SBMT 19TH ANNUAL CONGRESS

03.10-13.2022

BREAKING THE BOUNDARIES OF SCIENCE, TECHNOLOGY, MEDICINE, ART & HEALTHCARE

SBMT

SBMT

SOCIETY FOR BRAIN MAPPING & THERAPEUTICS

BREAKING THE BOUNDARIES OF SCIENCE, TECHNOLOGY, MEDICINE, ART & HEALTHCARE

SBMT 19th Annual Congress

The 19th Annual World Congress of SBMT will bring together physicians, scientists, policy makers, funding agencies and industry to further the advances and applications in brain and spinal cord mapping and image guided therapies (operative and non-operative). A trade exhibition within the framework of the SBMT World Congress will be held at the Convention Center, in Los Angeles, California on Thursday, March 10th to Sunday March 13th, 2022.

We encourage you to come and visit the annual conference which will host a world class program across the three days, an exhibition hall, poster displays and plenty of networking events.

The conference aim is to create a critical mass by introducing synergy amongst inter-disciplinary researchers to further understand the brain function and nervous system. It will serve as a platform from which to develop interactions between many of the stakeholders who also have extensive collaborations at national and international levels.

The conference provides the opportunity to be at the forefront of brain sciences, therapeutics in general and neural stem cells interventions in particular. It provides a strong platform for industry and biotech companies to interact with academia in frontiers of science in this field for translational initiatives involving diverse patient's interest groups.

WORLD BRAIN MAPPING FOUNDATION

EXPEDITING RESEARCH & INTEGRATION OF CUTTING-EDGE TECHNOLOGIES IN NEUROSCIENCE.

Join Us for the Annual World Brain Mapping Foundation Black Tie Gala

6PM - 8PM PST - Cocktail Reception)
8PM - 12AM PST - Black Tie Gala
@ The Ritz Carlton & JW Marriott Hotel
900 W Olympic Blvd, Los Angeles CA 90015
Tel: 1+ 213.765.8600

A special evening event designed to honor those who have researched, pioneered and focused their efforts on advancement, integration, translation and commercialization of lifesaving diagnostics and therapeutics for brain and spinal disorders. Key industry speakers and high-profile guests will be in attendance. Limited seats are available. Individual tickets could be purchased on the SBMT and BMF websites. Sponsors could also obtain tickets as part of special sponsorship packages. For more information about the gala please contact

Dr. Babak Kateb
O: 310.500.6196 M: 1.310.980.98340
E: Babak.Kateb@BrainMappingFoundation.Org

SBMT

19th Annual World Congress for Brain Mapping and Therapeutics of SBMT

The 19th Annual World Congress of SBMT will bring together physicians, scientists, policy makers, funding agencies and industry to further the advances and applications in brain and spinal cord mapping and image guided therapies (operative and non-operative). The conference will take place at the Los Angeles Convention Center, Thursday, March 10th to Sunday March 13th, 2022 in the Los Angeles, California on the West Coast of the United State of America. We encourage you to come and visit the annual conference which will host a world class program across the three days, an exhibition hall, poster displays and plenty of networking events. We encourage you to come and visit the annual conference which will host a world class program across the three days, an exhibition hall, poster displays and plenty of networking events.

Jointly Supported By:

JOHNS HOPKINS MEDICINE

SAINT LOUIS UNIVERSITY CONTINUING MEDICAL EDUCATION PROGRAM

ACCME ACCREDITED WITH COMMENDATION

20 REASONS TO PARTICIPATE

Link in with near 200K+ scientists, engineers, surgeons and physicians on SBMT global network.

Meet leaders and Pioneers in your field.

Demonstrate your state of the art technologies at one of the top brain and spinal cord conventions in the world.

Competitive Advantage - your participation at the conference provides you the opportunity to spend quality time with the leaders in the community and get your message across more effectively and efficiently.

Attract and influence attendees at every stage of their career, from students to entry level scientists to acknowledged leaders in their scientific fields.

Network with our attendees during social events held during the conference.

Market your research and ideas to investors / grant makers.

Gain Access to our scientists, engineers, surgeons and physicians from multiple different disciplines at once.

Obtain Continuing Medical Education (CME) is provided by Johns Hopkins School of Medicine and Saint Louis University School of Medicine

Enhance your know-how and stay abreast of industry changes and state-of-the-art in the field.

Present in a World Class Multidisciplinary Biomedical Association.

Commercialize your ideas.

Promote your company through multiple networking opportunities and develop business-to-business contacts .

Interact with a focused and attentive audience during scientific and educational activities, such as exhibitor- hosted workshops, division programming, poster sessions, and other meeting activities.

Visit the beautiful city of Los Angeles with its amazing sights.

Meet Funding Agencies (Foundations, government and industry).

Publish in PlosOne NeuroMapping and Therapeutics.

Return On Investment and increase your bottom line with face-to-face contact with potential investors.

Make The Difference and reinforce your visibility beyond the exhibition area through discussion groups, workshops and hands on courses.

The audience includes Neuroscientists, Neurosurgeons, Neurologists, radiologists, pathologists, Oncologists, Chemists, engineers (material, electrical, biomedical, aeronautics and computer), stem cell and molecular biologists, nanotechnologists, pharmacologists and rehabilitation medicine scientists and physicians, psychiatrists and psychologists. Undergraduate and graduate students are welcomed. The program also covers the great work done by post-doctoral candidates, fellows and world leaders in the field.

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CONFERENCE TOPICS COVERED BY WORLD LEADERS:

Neurosurgery (e.g. 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 (Alzheimers, Parkinson, and huntington), neurooncology, neuromodulation, epilepsy, neuroanesthesia and brain and spinal cord function...)

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

Neuro-Radiology (e.g. fMRI, MEG, PET, nuclear medicine, MRSI, MR-PET, DTI, CT-PET, focused ultrasound, MSI/MEG, ultra-high and low field MRI and interventional radiology...)

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

Vascular/Neurovascular (e.g. risk of Spinal Cord Injury and Stroke during Aortic procedures and new protective measures, new dynamic modalities of MRA & MRV in diagnostic 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 Patholphysiology of MS, carotid disease identification & management in Stroke prevention

Neuroengineering (e.g. artificial intelligent, fractal geometry, super computing, neuro-photonics, 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 (e.g. integration of stem cell/cellular therapy with nanotechnology, medical devices and imaging...)

Neuro-Oncology

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

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

Duration of talks

Each talk will consist of 5 speakers who will be allotted 15 minutes (excluding Q/A). Each session will have 10 minutes group roundtable - Q/A followed by 30 minutes break. The official language of this convention is English.

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JOHNS HOPKINS MEDICINE

SAINT LOUIS UNIVERSITY
CONTINUING MEDICAL EDUCATION PROGRAM

ACCME ACCREDITED WITH COMMENDATION

CONTINUING MEDICAL EDUCATION NEEDS ASSESSMENT

SBMT is working with Saint Louis University School of Medicine CME Program and John Hopkins to provide accreditation. In recent years astonishing advances have contributed to amazing discoveries and breakthroughs in fields of neurology, neuroscience, neurosurgery, radiology, engineering, computer science, nanotechnology, medical imaging, medical devices and cellular/stem cell therapy.

Johns Hopkins University and Saint Louis University, which are accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The SBMT program will provide at 35 hours of AMA PRA Category 1 Credits™ provided by JHU and SLU. Physicians should claim only the credit commensurate with the extent of their participation in the activity. Exact numbers of the CME will be listed on the brochure.

In recent years astonishing advances have contributed to amazing discoveries and breakthroughs in fields of neurology, neuroscience, neurosurgery, radiology, engineering, computer science, nanotechnology, medical imaging, medical devices and cellular/stem cell therapy.

These scientific advances also have contributed to the large gap of knowledge amongst the scientists in different disciplines. One of the major challenges of 21st century for the scientific community is how to close such gaps of knowledge amongst multiple disciplines.

We have designed the annual meeting of SBMT to address such challenge by bringing together world class experts across multiple disciplines. Moreover, we have identified a need for progressive integration of nanotechnology, cellular therapy with medical devices and imaging.

Neurotech is the theme of the 19th Annual world Congress of SBMT in Los Angeles. The purpose of the annual meeting is to create an interactive environment, which foster cross pollination of ideas and pave the way for birth of new treatment and diagnostic modalities in the field.

For More Info & Questions Please Contact Babak Kateb at Babak.Kateb@WorldBrainMapping.org

SBMT

CONTINUING MEDICAL EDUCATION JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

JOHNS HOPKINS MEDICINE

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of John Hopkins University School of Medicine and the Society of Brain Mapping & Therapeutics. The Johns Hopkins University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

JOHNS HOPKINS CME CERTIFICATES

Within twenty days after the close of the activity, you will be sent an email from JHU office of continuing medical education, to the address provided during registration, notifying you that your CME certificate is available for download. You will need to log-in to the online registration site and complete the activity evaluation, CLAIM THE HOURS THAT YOU ATTENDED THE JHU APPROVED SESSIONS in order to access and print your certificate.

The link to log-in and your username will be included in the email.

OBJECTIVES FOR JOHNS HOPKINS UNIVERSITY CME APPROVED ACTIVITIES:

ACCME Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of John Hopkins University School of Medicine and the Society of Brain Mapping & Therapeutics. The Johns Hopkins University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement

Johns Hopkins University School of Medicine designates this live activity for a maximum of 17.00 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Policy on Presenter and Provider Disclosure

It is the policy of the Johns Hopkins School of Medicine that the presenter and provider globally disclose conflict of interest. The Johns Hopkins School of Medicine OCME has established policies in place that will identify and resolve conflicts of interest prior to this educa-tional activity. Detailed disclosure will be made prior to presentation of the education.

Johns Hopkins University School of Medicine will provide non-physician certificates. The certificate will state that the activity was designated for a maximum of 17.00 AMA PRA Category 1 Credits™. Follow your board's requirements for reciprocal CE credits. TH Sessions: A8, 9, 11, 19, 21. 24. 32, 34, 35, 37; Fri Sessions: B 45, 47, 48, 50, 59, 60, 61, 63, 71, 72, 73, 74 Sat Sessions: C84, 85, 86, 99, 110, 111; Sun Sessions: D124, 125, 126, 128, 139, 141, 149, 154

SBMT

CONTINUING MEDICAL EDUCATION SAINT LOUIS UNIVERSITY SCHOOL OF MEDICINE

SAINT LOUIS UNIVERSITY
CONTINUING MEDICAL EDUCATION PROGRAM

ACCME Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Saint Louis University School of Medicine and the Society of Brain Mapping & Therapeutics (SBMT). Saint Louis University School of Medicine are accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

Saint Louis University School of Medicine designates this live activity for a maximum of 18.0 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity. Saint Louis University School of Medicine will provide Other learner certificates (for APPs, nurses, and other types of learners). The certificate will state that the activity was designated for 18.0 AMA PRA Category 1 Credits™. Follow your board's requirements for reciprocal CE credits.

SAINT LOUIS UNIVERSITY CME CERTIFICATES

Within 10 days after the close of the activity, you will be sent an email from cme@health.slu.edu, to the address provided during registration, notifying you that your CME certificate is available for download.

You will need to log-in to the online registration site and complete the activity evaluation, CLAIM THE HOURS THAT YOU ATTENDED THE SLU APPROVED SESSIONS in order to access and print your certificate.

The link to log-in and your username will be included in the email.

Thursday, March 10, 2022

Session A3: Genomics and Alzheimer

Session A16: Cognitive Screening in Neurological Diseases

Session A18: Neuro-Oncology: Metabolic Therapy

Session A28: Clinical Diagnosis of Axis 2 Personality Disorders Comorbid with Axis 1 Disorders

Session A31: Neuro-Oncology: Circulating Biomarkers and Liquid Biopsies

Friday, March 11, 2022

Session B41: Guidelines for Neuropsychiatric Screening and Brain Mapping as a Diagnostic Tool for Evidence Based Psychiatric Treatment

Session B42: Alzheimer Disease Mechanisms I: Beyond Aβ and Tau

Session B43: TBI and PTSD in Combat Veterans

Session B44: Neuro-Oncology: Tumor Treating Fields

Session B54: Sleep, Wakefulness, and Related Neuro-Psychological/Brain Mapping Perspectives

Session B56: Virtual and Augmented Reality to Enhance the Treatment of PTSD and Related Conditions

Session B57: Stem Cell and Molecular Targeting

Session B68: COVID19 Brain

Session B70: Neuro-Oncology: New Approaches in Immunotherapy

Saturday, March 12, 2022

Session C80: Genomic & Epigenetic Correlates of Reward Deficiency Syndrome: Predominance of Dopaminergic Dysregulation Across Psychopathology

Session C82: Subconcussive Blast Exposure

Session C83: Neuro-Oncology: Image Guided Ablative Therapy

Session C94: Alzheimer's Disease Diagnosis II: Retinal Imaging

Session C95: Audiologic and Vestibular Assessments in Military Service Members and Veterans

Session C96: Neuro-Oncology: Precision Medicine

Session C106: Opioid Addiction – Treatment, Successes and Failures

Session C108: Suicide

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Sunday, March 13, 2022

Session D120: Lifestyle Intervention in Alzheimer's Disease Prevention and Treatment

Session D122: Neuro-Oncology: Neuroimaging and Theranostics

Session D132: Anxiety, Depression, and Mood Disorders

Session D133: Alzheimer's Disease Treatment: Mechanistic & Alternative Targets

Session D134: Assessment of the Impact of Sleep Impairment on Performance in Military Service Members

Session D135: Neuro-Oncology: Radiation Technologies

Session D145: Suicide Risk Factors and Prevention

OBJECTIVES FOR SAINT LOUIS UNIVERSITY CME APPROVED ACTIVITIES:

Military Medicine Session Room 406B

Objectives

1.Describe the results of recently completed and active clinical trials assessing virtual reality and other new approaches to treat combat-related PTSD, with or without comorbid TBI.

2.Discuss the significance of neuropathologic findings that can be used to distinguish between those dying of suicide and those dying of other causes.

3.Identify the most promising measures with which to differentiate the acute and subacute impact on the brain of subconcussive blast exposure during military training exercises.

4.Characterize the most promising novel methods for documentation of audiologic and vestibular impairment in service members and veterans.

Alzheimer's Disease Session Room 151

Objectives

1.Discuss various approaches for assessing dementia and its severity.

2.Implement clinical approaches to better assess dementia and severity.

3.Researchers will be able to develop clinical trials less expensively with higher accuracy to assess intervention benefits.

Neuro-Oncology Session Room 407

Objectives

1.Identify modern treatment options and their variants for malignant brain tumors and their integration.

2.Recognize personalized treatment options and their combinations based on molecular characteristics of malignant brain tumors.

3.Assess preclinical research activities that may lead to discoveries and new clinical trials in the treatment of malignant brain tumors.

Psychiatry Session Room 409A

Objectives

1.Discuss impact of neuropsychiatry disorders on the human and financial costs of mental healthcare

2.Discuss the impact of the novel neuroimaging and applications of neuro-markers in neuropsychiatric disorders and brain/Neuro-screening

3.Identify success and failures of clinical approaches in substance abuse disorders

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Accreditation Council for Continuing Medical Education (ACCME)

In recent years astonishing advances have contributed to amazing discoveries and breakthroughs in fields of neurology,

Neuroscience, neurosurgery, radiology, engineering, computer science, nanotechnology, medical imaging, medical devices and cellular/stem cell therapy. For example: SBMT has been instrumental in introducing Infrared technology into the OR of the future by taking an engineering approach toward solving the problem of intraoperative tumor and vascular mapping. These scientific advances also have contributed to the large gap of knowledge amongst the scientists in different disciplines. One of the major challenges of 21st century for the scientific community is how to close such gaps of knowledge amongst multiple disciplines. The clear example of a gap of knowledge is lack of communication between engineers (Electrical, Material, Biomedical,...) and physicians (Neurosurgeons, neurologists and radiologists).

As the result of SBMT annual meeting we have been able to bring these fields closer together so we could also find engineering solutions to neurological disorders such as brain cancers, Alzheimer, Parkinson's and neurotrama. Clear examples of such solutions are reflected in more than 60 publications in our last 3 special issues of neuroimage and our current PLoSOne NeuroMapping and Therapeutics journal. We have designed the annual meeting of SBMT to address neurological disorders by bringing together world class experts across multiple disciplines of engineering, neuroscience, nanoscience, imaging, molecular biology and computer science. SBMT is been leading force behind progressive integration of nanotechnology, cellular therapy with medical devices and imaging because we believe the next generation of therapies requires a creative and multidisciplinary approach. The purpose of the annual meeting is to create an interactive environment, which foster cross pollination of ideas and pave the way for birth of new treatment and diagnostic modalities in the field.

Financial Disclosures

In accordance with the Standards for Commercial Support established by the Accreditation Council for Continuing Medical Education (ACCME), faculty, abstract reviewers, paper presenters/authors, planning committee members, staff and any others involved in planning the educational content (and the significant others of those mentioned) must disclose any relationship they or their co-authors have with commercial interests which may be related to their content. The ACCME defines "relevant financial relationships" as financial relationships in any amount occurring within the past 12 months that create a conflict of interest.

EDUCATIONAL OBJECTIVES

- Identify and apply new findings in brain mapping (BM) & therapeutics most relevant to their own sub-specialty (i.e., imaging, image guided therapy, nanotechnology, stem cell and/or device)..
- Describe the effect of the newly developed methods in medical imaging, medical devices, nanotechnology, and stem cell/cellular therapy.
- Discuss and design the possible future research and developments in BM, therapeutics and nano-bio-electronics and assess the possible impact of such research and development on their own clinical and scientific work in the future.
- Describe and assess the latest cutting-edge technological advancement in BM & therapeutics such as the emerging field of nano-bio-electronics (integration of nanotechnology with stem cell/cellular therapy, medical imaging and medical devices).
- Explain ways to build a bridge amongst multiple disciplines.
- Build bridges amongst multiple disciplines.
- Recognize advancements in other disciplines and explain how such advancements could help them formulate new diagnostics and treatment modalities.
- Discuss and describe governmental agencies, foundations, and industry roles in research and development of the field.

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SBMT MISSION STATEMENT

SBMT is a non-profit society organized for the purpose of encouraging basic and 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 the 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, and scientific discovery. The society achieves its mission through multi-disciplinary collaborations with government agencies, patient advocacy groups, educational institutes and private sector (industry) as well as philanthropic organization. SBMT legal name and Tax ID: International Brain Mapping Society-20-2793206

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, and other physicians, bioethicists, policy makers, government officials, engineers, physicists, graphic designers, neuroscientists, allied healthcare professionals, healthcare executives, students, post-docs, residents and fellows. SBMT's annual meetings are world class scientific events designed to have a significant impact on cross-disciplinary flow of information and scientific advancements.

CHARTER OF SBMT

The Society for Brain Mapping and Therapeutics (SBMT) was founded in 2004 to break boundaries in healthcare. The society promotes policies that support rapid, safe, and

cost-effective translation of new technology into medicine. The SBMT globally promotes interdisciplinary research to improve the diagnosis, treatment, and rehabilitation of patients with central nervous system diseases regardless of race, creed, color, national origin, gender, or age. The SBMT catalyzes interactions between clinical, biological, physical and engineering sciences. The Society builds trans-disciplinary and translational consortia which break down traditional barriers that impede application of new technology to medical problems. Translational research applies cutting edge basic science and advanced technologies to clinical neurosciences. The Society examines emerging disciplines such as nanotechnology, image-guided therapy, stem cell therapy, multi-modality imaging, biophotonics, and biomaterial and tissue engineering for their application to the diagnosis, treatment, and rehabilitation from neurological diseases. The Society seeks to apply these technologies to clinical problems such as brain tumors, stroke, epilepsy, neurodegenerative diseases

(Parkinson, Alzheimer, multiple sclerosis and ALS), traumatic brain and spinal cord injuries, autism, post traumatic stress disorder and other psychiatric illnesses. The Society achieves its goals through meetings, fellowships, publications, international collaborations, consortiums, and policy forums. The SBMT is a non-profit society which has obtained support from many government agencies (USA, EU and Asia), foundations, and multi-national corporations. The Society maintains its headquarters in West Hollywood, California.

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SBMT EXECUTIVE BOARD

Babak Kateb
Chairman / CEO SBMT & President
Brain Mapping Foundation
Research Scientist,
Maxine Dunitz Neurosurgical Institute

Ken Green
Senior VP of Brain Mapping Foundation

Robert Hariri
Robert Hariri, The Chairman, Founder, Chief Scientific Officer, and former Chief Executive Officer of Celgene Cellular Therapeutics.

Aaron G. Filler
13th President of SBMT (2015-2016)
Medical Director Institute for Nerve Medicine & Neurography Institute

Vicky Yamamoto
Member of the Executive Board
of the Brain Mapping Foundation

Wes Ashford
14th President of SBMT (2016-2017)
Director of the WRIISC, VA
Palo Alto Health Care System

Warren W. Boling
15th President of SBMT (2017-2018)
Professor of Neurosurgery and Chairman,
Department of Neurosurgery,
Loma Linda University Medical Center

EXECUTIVE STAFF

Babak Kateb
Chairman/CEO SBMT &
President of Brain Mapping Foundation

Bryan Aroz
Global Director for Conventions and Events

Commander Ken Green, DMD
(Ret. USA NAVY) Vice President of Foundation

Harry Kloor, PhD (Chem), PhD (Physics)
Director of Strategic Alliance

Christopher Wheeler, Ph.D.
Senior Research Scientist

Faridodin Naraghi
(Director of Middle East Brain Initiative/CEO of Iranian Brain Initiative)

Mohammad Nami
(Visiting Professor/Visiting Scientist)

Nasser Kashou
(Research Scientist)

Dahabada Lopes
(Research Scientist)

Marco Amaya
(Research Scientist)

Joe Bolanos
(Research Scientist)

Kevin Morris
Research Scientist)

Nataliia Fedorchenko
(Research Fellow)

James Okereke
(Research Fellow)

Aysha Noor
(Research Fellow)

RESEARCH FELLOWS

Chris Wheeler
(Sr. Research Scientist)

Bryan Aroz
(Director of Global Events & Conventions)

Ken Sherwood
(Director of National & International Student Chapters)

Pantea Ha
(Director of IT and Social Media)

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BOARD MEMBERS

Babak Kateb
Research Scientist,
Maxine Dunitz Neurosurgical Institute

Mike Y. Chen
Associate Professor of Department of Neurosurgery, City of Hope Cancer Center

Maya Koronyo-Hamaoui
Associate Professor, Neurosurgery & Biomedical Sciences,
Cedars-Sinai Medical Center

Theodore W. Berger
Professor of Biomedical Engineering, David Packard Chair of Engineering, Director, Center for Neural Engineering - USC Viterbi School of Engineering

Eric Kandel
Nobel Laureate, neuroscientist and a University Professor of biochemistry and biophysics at the College of Physicians and Surgeons at Columbia University.

Howard Federoff
Dr. Howard Federoff named UCI vice chancellor for health affairs and dean of medicine

Robert Thatcher
Robert Thatcher, President & CEO of Applied Neuroscience, Inc.

Jason Cormier
Dr. Cormier is a native of South Louisiana, where he graduated from St Thomas More High School in Lafayette, La

Roger W. Werne
Dr. Werne has a long and distinguished engineering career ranging from, the position of Associate Director for Engineering and Technology Transfer at Lawrence Livermore National Laboratory, to the co-founding of ITI Medical Technologies a medical device company.

