam

10:00-10:15

Michael Drewzewicki, DC, MS, DACNB, FABBIR, CCSP

The neural relationship between ocular signals and head positioning

Neurologic Wellness Institute

10:15-10:30

**Matthew Antonucci, DC, DACNB, FACFN, FABCDD, FABVR, FABNN,
FABBIR, FICC**

TBD

Carrick Institute for Graduate Studies

10:30-10:45

Marianna Newsam, OTR/L

How Vestibular Function Influences Visual Function

MNO Therapy

10:45-11:00

Darek Tong, OD FAAO FCOVD FNORA

**Using Eye Movement Recordings to objectively compare Visual Performance
Pre and Post Neuro-Optometric Rehabilitation**

Center for Vision Development Optometry



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**Accessory Optic Sytem (Visuo-Vestibular) - Co-Chair:
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11:00-11:15

11:15-11:30

Q&A

11:30-1:30

Presidential Keynote



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Saturday, Mar 1st

Factors Influencing Macular & nOptic Nerve Function - Co-Chair : Dr. Marianna Newsam

1:30-1:45

Terry Trinka , OD

The Gut-Retina Axis
Eye-Brain Connection

1:45-2:00

Arnuflo Torres, PhD

Acute changes in Optic Nerve and Neurodegeneration
Rochester adaptive optics, University of Rochester

2:00-2:15

Terry Trinka , OD

Microglia in brain processing
Eye-Brain Connection

2:15-2:30

2:30-2:45

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit



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Saturday, Mar 1st

Ophtaolmology and Optometry Subcommittee meeting

4:00-4:15

2026 Planning

4:15-4:30

4:30-4:45

4:45-5:00

5:00-5:15

5:15-5:30

Q&A

5:30-6:30

PresidentialKeynote

7:30-12:30

World Brain Mapping Foundation Gathering for the Cure (GFC) Gala



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Sunday, Mar 2nd

Neurological Biomarkers - Dr. Zelinsky and Dr. Jewel Hu

8:00-8:15

Bhakta Gaire PhD

Role of Fli-1 signaling in the retina and the brain of Alzheimer's disease patients and murine models

Founder and CEO, Eyenuk Inc.

8:15-8:30

Jane W. Chan, MD

Oculomics in Presymptomatic Alzheimer's disease

Doheny Eye Center UCLA Pasadena

8:30-8:45

Delia DeBuc, PhD

Advancing Precision Diagnostics with Oculomics: Unlocking Insights into Neurovascular and Systemic Diseases

Bascom Palmer Eye Institute, University of Miami

8:45-9:00

Dr. Yuhua Zhang

Oculomics: Higher-order retinal hemodynamics

Doheny Eye Institute, Department of Ophthalmology, University of California-Los Angeles, Professor of Ophthalmology.



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Ph.D ; Zhihong (Jewel) Hu, Ph.D, Mariana Newsam,
O.T.R Fellow : Shiva Rampersad ; Putri Caesa Inten : Ria Chawla

Sunday, Mar 2nd

Neurological Biomarkers - Dr. Zelinsky and Dr. Jewel Hu

8:45-9:00

Kapil Bharti, PhD

Stem Cell Based Therapies

National Eye Institute

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Sunday, Mar 2nd

Cardiology Biomarkers - Dr. Zelinsky and Dr. Jewel Hu

10:00-10:15

Alauddin Bhuiyan, PhD

Combined Papilledema and CVD risk score

iHealthScreen

10:30-10:45

Yun Liu

Detection of Diseases and Systemic Biomarkers in Photos of External Eyes

Google Health Senior Staff Research Scientist

10:45-11:00

Zhihong (Jewel) Hu, PhD, ECE

**Automated Prediction and Biomarker Identification of Glaucoma on
Longitudinal Color Fundus Images**

Doheny Image Analysis Laboratory (DIAL), Doheny Eye Institute, UCLA

11:00-11:15

Claude Zanetti, MD

The Oculocardiac Reflex Pathway: One Step Beyond

Northwestern University Memorial Hospital-School of Medicine, USA



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Cardiology Biomarkers - Dr. Zelinsky and Dr. Jewel Hu

11:15-11:30

Q&A

11:30-1:30

Presidential Keynote



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Sunday, Mar 2nd

Endocrinology Biomarkers - Dr. Zelinsky and Dr. Jewel Hu

1:30-1:45

Hong Jiang, MD, PhD

Oculomic approaches for evaluating the effects of Yoga training in patients with Parkinson's disease

Bascom Palmer Institute

1:45-2:00

Zhihong (Jewel) Hu, PhD, ECE

Multi-Domain Detection of Foveal Avascular Zones towards Systemic Disease Diagnosis

Doheny Image Analysis Laboratory (DIAL), Doheny Eye Institute, UCLA

2:00-2:15

Gary Mikaelian, PhD

Psychometric analysis for threshold stimulus vision testing

Founder and CEO, HedgeFog Inc.

2:15-2:30

Kaushal Solanki, PhD

Harnessing Artificial Intelligence to Create a New Diagnostic Standard Using Retinal Imaging

Eyenuk



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Sunday, Mar 2nd

Endocrinology Biomarkers - Dr. Zelinsky and Dr. Jewel Hu

2:30-2:45

Jianhua Wang, MD, PhD, MS

Retinal structural and vascular biomarkers for Oculomics: are they related?

Bascom Palmer Institute

2:45-3:00

Q&A

3:00-4:00

Poster and Exhibition Hall Visit



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Sunday, Mar 2nd

Neurotech Innovation in Ophthalmology and Optometry - Dr. Zelinsky and Dr. Jewel Hu

4:00-4:15

Delia DeBuc, PhD

A Low-Cost Multimodal Approach for Biomarker Detection and Advancing Primary Eye Care

iScreen 2 Prevent LLC (DBA Multinostics)

4:15-4:30

Alina Fong, PhD

Neuroimaging and Transcranial Magnetic Stimulation (TMS)

Founder of Cognitive Fx and President of Brain Injury Alliance of Utah

4:30-4:45

Xin Tong, MS

Photoacoustic and quantum-enhanced imaging.

California Institute of Technology

4:45-5:00

Eduardo Fernandez, MD

Advancements in Cortical Visual Neuroprosthesis: Recent Studies in Four Human Volunteers.

University Miguel Hernández (Spain)



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Endocrinology Biomarkers - Dr. Zelinsky and Dr. Jewel Hu

5:00-5:15

Michael Barry, PhD

Performance of the Intracortical Visual Prosthesis (ICVP) in the first two
human implantees

Pritzker Institute of Biomedical Science and Engineering

5:30-6:30

Q&A

3:00-4:00

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Daniel Dilorenzo Fellows: Drs. Shiva, Bashir Interns:

Thursday, Feb 27th

TBD

8:00-8:15

8:15-8:30

8:30-8:45

8:45-9:00

9:00-9:15

9:15-9:30

Q&A

9:30-10:00

30min. Coffee & Tea Break



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Q&A

11:30-12:00

30min. Coffee & Tea Break

12:00-1:30

Keynote



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5:00-6:00

General Session Keynote

6:00-6:15

Q&A

6:15-6:30

Program Adjourned



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