Saleem I. Abdulrauf
Professor & Chairman, Department of Neurological Surgery, Saint Louis University

K. Nevzat Tarhan
Professor of Psychiatry / President, Üsküdar University

Michael J. Roy
9th President SBMT (2011 - 2012), Director of Internal Medicine, Arlington, Virginia, Uniform Services University Health Sciences

Reinhard Schulte
Professor, Basic Sciences, Division of Biomedical Engineering Sciences, School of Medicine, Loma Linda University

Denise Kandel
Dr. Denise Kandel's major research interests are in the epidemiology, risk factors and consequences of drug use; the epidemiology of substance dependence; co-morbidity between substance use and psychiatric disorders.

Dawn S. Eliashiv
A Professor of Neurology and Co-Director of the UCLA Seizure Disorders Center

Deborah Zelinsky
Deborah Zelinsky, O.D. is an optometrist noted for her work in neuro-optometric rehabilitation. She is the founder of The Mind-Eye Institute, based in Northbrook, IL.

Justin Allen Dye
Dr. Dye graduated from Pacific Union College in 2003 and was awarded the Brian Nichelin award for excellence in Biology. A recipient of the US Navy's Health Professionals Scholarship he earned his medical degree from Loma Linda University School of Medicine.University School of Medicine.

SBMT

PRESIDENTIAL ADDRESS

Vicky Yamamoto Ph.D.

20th President of SBMT

Co-Founder of SBMT,
Executive Board member &
Executive Director of SBMT,

Cancer Scientist, Norris Comprehensive Cancer Center, USC-Keck School of Medicine, USA

Cancer Scientist, Department of Otolaryngology/ Head and Neck Surgery, Keck School of Medicine of USC, Los Angeles, CA.

I am truly humbled and honored to be elected as the 20th president of the Society for Brain Mapping & Therapeutics; an organization that I helped co-found and watched to be one of the fastest growing multispecialty associations and thinktanks with active and robust policy arm formulating and helping executing neurotech initiatives such as President Obama's BRAIN Initiative, Neuroscience-20 (Brain, Spine and Mental Health) and Brain Technology and Innovation Park (BTIP). What a privilege to be a part of such visionary teams of scientists, engineers, physicians, surgeons, policymakers, industry leaders, philanthropists, and technologists. I am also honored to serve as the executive director of SBMT for the past 5 years being involved in operational and strategic growth of the organization and to work with a world-class board of directors including our founder Dr. Kateb and Nobel Laureate Dr. Eric Kandel and his equally amazing and remarkable wife Professor Denise Kandel who always advocates for more women and minorities in our board.

The past two years have been very difficult for our members who have been at the front line in the fight against COVID-19 globally. As I recall in March 2020, one week before our convention, I co-chaired the COVID-19 taskforce with the 18th President of SBMT Dr. Hariri and then president-elect and now the 19th President of SBMT Dr. Cormier as well as distinguished members of SBMT, swiftly building a global intellectual powerhouse of SBMT to address COVID-19 diagnosis and therapeutics. We also delivered 700+ meals and 4 truckloads of PPEs to several local hospitals in the middle of riots and curfew in Los Angeles while advocating for the proposition 14 ($5.5B for stem cell research, of which $1.5B is allocated for neuroscience research).

Many of our SBMT members are relentless, dedicated frontline heroes of the coronavirus pandemic and together, we successfully managed many difficult circumstances and published the most comprehensive review on COVID-19, which was published in the Journal of Alzheimer's Disease. Last year, we held our Neuroscience20/N20 summit virtually with near 100 speakers across the G20 countries and their neighboring countries: the largest N20 summit ever! This organization, its members and the board, have dealt with competitive forces, sometimes antagonistic, from our competitors in recent years. This is understandable as we are a quite unique scientific and medical association. We have built the organization on the granite of science and medicine; on the bedrock of trust in open collaboration and on fundamentals of helping humanity with the spirit of philanthropy and innovation. As one of the co-founders of SBMT, I am very proud and feel fortunate to have the opportunity to work with amazing members and the board of SBMT, continue to prevail the adversity we faced, to expand the organization together in the past 20 years, and to impact science and healthcare globally through our groundbreaking initiatives.

My vision and goals as the 20th president and the first Asian female president of this organization, are to remain focused on global expansions of our pioneering initiatives such as N20 and BTIP, and continue innovation by partnering with NASA, National Labs, DoD, VA, university partners such as Johns Hopkins University, St Louis University, industry leaders such as Celularity, Fulgent Genetics, Medtronic to name a few. We continue our robust collaboration with the bipartisan congressional neuroscience caucus. We also would like to follow the lead of my dear board member Dr. Denise Kandel and see more female scientists amongst our leadership ranks.

My predecessors, Professor Robert Hariri, and Professor Jason Cormier and I continue to make cellular therapy a priority. Needless to say that Dr. Hariri's leadership at the early stages of the COVID-19 pandemic presented us with an FDA approved immunotherapy for COVID-19. I would like to thank Dr. Cormier's leadership for helping us navigate a difficult pandemic year combined with many logistical and competitive challenges; under his and Dr. Hariri's leaderships, we held our 17th and 18th combined annual convention in July 2021 at the LA Convention Center; the first convention after the re-opening of California which was covered by the LA Times.

During my tenure, I will focus on programmatic expansion, collaboration with truly honest organization which are not only trade shows, but they have shared values. I look forward sharing this exciting journey with our amazing members, supporters and strategic partners.

SBMT

LETTER FROM THE FOUNDER

Babak Kateb MD

Founding Chairman of the Board of Directors

CEO and Scientific Director Society for Brain Mapping & Therapeutics (SBMT)

President & Scientific Director Brain Mapping Foundation

Director / National Centre for Nano-Bio-Electronics / Los Angeles / CA

Director / Brain Technology and Innovation Park / Los Angeles / California

Chairman / Neuroscience-20+/ G20 Summit World Brain Mapping and Therapeutics Initiative

Editor / The Textbook of Nanoneuroscience and Nanoneurosurgery

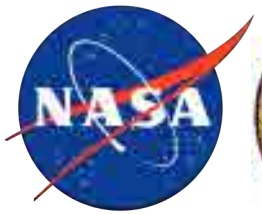
Editor / Textbook of Neuro Photonics and Brain Mapping

I started SBMT 19 years ago as a small conference and gathering attended by Caltech, NASA/JPL and USC-Keck scientists and neurosurgeons. At that time, the idea of going to a space agency asking for help for human brain discovery seemed odd but 19 years later, we can say we have used NASA electronic nose to sniff cancer, used their UV/Infrared thermography and multispectral imaging they use to detect galaxies and asteroids to detect brain cancers intraoperatively. We also used their nanotechnology for a better drug delivery to brain cancers. It was around the same time that the Afghanistan and Iraq wars were started so we also formed Int. Brain Mapping Foundation (IBMF) to help wounded soldiers and veterans to have access to the state-of-the-art neurotechnologies. In 2003, SBMT and IBMF were amongst the first organizations reaching out the Bush administration and discussing and supporting wounded soldiers with "the shell-shock" now known as PTSD. SBMT members didn't stop there and continued to pioneer lifesaving clinical trials and policies including formulation and the execution of President Obama's BRAIN Initiative, Neuroscience20 (Brain, Spine and Mental Health) of the G20 summit and the Brain Technology and Innovation Park (BTIP) as well supporting California's proposition 14 ($5.5B for stem cell and $1.5B of it is for neuroscience) for fast-tracking therapeutics and diagnostics for brain, spine, and mental illnesses. SBMT has published two inaugural textbooks of Nanoneurosurgery & Nanoneuroscience and the Textbook of Neurophotonics and Brain Mapping, which are now up for the second edition to be published by Nature-Springer by the end of this year.

Today, SBMT is one of the fastest growing, diverse, and multispecialty associations and thinktanks in the world offering didactics and practical certification, holding congressional and parliamentarian briefing in the USA, Canada, Australia, having internships, fellowships and visiting scholar programs globally and democratizing the emerging neurotech industry globally. We are proud to have strong female representation at all levels of our organization, as we have more women in our board, committee, and subcommittee leaderships than any other major associations in this field. During the COVID19 pandemic, our foundation donated 700+ meals to the stranded healthcare workers in LA hospitals while the curfew was in place. We donated several trucks full of PPEs to City of Hope, Cedars-Sinai Medical Center, and USC Keck Hospital as well as publishing significant landmark papers on COVID19, leading to raising awareness about its impact on the brain and mental health. We teamed up with pharmaceuticals and pioneering companies such as Celularity to push for FDA approved immunotherapy for COVID19 and we ran marathons to raise awareness about the neurological disorders.

This organization is built by scientists for science and technology innovation as well public education and advocacy for neurotech. We have a cause bigger than all our competitors and adversaries combined and that is to rapidly help those who are suffering from brain, spine, and mental disorders. Recently, we published the inaugural Neuroscreening paper with specific guidelines to make brain, spine, and mental health screening a part of the President Biden's healthcare, just like the breast, heart, and prostate screenings we currently have. Thus, innovation is in the DNA of SBMT, and we thank our members and supporters (industry, public, philanthropists and government agencies) for enabling us to meet our mission. I congratulate Dr. Vicky Yamamoto for being elected by the board and the membership as the 20th President of SBMT, who is one of the co-founders and the organization's first donor. Dr. Yamamoto is highly respected cancer scientist who has trained and published with the renowned Nobel laureate and former president of Caltech Professor David Baltimore. She has been a force behind the success of SBMT for the past 20 years. This year we have appointed more female colleagues to our board who will take a much more leading position in the organization and its future directions under Dr. Yamamoto's leadership and guidance. We have built global consortium on Neuroscience20 (Brain, Spine and Mental Health), expanding our initiatives to the Middle East, Africa, South America, and Asia.

SBMT will build the first biotech park for the brain in LA, and we have expanded our convention to be the fastest growing multi-specialty association in the world. SBMT will expand our programs across the -12 and work closely with the UNESCO to expand a global neurotech innovation. We will expand student chapters, scholarships, and fellowships globally in partnership with our key collaborators and sponsors.
We welcome you all to the SBMT 2022 in LA. We hope you enjoy the program. SBMT will expand its convention for its 20th annual meeting in LA in 2023 and tie its annual meeting to Brain Technology and Innovation Park (BTIP).



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SAINT LOUIS UNIVERSITY
CONTINUING MEDICAL EDUCATION PROGRAM

Presidential Keynote
March 10th Main Convention Hall -Room 151 7:45-8:15 AM

Keynote: Currently and Future of Cancer Research and Policy

20th President of SBMT: Vicky Yamamoto, Co-Founder of SBMT, Executive Board member and Executive Director of SBMT, Cancer Scientist, Norris Comprehensive Cancer Center, USC-Keck School of Medicine, USA

Vicky Yamamoto, Ph.D., Cancer Scientist, Department of Otolaryngology/ Head and Neck Surgery, Keck School of Medicine of USC, Los Angeles, CA.

Dr. Vicky Yamamoto is a cancer scientist at Keck School of Medicine of USC in the Department of Otolaryngology/Head and Neck Surgery with more than 10 years of research experience ranging from developmental neurobiology and stem cell to molecular targeted therapy. Prior joining the Department of Otolaryngology/Head and Neck Surgery at Keck School of Medicine of USC, Dr. Yamamoto worked at Mount St. Mary's College, The Scripps Research Institute, the Maxine Dunitz Neurosurgical Institute at Cedars-Sinai Medical Center, and California Institute of Technology. She has significant teaching experience and mentored numerous students.

Dr. Yamamoto's pioneering work on mammalian Ryk was conducted at the laboratory of Professor David Baltimore, a Nobel laureate-1975, at California Institute of Technology. In this project, Drs. Baltimore, Yamamoto and the team have demonstrated that a Wnt co-receptor is required for stimulation of neurite outgrowth. The significant finding was published in a prestigious journal, Cell (Cell Press). This work opened new possibilities for scientists to investigate the role of Wnt signaling in cellular growth and differentiation in the central nervous system. Dr. Yamamoto received a prestigious fellowship from California Institute for Regenerative Medicine (CIRM) to investigate the role of cleavage of Wnt co-receptor Ryk in regulating neuronal differentiation during cortical neurogenesis. She published her results in Developmental Cell (Cell Press), which identified a key mechanism that regulates the development of stem cells into neurons.

Dr. Yamamoto's current research at Keck School of Medicine of USC in the Department of Head and Neck Surgery focused on a) The effect of Wnt small molecule inhibitor in enhancing chemo-radiation sensitivity of cancer cells. b) Investigating the roles of cancer stem cells in head and neck cancer progression and metastasis. c) IL-6/STAT3 signaling as a therapeutic target and for early diagnosis.

She has been a recipient of many prestigious awards including: an industry award, the young investigator award from Society for Brain Mapping & Therapeutics (SBMT), a pre-doctoral fellowship from The Edwin Everest Foundation, CIRM pre-doctoral fellowship from California Institute for Regenerative Medicine, as well as numerous awards from Mount St. Mary's College including President's Medal, Sister Rebecca Doan's award, community service award, and the honors certificate. She graduated with Magna Cum Laude from Mount St. Mary's College with a BS in biological sciences and a BA in chemistry. She received a PhD in biochemistry and molecular biology from Keck School of Medicine of USC.

Dr. Yamamoto has been a founding member of the board of the Society for Brain Mapping and Therapeutics (SBMT). She has served on many committees including publication committee as a member of the editorial board and co-chaired the industry committee of SBMT where she provided a liaison with near 3,000 industry partners of the society. Dr. Yamamoto is also an active board member of the Brain Mapping Foundation. She was the first donor to the foundation and the Society, she created the subcommittee for Neurology from ground up with Dr. Reinhard Schulte, she has been fully engaged in organization’s growth and strategic programing alliances in last 19 years and been great advocate and mentor to young women and minority yin science futured in LA times.

March 10th Main Convention Hall -Concourse Hall 151 8:15-8:40 AM
Keynote: Importance Advancing Biotech and Neurotech in California

Gray Davis
Former Gov. of California:

Bio: https://en.wikipedia.org/wiki/Gray_Davis

March 10th Main Convention Hall -Concourse Hall 151 8:40-9:40 AM

Announcement of Creation of Brain Technology and Innovation Park (SBMT-LACCD); Neurotechnology Based Economic Development in LA

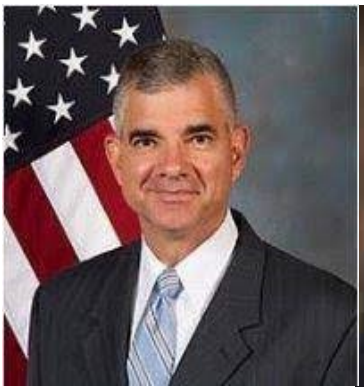
Panel Discussion and Open Q/A from the Audience:
Philanthropist, entrepreneur scientist and Chairman of Fulgent Genetics & Therapeutics, Dr. Ming Hsieh, Deputy Assistant Secretary of HUD Ms. Robin Keegan, Dr. Babak Kateb (Founding Chairman of the Board of SBMT and Chairman of Brain Technology and Innovation Park (BTIP) Initiative, Founding Chairman of The Chopra Foundation, Dr. Deepak Chopra,



and Robert Klein III (Director of Governmental Affairs Klein Financial Corporation) Robert Hariri (Chairman and CEO of Celularity) and Dr. Mary Gallagher (President of LA City College) and

Drs, Wes Ashford (VA/14th President of SBMT), Vicky Yamamoto (SBMT 20th President) and Roger Werne (Lawrence Livermore National Lab and SBMT board member) Thomas Williams (former NASA Scientist-JSC) and Drs. Farzad Massoudi (Chairman of Massoudi Family Foundation),




Moderators: Babak Kateb

Thursday March 10th -Concourse Hall 151 11:45-12:15 Noon
Keynote: The Inclusion of Brain Mapping and Retinal Neuromodulation into Eye Care Policy: Here Today, but Where Tomorrow?

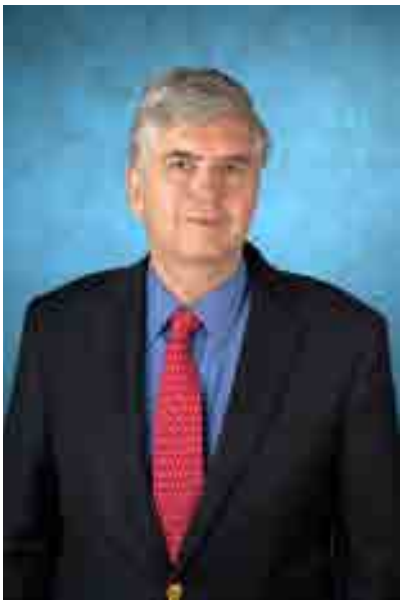
Deborah Zelinsky, O.D. is an optometrist noted for her work in neuro-optometric rehabilitation. She is the founder of The Mind-Eye Institute, based in Northbrook, IL.

Her key innovation uses the fact that the retina is composed of brain tissue and is part of the central nervous system, along with the spinal cord. Further, the often-overlooked peripheral retina contains important receptors. As a result, individually customized eyeglasses, which affect the frequency and direction of light dispersed on the retina can be used to influence neural pathways. Specifically, this can affect awareness of external space and auditory stimuli as well as internal biochemical processes.

The Mind-Eye Institute was created to train other doctors on these unique techniques of evaluating retinal processing. The Institute evaluates patients with a variety of symptoms, ranging from autism, ADD/ADHS, dyslexia and traumatic brain injury. The Institute also conducts research on brain mapping and other neuro-optometric techniques.

In addition to her work with the Mind-Eye Institute, Dr. Zelinsky is a fellow in both the College of Optometrists in Vision Development and the Neuro-Optometric Rehabilitation Association, and a board member of the Society for Brain Mapping. More information can be found at https://mindeye.com/

Thursday March 10th Concourse Hall 151 12:15 -12:45 Noon
Keynote: In Search of a Cure for Alzheimer Disease: Where Have We Gone Wrong



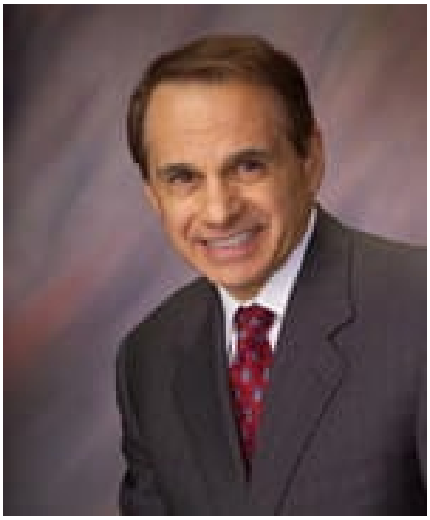
George Perry, Ph.D. is Professor of Neuroscience, Developmental and Regenerative Biology, Professor of Chemistry, holds the Semmes Foundation Distinguished University Chair in Neurobiology, and is former Dean of Sciences at The University of Texas at San Antonio. Perry has studied Alzheimer's disease since 1982 and was the first to discover that oxidative stress is a key feature of this and related neurodegenerative diseases. His studies identified oxidative damage, its source from metabolic/mitochondria failure and catalysis by iron and copper. This work led to a novel interpretation of the role of amyloid—that instead of causing Alzheimer's disease, it is a protective antioxidant response, and the reason all the amyloid-based therapies have failed.

Prior to joining UTSA as dean in 2006, Perry worked for more than 20 years at Case Western Reserve University, where he was professor of pathology and neurosciences and chair of the Department of Pathology. Perry earned a B.A. in zoology from the University of California, Santa Barbara, and a Ph.D. in marine biology from Scripps Institution of Oceanography. He received a postdoctoral fellowship in the Department of Cell Biology at Baylor College of Medicine, where he laid the foundation for his observations of abnormalities in cell structures.

Perry is recognized internationally as one of the top Alzheimer's disease researchers and has been cited over 106,000 times. He serves as editor-in-chief for the Journal of Alzheimer's Disease.

Friday March 11th -Concourse Hall 151 8:00-8:30 AM

Keynote: The Connectome--Psychosurgery, Neuromodulation and Psychedelics for Mood and Behavioral Disorders



"Joseph C. Maroon, MD, is a board-certified clinical professor of neurological surgery at the University of Pittsburgh Medical Center, and the Heindl Scholar in Neuroscience. His clinical and research interests have been in the areas of the development of minimally invasive surgical procedures to the brain and spine, the prevention and treatment of traumatic injuries to the central nervous system, innovative approaches to pituitary and other brain tumors and more recently complimentary approaches to inflammatory diseases associated with aging.

[Working with neuropsychologist, Mark Lovell, PhD, he co-developed ImPACT© (Immediate Post-Concussion Assessment and Cognitive Testing). This is the first computerized system to determine concussion severity and the timing for return to contact sports. It is now the standard of care for concussion management in the National Football League, National Hockey League, Major League Baseball, NASCAR and is used in over 12,000 colleges and high schools in the United States. For over 20 years he has served as the neurosurgical consultant to professional and college athletes in football, baseball, golf, hockey and soccer and has been the team neurosurgeon to the Pittsburgh Steelers for 20 years. He has been honored by the neurosurgical societies of Japan, Korea, Thailand, Egypt, Brazil, Lebanon and China for his neurosurgical contributions. He was honored by his peers when he was elected president of the Congress of Neurological Surgeons, the largest society of neurosurgeons in North America.

Other outside activities include a former member of the board of directors and chairman of the scientific and technology committee of Mylan Laboratories, the largest generic drug manufacturer in the world; former chairman of the scientific advisory board to General Nutrition Corporation (GNC); and, chairman of the medical and scientific advisory board to Stemedica. He also serves on the NFL Head, Neck and Spine Committee and, in 2008, he became medical director of the World Wrestling Entertainment Corporation (WWE). Also in 2008, he was named senior vice president of the American Academy of Anti-Aging Medicine (A4M).

Honored as one of America's best neurosurgeons for 12 consecutive years he has written over 290 papers, 40 book chapters and five books. His most recent book, published in February of 2017 and re-released in December of 2018, is entitled Square One: A Simple Guide to a Balanced Life that takes a look at the importance of understanding where you

are in life and the need to keep all elements of your life in proper “balance.” He has also authored Fish Oil: The Natural Anti-Inflammatory, published in 2006, and The Longevity Factor: How Resveratrol and Red Wine Activate Genes for Longer and Healthier Life, published in 2008.

In his early years, his athletic abilities earned him a football scholarship to the University of Indiana in Bloomington where he was selected as Scholastic All-American in football. Despite his busy professional schedule, Dr. Maroon remains an avid athlete and has competed in over 78 triathlon events. These include eight Ironman distant triathlons (2.4 mile swim, 112 mile bike and 26.2 run) in Hawaii (1993, 2003, 2008, 2010 and 2013), Canada (1995), New Zealand (1997) and Europe (2000). He placed sixth in the Senior U.S. Olympics Triathlon in 2005.

In 1999, he—along with Joe Montana and Kareem Abdul Jabaar—was inducted into the Lou Holtz Upper Ohio Valley Hall of Fame for his athletic accomplishments and contributions to sports medicine. On May 2, 2009, he was inducted into the Western Pennsylvania Sports Hall of Fame, and on March 14, 2010, he was inducted into the National Fitness Hall of Fame in Chicago.

In June of 2017, Dr. Maroon was selected as Man of the Year by the Saints and Sinners Club of America, and in September of 2018, he was named Humanitarian of the Year by the Jerome Bettis Bus Stops Here Foundation.

As medical director of the Live Free African Freedom Tour, on February 26, 2014, Dr. Maroon and his daughter, Isabella—along with a group of amputees—climbed Mt. Kilimanjaro in Africa, the highest free standing mountain in the world. In May of 2015, Dr. Maroon completed The Crucible Extreme Hike, a 3-day, 70-mile hike in the Laurel Mountains of Pennsylvania to raise awareness for wounded veterans. In February of 2020, Dr. Maroon was named recipient of the UPMC Clinician of Courage Award. To further honor Dr. Maroon, upon presenting the award, UPMC announced that the award would be renamed the Joseph Maroon Clinician of Courage Award for future award winners.

Friday March 11th Concourse Hall 151 8:30-9:00 AM

Keynote:
Never Alone Initiative: Suicide Prevention using Neurotechnologies and AI

Deepak Chopra, founder of The Chopra Foundation and co-founder of The Chopra Center for Wellbeing, Board Certified in Internal Medicine, Endocrinology and Metabolism, Fellow of the American College of Physicians: Recipient of the 2022 Beacon of Courage and Dedication award

"Deepak Chopra MD (/ˈdiːpɑːk ˈtʃoʊprə/; Hindi: [d̪iːpək tʃoːpɽa]; born 22 October 1946) is an Indian-born American author and alternative medicine advocate.[4][5] A prominent figure in the New Age movement,[6] his books and videos have made him one of the best-known and wealthiest figures in alternative medicine.[7] His discussions of quantum healing have been characterised as technobabble – "incoherent babbling strewn with scientific terms"[8] which drives those who actually understand physics "crazy"[9] and as "redefining Wrong".[10]

Chopra studied medicine in India before emigrating in 1970 to the United States, where he completed a residency in internal medicine and a fellowship in endocrinology. As a licensed physician, in 1980 he became chief of staff at the New England Memorial Hospital (NEMH).[11] In 1985, he met Maharishi Mahesh Yogi and became involved in the Transcendental Meditation (TM) movement. Shortly thereafter he resigned his position at NEMH to establish the Maharishi Ayurveda Health Center.[12] In 1993, Chopra gained a following after he was interviewed about his books on *The Oprah Winfrey Show*.[13] He then left the TM movement to become the executive director of Sharp HealthCare's Center for Mind-Body Medicine. In 1996, he co-founded the Chopra Center for Wellbeing.[11][12][14]

Chopra claims to believe that a person may attain "perfect health", a condition "that is free from disease, that never feels pain", and "that cannot age or die".[15][16] Seeing the human body as undergirded by a "quantum mechanical body" composed not of matter but of energy and information, he believes that "human aging is fluid and changeable; it can speed up, slow down, stop for a time, and even reverse itself," as determined by one's state of mind.[15][17] He claims that his practices can also treat chronic disease.[18][19]

The ideas Chopra promotes have regularly been criticized by medical and scientific professionals as pseudoscience.[20][21][22][23] The criticism has been described as ranging "from the dismissive to...damning".[20] Philosopher Robert Carroll writes that Chopra, to justify his teachings, attempts to integrate Ayurveda with quantum mechanics.[24] Chopra says that what he calls "quantum healing" cures any manner of ailments, including cancer, through effects that he claims are literally based on the same principles as quantum mechanics.[19] This has led physicists to object to his use of the term "quantum" in reference to medical conditions and the human body.[19] Evolutionary biologist Richard Dawkins has said that Chopra uses "quantum jargon as plausible-sounding hocus pocus".[25] Chopra's treatments generally elicit nothing but a placebo response[7] and have drawn criticism that the unwarranted claims made for them may raise "false hope" and lure sick people away from legitimate medical treatments.[20]"

Ref.: https://en.wikipedia.org/wiki/Deepak_Chopra

Round Table Discussion:
How to address the needs of Wounded Soldiers, Veterans and Civilians with Neuro-psychiatric and Neurotraumatic Disorders: Panel Discussion with Drs. Michael Roy, Joseph Maroon, Deepak Chopra, Wes Ashford and Ken Green

Friday March 11th 11.45 - 12.15 PM
Concourse Hall 151

Keynote: TBD

“General Mark A. Milley is the 20th Chairman of the Joint Chiefs of Staff, the nation’s highest-ranking military officer, and the principal military advisor to the President, Secretary of Defense, and National Security Council.
Prior to becoming Chairman on October 1, 2019, General Milley served as the 39th Chief of Staff of the U.S. Army. A native of Massachusetts, General Milley graduated from Princeton University in 1980, where he received his commission from Army ROTC.

General Milley has had multiple command and staff positions in eight divisions and Special Forces throughout the last 40 years to include command of the 1st Battalion, 506th Infantry, 2nd Infantry Division; the 2nd Brigade, 10th Mountain Division; Deputy Commanding General, 101st Airborne Division (Air Assault); Commanding General, 10th Mountain Division; Commanding General, III Corps; and Commanding General, U.S. Army Forces Command. While serving as the Commanding General, III Corps, General Milley deployed as the Commanding General, International Security Assistance Force Joint Command and Deputy Commanding General, U.S. Forces Afghanistan. General Milley’s joint assignments also include the Joint Staff operations directorate and as a Military Assistant to the Secretary of Defense.

General Milley’s operational deployments include the Multi-National Force and Observers, Sinai, Egypt; Operation Just Cause, Panama; Operation Uphold Democracy, Haiti; Operation Joint Endeavor, Bosnia-Herzegovina; Operation Iraqi Freedom, Iraq; and three tours during Operation Enduring Freedom, Afghanistan. He also deployed to Somalia and Colombia.

In addition to his bachelor’s degree in political science from Princeton University, General Milley has a master’s degree in international relations from Columbia University and one from the U.S. Naval War College in national security and strategic studies. He is also a graduate of the MIT Seminar XXI National Security Studies Program. General Milley and his wife, Hollyanne, have been married for more than 35 years and have two children.”
Ref:https://www.defense.gov/About/Biographies/Biography/Article/614392/general-mark-a-milley/

Saturday March 12th 8:30-9:00 AM PST
Concourse Hall 151

Keynote: The Technology Revolution in Healthcare: Biases and Cautionary Tales

Carolyn C. Meltzer, Dean, Keck School of Medicine of USC, May S. and John H. Hooval, MD, Dean's Chair and Professor of Radiology. Dr. Meltzer served as President of ASNR from 2010-2011. She was the third woman in that role in the organization's history. Her leadership significantly influenced the strategic direction of the ASNR, leading the organization to continued ongoing success. Her contributions to ASNR included establishing the Women in Neuroradiology Leadership Award, enhancing programing on health policy and economics, and leading strategic planning efforts.

As Chair of the Radiology Department at Emory University, a position she has held for 15 years, Dr. Meltzer has overseen more than 1,200 health providers and employees, nine hospitals and many community-based clinics, representing a medical enterprise responsible for more than 1.5 million procedures each year. Additionally, she holds two additional important leadership roles at Emory University School of Medicine as the Executive Associate Dean of faculty academic advancement, leadership and inclusion and Chief Diversity and Inclusion officer.

Prior to her tenure at Emory University, Dr. Meltzer held various academic and administrative appointments at the University of Pittsburgh School of Medicine, including Professor of Radiology, Neurology and Psychiatry and Chief of Neuroradiology.

In addition to her leadership roles at ASNR, Dr. Meltzer has served on several national professional and advisory boards, including the Radiological Society of North America, the Council of Faculty and Academic Societies at the Association of American Medical Colleges, and American College of Radiology Board of Chancellors. She has won both the Outstanding Researcher Award and Gold Medal Award from ASNR, as well as the Distinguished Service Award from the American Medical Association and the Gold Medal Award from the Association of University Radiologists.

Dr. Meltzer earned her medical degree from The Johns Hopkins University School of Medicine and completed her graduate medical education at The Johns Hopkins Hospital in Baltimore. She holds an undergraduate degree in biology and neurobiology with honors from Cornell University. Board certified in both diagnostic radiology and nuclear medicine, she also has subspecialty certification in neuroradiology and advanced training in PET. Dr. Meltzer will assume her new role at USC effective March 1, 2022.

Saturday March 12th 8:30-9:00 AM PST
Concourse Hall 151

Keynote: The Future of Spine Disorders and Innovation

with over a decade of specialization in complex diseases of the brain and spine, Dr. Keyne K. Johnson brings a unique vision to pediatric neurosurgery — exceptional care with compassion and commitment. She is a board certified pediatric neurosurgeon who received her training in neurosurgery at Duke University Medical Center in Durham, NC. She completed further training with a pediatric neurosurgery fellowship at Texas Children's Hospital in Houston, TX. Since then, she has developed an outstanding expertise in epilepsy, brain tumor removal, complex spine surgery, minimally invasive spine and brain surgery as well as endoscopy.

Since 2008, Dr. Johnson has been based in Orlando, bringing a host of novel techniques to Central Florida. She has treated a myriad of diseases including cervical spine instability, scoliosis and Moya Moya disease. She is a fellow of the American Association of Neurological Surgeons and Assistant Professor at the University of Central Florida School of Medicine. Dr. Johnson has presented her research at numerous national meetings, is published in numerous peer-reviewed journals and has trained internationally. She feels her greatest, most cherished accomplishments are her two sons, Carson and Harrison.

Ref.: Brain and Spine Institute For Children » Meet Dr. Keyne K. Johnson (basicorlando.com)

Saturday March 12th 11:45-12:15
Concourse Hall 151

(TBD) Keynote: Importance of Supporting Science and Scientists

"The proud son of immigrants from Mexico, Senator Alex Padilla believes in giving everyone a fair shot at the American dream. A progressive problem solver, Alex has dedicated his career to finding solutions to the toughest challenges and fighting for communities that are too often left out and left behind. Early Days: Alex Padilla is a lifelong Californian. He was born and raised in the proud, working class community of Pacoima, in the San Fernando Valley. Alex's parents immigrated to Los Angeles from different parts of Mexico in the 1960s. Once in California, they met, fell in love, and applied for green cards. Alex's parents had little formal education, but they shared a strong work ethic and big dreams. For forty years, Alex's father worked as a short order cook in various Los Angeles diners. For the same forty years, his mom worked cleaning houses. They instilled in Alex, his sister, and his brother the importance of getting a good education as well as the value of service to others. As a result, Alex spent many weekends at community clean-ups and other neighborhood service projects. College/Education: Alex attended Los Angeles public schools and graduated from San Fernando High School. While his first love was baseball, he also excelled in math and science. With the encouragement of several teachers, he applied and was accepted to the Massachusetts Institute of Technology (MIT) where he earned a Bachelor of Science degree in Mechanical Engineering. Entrance into Politics: After graduating from MIT, Alex returned home eager to begin his career. However, a rising tide of anti-immigrant sentiment in California at the time drew Alex towards politics. He knew he had to take a stand against cynical rhetoric demonizing people like his parents, friends, and neighbors. In 1994, Alex joined protests against California's Proposition 187, which sought to deny public benefits to immigrants. He went on to manage political campaigns for several legislative candidates and served as a field representative for Senator Dianne Feinstein. Career in Public Service: In 1999, at the age of 26, Alex was elected to the Los Angeles City Council to represent the district where he grew up. In 2001, just two years later, he was elected by his colleagues to serve as President of the City Council—the youngest person in city history and the first Latino in over 100 years to hold the position. Alex served as acting Mayor of Los Angeles during the aftermath of 9/11, leading the city through a time of heightened security and tensions. As a council member, he worked to create economic opportunity zones in his district and reduce crime through improved community-police relations. In 2006, Alex was elected to California's State Senate, where, over the course of two terms, he became known as one of California's most effective state legislators. A problem-solver with an ability to

build consensus, Alex authored landmark bills requiring nutritional information on restaurant menus, streamlining the process for community college students seeking to transfer to four-year universities, phasing out single-use plastic bags, and mandating the deployment of the state's earthquake early warning system. For six years, he served as Chair of the State Senate Committee on Energy, Utilities, and Communications, where he was instrumental in developing California's renewable energy and climate policies—among the most ambitious in the world—as well as expanding access to broadband and modernizing California's electrical grid. In 2014, Alex was elected California Secretary of State, the first Latino in state history to serve in the office. As Secretary of State, he worked to make elections more accessible and inclusive while protecting the integrity of voting systems. Alex helped establish automatic and same-day voter registration, secured $500 million to upgrade California's voting systems to meet higher security standards, and oversaw the implementation of the landmark Voter's Choice Act, which expanded mail-in and in-person early voting. Under Alex's leadership, the state reached a record high number of more than 22 million Californians registered to vote and the highest percentage of eligible citizens registered to vote in 80 years. US Senate Appointment and Values: In January 2021, Alex was appointed to the United States Senate to fill the vacancy created by the election of Vice President Kamala Harris. He was sworn in on January 20, 2021 and is the first Latino to represent California in the U.S. Senate. Alex's top priority upon entering the U.S. Senate has been to address the COVID-19 pandemic and deliver equitable economic relief for working families and communities across California. Since being sworn in to office, Padilla has established himself as a champion of voting rights, climate action, and ensuring everyone has a fair shot at the American dream. Alex is the first Latino to serve as Chairman of the Senate Judiciary Subcommittee on Immigration, Citizenship, and Border Safety. His first bill, the Citizenship for Essential Workers Act, seeks to create a pathway to citizenship for undocumented immigrants who served as government-recognized essential workers in key sectors during the COVID-19 pandemic. He is also a member of the Senate Committees on Budget; Environment and Public Works; Homeland Security and Governmental Affairs; Judiciary; and Rules. Alex lives in the San Fernando Valley with his wife, Angela, and their three sons, Roman, Alex, and Diego"

Ref: https://www.padilla.senate.gov/

Saturday March 12th-12:15 -12:45 PM

Concourse Hall 151

Keynote: Functional Neurosurgery at the Cutting Edge

"Newswise — Florida Atlantic University has named Julie G. Pilitsis, M.D., Ph.D., MBA as the new dean of the Charles E. Schmidt College of Medicine. Pilitsis, who currently serves as division chief of functional neurosurgery and chair and professor of the basic neuroscience department at Albany Medical College (AMC) in New York, will assume her role as dean effective February 2022. AMC is an integral component of the Albany Medical Center, the only academic center in northeastern New York and western New England.

As dean of FAU's Schmidt College of Medicine, one of 155 accredited allopathic (M.D.) medical schools in the United States, Pilitsis will build upon the success of the college's innovative medical student and graduate medical education programs in partnership with a consortium of five Palm Beach County hospitals. In addition, she will spearhead the college's vibrant research focus areas, which include healthy aging; geriatrics and neuroscience; chronic pain and opioid use; and genomics and precision medicine.

"We are very excited to welcome Dr. Julie Pilitsis to the Schmidt College of Medicine and to our FAU family as we embark on the next phase of success for our burgeoning medical school," said FAU President John Kelly. "She has made significant contributions at the national level in medicine, education, advocacy and research and will be an outstanding leader and mentor for our students, faculty and staff. We are extremely grateful to Dr. Stella Batalama, chair of the search committee and dean of our College of Engineering and Computer Science; search committee member Dr. Michael Dennis, chair of our College of Medicine's advisory board and a former member of the FAU Board of Trustees, and to all of the search committee members for their efforts on identifying our new medical school's dean. We also extend our gratitude to Dr. Sarah Wood for serving as interim dean of the Schmidt College of Medicine."

As chair of the Department of Neuroscience and Experimental Therapeutics at AMC, Pilitsis oversees departmental teaching programs, including graduate school, research and outreach programs such as community service, translational research efforts, alumni relations and development. Together with a colleague, she designed an inter-professional (M.D., Ph.D., nursing, allied health) team-based master's degree curriculum in clinical investigation. During her tenure, the department's grant funding has increased tenfold; academic productivity, as measured by publications, has increased fourfold; and graduate students who self-identify as underrepresented in medicine have increased by 40 percent.

In her role as division chief of functional neurosurgery at AMC, Pilitsis developed the service line of functional neurosurgery, a subspecialty of neurosurgery aimed at improving

quality of life, which includes multidisciplinary pain/movement disorder teams. Currently, the group performs 650 operative procedures annually and are participating in several industry-sponsored device trials and investigator-driven trials. She also developed and directs a functional neurosurgery fellowship program. The philanthropic fund related to her specialty has doubled in size during her tenure. Further, she has worked with administration to develop a system-wide plan for multi-disciplinary chronic pain services across multiple hospitals.

Pilitsis is the co-founder and co-director of the Junior Faculty Development Program (JFDP) at AMC, which assists in the academic development of faculty and supports professional and leadership development activities. In this role, she identified and recruited stakeholders needed to bring these programs to fruition, developed the curriculum and evaluation process, and co-directed the program. To date, 70 faculty have completed the program with 70 percent female graduates and in some classes as many as 20 percent of the graduates self-identify as historically underrepresented in medicine. For her efforts on the JFDP initiatives, she received the AMC Mentorship and Innovation in Clinical Education Award.

A successful physician scientist and fundraiser through philanthropy, grants and contracts, Pilitsis is a national leader across multiple organizations including the North American Neuromodulation Society (NANS), which has approximately 2,000 members. She has mentored more than 150 students through translational research projects and has more than 200 published articles to her credit including four textbooks. She currently serves as specialty editor of *Frontiers in Pain Research: Neuromodulatory Interventions* and has been recognized with the "Pain Paper of the Year" by the journal *Neurosurgery* for the past three years.

Her national leadership positions include serving as chair of the American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS) Section Pain (2013-2015); the AANS/CNS Section Women in Neurosurgery (2013-2014); the American Society for Stereotactic and Functional Neurosurgery (ASSFN) (Treasurer 2020-2022); North American Neuromodulation Society (Treasurer 2020-2021); Women in Neuromodulation (2014-2016); and International Neuromodulation Society Board of Directors. Pilitsis is likely to serve as chair of three of seven AANS/CNS sections – one of the first neurosurgeons to have done so. Further, she has directed national mentorship programs for medical students in Women in Neurosurgery and for residents and fellows in ASSFN.

Pilitsis has been funded by the National Institutes of Health (NIH) since 2009 and has been a principal investigator on multiple grants exceeding $7 million. She received more than $2.5 million in grant funding from industry partners, and she holds three patents and two filed patent applications. She serves as chair of the medical board for Aim Robotics, a company founded around her NIH research. She is a frequent speaker at national meetings and at neurosurgical grand rounds across the country. Her TED talk, "So You Want to be a Neurosurgeon," has had more than 250,000 views and led to an increase in the number and quality of resident applications at AMC.

Pilitsis received a B.S. in biology magna cum laude in 1996, and her M.D. with distinction from AMC in 1998. She participated in a six-year combined B.S./M.D. program with AMC Troy. In 2002, she received her Ph.D. in physiology from Wayne State University (WSU) in Detroit and completed her residency and internship in the Department of Neurosurgery at WSU from 1998 to 2006. She completed a fellowship in functional neurosurgery from Rush University Medical Center in Chicago from 2006 to 2007. Pilitsis expects to complete an M.B.A. with concentration in health informatics from Fayetteville State University next month."

Ref: https://www.newswise.com/articles/fau-names-julie-g-pilitsis-m-d-ph-d-dean-of-the-charles-e-schmidt-college-of-medicine

Sunday March 13th 8:00 – 8:30 AM

Concourse Hall 151

Keynote: The Ture Pioneers-Our patients

Over the past two decades, Dr. Kassam has been the Chairman or led four

Neurosurgery programs; pioneered and globally taught novel surgical procedures; founded or held leadership roles in several technology start-up companies; and, has
held executive health care administration leadership roles needed to translate these innovations through Integrated Service Line delivery models. He is the Founder and CEO
of Neeka Enterprises and recently served as the Chief Scientific Strategist, VP Neurosciences, and Chairman of Neurological Surgery for AdvocateAurora Health Care.
Grounded on a unique active clinical practice, Dr. Kassam has developed an exceptional experience in minimally invasive Neurosurgery, historically scrubbing on 200-400 surgical procedures annually. Having led teams that performed many of the first-in-man procedures, he remains a global destination surgeon, educator and academic.

Dr. Kassam has published over 322 peer-reviewed articles, 3 textbooks, 80 book chapters, given over 250 lectures globally and served as a distinguished guest for multiple international meetings and societies. He has an H-index of 74, RG-impact score of 47 (98th percentile), and his work has been cited over 21,000 times. He authored the 1st and 3rd most cited article in his field over the past decade and published a sentinel atlas of the human subcortical network: "The White Matter Chassis" which was placed on the 2017 Pantheon list.

Over the past year, Dr. Kassam has focused on completing a Neuro-oncology textbook and on his role as the Chief Medical Officer for the National Hockey League Alumni Association. His team has launched a trial examining Social Determinants of Health (SDoH) and quality of life of the Alumni via a purpose-built digital wellness platform to enhance self-efficacy and peer-to-peer connectivity. Having reached the 20% recruitment threshold the trial represents one of the key decentralized multinational virtual trials in this cohort. The machine
learning-enriched analytics and "Data Visualization/Segmentation Dashboards" from this trial will be foundational for trials in broader populations, such as Veterans and other vulnerable cohorts subject to health equity disparities.

Additionally, with the emergence of the pandemic, Dr. Kassam has focused on resource optimization. His team of data science engineers created and published AI-infused tools

including web-based multi-parametric predictive COVID modeling that anticipate surges, hospital bed capacity and inform strategic planning. The team has further built a responsive four step econometric algorithm and a series of integrated tools at the DRG level that focus on strategic pandemic institutional recovery plans and quality-metric based performance measurements.

Dr. Kassam has developed a broad network, including being appointed as the National Hockey League Alumni Association CMO, econometrics and optics consultant for Stryker Corporation, as well as, recently partnering with JLL Property Investments to create the next generation life sciences ecosystem. This broad and deep range combined with a track record of implementing purpose-built patient-centric Integrated Service Lines across diverse ecosystems, positions him to not only provide direct patient care, but also, be uniquely capable of providing data-driven, predictive clinical and economic insights to optimize resources during a time of unprecedented need both for patient care and academic pursuit. The singular focus remains sustainable optimized patient services.

Dr. Kassam has emerged as a strategic thinker that can work across multiple domains and bring people together to make meaningful change in the service of patients. This has allowed him to effectively bridge clinical, technological, corporate, and academic medicine delivering high performance clinical and econometric results.

Historically his service line performance has yielded over $200m in NPR annually with 50% contribution margins.

Sunday March 13th 9.00 – 9.30 AM

Concourse Hall 151

Keynote: Neuro-Rehabilitation Concepts and Prospects

"Dr. Cristina Sadowsky, Associate Professor in Physical Medicine and Rehabilitation at Johns Hopkins School of Medicine, is Clinical Director of the **International Center for Spinal Cord Injury** at Kennedy Krieger Institute in Baltimore. The spinal cord injury center cares for both children and adults with spinal cord related paralysis and is built on the philosophy that functional restoration is activity dependent and can be best achieved through structured medico-rehabilitative interventions. She is board certified in Physical Medicine and Rehabilitation and Spinal Cord Injury Medicine.

Dr. Sadowsky serves as the chair of the Secondary Conditions in Spinal Cord Injuries subcommittee and is an active member of the Primary Care subcommittee at ASIA, is on the planning committee of the annual conference and served as co-chair of the Pediatric Rehabilitation Networking Group at ACRM. She is a Fellow of the AAPMR and a Diplomate of the AAP. She thoroughly enjoys mentoring individuals passionate for the care of individuals with disabilities.

Dr. Sadowsky's research interests center on prevention of complications in children and adults with paralysis related to traumatic and non-traumatic spinal cord dysfunction and the efficacy of activity based restorative therapies (ABRT) in helping individuals with long-term paralysis recover sensation, movement and independence. She has published in highly regarded specialty related peer reviewed journals, written chapters in seminal specialty books, has organized numerous courses and seminars, sits on several editorial and grant reviewing boards and has been invited to lecture in different universities, and at national and international meetings."

Ref: https://www.kennedykrieger.org/patient-care/faculty-staff/cristina-sadowsky

Sunday March 13th, 2022, 11:45 – 12:15 PM
Concourse Hall 151
Keynote: Neuromodulation: From Stimulators to Virtual Nervous Systems

Abhi Kulkarni serves as Vice President of Research and Development for the Neuromodulation and Pelvic Health Operating Units and heads the Neuromodulation Technology Development Center at Medtronic. In this role, partners closely with Global Business Presidents and General Managers of various Medtronic business units including Pain Management, Brain Modulation, Pelvic Health and Targeted Drug Delivery businesses to bring innovative products to market. In addition, he has the responsibility for enabling the research and technology pipeline for these businesses.

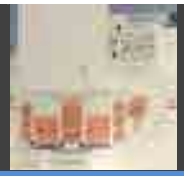
Before joining Medtronic, Abhi served as the Global Vice President of Research, Development and Technology for Advanced Bionics where he held prior leadership positions of Vice President Research & Technology and Director of Systems Development. Abhi's career also includes eight years at Bose Corporation in various roles related to acoustics research, advanced development and product engineering.

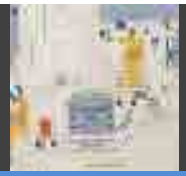
Abhi has a Master of Science and a PhD Degree in Biomedical Engineering having conducted his graduate research at the Research Laboratory of Electronics at MIT and the Hearing Research Center at Boston University.

Sunday March 13th, 2022: Concourse Hall 151 12:15 – 12:30 PM
Keynote: Examining AT(N) Defined Biomarkers among African Americans, Mexican Americans and non-Hispanic whites in the HABS-HD Study

Sid O'Bryant, PhD, Dr. Joe and Peggy Schooler Endowed Chair
Executive Director, Institute for Translational Research
University of North Texas Health Science Center

The O'Bryant laboratory is dedicated to precision medicine in Alzheimer's disease and other neurodegenerative diseases, including Down syndrome, Lewy Body disease, Parkinson's disease, traumatic brain injury, and others. The fully translational lab has a Biomarker Core (Dr. Hall, Director), Clinical Core (Dr. Johnson, Director), Administrative Core (Dr. O'Bryant, Director) and Data Core (Dr. Johnson, Director). The lab also has a Neuroimaging Core (USC, Dr. Toga, Director). Dr. O'Bryant's multiple NIH grants focus on novel strategies for disease detection, screening into trials (therapeutic and prevention), and patient stratification for optimal treatment response. As part of this work, the lab has a strong focus on the impact of ethnicity/diversity on cognitive loss during the aging process and runs the one-of-a-kind Health & Aging Brain among Latino Elders (HABLE) study, which is the most comprehensive study of Mexican-American brain aging to date.
Ref.: https://experts.unthsc.edu/en/persons/sid-obryant





Thursday March 10, 2022

	Lecture Room	Room 150 C (Concourse Hall)-Neuromodulation & Bio skill labs Subcommittee Chairs for Neuromodulation and PD: Drs. Yousef Salimpour and Peter Schmidt and Mark Liker Research Scientist: Dr Nasser Kashou (Bio Skill Labs Fellows: Drs. John Fiallos, Marco Amaya	[SLU CME) Room 409 A- Psychiatry Subcommittee co-chair: Brian Neiling, Faridaddin Naraghi and Dr. Mohammad Nami (Fellows: Dr. Aysha Noor; Inter: Lila Kendall)	[SLU CME) Room 151-Alzheimer's Disease Subcommittee Co-Chair: Drs. Chris Wheeler, Wes Ashford, Margaret Fahnestock, Carr Smith and Maj-Linda Selenica Research Scientist Dr. Dahabada Lopes (Fellow: Mojtaba Barzegar and Setareh Arya)	(SLU CME) Rooms 406B - Neurotrauma/Military Medicine Subcommittee Co-chairs: Drs. Mike Roy, Ken Green and Stuart Hoffman; Research Scientist: Dr. Marco Amaya (Intern: Chevaunne Sinclair)	[SLU CME) Room 407-Neuro-Oncology Co-Chairs: Drs. Vicky Yamamoto and Reinhard Schulte Research Scientists: Drs. Nasser Kashou and Dahabada Lopes (Fellow: Dr. Aysha Noor)	(JHU CME) Room 406A -Neuro-Ophthalmology and Optometry Chair: Deborah Zelinsky (Fellow: Dr. Natallia Fedorchenko)	(JHU CME) Room 418-EEG, MEG Section is made possible by Applied Neuroscience INC. Co-chair: Drs. Robert Thatcher and Mohammad Nami (Fellow: Dr. James Okereke)	[JHU CME) Room 150A Neurotech (Image Guided Therapy, Robotic, AI and Mixed Reality) Co-chairs: Drs. Babak Kateb, Yujia Gao, Harry Kloor, Manny Perez, Yosef Salimpour, Peter Schmidt, Thomas Williams, Ted Berger, Roger Werne Research Scientist: Drs. Nasser Kashou and Dahabada Lopes (Fellow: Dr. Vadym Shapovalov Intern: Lila Kendall), Research Scientist: Dr. Nasser Kashou (Fellow: Drs. James Okereke and Ehanga Idi Marcel)	[JHU CME) Room 150B Spine Innovation and Therapeutics section Co-chair: Drs. Cristina Sadowsky, Tobias Mattei, Jason Cormier, Namath Hussain, Kai -Uwe Lewandrowski (Fellow: Dr. John Fiallos)	Room 152 Exhibition hall and Poster	[JHU CME) Room 153C- Cerebrovascular and Skull-Base Co-chairs: Drs. Robert Hariri, Issac Yang and Iype Cherian (Fellow: John Fiallos and Intern: Lila Kendall)	Room 153 A and B Poster and Exhibition Hall	Room 409 B - Satff Room
7:30 – 7:45 Am Concourse Hall 151	Welcoming and Opening Remark: Babak Kateb (Founding Chairman of the Board and CEO of SBMT, Founding Chairman of Brain Technolog yand Innovation Park, Director of National Center for NanoBioElectroonics, President of Int. Brain Mapping Foundation and CEO of AI-Microscopy) Board Membe rof Byond Imagination Robotics and Advisory Board Member of AIM MED Robotics, Farzad Massoudi (Co-Founder and 4th President of SBMT,Diplomate of the American Board of Neurological Surgery Cofounder, Cofounder of the Massoudi Foundation, Cofounder of the Massoudi Prize for Scientific Breakthroughs in Medicine Founder of Mission Hospital Neuroscience and Spine Institute Founder and CEO of NeuroTrack, Inc. Cofounder of the MemorialCare Neuroscience Center of Excellence, Cofounder and Chief Medical Advisor of Steer Health-A Comprehensive Telemedicine and Virtual Patient Care Platform, Past Chief of Staff at Mission Hospital, Member of UCI Foundation Board of Trustees, Member of Mission Hospital Foundation, Board Member of Optum Healthcare, Advisory board Member of the boards of Monarch Health Plan and Monarch Healthcare CEO, Cofounder of Indarra LLC, Cofounder and President of Orange County Neurosurgical Associates, 2021 Physician Of Excellence Awardee													
7:45– 8:15 am Concourse Hall 151	20th President of SBMT (Presidential Keynote): Vicky Yamamoto, Co-Founder of SBMT, Executive Board member and Executive Director of SBMT, Cancer Scientist, Norris Comprehensive Cancer Center, USC-Keck School of Medicine, USA													
8:15-8:40	Gray Davis, Former Governor of Claifornia: Importance of Advancing Biotech and Neurotech In California													
8:40 AM - 9:40 AM Concorse Hall 151	Announcement of Creation of Brain Technology and Innovation Park (BTIP); Neurotechnology Based Economic Development collaboration Panel: Hon. Mayor Eric Garcetti, Honorable HUD Secretary Marcia L. Fudge, Drs. Mary Gallagher, Vicky Yamamoto, Ming Hsieh, Farzad Massoudi, Jason Cormier, Robert Hariri, Francisco C Rodriguez, Michael Roy, Roger Werne, Thomas Williams, Wes Ashford, Moderators: Babak Kateb													
9:40– 10:10 am	Break (30 minutes)													
10:10 – 11.30am	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12		
10:00-11:30 AM	No Program	Child & Adolescent Psychiatry: Lifetime Attention Disorders and Related Comorbidities and Autism Spectrum Disorder Highlights Chair: Nicole Jafari	[SLU CME) Genomics and Alzheimers Chair: Sharon Hausman-Cohen	No program	Neuro-Oncology Sub-Committee Meeting Chair: Reinhard Schulte and Vicky Yamamoto	NON-IMAGE FORMING PATHWAYS Chair: Deborah Zelinsky	No program	Image Guided Therapy Co-Chair: Babak Kateb, Manuel Perez and Nasser Kashou	(JHU CME) Complex spine surgery, imaging and reconstruction techniques Chair: Namath Hussain		(JHU CME) Neurovascular Disorders Co-Chair: Iype Cherian and Christian A. Bowers		Room 409 B - Satff Room	
11.30pm	Lunch (120 minutes)													
11.45 - 12.15 PM Concourse Hall 151	Deborah Zelinsky, Founding Director of Mind-Eye-Institute, Member of the Board of SBMT: The Inclusion of Brain Mapping and Retinal Neuromodulation into Eye Care Policy: Here Today, but Where Tomorrow?													
12.15 - 12.45 PM Concourse Hall 151	George Perry, Professor of Neuroscience, Developmental and Regenerative Biology, Professor of Chemistry, The Semmes Foundation Distinguished University Chair in Neurobiology, and former Dean of Sciences at The University of Texas, USA: In search of a cure for Alzheimer disease: Where have we gone wrong													
1.30pm														
1.00 – 2.30 pm	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25		
1:30 - 3:00 PM	No Program	Artificial Intelligence Based Mental Health Chair: Mojtaba Barzegar	(SLU CME) Cognitive Screening in Neurological Disease Chair: Wes Ashford and James Clifford	No program	Neuro-Oncology: Metabolic Therapy (SLU CME) Co-Chairs: Jethro L. Ha and Leigh Greathouse	IMAGE FORMING PATHWAYS (JHU CME) Chair: Deborah Zelinsky	No program	Neuromodulation in Neurological Disorders (JHU CME) Co-Chair: Yousef Salimpour and Peter Schmidt	(JHU CME) Rehabilitation and Biologics in Spine Surgery Chair: Cristina Sadowsky		(JHU CME) Neurovascular Disorders Co-Chair: Amin Kassam and Iype Cherian	Co-Chair: TBD Co-Chair: TBD	Room 409 B - Satff Room	
3.30– 3.45pm	Break (30 minutes)													
3.00 – 5.00pm	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37	A38		
3:00-5:00 PM	No Program	(SLU CME) Clinical diagnosis of Axis 2 personality disorders comorbid with Axis 1 disorders Chair: Eric Braverman and Mohammad Nami	AI Machine Learning in Neurodegenerative Disorders Co-Chair: Hojjat Ansaribakhi	Military Medicine Subcommittee meeting Co-Chair: Stuart Hoffman, Michael Roy and Ken Green	Neuro-Oncology: Circulating Biomarkers and Liquid Biopsies (SLU CME) Chair: Chantelle Pursyedera and Juliana Mueller-Burk	VISUAL PROCESSING (JHU CME) Chair: Deborah Zelinsky	Functional Brain Mapping Subcommittee Meeting Chair: Saroj Chandra and Robert Thatcher	Mixed Reality Co-Chair: Yujia Gao and Nasser Kashou	Neurosurgical & Spine Care: Examples of Translational Research from Benchtop to Clinical Practice Chair: Kai-Uwe Lewandrowski		(JHU CME) Neurovascular Disorders Co-Chair: Amin Kassam and Fawaz Al-Mufti		Room 409 B - Satff Room	
5.00-6:30 PM	Music at the Exhibit hall													
6:30-7:00 PM														

Friday March 11, 2022

Time	Program
7:00 AM	Delegate Registration
8:00 – 8:30am Concorse Hall 151	Joseph C. Maroon, Clinical Professor, Department of Neurological Surgery Heindl Scholar in Neuroscience, University of Pittsburgh Medical Center, Neurosurgical Consultant, The Pittsburgh Steelers Medical Director of World Wrestling Entertainment: The Connectome--Psychosurgery, Neuromodulation and Psychedelics for Mood and Behavioral Disorders
8:30– 9:00 am Concourse Hall 151	Deepak Chopra,founder of The Chopra Foundation and co-founder of The Chopra Center for Wellbeing, Board Certified in Internal Medicine, Endocrinology and Metabolism, Fellow of the American College of Physicians: Suicide Preention using Neurotechnologies and AI
9:30 AM - 10:00 AM Concorse Hall 151	How to address the needs of Wounded Soldiers, Veterans and Civilians with Neuro-psychiatric and Neurotraumatic Disorders: Panel Discussion with Drs. Michael Roy, Joseph Maroon, Deepak Chopra, Wes Ashford and Ken Green
9.30 – 10.00 am	Break (30 minutes)

10.00 - 11.30am

Room	Title:	Chairperson(s)
B40	No Program	
B41	(SLU CME) Guidelines for Neuropsychiatric screening and brain mapping as a diagnostic tool for evidence based psychiatric treatment	Chair: Eric Braverman and Mohammad Nami
B42	(SLU CME) Alzheimer's Disease Mechanisims 1: Beyond AB and Tau	Chair: Margaret Fahnestock
B43	TBI and PTSD in Combat Veterans (SLU CME)	Chair: Michael Roy and Ken Green
B44	Neuro-Oncology (SLU CME) Tumor Treating Fields	Chair: Edwin Change and Chirag Patel
B45	Electrical Assessments (JHU CME)	Chair: Delia Cabrera
B46	New Advancements in Electrical Neuroimaging	Chair: Robert W. Thatcher
B47	Neuromodulation in Psychiatric Disorder	Co-Chairs: Yousef Salimpour and Peter N. Schmidt
B48	(JHU CME) Complex Spine Surgery, Imaging and Reconstruction Techniques	Chair: Namath Hussain and Tobias Mattei
B49	Exhibition Hall	
B50	(JHU CME) Neurovascular Disorders	Chair: J. Pablo Villablanca
B51	Poster and Exhibition Hall	
	Room 409 B - Satff Room	

Time	Program
11.30pm	Lunch (120 minutes)
11.45 - 12.15 PM Concourse Hall 151	General Mark A. Milley is the 20th Chairman of the Joint Chiefs of Staff, the nation's highest-ranking military officer, and the principal military advisor to the President, Secretary of Defense, and National Security Council.
12.15 - 12.45 PM Concourse Hall 151	Discussion with the Chairman
1.30pm	

1.00 - 2:30 pm

Room	Title	Chair(s)
B53	No Program	
B54	(SLU CME) Sleep, wakefulness, and related neuro-psychological/brain mapping perspectives	Chair: Mohammad Nami
B55	ALZHEIMER'S DISEASE MECHANISMS II: GENETICS, INFLAMMATION & IMMUNE INTERACTIONS	Co-Chair: Carr Smith
B56	Virtual and Augmented Reality to Enhance the Treatment of PTSD and Related Conditions (SLU CME)	Chair: Michael Roy and Ken Green
B57	(SLU CME) Neuro-Oncology: Stem Cell and Molecular Targeting	Chair: Vicky Yamamoto and Jennifer Yu
B58	Subcommittee Meeting Led by our Chairs	Chair: Delia Cabrera, Deborah Zelinsky, Jonathan Hall, Amy Pruszenski
B59	(JHU CME) Epilepsy and intraoperative Brain Mapping	Chair: Dawn Eliashiv and Warren Boling
B60	Image Guided Therapy II	Chairs: Babak Kateb, Manuel Perez, Nasser Kashou
B61	(JHU CME) Management of the Spine Disorders	Chair: Kai-Uwe Lewandrowski
B62	Exhibition Hall	
B63	(JHU-CME) Neurovascular Disorders	Chair: Robert Hariri and Abilash Haridas
B64	Poster and Exhibition Hall	
	Room 409 B - Satff Room	

0 Break (30 minutes)

2:.30 – 3:00pm

3.00 - 5.00pm

Room	Title	Chair(s)
B66	No Program	
B67	The Neuroscience of Human Consciousness	Chair:Brian Norling
B68	(SLU CME) COVID19 Brain	Chair: Ashraf Elsayegh
B69	Innovative Diagnostic and Treatment Approaches in Brain Health	Chair: Ken Green and Michael Roy
B70	NeuroOncology: New Aaproaches in Immunotherapy (SLU CME)	Co-Chairs: John S. Yu and Michael Lim
B71	Biomarkers (JHU CME)	Chair: Delia Cabrera
B72	(JHU CME) MEG/EEG Clinical Applications	Chair: Robert Thatcher
B73	Recent Advances in Neuromodulation Technologies (JHU CME)	Chairs: Yousef Salimpour and Peter N. Schmidt
B74	(JHU CME) Innovation in Spine Surgery	Chair: Namath Hussain
B75	Exhibition Hall	
B76	Cerebrovascular Subcommittee meeting	Chair: Isaac Yang; Iype Cherian; Robert Hariri, Christian A. Bowers; Fawaz Al-Mufti and Amin Kassam
B77	Poster and Exhibition Hall	
	Room 409 B - Satff Room	

Time	Program
6:00-8:00 PM (Cocktail) & 8-11 PM (Black Tie GALA)	BLACK TIE GALA

Saturday March 12, 2022

8.00am — Delegate Registration

8.30 - 9.00 am Concourse Hall 151 — Carolyn C. Meltzer, Dean, Keck School of Medicine of USC, May S. and John H. Hooval, MD, Dean's Chair and Professor of Radiology: The Technology Revolution in Healthcare: Biases and Cautionary Tales

9.00 – 9.30 AM Concourse Hall 151 — Keyne K. Johnson, fellow of the American Association of Neurological Surgeons and Assistant Professor at the University of Central Florida School of Medicine: The Future of Spine Disorders and Innovation

9.30 – 10.00am — Break (30 minutes)

C

C79 — 8 am to 12 noon | Cadaveric Neurovascular, Skullbase and endovascular Biopsills labs (Cadaver labs) — Chair: Robert Hybid

C80 — [SLU CME] Genomic & Epigenetic Correlates of Reward Deficiency Syndromes : Predominance of Dopaminergic Dysregulation Across Psychopathology — Co-Chair: David Baron and Sharon Hausman-Cohen

C81 — ALZHEIMER DISEASE DIAGNOSIS I: COGNITIVE, IMMUNOCELLULAR & MOLECULAR BIOMARKERS — Chair: Christopher L Wheeler

C82 — Subconcussive Blast Exposure (SLU CME) — Chair: Michael Roy and David Keyser

C83 — [SLU CME] Neuro-Oncology: Image Guided Ablative Therapy — Co-Chair: Gregory S. Fischer and Julie Pilitsis

C84 — Collaboration in Internal Medicine (Cardiology & Endocrinology) (JUBC CME) — Chair: Jonathan Ball

C85 — Practical Advances in Electrical Neuroimaging: Hands On Training — Chair: Robert W. Thatcher

C86 — Advances in Movement Disorders: DBS and Beyond (JWJ CME) — Chair: Yousef Salimpour and Mark Liker

C87 — No program

C88 — oral poster

C89 — No Program

C90

Room 409 B - Satff Room

Tribe: Chairperson(s)

11.30am — Lunch (90 minutes)

11.45 - 12.15 PM Concourse Hall 151 — California Senator Alex Padilla, Importance of Supporting Science and Scientists

12:15 -12:45 PM Concourse Hall 151 — Julie G. Pilitsis, Dean of Charles E. Schmidt College of Medicine, Florida Atlantic University, Professor of Neurosurgery: The Future of Neurosurgery

1.00 - 2.30pm

C92 — Spine Biopsills labs (Cadaver labs) — Chair: Namath Hussain and Jason Cormier

C93 — Opioid Addiction: Risk Identification, Avoidance and Prevention — Chair: Nicole Izbel

C94 — [SLU CME] ALZHEIMER'S DISEASE DIAGNOSIS II: RETINAL IMAGING — Chair: Delia Cabrera Debuc

C95 — Audiologic and Vestibular Assessments in Military Service Members and Veterans (SLU CME) — Chair: Ken Green and Mike Roy

C96 — [SLU CME] Neuro-Oncology: Precision Medicine — Chair: Terry Burns and Andrew G. Venbrocker

C97 — Collaboration with Trauma (Physical Medicine & Rehabilitation) — Chair: Jonathan Ball

C98 — MEG/EEG: Clinical Applications II — Chair: Leslie Pelzkey and Robert Thatcher

C99 — Image Guided Therapy — Chair: Manuel Perez

C100 — No program

C101 — Oral Poster

C102 — No program

C103

Room 409 B - Satff Room

2.00 - 2.30 pm

2.30 – 3.00pm — Break (30 minutes)

C105 — (2PM-4 PM) Spine Biopsills labs (Cadaver labs) — Chair: Namath Hussain and Jason Cormier

C106 — [SLU CME] Opioid Addiction - Treatment, Successes and Failures — Chair: Brian Harding

C107 — ALZHEIMER'S DISEASE DIAGNOSIS III: BRAIN, IMAGING, BRAIN STIMULATION — Chair: Mojtaba Bangesar

C108 — Suicide (SLU CME) — Chair: Michael Roy and Ken Green

C109 — Neuro-Oncology: Tumor Ablation — Chair: Reinhard W. Schulte and Ian Y Lee

C110 — Collaboration in Overall Health (Psychiatry & Neurology) (JUBC CME) — Chair: Jonathan Ball

C111 — Epilepsy: Session II (JUBC CME) — Chair: P. Sarat Chandra

C112 — Neuromorphic Computing: The Brain as a Computing Machine — Chair: Roger Wiome and Nasser Kashou

C113 — No program

C114 — oral poster

C115 — No Program

C116 — Poster and The Exhibition

Room 409 B - Satff Room

3.00 - 3.05pm

4.00-5.00 Break

5.00-6:30 PM — Music at the Exhibit hall

7:30-9:30 PM — Board of Directors Dinner Meeting (Location JWM SBMT Board Room (Second Floor)

Room 409 B - Satff Room

Sunday March 13, 2022

8:30 – 9:00 AM Concourse Hall 151 — Amin Kassam, Chief Medical Officer, National Hockey League Alumni Association, Neurosurgeon, Founder & CEO of Neeka Enterprises and serial entrepreneur:

9.00 – 9.30 AM Concourse Hall 151 — Cristina Sadowsky, Associate Professor in Physical Medicine and Rehabilitation at Johns Hopkins School of Medicine, Clinical Director of the International Center for Spinal Cord Injury at Kennedy Krieger Institute, Johns Hopkins University School of Medicine, Maryland, USA: Neuro-Rehabilitation Concepts and Prospects

9.30 – 10.00am — Break (30 minutes)

10.00 - 11.30am	D118	D119	D120	D121	D122	D123	D124	D125	D126	D127	D128	D129	
Title:	No Program	In-silico Applications in Neuroscience	(SLU CME) LIFESTYLE INTERVENTION IN ALZHEIMER'S DISEASE PREVENTION AND TREATMENT	Digital Therapeutics for use by Military Service Members	(SLU CME) Neuro-Oncology: Neuroimaging and Therapeutics	Establishing Adjunct Relationships	(JHU CME) MEG Sessors	Extended Reality	Innovation in Spine Surgery (JHU CME)	oral poster	(JHU CME) Neurovascular and Skull Base Disorders		Room 409 B - Satff Room
Chairperson(s)		Chair:Nevzat Tarhan and Barish Metin	Chairs: Christopher J. Wheeler	Chair: Michael Roy and Ken Green	Co-Chair: Vasileios Katsaros and Frankis Almaguel	Chair: Amy Pruszenski	Chair: Peter Schwindt and Amir Borna	Chairs: Yujia Gao and Nasser Kashou	Namath Hussain and Jason Cormier		Chair: Reza Jahan and Ashkan Mowla		

11.30am — Lunch (90 minutes)

11.45 - 12.15 PM Concourse Hall 151 — Abhi Kulkarni serves as Vice President of Research and Development for the Neuromodulation and Pelvic Health Operating Units and heads the Neuromodulation Technology Development Center at Medtronic:

12:15-12:45 PM Concourse Hall 151 — Sid E. O'Bryant, Executive Director, Institute for Translational Research, University of North Texas Health Science Center, Fort Worth, TX USA: Examining AT(N) Defined Biomarkers among African Americans, Mexican Americans and non-Hispanic whites in the HABS-HD Study

1.00 - 2.30pm	D131	D132	D133	D134	D135	D136	D137	D138	D139	D140	D141	D142	
Title:	No Program	(SLU CME) Anxiety, depression, and mood disorders	(SLU CME) ALZHEIMER'S DISEASE TREATMENT: MECHANISTIC & ALTERNATIVE TARGETS	Assessment of the Impact of Sleep Impairment on Performance in Military Service Members (SLU CME)	(SLU CME) Neuro-Oncology: Neuroimaging and Theranostics	Creating Public Awareness of Visual Processing	Software Session for MEG/EEG	Neuroengineering	(JHU CME) Innovation in Spine Surgery	oral poster	Neuro Vascular/Skull Base Disorders (JHU CME)		Room 409 B - Satff Room
Chairperson(s)		Co-Chairs: Foojan Zeine and Nesrin Dilbaz	Chair: Greg Cole and Bruce Teter	Chair: Miranda Lim and Jessica Gill	Chair: Narayan Hosmane and Reinhard W. Schulte	Chair: Amy Pruszenski	Co-Chair: Robert Thatcher and Ernesto Palmero Soler	Chairs: Ted Berger, Roger Werne and Nasser Kashou	Chairs: Namath Hussain and Jason Cormier		Chair: Issac Yang		

2.30 – 3.30pm Concourse 152 — Poster Viewing and Networking with Industry leaders

3.30 - 5.00pm	D144	D145	D146	D147	D148	D149	D150	D151	D152	D153	D154	D155	
Title:	No Program	(SLU CME) Suicide Risk Factors and Prevention	AD Panel Discussion	Funding resources and Innovative technologies for wounded Soldiers and Veterans	Neuro-Oncology: Brain Tumours in Veterans	Updating the Eye Examination (JHU CME)	Committee meeting	Neuromodulation and Ultrasound	Spine Subcommittee Meeting	oral poster	(JHU CME) Neurovascular Disorders		Room 409 B - Satff Room
Chairperson(s)		Chair: Ken Green and Chevaunne Sinclair	Chair: Chris Wheeler and George Perry	Chair: Michael Roy and Stuart Hoffman	Co-Chair: Reinhard W. Schulte and J. Wesson Ashford	Chair: Amy Pruszenski		Chair: Seung-Schik Yoo	Chairs: Namath Hussain and Jason Cormier		Co-Chair: Fawaz Al-Mufti and Ambooj Tiwari		

5.00 – 5:30 PM — Break (30 minutes)

Society for Brain Mapping and Therapeutics (SBMT)
Neurotech Neurotech (Neuromodulation, Imaged Guided Therapy, Nanoneurosurgery, Brain Computer Interface, Mixed Reality, AI and Robotics)
Conference 2022: Room 150-A

Thursday, March 10th 10:00 – 11:30 AM
A8: Image Guided Therapy (JHU CME)

Chairs:

Babak Kateb
Founding Chairman CEO and Scientific Director, Society of Brain Mapping Foundation and Therapeutics Director, National Center for NanoBioElectronics & Chairman of the Board and CEO, Brain Technology and Innovation Park, Los Angeles, California

J.Manuel Perez

Program Director, Image Guided Intervention Branch, Cancer Imaging Program, at National Cancer Institute Rockville, MD

Nasser Kashou
Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)

10:00-10:15 AM
Samuel Achilefu
Affiliation: Professor of Radiology, Washington University

Convergence of light, molecules, and devices for fluorescence-guided surgery

10:15-10:30 AM
Lihong Wang
Affiliation: Bren Professor of Medical Engineering and Electrical Engineering Option Representative of Medical Engineering, Andrew and Peggy Cherng Department of Medical Engineering, Department of Electrical Engineering Division of Engineering and Applied Science, California Institute of Technology

Functional Photoacoustic Tomography of the Human Brain

10:30-11:00 AM
Benjamin M Ellingson
Affiliation: Professor of Radiology and Psychiatry, UCLA

Role of decorin and diffusion MRI in anti-VEGF efficacy for recurrent glioblastoma

11:00-11:15 AM
Eric R Henderson
Affiliation: Assistant Professor of Orthopaedics, Geisel School of Medicine, Dartmouth-Hitchcock Clinic

First-in-human clinical translation of a near-infrared, nerve-specific fluorophore to facilitate tissue-specific fluorescence-guided surgery

11:15-11:30 AM
Kawin Setsompop
Associate Professor of Radiology and, by courtesy, of Electrical Engineering, Stanford University

Toward mesoscale in vivo diffusion imaging of the human brain

11:30 – 11:45 AM
Jonathan Sackier
affiliation: Serial medical entrepreneur, Director AiM Medical Robotics, prior Visiting Professor of Surgery, Oxford University

James Bond and the Art of Medical Innovation

11:45-12:00 noon Session discussion

Thursday, March 10th 1:00 – 3:00 PM

A21: Neuromodulation in Neurological Disorders (JHU CME)

Chairs:

Yousef Salimpour
Assistant Professor of Neurology and Neurological Surgery, Johns Hopkins School of Medicine

Peter N. Schmidt
Affiliation: Adjunct Professor of Neurology; Chairman, Huntington's Study Group, Department of Neurology, NYU Grossman School of Medicine; Huntington's Study Group; The Dartmouth Institute for Health Policy and Clinical Practice

1:00-1:15 PM
Peter N. Schmidt
Affiliation: Adjunct Professor of Neurology; Chairman, Huntington's Study Group, Department of Neurology, NYU Grossman School of Medicine; Huntington's Study Group; The Dartmouth Institute for Health Policy and Clinical Practice

Increasing demands of care complexity and its impact on Parkinson's disparities.

1:15-1:30 PM
Yousef Salimpour
Affiliation: Assistant Professor of Neurology and Neurological Surgery, Johns Hopkins School of Medicine
Email: salimpour@jhu.edu
Phase-dependent stimulation of the human hippocampus

1:30-1:45 PM
Brach Poston
Affiliation: Associate Professor, University of Nevada Las Vegas

Transcranial direct current stimulation to improve complex motor skills

1:45-2:00 PM
Christa W Habela
Affiliation: Assistant Professor, Department of Neurology, Johns Hopkins School of Medicine

Dynamic analysis of neural modulation in humans: an in vitro approach

2:00-2:15 PM
Jeff Chang-Chia Liu
Affiliation: Assistant Professor, Department of Neurological Surgery, University of Virginia School of Medicine

Transcranial Focused Ultrasound for Head and Neck Cancer Pain

2:15-2:30 PM
Session discussion

Thursday, March 10th 3:00 – 5:00 AM

A34: Mixed Reality (JHU CME)

Chairs:

Yujia Gao
Vice-Chairman, Holomedicine Association | Assistant Group Chief Technology Officer, National University Health System

Nasser Kashou
Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)

3:00-3:15 PM
Yeo Tseng Tsai
Affiliation: Head of Division, Division of Neurosurgery, National University Hospital, Singapore

The History of Extended Reality in Neurosurgery

3:15-3:30 PM
Swati Jain
Service Senior Resident, Division of Neurosurgery, National University Hospital, Singapore

Holomedicine in Neurosurgery, Experiences from Singapore

3:30-3:45 PM
Adel Helmy
Affiliation: Associate Professor, Cambridge University Hospitals NHS Trust

Use of Mixed Reality technology in neurovascular anatomy education

3:45-4:00 PM
Adel Helmy
Affiliation: Associate Professor, Cambridge University Hospitals NHS Trust

Validation of Mixed Reality Technology in Neurosurgery

4:30-5:00 PM
Session discussion

Friday, March 11th 10:00 – 11:30 AM

B47: Neuromodulation in Psychiatric Disorder (JHU CME)

Chairs:

Yousef Salimpour
Assistant Professor of Neurology and Neurological Surgery, Johns Hopkins School of Medicine
Email: salimpour@jhu.edu

Peter N. Schmidt
Adjunct Professor of Neurology; Chairman, Huntington's Study Group, Department of Neurology, NYU Grossman School of Medicine; Huntington's Study Group; The Dartmouth Institute for Health Policy and Clinical Practice
Email: Peter.N.Schmidt@dartmouth.edu

10:00-10:15 AM
Nicola Gerardo Cascella
Affiliation: Assistant Professor, Department of Psychology, Johns Hopkins School of Medicine

DBS for treatment-resistant schizophrenia

10:15-10:30 AM
Greg Pontone
Affiliation: Professor, Director of the Parkinson's Neuropsychiatry Clinic at Johns Hopkins

Lewy Body Disease and Associated Dementias

10:30-10:45 AM
Kazadi Kalangu
Affiliation: Professor and Head, Department of neurosurgery at University of Zimbabwe

The use of neurotherapy and color therapy, our experience in head injury

10:45-11:00 AM
David Eidelberg
Affiliation: Director, Professor Center for Neurosciences at the Feinstein Institutes for Medical Research Molecular Medicine and Neurology, Donald and Barbara Zucker School of Medicine at Hofstra Northwell

Adaptive and pathological connectivity responses in Parkinson's disease brain networks

11:00-11:15 AM
Mishra Virendra
Affiliation: Assistant Director, Brain Imaging Research at Cleveland Clinic Lou Ruvo Center for Brain Health, Cleveland Clinic, Lou Ruvo Center for Brain Health

Advanced Diffusion MRI in Understanding Non-Motor Symptoms in Parkinson's Disease

11:15-11:30 AM
Session discussion

Friday, March 11th 1:00-3:00 PM

B60: Image Guided Therapy (JHU CME)

Chairs:

Babak Kateb
Founding Chairman CEO and Scientific Director, Society of Brain Mapping Foundation and Therapeutics Director, National Center for NanoBioElectronics & Chairman of the Board and CEO, Brain Technology and Innovation Park, Los Angeles, California

J Manuel Perez
Program Director at National Cancer Institute Washington DC-Baltimore Area

Nasser Kashou
Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)

1:00-1.15 PM
J. Manuel Perez
Affiliation: Program Director, Image-guided Intervention Branch, National Cancer Institute

Overview of Image Guided Intervention Initiatives at the NCI

1:15-1:30 PM
Jayender Jagadeesan
Affiliation: Assistant Professor, Harvard Medical School, Navigation Sciences
Brigham and Women's Hospital

Bronchoscopic lung navigation system for accurately excising lung nodules

1:30-1:45 PM
Mathias Unberath
Affiliation: Assistant Professor, Department of Computer Science, John Hopkins University with affiliations to the Laboratory for Computational Sensing and Robotics and the Malone Center for Engineering in Healthcare

Catalyzing the exploratory design of intelligent surgical systems through in silico experiments

1:45-2:00 PM
Todd Hollon
Affiliation: Assistant Professor, Department of Neurosurgery, University of Michigan, School of Medicine, Ann Arbor, MI

Redefining precision in brain tumor surgery through rapid bedside histology

2:30-2:45 PM
Oermann, Eric
Affiliation: Instructor of Neurological Surgery in the Mount Sinai Health System and the Director of AISINAI, Mount Sinai's artificial intelligence research group

Redefining precision in brain tumor surgery through rapid bedside histology

2:45-3:00 PM
Session discussion

Friday, March 11th 3:00-5:00 PM

B73: Recent Advances in Neuromodulation Technologies (JHU CME)

Chairs:

Yousef Salimpour
Assistant Professor of Neurology and Neurological Surgery, Johns Hopkins School of Medicine

Peter N. Schmidt
Adjunct Professor of Neurology; Chairman, Huntington's Study Group, Department of Neurology, NYU Grossman School of Medicine; Huntington's Study Group; The Dartmouth Institute for Health Policy and Clinical Practice

3:00-3:15 PM
Brach Poston
Affiliation: Associate Professor, University of Nevada Las Vegas

Transcranial direct current stimulation to improve complex motor skills

3:15-3:30 PM
Amir Manbachi
Affiliation: Assistant Professor, Department of Neurosurgery, Johns Hopkins School of Medicine

Design and Fabrication of Ultrasound transducers for Neurosurgical applications: Engineering subtleties from Diagnostic to Therapeutic modalities

3:30-3:45 PM
Pawel Kudela
Affiliation: Assistant Professor, Department of Neurosurgery, Johns Hopkins School of Medicine

Pawel Kudela, Reverse engineering intracortical microstimulation patterns to elicit biomimetic sensory feedback

4:15-4:30 PM
Martha Morrell
Clinical Professor of Neurology, Stanford University and Chief Medical Officer, NeuroPace

Closed-loop neuromodulation devices: data-driven therapy

4:30-4:45 PM
John Hermiz
Job title: Postdoctoral researcher, Lawrence Berkeley National Laboratory
Towards a 4096 channel system for *in vivo* neurophysiology

4:45-5:00 PM
Session discussion

Saturday, March 12th 10:00-11:30 AM

C86: Advances in Movement Disorders: DBS and Beyond (JHU CME)

Chairs:

Mark Liker
Assistant Professor Neurosurgery USC Keck School of Medicine, Director of California Neurosurgical Institute.

Yousef Salimpour
Assistant Professor of Neurology and Neurological Surgery, Johns Hopkins School of Medicine

10:00-10:15 AM
Mark Liker
Affiliation: Assistant Professor Neurosurgery USC Keck School of Medicine, Director of California Neurosurgical Institute.

Recent Advances in Neuromodulation

10:15-10:30 AM
Ioannis Isaias
Affiliation: Assistant Professor, Department of Neurology, University Hospital of Würzburg.
Chief of the Motor Control and Neuroimaging Division.

Subthalamic activity during gait for adaptive DBS strategies in Parkinson's disease

10:30-11:00 AM
Gwenn S. Smith
Affiliation: Professor of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine Director, Division of Geriatric Psychiatry and Neuropsychiatry, Johns Hopkins Bayview

Molecular Imaging of DBS in Neurodegenerative disease

11:00-11:15 AM
Yousef Salimpour
Affiliation: Assistant Professor of Neurology and Neurological Surgery, Johns Hopkins School of Medicine

Recent advances in closed-loop Neuromodulation Devices

11:15-11:30 AM
Liana Rosenthal
Affiliation: Associate Professor of Neurology Director, Johns Hopkins Ataxia Center

Potential diagnostic and progression biomarkers for Parkinson's disease

11:30-11:45 AM
Session discussion

Saturday, March 12th 1:00-3:00 PM

C99: Image Guided Therapy (JHU CME)

Chairs:

J Manuel Perez
Program Director at Program Director at National Cancer Institute Washington DC-Baltimore Area

Babak Kateb
Founding Chairman CEO and Scientific Director, Society of Brain Mapping Foundation and Therapeutics Director, National Center for NanoBioElectronics & Chairman of the Board and CEO, Brain Technology and Innovation Park, Los Angeles, California

1:00-1:15 PM
Wendell Gibby
Affiliation: Associate Professor of Radiology, University of Arizona, CEO of NOVARAD, USA

Augmented reality and the transformation of surgical guidance with VisAR; fast, accurate and potentially ubiquitous

1:15-1:30 PM
Gregory D Hager
Professor Department of Computer Science, Johns Hopkins University

Improved Surgical Navigation Using Video-CT Registration (Robotics and AI)

1:30-1:45 PM
Samuel Achilefu
Affiliation: Professor of Radiology, Washington University

Imaging Goggles for Fluorescence-Guided Surgery

1:45-2:00 PM
Reza Manfred
Affiliation: Adjunct Professor, Children's Research Institute (University Of Maryland)

MRI-Compatible Robot for Real-Time Image-Guided Stereotactic Neurosurgical Procedures: A Novel Platform Technology

2:00-2:15 PM
Jayender Jagadeesan
Affiliation: Assistant Professor, Harvard Medical School, Navigation Sciences
Brigham and Women's Hospital

Bronchoscopic lung navigation system for accurately excising lung nodules (Robotics and AI)

2:15-2:30 PM
Joseph Georges
Neurosurgical Oncology Fellow, City of Hope National Medical Center

Fluorescence-Mediated Intraoperative Diagnostics

2:30-2:45 PM
Session Discussion

Saturday, March 12th 3:00- 5:00 PM

C112: NeuroTechnology
Neuromorphic Computing: The Brain as a Computing Machine.

Chairs:

Roger Werne
Senior Advisor for the Innovation and Partnerships Office and Partnership with Lawrence Livermore National Laboratory (LLNL)

Nasser Kashou
Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)

3:00-3:15 PM
Robinson Pino
Affiliation: Computer Scientist and Program Manager for the Advanced Scientific Computing Research (ASCR) program office in the Department of Energy's (DOE) Office of Science

Neuromorphic Computing- Programmatic and Research Activities within the DOE Office of Science

3:15-3:30 PM
Peter Littlewood
Affiliation: Professor of Physics in the James Franck Institute at the University of Chicago

Some Technology Challenges for the Whole Mouse Brain Connectome

3:30-3:45 PM
Andrew Sornborger
Affiliation: Scientist in the Information Sciences group at Los Alamos National Laboratory

Learning with Backpropagation is Neurally and Neuromorphically Feasible

3:45-4:00 PM
Gina Adam
Affiliation: Assistant Professor, School of Engineering and Applied Science, George Washington University

Memristors and Analog Neuromorphic Hardware: Challenges and Opportunities

4:00-4:15 PM
Yulia Sandamirskaya
Affiliation: Senior Research Scientist at Intel Labs. Intel Corp. Munich

Neuromorphic computing at Intel

4:15-4:30 PM
Ajit Mulavara, Alexandra Whitmire, Vonetta Dotson, Sara Whiting, Erin Flynn-Evans
Affiliation: National Aeronautics and Space Administration (NASA)
Email: alexandra.m.whitmire@nasa.gov

Brain Health in Space; "Countermeasures to Protect Brain Health for Future Spaceflight"

4:30-4:45 PM
Session discussion

Sunday, March 13th 10:00-11:30 AM

D125: Extended Reality (JHU CME)

Chairs:

Yujia Gao
Vice-Chairman, Holomedicine Association | Assistant Group Chief Technology Officer, National University Health System

Nasser Kashou
Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)

10:00-10:15 AM
Giuseppe E. Umana
Affiliation: Department of Neurosurgery, trauma and gamma-knife center Cannizzaro Hospital Catania, Italy.

Mixed reality updates in neurosurgery

10:15-10:30 AM
Ng Kian Wei
Affiliation: Data Scientist, National University Health System, Singapore

Object tracking and Computer Vision in HoloLens

10:30-10:45 AM
Yasuharu Okuda
Affiliation: Execute Director, Interprofessional Education Simulation Programming, USF Health

Extended Reality in Medical Education and Training

10:45-11:00 AM
Michael Uohara
Affiliation: Advisor, Clinical Lead - Federal Healthcare, Microsoft Inc

Cloud Computing for healthcare

11:00-11:15 AM
Nasser Kashou
Affiliation: Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)

Medical image registration in mixed reality

11:15 – 11:30 AM
Khoo Eng Tat
Affiliation: Senior Lecturer, College of Design and Engineering, National University of Singapore

Medical Education and the Metaverse

11:30 AM-11:45 AM
Session discussion

Sunday, March 13th 1:00-3:00 PM

D138: Neuroengineering

Chairs:

Ted Berger
Professor of Biomedical Engineering, David Packard Chair of Engineering, Director, Center for Neural Engineering - USC Viterbi School of Engineering

Roger Werne
Senior Advisor for the Innovation and Partnerships Office and Partnership with Lawrence Livermore National Laboratory (LLNL)

Nasser Kashou
Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT

1:00-1:15 PM
Nasser Kashou
Affiliation: Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)

Brain Computer Interface with fNIRS

1:15 -1:30 PM
Ted Berger
Affiliation: Professor of Biomedical Engineering, David Packard Chair of Engineering, Director, Center for Neural Engineering - USC Viterbi School of Engineering

The development of brain implantable devices for assisting memory

1:30-1:45 PM
Dominique M. Durand
Affiliation: Distinguished EL Lindseth Professor of Biomedical Engineering. Departments of Biomedical Engineering, Physiology, Biophysics, Neurosciences, Electrical and Computer Engineering. Director, Neural Engineering Center, Case Western Reserve University, Cleveland, OH.

Self-Propagating neural wave by ephaptic coupling

1:45-2:00 PM
Imad Najm
Affiliation: Director, Charles Shor Epilepsy Center, The Joseph and Ellen Thomas Chair in Epilepsy
Vice Chair, Neurological Institute for Strategy and Development, Cleveland Clinic, Cleveland, OH

The role of multimodality co-registration and SEEG in epilepsy surgery

2:00-2:15 PM
Berj L. Bardakjian
Affiliation: Professor, Institute of Biomedical Engineering, University of Toronto.

Non-invasive biomarkers for sudden unexpected death in epilepsy (SUDEP)

2:15-2:30 PM
Session discussion

Sunday, March 13th 3:30-5:00 PM

D151: Neuromodulation and Ultrasound

Chair:
Seung-Schik Yoo
Department of Radiology, Harvard Medical School, Brigham and Women's Hospital

3:30-3:45 PM
Evgenii Kim
Affiliation: Korea Institute of Science and Technology, Harvard Medical School, Brigham and Women's Hospital

Wearable transcranial focused ultrasound system for the brain stimulation of freely-behaving rats

3:45-4:00 PM
Hyunchul Kim
Affiliation: Department of Artificial Intelligence, Kyungpook National University, Daegu, South Korea

Effects of focused ultrasound pulse duration on stimulating cortical and subcortical motor circuits in awake sheep

4:00-4:15 PM
Wonhye Lee
Affiliation: Department of Radiology, Harvard Medical School, Brigham and Women's Hospital
Email: wonhye@bwh.harvard.edu
Focused ultrasound mediated unbinding of phenytoin from plasma proteins for seizure suppression of rodent model of chronic temporal lobe epilepsy

4:15-4:30 PM
Seung-Schik Yoo
Affiliation: Department of Radiology, Harvard Medical School, Brigham and Women's Hospital

Changes in resting-state functional connectivity in humans induced by transcranial focused ultrasound brain stimulation of the somatosensory circuitry

4:30-5:00 PM
Spencer Brinker
Affiliation: Department of Radiology and Tech4Health, New York University Langone Health

Feasibility of upper cranial nerve sonication in human application via neuronavigated single-element pulsed focused ultrasound

5:00-5:15 PM
Session discussion

Society for Brain Mapping and Therapeutics (SBMT)
Psychiatry
Conference 2022: Room 409-A

Brian Norling
Chief Executive Officer at MEMS Precision Technology, Inc

Mohammad Nami
Head of the Department of Neuroscience, Cognitive Neuroscience, Sleep Expert. Head of the Department of Neuroscience, Shiraz University of Medical Sciences, Shiraz, Iran

Thursday, March 10th 10:00-11:30 AM

A2: Child & Adolescent Psychiatry: Lifetime Attention Disorders and Related Comorbidities and Autism Spectrum Disorder Highlights

Chair:
Nicole Jafari
Founder CEO
Cross Cultural Research & Educational Institute
CSULB & CSUF

10:00-10:15 AM
Nicole Jafari, Marjan Assefi and Sohaila Nankeli
Affiliation: California State University, Long Beach, USA
Email:

An Exploration of the Role of Adverse Epigenetic Determinants in the Early Brain Mapping and Architecture: From Conception to Early childhood

10:15-10:30 AM
Leighton Reynolds
Affiliation: Psychoanalyst, Treatment and Tools, Valencia, CA, USA

Clinical Trial Investigation of TBI and Correlation to Other Brain Illnesses and Diseases

10:30-10:45 AM
Jonathan Hall, Nicole Jafari
Affiliation: California State University, Long Beach, CA, USA

Sensory Learning Programs and Brain Re-mapping: An Alternative to Common neurological and processing delays in ASD, ADHD, and TBI

10:45-11:00 AM
Siamak Monjezi
Affiliation: Therapist, LMFTPHMC - Psychotherapy & Herbal Medicine Clinic

How Effective is Neurofeedback for AHDH Treatment? Is NFB A Comprehensive Model of Psychotherapy (Case of Neuroplasticity Vs. Networking Rewiring)

11:00-11:15 AM
James Neuenschwander
Affiliation: Founder, Bio-Energy Medical Center, Ann Arbor, MI, USA

Connections between gut dysfunction, inflammation, and/or environmental toxicity and the risk of early neurodevelopment issues

11:15-11:30 AM
Anju Usman Singh
Affiliation: Director and owner of True Health Medical Center and Pure Compounding Pharmacy in Naperville, Illinois.

Medical issues associated with Autism Spectrum Disorder

11:30-11:45 AM
Session discussion

Thursday, March 10th 1:00-3:00 PM

A15: Artificial Intelligence Based Mental Health

Chair:

Mojtaba Barzegar
Medical Physicist
CEO & co-founder of IQBMI

1:00-1:15 PM
Harry Kloor
Affiliation: Founder & CEO, Beyond Imagination.

Using Robotics and AI for Psychiatric Care

1:15-1:30 PM
Kai Vilanova
Affiliation: Director School of MRI.
European Society of Magnetic Resonance in Medicine and Biology (ESMRMB).

Role of artificial intelligence tools for spine and spinal cord imaging assessment

1:30-1:45 PM
Mojtaba Barzegar
Affiliation: Medical Physicist CEO & co-founder of IQBMI.

AI and the stocastic based analysis in diagnosis of psychiatric disorders

1:45-2:00 PM
Vasileios K. Katsaros
Affiliation: Neuroradiologist
Director, MRI Department, Agios Savvas Anti-Cancer and Oncology Hospital, Athens (Greece)

Advanced Imaging - Artificial Intelligence (AI) in Neurodegenerative Diseases

2:00-2:15 PM
Session discussion

Thursday, March 10th 3:00-5:00 PM

A28: Clinical diagnosis of Axis 2 personality disorders comorbid with Axis 1 disorders (SLU CME)

Co-Chairs:

Eric Braverman
Director of PATH medical

Mohammad Nami
Director, Brain, Cognition and Behavior Unit at Shiraz University of Medical Sciences, Shiraz, Iran

3:00-3:15 PM
Eric Braverman
Affiliation: Medical director of PATH Medical

Clinical diagnosis of Axis 2 personality disorders comorbid with Axis 1 disorders

3:15-3:30 PM
Jonathan Avery
Affiliation: Director of Addiction Psychiatry, Associate Professor of Clinical Psychiatry, Weill Cornell Medicine

Overdose Prevention Program: Comorbid Pychiatric diagnosis

3:30-3:45 PM
Mohamed Nami
Affiliation: Head of the Department of Neuroscience, Cognitive Neuroscience, Sleep Expert. Head of the Department of Neuroscience, Shiraz University of Medical Sciences, Shiraz, Iran

Sleep: A vital sign for neuropsychiatry, application of a questionaire on sleep disorders

3:45-4:00 PM
Jonathan Avery
Affiliation: Director of Addiction Psychiatry, Associate Professor of Clinical Psychiatry, Weill Cornell Medicine.

Overdose Prevention Program: Comorbid Pychiatric diagnosis

4:00-4:30 PM session discussion
Foojan Zeine
Affiliation: Psychotherapist, Founder of Awareness Integration Institute.

Eric Braverman
Affiliation: Medical director of PATH Medical.

Mohamed Nami
Affiliation: Head of the Department of Neuroscience, Cognitive Neuroscience, Sleep Expert. Head of the Department of Neuroscience, Shiraz University of Medical Sciences, Shiraz, Iran.

Panel Discussion: The interface between Axis 1 Axis 2 and medical disorders comorbid with sleep disorders

Friday, March 11th 10:00-11:30 AM

B41: Guidelines for Neuropsychiatric screening and brain mapping as a diagnostic tool for evidence based psychiatric treatment (SLU CME)

Co-Chairs:
Eric Braverman
Director of PATH medical

Chair:
Mohammad Nami
Director, Brain, Cognition and Behavior Unit at Shiraz University of Medical Sciences, Shiraz, Iran

10:00-10:15 AM
Eric Braverman
Affiliation: Medical director of PATH Medical

Brain health checkup

10:15-10:30 AM
Jonathan Avery
Affiliation: Director of Addiction Psychiatry, Associate Professor of Clinical Psychiatry, Weill Cornell Medicine

Comorbid psychiaric sceening for addiction

10:30-10:45 AM
Mohammad Nami
Affiliation: Director, Brain, Cognition and Behaviour Unit at Shiraz University of Medical Sciences, Shiraz, Iran

Robert Thatcher
Affiliation: CEO and director of Applied Neuroscience Research Institute

Nasher Kashou
Affiliation: Senior Research Scientist BMF & SBMT

A Proposed Brain-, Spine-, and Mental- Health Screening Methodology (NEUROSCREEN) for Healthcare Systems: the SBMT's Position

10:45-11:00 AM
Jean Lud Cadet
Affiliation: Chief, Molecular Neuropsychiatry Research Branch, Chief, Molecular Neuropsychiatry Section, Senior Investigator, National Institutes of Health, National Institute on Drug Abuse, Intramural Research Program.

Modeling methamphetamine addiction in animal models: epigenetic consequences

11:00-11:30 AM
Session discussion

Friday, March 11th 1:00 - 3:00 AM

B54: Sleep, wakefulness, and related neuro-psychological/brain mapping perspectives (SLU CME)

Chair:
Mohammad Nami
Director, Brain, Cognition and Behavior Unit at Shiraz University of Medical Sciences, Shiraz, Iran

1:00-1:15 PM
Mohammad Nami
Affiliation: Director, Brain, Cognition and Behavior Unit at Shiraz University of Medical Sciences, Shiraz, Iran

Behavioral Sleep Disorders and Epilepsy: a two-way avenue

1:15–1:30 PM
Javad S. Fadardi
Affiliation: Research Associate Professor, Department of Psychology, Ferdowsi University, Mashhad Iran, and Claremont Graduate University, Claremont, CA, USA

Goals, Fantasies, and Dreams: a sleep-wake continuum

1:30–1:45 PM
KS Jagannatha Rao
Affiliation: President, Neurobiology, Neuroscience President, Neuroscience Center, INDICASAT-AIP, Panama City, Panama

The Neurobiological basis of Behavioral Sleep Disorders

1:45-2:00 PM
Amir Sharafkhaneh
Affiliation: Professor, Department of Medicine Pulmonary, Critical Medicine, and Sleep Medicine, Baylor College of Medicine, Houston TX, USA

Sleep Breathing Disorders, Intermittent Hypoxia, and the Brain Oxymap

2:00–2:15 PM
Eric Braverman
Affiliation: Director of PATH medical

Sleep and Psychiatric Disorders

2:15-2:30 PM
Mohammad Nami
Affiliation: Director, Brain, Cognition and Behaviour Unit at Shiraz University of Medical Sciences, Shiraz, Iran

2:30-3:00 PM

Panel discussion: The role of sleep in psychiatry

Friday, March 11th 3:00-5:00 PM

C67: The Neuroscience of Human Consciousness

Chairs:

Brian Norling
Chief Executive Officer at MEMS Precision Technology, Inc

Deepak Chopra
Alternative Medicine Advocate

3:00-3:15 PM
Depak Chopra
Affiliation: Alternative medicine advocate, public speaker, writer

Consciousness and the Brain: Implications for the future of human evolution and reality

3:15-3:30 PM
Chetan Prakash
Affiliation: Professor California State University, San Bernardino

The Interface Theory of Perception

3:30-4:45 PM
Jack Tuszynski
Affiliation: Professor, Department of Physics, Allard Chair and Professor in Experimental Oncology in the Department of Oncology at the University of Alberta's Cross Cancer Institute

What Can Quantum Physics Offer to Psychiatry

3:45-4:00 PM
Brian Fertig
Affiliation: Endocrinology, Diabetes & Metabolism Specialist Hackensack Meridian Health JFK Medical Center and Robert Wood Johnson University Hospital.

The Endocrinology and Metabolism of the Stress Response

4:00-4:15 PM
Anirban Bandyopadhyay
Affiliation: Principal Research Scientist, National Institute for Materials Science, NIMS; Japan

Creating world's first complete brain rhythm database for invariant computing

4:15-4:30 PM
Menas C. Kafatos
Affilitaion: Fletcher Jones Endowed Professor of Computational Physics
Director, Center of Excellence in Earth Systems Modeling and Observations (CEESMO), Schmid College of Science and Technology, Chapman University
Foreign Member, Romanian Academy of Science, Foreign Member, Korean Academy of Science and Technology

Philosophy of Mind and Consciousness

4:30-4:45 PM
Session discussion

Saturday, March 12th 10:00-11:30 PM

C80: Genomic & Epigenetic Correlates of Reward Deficiency Syndrome : Predominance of Dopaminergic Dysregulation Across Psychopathology (SLU CME)

Chairs:

David Baron
Senior Vice President
Medical Director and Co-founder
Provost of Western
Professor and Executive Vice Chair, Department of Psychiatry, Keck Hospital of USC, USC Norris Comprehensive Cancer Center

Sharon Hausman-Cohen
Medical Director and Co-founder at IntellxxDNA

10:00-10:15 AM
Igor Elman
Affiliation: Associate Professor of Psychiatry at Harvard Medical School

Predominance of Dopaminergic Dysregulation Across Psychopathology: Etiology instead of Symptomology Guides Therapeutic intervention

10:15-10:30 AM
Subhash Pandey
Affiliation: Senior VA Career Research Scientist, Department of Psychiatry, College of Medicine, University of Illinois

Epigenetics of Alcohol Use Disorder [AUD]

10:30-10:45 AM
Panyotis K. Thanos
Affiliation: Senior Research Scientist, Clinical & Research Institute on Addiction – and Associate Professor, Department of Pharmacology & Toxicology, Buffalo University, Jacobs School of Medicine & Biomedical Sciences, Buffalo, NY

A Personalized Medicine Approach to Improve Bariatric Surgery Outcomes Utilizing Psychosocial and Genetic Risk Assessments

10:45-11:00 AM
Kennth Blum
Affiliation: Professor, Graduate College Western University Health Sciences, Pomona, CA and Chairman, The Kenneth Blum Behavioral & Neurogenetic Institute (Division of iVitalize, Inc.), Austin TX

Genetic Addiction Risk Severity(GARS) Coupled with Pro-Dopamine Regulator (KB220) as a Frontline Precision Intervention to Overcome Reward Deficiency (RDS): The Future is Now

11:00-11:15 AM
Ken Roy
Affiliation: Medical Director, Addiction Recovery Resources, Inc., Residential Treatment Program
Addiction and Recovery

Sharon Hausman-Cohen
Affiliation: Medical Director and Co-founder at IntellxxDNA

Is genomics is useful in psychiatric care today?

11:30-11:45 AM
Session discussion

Saturday, March 12th 1:00-3:00 pm

C93: Opioid Addiction: Risk Identification, Avoidance and Prevention

Chairs:

Nicole Jafari
Founder CEO
Cross Cultural Research & Educational Institute, Faculty@CSULB & CSUF

1:00-1:15 PM
Kenneth Blum
Affiliation: Professor, Graduate College Western University Health Sciences, Pomona, CA and Chairman, The Kenneth Blum Behavioral & Neurogenetic Institute (Division of iVitalize, Inc.), Austin TX

A Novel Precision Approach to Overcome the "Addiction Pandemic" by Incorporating Genetic Addiction Risk Severity (GARS) and Dopamine Homeostasis Restoration

1:15-1:30 PM
David Baron
Affiliation: Professor and Executive Vice Chair, Department of Psychiatry, Keck Hospital of USC, USC Norris Comprehensive Cancer Center

Interprofessional education model of the interface between primary care and addiction providers in addressing the opiod crisis.

1:30-1:45 PM
Onur Noyan
Affiliation: Associate Professor NP Brain Hospital, Istanbul, Turkey

Behind addiction brain: from neuroimaging to neuroscience

1:45-2:00 PM
Kamiar Alaei
Affiliation: Department Chair of Health Science, California State University Long Beach

Opioid overdose crisis: A global health challenge

2:00-2:15 PM
Keerthy Sunder
Affiliation: Medical Director, Clinical Assistant Professor, UC Riverside School of Medicine

Neuromodulation Interventions for Addiction Relapse Prevention

2:15-2:30 PM
Session discussion

Saturday, March 12th 3:00-5:00 PM

C106: Opioid Addiction - Treatment, Successes and Failures (SLU CME)

Chair:
Brian Norling
Chief Executive Officer at MEMS Precision Technology, Inc

3:00-3:15 PM
Brian Norling
Affiliation:Chief Executive Officer at MEMS Precision Technology, Inc

Status of the worldwide opiod epidemic

3:15-3:30 PM
Nicholas Dogris
Affiliation: CEO and Co-Founder, NeuroField, Inc

Assessment of brain function with QEEG and treatment with Transcranial Stimulation

3:30-3:45 PM
Foojan Zeine
Affiliation: Psychotherpist, Founder of Awareness Integration Institute

Latest treatment for opioid addiction

3:45-4:00 PM
Jonathan Avery
Affiliation: Director of Addiction Psychiatry, Associate Professor of Clinical Psychiatry, Weill Cornell Medicine

Assessment and treatment of Substance Use Disorders (SUD)

4:00-4:15 PM
Gerald Ronning
Affiliation: Psychiatrist Minnesota Psychoanalytic Society and Institute

Brain Mapping With Linguistic Probes

4:15-4:30 PM
Arwen Podesta
Affiliation: Psychiatrist, Director Podesta

Underlying mechanics of addiction and treatment for patients, families, and providers

Sunday, March 13th 10:00-11:30 PM

C132: *In-silico* Applications in Neuroscience

Chair:
Nevzat Tarhan
Psychiatrist Uskudar University

10:00-10:15 AM
Nevzat Tarhan
Affiliation: Psychiatrist Uskudar University

Neurophychiatry Istanbul Brain Hospital Model and The Applications

10:15 – 10:30 AM
Barış Metin
Affiliation: Psychiatrist Uskudar University

Distinct neural correlates of attention problems and delay discounting deficits in ADHD

10:30 – 10:45 AM
Türker Ergüzel
Affiliation: Software Engineer, Uskudar University

Deep Learning Application to Evaluate Sex Differences in Response to Neuromodulation in MDD

10:45 - 11:00 AM
Cihan Taştan
Affiliation: Molecular Biologist, Uskudar University

Gene editing in Autism Spectrum Disorder and its Promising Results in Near Future

11:00 – 11:30 AM
Session discussion

Sunday, March 13th 1:00-3:00 pm

D119: Anxiety, depression, and mood disorders

Chairs:

Foojan Zeine
Psychotherpist, Founder of Awareness Integration Institute

Nesrin Dilbaz
Üsküdar university Medical Faculty and NP Brain hospital and director of Addiction Clinic

1:00-1:15 PM
Foojan Zeine
Affiliation: Psychotherpist, Founder of Awareness Integration Institute

The importance of personal agency in treatment of depression and anxiety

1:15 – 1:30 PM
Nesrin Dilbaz
Affiliation: Üsküdar university Medical Faculty and NP Brain hospitalndirector of Addiction Clinic

TMS during pregnacy and post partem depression

1:30 – 1:45 PM
Isabel Hunsinger
Affiliation: Founder of Doctor On A Mission, University of Colorado Medical School, USA, Southern Colorado Family Practice Residency, USA

Does Anxiety and Depression Increase the Risk of Alzheimers in Women?

1:45 - 2:00 PM
Scott Shannon
Affiliation: Assistant Clinical Professor
Department of Psychiatry University of Colorado

Psychedelics in the Treatment of Depression and PTSD

2:00 – 2:15 PM
Masoud Aref Nazari
Affiliation: California Institute of Integral Studies (CIIS)

We stand in our roots: A Psychedelic journey beyond anxiety and depression

2:15 - 2:30 PM
Session discussion

Sunday, March 13th 3:30-5:00 PM

D145: Suicide Risk Factors and Prevention (SLU CME)

Chair:

Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

Chevaunne Sinclair
Medical Student Biological Scientist Intern at The Society for Brain Mapping and Therapeutics (SBMT)

1:30-1:45 PM
Kathleen Carter-Martinez
Affiliation: Diplomate American Academy of Experts in Traumatic Stress at CheyWind Center for Trauma and Healing, Nova Southeastern University.

Fractured Spirit: The Soft Side of Suicide

1:45-2:00 PM
Keita Franklin
Affiliation: Chief Clinical Officer at Loyal Sourse Government Services, Virginia Commonwealth

Public Health Approaches for Military and Veteran Suicide Prevention

2:00-2:15 PM
Chevaunne A. S. Sinclair
Affiliation: Medical Student Biological Scientist Intern at The Society for Brain Mapping and Therapeutics (SBMT)

Physician Assisted Suicide: An Ethical Dilemma

2:15-2:30 PM
Kelly Posner Gerstenhaber
Affiliation: Clinical Professor of Medical Psychology, Department of Child and Adolescent Psychology, Columbia University College of Physicians and Surgeons

Suicide Risk Screening: Saving Lives

2:30-2:45 PM
Kenneth P. Green
Affiliation: Commander, US Navy (Retired)
VIce President of Strategic Initiatives for Governmental and Non-Profit Partnerships
Board Member, Board of Directors for Society for Brain Mapping and Therapeutics (SBMT)

Suicide – Media and Cultural Influencers

2:45-3:00 PM
Session discussion

Society for Brain Mapping and Therapeutics (SBMT)
Alzheimer Disease
Conference 2022: Room

Organized by:
Christopher J. Wheeler, J. Wesson Ashford, Sharon Hausman-Cohen, Margaret Fahnestock, Delia Cabrera DeBuc, Carr Smith, James Clifford, George Perry, Bruce Teter, Babak Kateb

Thursday, March 10th 10:00 AM-12:00 PM

A3: GENOMICS AND ALZHEIMER (SLU CME)

Chair:

Sharon Hauseman-Cohen
Medical Director Resilient Health Austin
Chief Medical Officer IntellxxDNA

10:30-10:45 AM
Dale Bredesen
Affiliations: Chief Science Officer Apollo Health

Understanding the downstream genetic effects of ApoE-ε4 and how this relates to AD treatment strategies

10:45-11:00 AM
Sharon Hausman-Cohen
Affiliations: Chief Medical Officer of IntellxxDNA

The role of non-pathogenic genomic variants in the etiology of cognitive decline and how potential modification strategies to target these variants can be used to improve outcomes

11:00-11:15 AM
David Socol
Affiliations: Physician, Advanced Humeomics LLC

Utilization of Genomics to Optimize the Management of Traumatic Brain Injury

11:15-11:30 AM
Sandeep Kapoor
Affiliations: Kapoor Medical.

Case studies where genomics was used to target factors contributing to cognitive decline and improve outcomes

11:30-11:45 AM
Ann Hathaway
Affiliation: Ann Hathaway MD.

Potentially modifiable non-ApoE-ε4 related genomic factors that contribute to cognitive decline

11:45 AM-12:00 PM
Session discussion

Thursday, March 10th 1:00-3:30 PM

A16: COGNITIVE SCREENING IN NEUROLOGICAL DISEASES (SLU CME)

Chair:

John Wesson Ashford
Director, War Related Illness & Injury Study Center, VA Palo Alto Health Care System; Clinical Professor (Affiliated), Psychiatry and Behavioral Science, Stanford University

Co-chair:

James Clifford
Professor, Department of Psychology & Behavioral Sciences, College of San Mateo

1:00-1:15 PM
J. Wesson Ashford
Affiliation: War Related Illness & Injury Study Center (WRIISC), VA Palo Alto Health Care System and Stanford University.

Issues in cognitive screening - face-to-face versus computerized on-line

1:15-1:30 PM
James Clifford
Affiliation: Professor San Mateo Community College.

Behavioral measures during continuous recognition tasks during progressive aging

1:30-1:45 PM
Qun Xu
Affiliation: Renji Hospital, School of Medicine, Jiaotong University, Shanghai, China

The Reference Percentiles of MemTrax Metrics in a large health check-up population in China; a Generalized Additive Models for Location, Shape and Scale (GAMLSS) Approach.

1:45-2:00 PM
Peter Schmidt
Affiliation: Professor New York University

Prior infection with SARS-CoV-2 enhances susceptibility to oxidative-stress induced parkinsonism

2:00-2:15 PM
Robert Thatcher
Affiliation: CEO and DirectorApplied Neuroscience Research Institute.

Real-Time Electrical Neuroimaging of the Cerebellum, Red Nucleus and Sub-Thalamus: Applications in Parkinsonism and Cognition

2:15-2:30 PM
Lee Hyer
Affiliation: Professor, Department of Psychiatry, Mercer School of Medicine, Macon, GA

The value of MBI and memtrax

2:30-2:45 PM
Session discussion

Thursday, March 10th 3:30-5:30 PM

A29: Ai Machine Learning in Neurodegenerative Disorders

Chair: Hojjat Azadbakht

3:00-3:15 PM
Alexander Leemans
Associate Professor. Head of the PROVIDI Lab, University Medical Center Utrecht,
Mapping the brain's circuitry with diffusion MRI: Principles and pitfalls

3:15-3:30 PM
Bennett Landman
Affiliation: Chair, Department of Electrical and Computer Engineering, Vanderbilt University
Deep learning harmonization of diffusion weighted MRI.

3:30-3:45 PM
Kurt Schilling
Research Assistant Professor, Vanderbilt University
Preprocessing Pipelines for Diffusion MRI

3:45-4:00 PM
Marco Palombo
Senior Lecturer, Cardiff University
Perspectives on AI-powered brain microstructure imaging

4:00-4:15 PM
Sheena Waters
Research Associate, Queen Mary University of London
Neuroanatomical signatures of risk for Alzheimer's disease

4:15-4:30

Jorge Cardoso
Senior Lecturer at KCL and CTO of the London Medical Imaging and AI Centre for Value-based Healthcare, King's College London; London Medical Imaging and AI Centre for Value-based Healthcare
Learning from 16 million patients: scaling healthcare AI

4:30-4:45

Chaoyue Wang
Nuffield Department of Clinical Neurosciences, Wellcome Centre for Integrative Neuroimaging, FMRIB, University of Oxford, United Kingdom

Quantitative Susceptibility Mapping

4:45-5:00
Session Discussion

Friday, March 11th 10:00 AM-11:30 PM

B42: ALZHEIMER DISEASE MECHANISMS I: BEYOND Aβ and Tau (SLU CME)

Chair:

Margaret Fahnestock
Professor, Department of Psychiatry & Behavioral Neurosciences, McMaster University

10:00-10:15 AM
Margaret Fahnestock
Affiliation: McMaster University

Oxidative stress triggers basal forebrain neurodegeneration by impairing proNGF axonal transport

10:15-10:30 AM
Scott Counts
Affiliation: Michigan State University

Pontine Arteriolosclerosis and Locus Coeruleus Oxidative Stress Differentiate Resilience from Mild Cognitive Impairment

10:30-10:45 AM
Iva Zovkic
Affiliation: University of Toronto

Histone H2A variants in Alzheimer's disease

10:45-11:00 AM
Donna Korol
Affiliation: Syracuse University

Estrogens, memory, and neurometabolism

11:00-11:15 AM
Lisa Münter
Affiliation: McGill University

Preclinical assessment of CETP inhibitors in Alzheimer's disease

11:15-11:30 AM
Session discussion

Friday, March 11th 1:00 PM-3:00 PM

B55: ALZHEIMER'S DISEASE MECHANISMS II: GENETICS, INFLAMMATION & IMMUNE INTERACTIONS

Chair:

Carr Smith
Toxicology Advisor, Albemarle Corporation

1:00-1:15 PM
Bilal Kerman
Affiliation: Keck School of Medicine, USC

Monitoring ApoE and ABCA1 Interactions in Alzheimer's Disease

1:15-1:30 PM
J. Wesson Ashford
Affiliation: War Related Illness & Injury Study Center (WRIISC), VA Palo Alto Health Care System and Stanford University.

Pathways to AD and Prevention: Focus on Neuroplasticity, Genetics, Diet, and Social Factors

1:30-1:45 PM
Carr J. Smith
Affiliation: Toxicology Advisor Albemarle Corporation

Populations With a High Incidence of Apolipoprotein E4

1:45-2:00 PM
Christopher J. Wheeler
Affiliation: Chief Science Officer, Senior Research Scientist T-Neuro Pharma Inc., and International Brain Mapping Foundation, SBMT.

Age-related CD8 T cell dysfunction disrupts neurogenesis, induces AD-like pathology, and corresponds with human AD biomarkers

2:00-2:15 PM
Caleb Finch
Affiliation: University Professor, ARCO/William F. Kieschnick Chair in the Neurobiology of Aging, USC Leonard Davis School of Gerontology, CA

Air pollution and Alzheimer's risk

2:15-2:30 PM
Session discussion

Friday March 11th 3:00-5:00 PM
B 68: COVID19 Brain (SLU CME)


Co-Chair: Ashraf Elsayegh and Dawn Eliashiv

3:00-3:15 PM
Ashraf Elsayegh, Division of Pulmonary/Critical Care, Cedars Sinai Medical Center, Associate Clinical Professor of Medicine, UCLA, School of Medicine

Neurocognitive Effects of Ketosis

3:15-3:30 PM
Dawn Eliashiv, Professor of Neurology, UCLA David Geffen School of Medicine

COVID19 Brain

3:30-3:45 PM
Vicky Yamamoto,
20th President of SBMT, Executive Board member of SBMT and IBMF, Cancer Scientist, Norris Comprehensive Cancer Center, USC Keck School of Medicine

Mechanism of Post COVID19 infection

3:45-4:00 PM
Peter Schmidt
Professor of Neurology, NYU

Prior infection with SARS-CoV-2 enhances susceptibility to oxidative-stress induced parkinsonism

4:00- 4:15 PM
Michael Wool
Professor of Internal Medicine, Cedars-Sinai Medical Center

Effects of COVID infection on the Brain

4:15-4:30
Discussion

Saturday, March 12th 10:00-12:00 PM

C81: ALZHEIMER DISEASE DIAGNOSIS I: COGNITIVE, IMMUNOCELLULAR & MOLECULAR BIOMARKERS

Chair:
Christopher J. Wheeler
Senior Research Scientist, International Brain Mapping Foundation
Chief Science Officer, T-Neuro Pharma
President, StemVax Therapeutics

10:00-10:15 AM
Auriel Willette
Affiliations: Iowa State University of Iowa

Optimal Cognitive Aging: Underlying Molecular, Nutrition, and Neuroimaging Biomarkers for Potential Super-Agers

10:15-10:30 AM
Jorge I. Alvarez
Affiliation: Assistant Professor, University of Pennsylvania, School of Veterinary Medicine, Department of Pathobiology

Role of the CNS barriers in neuroimmune mechanisms of disease

10:30-10:45 AM
Hussein Yassine
Affiliation: Associate Professor or Medicine Keck School of Medicine, Univ. of Southern California

Brain ApoE glycosylation as an AD biomarker

10:45-11:00 AM
Jevgenij Raskatov
Affiliation: Associate Professor University of California, Santa Cruz

The Case for Amyloid Alpha

11:00-11:15 AM
Swati More
Affiliation: Associate Professor Center for Drug Design (CDD), University of Minnesta

Restoration of Glyoxalase Activity Precludes Cognitive Dysfunction in Alzheimer's Disease Models

11:15 AM -11:30 AM
Session discussion

Saturday, March 12th 1:00-3:00 PM

C94: ALZHEIMER'S DISEASE DIAGNOSIS II: RETINAL IMAGING (SLU CME)

Chair:
Delia Cabrera Debuc
Research Associate Professor of Ophthalmology University of Miami

1:00-1:15 PM
Haoshen Shi
Affiliation: Cedars-Sinai Medical Center

Conditional knock-out of miR-155 decreases neurodegenerative-associated microglia phenotype and protects vascular tight-junctions in Alzheimer's retina

1:15-1:30 PM
James E. Galvin
Affiliation: University of Miami Miller School of Medicine

Optical Coherence Tomography and Screening for Alzheimer's Disease. Comprehensive Center for Brain Health

1:30-1:45 PM
Cecilia Lee
Affiliation: University of Washington, School of Public Health, Seattle, WA

Connecting Dots between Aging Eyes and Aging Brain

1:45-2:00 PM
Dilraj Grewal
Affiliation: Duke University School of Medicine

Multimodal retinal imaging in AD

2:00-2:15 PM
Adam Wax
Affiliation: Duke University School of Medicine

Coherent Imaging of Retinal Biomarkers of Alzheimer's Disease

2:15-2:30 PM
Session discussion

Saturday, March 12th 3:30-5:00 PM

C107: ALZHEIMER'S DISEASE DIAGNOSIS III: BRAIN, IMAGING, BRAIN STIMULATION

Chair:
Mojtaba Bargezar
Medical Physicist, Neuroimaging
Society for Brain Mapping Foundation (SBMT)

3:00-3:15 PM
Mohammad Abouelsoud
Affiliation: CEO The Mind Company, Cleveland, OH

Transcranial stimulation in Alzheimer's disease

3:15-3:30 PM
Ameneh Rezayof
Affiliation: Professor Department of Animal Biology, School of Biology, School of Science, University of Tehran Iran

A comparison between the improving effects of microRNAs treatment with the cannabinoid CB1 receptor agonist on memory impairment in ICV-STZ animal model of Alzheimer's disease

3:30-3:45 PM
Mohammad Nami
Affiliations: Director Brain, Cognition and Behavior Unit, Department of Neuroscience, Shiraz University of Medical Sciences, Shiraz, Iran

Spatial distribution of K-complezes in sleep-quantitative EEG among subjects with cogniform disorder

3:45-4:00 PM
Peyman Hassani-Abharian
Affiliation: Faculty Member Institute for Cognitive Science Studies, Department of Cognitive Rehabilitation, Brain and Cognition Clinic, Tehran, Iran.

Binaural Beat Brain Stimulation in Alzheimer's Disease

4:00-4:15 PM
Mojtaba Barzegar
Affiliation: Medical Physicist, Neuroimaging
Society for Brain Mapping Foundation (SBMT)

Using AI in brain volumetry in AD patients

4:15-4:30 PM
Session discussion

Sunday, March 13th 10:30-12:00 PM

D120 LIFESTYLE INTERVENTION IN ALZHEIMER'S DISEASE PREVENTION AND TREATMENT (SLU CME)

Chair:

Christopher J. Wheeler
Senior Research Scientist, International Brain Mapping Foundation
Chief Science Officer, T-Neuro Pharma
President, StemVax Therapeutics

10:00-10:15 AM
Dale Bredesen
Affiliations: Chief Science Officer Apollo Health.

The biochemistry of lifestyle interventions

10:15-10:30 AM
Greg Cole
Affiliations: Professor & Associate Director Researc Dept of Neurology and Medicine, UCLA, Greater Los Angeles VAMC, Geriatric Research Education and Clinical Center

Getting Demented: Do Any Nutraceuticals Do Any Good?

10:30-10:45 AM
Sharon Hausman-Cohen
Affiliation: Chief Medical Officer of IntellxxDNA

The role of inflammation and environmental medicine in Alzheimer's

10:45-11:00 AM
Isaac Comfortes
Affiliation: https://www.isaaccomfortesdds.com/

Dentistry's role in Alzheimer's disease

11:00-11:15 AM
Ashley Keiser
Affiliation: University of California, Irvine

Exercise opens a 'molecular memory window' to facilitate changes in gene expression, synaptic plasticity and memory

11:15-11:30 AM
Session discussion

Sunday, March 13th 1:00-3:00 PM

D133: ALZHEIMER'S DISEASE TREATMENT: MECHANISTIC & ALTERNATIVE TARGETS (SLU CME)

Chair:
Greg Cole
Professor of Medicine and Neurology and Associate Director of the UCLA Alzheimer's Center, University of California Los Angeles

Co-chair:
Bruce Teter
Member, Brain Research Institute
Associate Adjunct Professor, Neurology, University of California Los Angeles

1:00-1:15 PM
Greg Cole
Affiliation: Professor & Associate Director Research Dept of Neurology and Medicine, UCLA and Geriatric Research Education and Clinical Center, Greater Los Angeles VAMC

Metabolic deficits in Alzheimer disease: Causes, Consequences and Therapeutic Options

1:15-1:30 PM
Sally Frautschy
Affiliation: Professor Department of Neurology and Medicine, UCLA and Geriatric Research Education and Clinical Center, Greater Los Angeles VAMC

Mixed Vascular and Alzheimer Dementia: Diagnosis, Prevalence and The Search for New Treatments

1:30-1:45 PM
Hedieh Shahpasand-Kroner
Affiliation: Project Scientist Dept of Neurology, UCLA and Geriatric Research Education and Clinical Center, Greater Los Angeles VAMC

Rapid Effects of Blocking Tau Pathology and its Consequences in an Alzheimer Model

1:45-2:00 PM
Isaac Asante
Affiliation: Assistant Professor of Research Ophthalmology Roski Eye Institute, University of Southern California

Drugs for Neuro-inflammation in AD

2:00-2:15 PM
Maj-Linda Selenica
Affiliation: Assistant Professor, Sanders Brown Center on Aging, College of Medicine, University of Kentucky

The effects of hypusinated eIF5A in TDP-43 proteinopathy

2:15-2:30 PM
Session discussion

Sunday March 13th 3:30-5:00 PM
D146: AD subcommittee meeting:

Chair:
Christopher J. Wheeler
Senior Research Scientist, International Brain Mapping Foundation
Chief Science Officer, T-Neuro Pharma
President, StemVax Therapeutics

George Perry, Professor, Semmes Distinguished University Chair in Neurobiology, University of Texas at San Antonio

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Society for Brain Mapping and Therapeutics (SBMT)
Military Medicine
Conference 2022: Room 406B

Thursday March 10th 3:00-5:00 PM
Military Medicine Subcommittee meeting

Chairs:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

Friday, March 11th 10:00-11::30 PM

B43: TBI and PTSD in Combat Veterans (SLU CME)

Chairs:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

10:00-10:15 AM
Pashtun Shahim
Affiliation: Staff Scientist, RMD at Clinical Center, National Institutes of Health Research Scientist Center for Neuroscience and Regenerative Medicine, Bethesda, MD.

Brain Imaging in the Aftermath of Traumatic Brain Injury

10:15-10:30 AM
Kerri Dunbar
Affiliation: Research Coordinator and Therapist, Center for Neuroscience and Regenerative Medicine, Uniformed Services University, Bethesda, MD.

Preliminary Findings from the RECONsolidation of Traumatic Memories to ResOLve Posttraumatic Stress Disorder (RECONTROL) Study

10:30-10:45 AM
Maheen Adamson
Affiliation: Associate Clinical Prof. Neurosurgery, Stanford University Palo Alto VAMC.

Neurotrauma

10:45-11:00 AM
Charles Tegeler
Affiliation: Professor of Neurology, Wake Forest University School of Medicine.

Symptoms, Imaging, and Autonomic Outcomes after HIRREM for Symptoms of Military-related Traumatic Stress

11:00-11:15 AM
Sajad Sahab Negah
Affiliation: Assistant Professor of Neuroscience Department, Mashhad University of Medical Sciences (MUMS), Mashhad, Iran

The development and evaluation of Nano-SDF1 as a neuroprotective nano-scaffold for traumatic brain injury

11:15-11:30 AM
Session discussion

Friday, March 11th 1:00-3:00 PM

B56: Virtual and Augmented Reality to Enhance the Treatment of PTSD and Related Conditions (SLU CME)

Chairs:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

1:00-1:15 PM
Skip Rizzo
Affiliation: Director, Institute for Creative Technologies, University of Southern California.

A Bravemind New World: Future Directions for Virtual Reality in the Treatment of Combat PTSD

1:15-1:30 PM
Jeffrey Gold
Affiliation: Professor of Anesthesiology, Pediatrics and Psychiatry, Keck School of Medicine, University of Southern California

Virtual and Augmented Reality via Head-Mounted Display to Decrease Procedure-Related Pain and Anxiety

1:30-1:45 PM
Sarah Kruger
Affiliation: Biomedical Engineer and CAREN Operator, National Intrepid Center of Excellence, Walter Reed National Military Medical Center, Bethesda, MD.

The 3MDR Clinical Trial to Treat PTSD after Mild TBI with and without Eye Movement

1:45-2:00 PM
Suzette Bremault-Phillips
Affiliation: Associate Professor and Director, Heroes in Mind, Advocacy and Research Consortium, University of Alberta, Edmonton, AB

Adaptation of 3MDR Therapy for PTSD to More Practical and Readily Available Delivery Mechanisms

2:00-2:15 PM
Pinata Sessoms
Affiliation: Director, CAREN Naval Health Research Center, San Diego, CA

Rehabilitation and Neuromarker Identification for mTBI and PTSD Patients using Immersive Virtual Reality Environments

2:15:-2:30 PM
Session discussion

Friday, March 11th 3:00-5:00 PM

B69: Innovative Diagnostic and Treatment Approaches in Brain Health.

Chairs:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

3:00-3:15 PM
Michael Roy
Affiliation: Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Allostatic Neurotechnology, a Novel Approach for Re-setting the Brain to Relieve Post-concussive Symptoms

3:15-3:30 PM
Leslie Prichep
Affiliation: Chief Scientific Officer, BrainScope Inc.

BrainScope, a Field-Deployable Device to Identify the Impact of Traumatic Brain Injury

3:30-3:45 PM
Paul Pasquina
Affiliation: Chair, Department of Physical Medicine and Rehabilitation, Uniformed Services University, Bethesda, MD.

The NCAA Study: An Update on the Longitudinal Study of Military Service Academy Graduates

3:45-4:00 PM
Tom DeGraba
Affiliation: Senior Research Scientist National Intrepid Center of Excellence, Bethesda, MD.

Breaking Down the NICOE Experience—What is the Value of Art Therapy and other Alternative Therapies in treating complex TBI?

4:00-4:15 PM
Dallas Hack
Affiliation: Colonel, US Army (Retired), Cohen Veterans Bioscience.

Innovative Approaches in Brain Health

4:15-4:30 PM
Session discussion

Saturday, March 12th 10:00-11:30 AM

C82: (CME) Subconcussive Blast Exposure

Chairs:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

David Keyser
Uniformed Services University, Bethesda, MD.

10:00-10:15 AM
Suthee Wiri
Affiliation: Applied Research Associates.
Email: swiri@ara.com
Blast Gauge Assessment of Subconcussive Blast Exposure in Military Units

10:15-10:30 AM
David Keyser
Affiliation: Uniformed Services University, Bethesda, MD.
Email: david.keyser@usuhs.edu
Investigating Training-Associated Blast Pathology: The INVICTA Study

10:30-10:45 AM
Walter Carr
Affiliation: Walter Reed Army Institute of Research, Silver Spring, MD.

Blast Exposure in Military Breachers

10:45-11:00 AM
Ryan Brewster
Affiliation: Washington DC VA Medical Center.

Clinical and Research Telehealth Program for High Occupational Exposure Cohort: initial observations from Explosive Ordnance Disposal (EOD) Veteran

11:00-11:15 AM
Leann Young
Affiliation: Applied Research Associates.

Leveraging Neuroplasticity to Improve Brain Health

11:15-11:30 AM
Session discussion

Saturday, March 12th 1:00-2:30 PM

C95: Audiologic and Vestibular Assessments in Military Service Members and Veterans (SLU CME)

Chairs:

Christopher Rhea
Affiliation: Associate Professor, UNC Greensboro

Doug Brungart
Affiliation: Walter Reed National Military Medical Center, Bethesda, MD.

1:00-1:15 PM
Doug Brungart
Affiliation: Walter Reed National Military Medical Center, Bethesda, MD.

Use of the WHATS system, a Soundbooth in a Headset, to Assess the Audiologic Impact of Subconcussive Blast Exposure

1:15-1:30 PM
Christopher Rhea
Affiliation: Associate Professor, UNC Greensboro.

Objectively Monitoring Neuromotor Performance with a Smart Phone after Blast Exposure

1:30-1:45 PM

Faith Akin, Quillen VA Medical Center, Mountain Home, TN, and Professor, East Tennessee State University

Factors Associated With Outcomes in Patients with Vestibular Symptoms Related to Traumatic Brain Injury

1:45-2:00 PM

Melissa Kokx-Ryan, , National Intrepid Center of Excellence, Walter Reed National Military Medical Center, Bethesda, MD,

Use of low-gain hearing aids for Service Members with history of mTBI

2:00-2:15 PM

Dewleen Baker, Professor In Residence, Psychiatry School, Vc-health Sciences-schools, UCSD School of Medicine

Psychoneuroendocrinology and TBI

2:15-2:30 PM Session Discussion

Saturday, March 12th 3:00-5:00 PM

C108: Suicide (SLU CME)

Chairs:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

3:00-3:15 PM
Daniel Perl
Affiliation: Director of Brain Bank and Neuropathology, TBI Research Center, Uniformed Services University, Bethesda, MD.

Neuropathologic Findings that Distinguish Suicide from other Causes of Death

3:15-3:30 PM
Sharon Birman
Affiliation: Uniformed Services University, Bethesda, MD.

Disseminating Evidence Based Practice in Suicide. Prevention and Treatment for Military Communities

3:30-3:45 PM
Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

Understanding and Preventing Suicide. What we Know, What We Think We Know, and What We Will Never Know

3:45-4:00 PM
David Luxton
Affiliation: Associate Professor of Psychiatry University of Washington School of Medicine, Seattle, WA and Rona Margaret Relova, MD VA Palo Alto Healthcare System.

Can AI Save Lives? Big Data and Machine Learning in Suicide Prevention

4:00-4:15 PM
Colonel Caesar Junker
Affiliation: Director, Warfighter Health-Human Performance,
Joint Artificial Intelligence Center, Department of Defense; Assistant Professor Rehabilitation Medicine, Uniformed Services University of the Health Sciences.

Addressing Suicide in the US Air Force

4:15-4:30 PM
Session discussion

Saturday, March 10th 3:00-5:00 PM

D121: Digital Therapeutics for use by Military Service Members

Chairs:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Ken Green
Vice President of Strategic Initiatives for Government and Nonprofit Partnerships, SBMT.

3:00-3:15 PM
Janet Bronte Emery
Affiliation: Center for Neuroscience and Regenerative Medicine, Uniformed Services University, Bethesda, MD.

ACDC: Apps to Combat Depression in Service Members and Veterans with Concussion

3:15-3:30 PM
Molly Malarkey
Affiliation: Center for Neuroscience and Regenerative Medicine, Uniformed Services University, Bethesda, MD.

SHUTi: Preliminary Results of Internet-Guided Cognitive Behavioral Therapy for Insomnia in Service Members with TBI

3:30-3:45 PM
Joshua Gray
Affiliation: Center for Neuroscience and Regenerative Medicine, Uniformed Services University, Bethesda, MD.

Acceptability and feasibility of digital phenotyping in U.S. service members and veterans

3:45-4:00 PM
Brenda Wiederhold
Affiliation: Virtual Reality medical Center San Diego CA

Virtual Reality in the Treatment of PTSD and Pain

4:00-4:15 PM
Mark Wiederhold
Affiliation: Virtual Reality medical Center San Diego CA

Stress Inoculation Trainning in Military Service

4:15-4:30 PM
Session discussion

Sunday, March 13th 1:00-2:30 PM

D134: Assessment of the Impact of Sleep Impairment on Performance in Military Service Members (SLU CME)

Chairs:

Miranda Lim
OHSU Assistant Professor of Neurology School of Medicine Behavioral Neuroscience Graduate Program School of Medicine.

Jessica Gill
Bloomberg Distinguished Professor of Trauma Recovery Biomarkers, the Johns Hopkins School of Nursing and the School of Medicine, Department of Neurology. University.

1:00-1:15 PM
Miranda Lim
Affiliation: OHSU Assistant Professor of Neurology School of Medicine Behavioral Neuroscience Graduate Program School of Medicine.

Sleep Disturbances in TBI: From Bench to Bedside, and Beyond

1:15-1:30 PM
Jessica Gill
Affiliation: Johns Hopkins University.

Biomarkers that Relate to Sleep Disruption Following Brain Injuries

1:30-1:45 PM
Rachel Markwald
Affiliation: Naval Health Research Center, San Diego, CA.

Sleep Tracking Technology: Performance, Validation, and Operational Use

1:45-2:00 PM
Elizabeth Twamley, Professor in Residency, USCD Health Sciences.

Session Title: **Compensatory Cognitive Training Interventions to Improve Cognition and Functioning in Neuropsychiatric Disorders**

2:15-2:15 PM
Amy Jak, Associate Director, Clinical Research Unit University of California, San Diego (UCSD) and a Staff Neuropsychologist and Director of the TBI Cognitive Rehabilitation Clinic at the Veterans Affairs San Diego Healthcare System**.**

Treatment of Persistent Cognitive Symptoms Following Concussion

2:15-2:30 PM

Session discussion

Sunday, March 13th 3:30-4:30 PM

D147: Funding resources and Innovative technologies for wounded Soldiers and Veterans

Chair:

Michael Roy
Deputy Director, Center for Neuroscience and Regenerative Medicine and TBI Research Center, Director, Division of Military Internal Medicine and Professor of Medicine, Uniformed Services University, Bethesda, MD.

Stuart Hoffman
Veterans Administration

3:30-3:45 PM
Stuart Hoffman
Affiliation: Veterans Administration

Funding Sources in the VA

3:45-4:00 PM
Sarah Fontaine
Affiliation: Program Manager, Congressionally Directed Medical Research Programs, Medical Research and Development Command, Fort Detrick, MD.

Funding Opportunities with the Congressionally Directed Medical Research Programs

4: 4:00-4:15 PM
Jay Alberts
Affiliation: Vice Chair of Innovation, Neurological Inst. The Edward F. and Barbara A. Bell Family Endowed Chair Cleveland Clinic Foundation

Novel Augmented Reality Applications in the Assessment of Readiness, and Recovery from mTBI

15-4:30 PM
Aaron Filler
Affiliation: Medical Director, Institute for Nerve Medicine, CA

DTI Tractography for Targeted TMS Treatment of TBI Symptoms

4:30-4:45 PM
Panel Discussion Q&A

Society for Brain Mapping and Therapeutics (SBMT)
Neuro-Oncology
Conference 2022: Room 407

Organized by





Reinhard Schulte, Vicky Yamamoto, Babak Kateb, Jethro Hu, Chirag Patel

Thursday, March 10th 10:00-12:00 PM

A 5: Neuro-Oncology Sub-Committee Meeting

Reinhard W. Schulte

Professor in the Division of Biomedical Engineering Sciences, at **Loma Linda** University Health, Associate Professor of Radiation Oncology at LLU School of Medicine

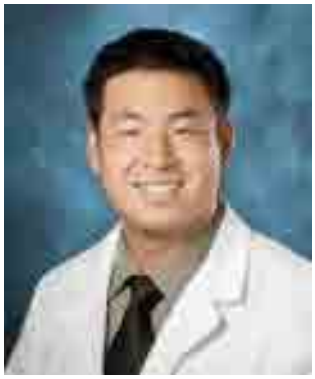
Vicky Yamamoto

Scientist, Keck School of Medicine of USC, USC-Norris Comprehensive Cancer Center, Executive Director and the 20th President of Society of Brain Mapping Foundation (SBMT)

Thursday, March 10th 1:00-3:00 PM

A18: Neuro-Oncology: Metabolic Therapy (SLU CME)

Chairs:



Jethro L. Hu
Faculty, Neuro-oncologist.
Department of Neurology and Department of Neurosurgery, Cedars-Sinai Medical Center

Leigh Greathouse
Associate Professor, Baylor University

1:00-1:15 AM
Adrienne Scheck
Affiliation: Senior Research Scientist, University of Arizona College of Medicine-Phoenix

Metabolic ketosis for the adjuvant treatment of malignant brain tumors

1:15-1:30 PM
Angela Poff
Affiliation: Research Associate, University of South Florida

Exploiting cancer metabolism with hyperbaric oxygen - synergy with ketosis and other therapies

1:30-1:45 PM
Nelofer Syed
Affiliation: Department of Brain Sciences, Imperial College London, UK

Ketogenic diet treatment of GBM and tumor metabolism

1:45-2:00 PM
Yoshua Esquenazi-Levy
Affiliation: Assistant Professor, Vivian L. Smith Department Of Neurosurgery, Director Of Surgical Neuro-Oncology, Mischer Neuroscience Institute, McGovern Medical School, University of Texas

Glioma and the gut microbiome

2:00-2:15 PM
Tyler McClure
Affiliation: Research Associate, Human Health, Resilience and Performance, FL Institute for Human & Machine Cognition

Nutritional Ketosis-Implications for Oncology

2:15-2:30 PM
Session discussion

Thursday, March 10th 3:00-5:00 PM

A31: Neuro-Oncology: Circulating Biomarkers and Liquid Biopsies (SLU CME)

Chairs:

Chamindie Punyadeera
Associate Professor Queensland University of Technology

Juliana Müller Bark
Queensland University of Technology

3:00-3:15 PM
Bob Carter
Affiliation: Neurosurgeon, Neurosurgical Oncologist, Chief, Neurosurgery Service, Massachusetts General Hospital

Liquid biopsies for detection and monitoring of brain tumors – the neurosurgery perspective

3:15-3:30 PM
Stephen Bagley
Affiliation: Assistant Professor of Neurosurgery at the Hospital of the University of Pennsylvania

Clinical value of plasma cell free DNA in patients with GBM – the medical oncology perspective

3:30-3:45 PM
Majid E Warkiani
Affiliation: Associate Professor, School of Biomedical Engineering at University of Technology, Sydney, Australia

Micro Nano-engineered Systems for Liquid Biopsy – the bio-engineering perspective

3:45-4:00 PM
Therese Becker
Affiliation: Circulating Tumour Cell Program Leader, Ingham Institute for Applied Medical Research, Australia

Circulating tumors cells and cell-free DNA – the established researcher's perspective

4:00-4:15 PM
Juliana Müller Bark
Affiliation: Queensland University of Technology

Analysis of extracellular vesicles in plasma and saliva samples from GBM patients – the young researcher's perspective

4:15-4:30 PM
Session discussion

Friday, March 11th 10:00-11:30 am

B44: Neuro-Oncology: Tumor Treating Fields (SLU CME)

Chairs:

Chirag Patel
Clinical Assistant Professor of Neurology and Neurological Sciences and, by courtesy, of Radiology, Stanford University School of Medicine

Edwin Chang
Laboratory Scientist, Molecular Imaging Program, Director of the Small Animal Imaging Facility at the Canary Center, Stanford Stanford University

10:00-10:15 AM
Chirag Patel
Affiliation: Clinical Assistant Professor of Neurology and Neurological Sciences and, by courtesy, of Radiology, Stanford University School of Medicine

Overview of TT Fields Clinical Trials

10:15-10:30 AM
Michael Story
Affiliation: Distinguished Chair in Radiation Oncology, University of Texas, Southwestern Medical Center

TT Fields Mechanisms Enhancing Cancer Therapy (TBC)

10:30-10:45 AM
Edwin Chang
Affiliation: Laboratory Scientist, Molecular Imaging Program, Director of the Small Animal Imaging Facility at the Canary Center, Stanford Stanford University

TT Fields and their Effects in Preclinical Models of Cancer

10:45-11:00 AM
Christoph Pohling
Affiliation: Associate Adjunct Professor, Loma Linda University, School of Medicine, (Former) Post Doctoral Fellow, Stanford University, School of Medicine

TT Fields and the Development of Preclinical Models of Cancer

11:00-11:15 AM
Roger Stupp
Affiliation: Paul C. Bucy Professor and Director, Chief of Neuro-oncology, Malnati Brain Tumor Institute of the Lurie Comprehensive Cancer Center, Departments of Neurology, Neurological Surgery and Oncology, Northwestern University

Tumor Treating Fields – Integration of this new paradigm in oncology

11:15-11:30 AM
Session discussion

Friday, March 11th 1:00 - 3:00 PM

B57: (SLU CME) Stem Cell and Molecular Targeting

Chairs:

Vicky Yamamoto
Scientist, Keck School of Medicine of USC, USC-Norris Comprehensive Cancer Center
Society of Brain Mapping Foundation (SBMT)

Jennifer Yu
Associate Professor of Molecular Medicine, Cleveland Clinic.

1:00-1:15 PM
Jennifer Yu
Affiliation: Associate Professor of Molecular Medicine, Cleveland Clinic.

Alternate Pathway of Wnt Pathway Activation in Glioblastoma

1:15 – 1:30 PM
Frank Markland
Affiliation: Professor of Biochemistry and Molecular Medicine
University of Southern California, Keck School of Medicine.

Novel Integrin-targeted Therapy for Glioblastoma

1:30 – 1:45 PM
Anita Hjelmeland
Affiliation: Basic Science Co-Leader, Neuro-oncology Program, O'Neal Comprehensive Cancer Center
Co-Director, Glial Biology Pillar, Comprehensive Neuroscience Center
Associate Professor Department of Cell, Developmental, and Integrative Biology (CDIB)
University of Alabama at Birmingham (UAB)

Gliobiology Overview

1:45 - 2:00 PM
Hugo Guerrero-Cazares
Affiliation: Associate Professor of Neurosurgery. Mayo Clinic at Jacksonville, FL.

Stem Cell Biology of Glioblastoma

2:00 – 2:15 PM

Shreyas S. Rao, Ph.D.
Associate Professor, Department of Chemical and Biological Engineering, The University of Alabama

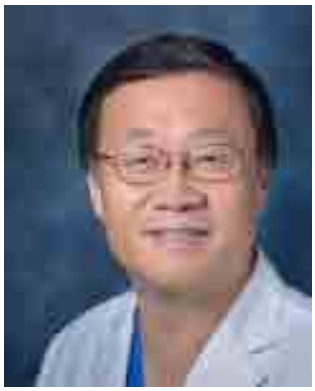
Three dimensional biomimetic models to study microenvironmental regulation of glioblastoma stem cells

2:15 - 2:30 PM
Session discussion

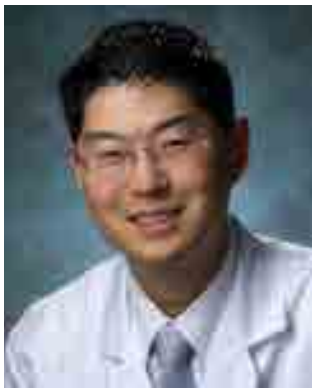
Friday, March 11th 3:00-5:00 PM

B70: (SLU CME) Neuro-Oncology: New Approaches in Immunotherapy

Chairs:



John S. Yu
Professor of Neurosurgery
Vice Chair of Neurosurgery Cedars-Sinai Medical Center



Michael Lim
Professor of Neurosurgery and, by courtesy, of Radiation Oncology (Radiation Therapy) and of Medicine (Oncology), Stanford Medicine

3:00-3:15 PM
Stephen Bagley
Affiliation: Assistant Professor of Neurosurgery the University of Pennsylvania

Reasons for Failure of immunotherapy in GBM patients - the Clinical Perspective

3:15-3:30 PM
Christopher Jackson
Affiliation: Assistant Professor of Neurosurgery Johns Hopkins University SOM

Learning from the impossible cases: is a durable immune-induced response possible?

3:30-3:45 PM
Michael Lim
Affiliation: Professor of Neurosurgery and, by courtesy, of Radiation Oncology (Radiation Therapy) and of Medicine (Oncology), Stanford Medicine

Overcoming Exhausted Immune Cells In GBM

3:45-4:00 PM
Poul Sorensen
Affiliation: Department of Pathology and Laboratory, University of British Columbia, BC, Canada

The microbiome and brain tumor incidence or Molecular and immunological aspects of pediatric brain tumors

4:00-4:15 PM
Robert Hariri
Affiliation: Chairman, Founder, and CEO of Celularity, Adjunct Professor Neurosurgery, Weill Cornell Medical College

NK Cell Therapy for Recurrent GBM

4:15-4:30 PM
Erin M Dunbar
Affiliation: Piedmont Brain Tumor Center, Medical Neuro-Oncology, Atlanta, GA, USA

Brachytherapy with gammatile including trials as well as routine trial treatment with SRS (linac GK) with primary/metastatic cns tumors and other related high impact topics.

4:30-4:45 PM
Session Discussion

Saturday, March 12th 10:00-11:30 AM

C83: (SLU CME) Neuro-Oncology: Image Guided Ablative Therapy

Chairs:

Gregory S. Fischer
Professor Department of Robotics Engineering, Worcester Polytechnic Institute (WPI)

Julie G. Pilitsis
Chair of Neuroscience & Experimental Therapeutics and Professor of Neurosurgery at Albany Medical College

10:00-10:15 AM
Desmond Yeo
Affiliation: Technology Manager Technology Manager - MRI and Superconducting Magnets GE Global Research

MR thermometry for neuroablation - an MR systems perspective

10: 15-10:30 AM
Gregory S. Fischer
Affiliation: Professor Department of Robotics Engineering, Worcester Polytechnic Institute (WPI)

AI Med Robotics

10:30-10:45 AM
Jon T. Willie
Affiliation: Associate Professor of Neurosurgery, Biomedical Engineering, Psychiatry, Neuroscience and Neurology, Washington University of Medicine

MR guided ablation

10:45-11:00 AM
Julie G. Pilitsis
Affiliation: Chair of Neuroscience & Experimental Therapeutics and Professor of Neurosurgery at Albany Medical College

Ablation: What's Old is New

11:00-11:15 AM
Katie Gandomi
Affiliation: Researcher and Data Scientist Worcester Polytechnic Institute (WPI)

Data Science Machine Learning for Intraoperative robotics

11:30-11:45 AM
Session discussion

Saturday, March 12th 1:00-2:30 PM

C96: (SLU CME) Neuro-Oncology: Precision Medicine

Chairs:

Andrew S. Venteicher
Assistant Professor and Neurosurgical Director of the Center for Skull Base and Pituitary Surgery, Department of Neurosurgery, University of Minnesota School of Medicine

Terence (Terry) Burns
Affiliation: Associate Professor of Neurosurgery and Neuroscience, Mayo Clinic, Rochester, MN

1:00-1:15 PM
Andrew S. Venteicher
Affiliation: Assistant Professor and Neurosurgical Director of the Center for Skull Base and Pituitary Surgery, Department of Neurosurgery, University of Minnesota School of Medicine

Towards a personalized medicine approach for patients with cranial base tumors

1:15-1:30 PM
Jing Wu
Affiliation: Lasker Clinical Research Scholar, Neuro-Oncology Branch Clinical Fellowship Director, Center for Cancer Research, National Cancer Institute

Developing a CDK9 inhibitor towards a therapy in glioma

1:30-1:45 PM
Panagiotis Z Anastasiadis
Affiliation: Professor of Cancer Biology, Cell Biology Program Director, Mayo Clinic Cancer Center, Jacksonville, FL

A personalized targeted approach to treating malignant brain tumors: the ExVivo project

1:45-2:00 PM
Poul H Sorensen
Affiliation: Professor, Department of Pathology and Laboratory, University of British Columbia, BC, Canada

Individualizing therapy in pediatric glioma

2:00-2:15 PM
Terence (Terry) Burns
Affiliation: Associate Professor of Neurosurgery and Neuroscience, Mayo Clinic, Rochester, MN

Glioma Intelligence from behind enemy lines

2:15-2:30 PM
Session discussion

Saturday, March 12th 3:00-5:00 PM

C109: Neuro-Oncology: Tumor Ablation

Co-Chairs:

Reinhard W. Schulte
Professor in the Division of Biomedical Engineering Sciences, at **Loma Linda** University Health, Associate Professor of Radiation Oncology at LLU School of Medicine

Ian Y Lee, Attending Neurosurgeon, Henry Ford Health System Department of Neurosurgery

3:00 – 3:15 PM
Adam Robin, Attending Neurosurgeon
Affiliation: Henry Ford Health System Department of Neurosurgery

Planned Staged Laser ablation and/or Resection for Large Gliomas

3:15 – 3:30 PM
Costas Hadjipanayis
Affiliation: Mount–Sinai Department of Neurosurgery

Photodynamic Therapy for Gliomas

3:30 – 3:45 PM
Clark Chen
Affiliation: University of Minnesota Department of Neurosurgery

Gamma Tile Brachytherapy for Recurrent Gliomas

3:45 – 4:00 PM
Veronica Chiang
Affiliation: Yale University Department of Neurosurgery

Management of post-SRS enhancing lesions for metastatic disease

4:00 – 4:15 PM
Michael Lim
Affiliation: Stanford University Department of Neurosurgery

High Intensity Focused Ultrasound for Gliomas

4:15 – 4:30 PM
Session discussion

Sunday, March 13th 10:00-11:30 AM

D122: (SLU CME) Neuro-Oncology: Neuroimaging and Theranostics

Chairs:

Frankis Almaguel
Director, Molecular Imaging & Therapeutics Program Loma Linda University Heath, CHDMM & LLUH Cancer Center

Vasileios Katsaros
Neuroradiologist
Director, MRI Department, Agios Savvas Anti-Cancer and Oncology Hospital, Athens (Greece)

10:00-10:12 AM
Rajan Jain
Affiliation: Professor of Radiology and Neurosurgery, NYU Grossman School of Medicine

Treatment complications in adult brain tumor patients and role of imaging

10:12-10:24 AM
Kathleen Schmainda
Affiliation: Professor of Biophysics at Medical College of Wisconsin

MRI methods to assess brain tumor angiogenesis and invasion

10:24-10:36 AM
Robert J. Young
Affiliation: Director, Brain Imaging Director, Neuroradiology Research, Co-Chair, MRI Committee, Associate Attending, Neuroradiology Service, Department of Radiology Memorial Sloan Kettering Cancer Center

2-hydroxyglutarate (2HG) MRI spectroscopy in isocitrate dehydrogenase (IDH) mutant gliomas

10:36-11:48 AM
Sachin Gujar
Affiliation: Assistant Professor of Radiology and Radiological Science John Hopkins Medicine

Functional MRI for pre-operative planning of brain tumor patients

11:48-11:03 AM
Vaslileios K. Katsaros
Affiliation: Neuroradiologist
Director, MRI Department, Agios Savvas Anti-Cancer and Oncology Hospital, Athens (Greece)

The role of MRI in pre-operative treatment planning for Brain Tumors

11:03-11:18 AM
Frankis Almaguel
Affiliation: Director, Molecular Imaging & Therapeutics Program Loma Linda University Heath, CHDMM & LLUH Cancer Center

Theranostics and the Future of Precision Neuro-oncology

11:18 – 11:30 AM
Session discussion

Sunday, March 13th 1:00-2:30 PM

D135: (SLU CME) Neuro-Oncology: Radiation Technologies

Chairs:

Reinhard W. Schulte
Professor in the Division of Biomedical Engineering Sciences, at **Loma Linda** University Health, Associate Professor of Radiation Oncology at LLU School of Medicine

Narayan Hosmane
Professor Chemistry, Northern Illinois University

1:00-1:15 PM
Charles Limoli
Affiliation: Professor of Radiation Oncology University of California Irvine (UCI) School of Medicine

Preclinical Research on Mechanisms of FLASH Radiation Therapy

1:15-1:30 PM
Jay F. Dorsey
Affiliation: Associate Professor of Radiation Oncology, Perelman School of Medicine, University of Pennsylvania

Translational Research Activities in FLASH Radiation Therapy

1:30-1:45 PM
Ergi Liu Pollom
Affiliation: Assistant Professor of Radiation Oncology (Radiation Therapy) and, by Courtesy, of Neurosurgery, Practices at Stanford Hospital and Clinics Lucile Packard Children's Hospital, Palo Alto, CA

Latest developments in hypo-fractionated radiation therapy schedules for GBM

1:45-2:00 PM
Hanna Koivunoro
Affiliation: Chief Medical Physicist, Neutron Therapeutics, Inc, Danvers, MA

Current Status of Clinical Boron Neutron Capture Therapy (BNCT)

2:00-2:15 PM
Wolfgang Sauerwein
Affiliation: President of the German Society for Boron Neutron Capture Therapy

How can BNCT be established as a reimbursable treatment modality in clinical practice?

2:15-2:30 PM
Session discussion

Sunday, March 13th 3:30-5:00 PM

D148: Neuro-Oncology: Brain Tumours in Veterans

Chairs:

Reinhard W. Schulte
Professor in the Division of Biomedical Engineering Sciences, at **Loma Linda** University Health, Associate Professor of Radiation Oncology at LLU School of Medicine

J. Wesson Ashford
War Related Illness & Injury Study Center (WRIISC), VA Palo Alto Health Care System and Stanford University.

3:30-3:45 PM
J. Wesson Ashford
Affiliation: War Related Illness & Injury Study Center (WRIISC), VA Palo Alto Health Care System and Stanford University.

Cancer Incidence Studies in large Population Cohorts – Challenges and Opportunities (TBC)

3:45-4:00 PM
Jill S Barnholtz-Sloan
Affiliation: Associate Director for Informatics and Data Science (IDS), Center for Biomedical Informatics and Information Technology (CBIIT)
Senior Investigator, Trans-Divisional Research Program (TDRP), Division of Cancer Epidemiology and Genetics (DCEG) , National Cancer Institute (NCI)

Data Matching Approaches to Compare the Incidence of Brain Tumors In Veteran and Non-Veteran Populations (TBC)

4:00-4:15 PM
Carr J Smith, Florida State University Nurse Anesthesia Program
Affiliation: Toxicology Advisor, Albemarle Corporation

The chemistry of effluents from burn pits

4:15-4:30 PM
Erin K. Dursa
Affiliation: Post Deployment Health Epidemiology Program, Office of Patient Care Services, Veterans Health Administration, Department of Veterans Affairs.

Brain Tumor Mortality Among U.S. Gulf War Veterans (TBC)

4:30-4:45 PM
Guenter Oberdoerster
Affiliation: Professor Emeritus - Department of Environmental Medicine (SMD), University of Rochester Medical Center
School of Medicine and Dentistry

Uschi Graham
Affiliation: Adjunct Professor, University of Kentucky

Translocation and bioprocessing of airborne nanoparticles in the CNS

4:45-5:00 PM
Panel discussion

Society for Brain Mapping and Therapeutics (SBMT)
Optometry
Conference 2022: Room 406A

Thursday, March 10th 10:00–11:30 AM

UPDATES in EYECARE
A6: NON-IMAGE FORMING PATHWAYS

Chair:
Deborah Zelinsky
OD
Founder, Mind-Eye Institute
Inventor Z-Bell[SM] Testing





10:00–10:15 AM
Vasillis Kokotas
Affiliation: Optometrist & Professional Consultant S.A. Bairamoglou S.A. Aston University, Athens, Greece

Non-Conscious Effects of Prism on Body Posture

10:15–10:30 AM
Brian Fuller
Affiliation: Fuller Health Group, SC, Oak Park, IL USA

Topological Considerations of Neurological Biofields: A Kinesology Approach

10:30–10:45 AM
Maja Kostic
Affiliation: Assistant Professor of Neuro-ophthalmology and Pediatric Ophthalmology, UNC Chapel Hill, North Carolina and Volunteer Assistant Prof. of Ophthalmology at Bascom Palmer Eye Institute, Miami, FL

Multidisciplinary Approach to Idiopathic Intracranial Hypertension

10:45–11:00 AM
Sean Ku Wang
Affiliation: Postdoctoral Fellow at Stanford University

Therapies Targeting Microglia in the Eye

11:00–11:15 AM
Suraj Upadhyaya
Affiliation: Assistant Professor at Midwestern College of Optometry, Downers Grove, IL USA

Subcortical Structures Involved in Visual Processing

11:15–11:30 AM
Session discussion

Thursday, March 10th 1:00–3:00 PM

UPDATES in EYECARE
A19: IMAGE FORMING PATHWAYS (JHU CME)

Chair:
Deborah Zelinsky
OD
Founder, Mind-Eye Institute
Inventor Z-Bell^{SM} Testing




1:00–1:15 PM
Philip Troyk
Affiliation: Executive Director of the Pritzker Institute of Biomedical Science and Engineering and Cofounder, Sigenics Chicago, IL USA

Wireless Modules for Brain Neural Interfaces

1:15–1:30 PM
Philip Troyk
Affiliation: Executive Director of the Pritzker Institute of Biomedical Science and Engineering and Cofounder, Sigenics Chicago, IL USA

An Intracortical Visual Prosthesis using Wireless Floating Microelectrode Arrays

1:30–1:45 PM
Kimberly Gokoffski
Affiliation: Assistant Professor of Clinical Ophthalmology; Associate Director, Institute for Technology and Medical Systems

Directing Axon Growth to Regenerate Neurons in the Optic Nerve

2:15–2:30 PM
Mark Wallace
Affiliation: Vanderbilt Brain Institute

Auditory and Visual Mismatch in Autism

2:30-2:45 PM
Karin Lypka
Affiliation: Bascom Palmer Eye Institute, University of Miami

Retinal Flow Deficit Measurements in Proliferative Diabetic Retinopathy Patients Comparing Manual and Algorithm Techniques

2:45–3:00 PM
Session discussion

Thursday, March 10th 3:00–5:00 PM

UPDATES in EYECARE
A32: VISUAL PROCESSING (JHU CME)

Chair:
Deborah Zelinsky
OD
Founder, Mind-Eye Institute
Inventor Z-Bell℠ Testing
Email: mindeyeconnection@gmail.com

3:00–3:15 PM
Yuri Danilov
Affiliation: Senior Scientist
Research Director (retired), Tactile Communication and Neurorehabilitation Laboratory, University of Wisconsin, Madison (retired), Pavlov Institute of Physiology, Russian Academy of Science

Part 1 Effects of translingual stimulation on eye movement control rehabilitation: case studies

3:15–3:30 PM
Yuri Danilov
Affiliation: Senior Scientist
Research Director (retired), Tactile Communication and Neurorehabilitation Laboratory, University of Wisconsin, Madison (retired), Pavlov Institute of Physiology, Russian Academy of Science

Part 2 Effects of translingual stimulation on eye movement control rehabilitation: case studies.

3:30–3:45 PM
Nathan van der Stoep
Affiliation: Associate Professor Universiteit Utrecht

Crossmodal Attentional Orienting In Response to Sounds

3:45–4:00 PM
James Young
Affiliation: Neurologist and Physiatrist, Physician Rehab Associates of Chicago, IL USA

Compromised Visual Processing in Brain Injury Patients

4:00–4:15 PM
Stanley Tien
Affiliation: Sun Time Vision Specialist

The Evolution of Visual Processing: From Eye Charts to Virtual Reality

4:15–4:30 PM
Session discussion

Friday, March 11th 10:00–11:30 AM

BRAIN ASSESSMENTS
B45: Electrical Assessments (JHU CME)

Chair:

Delia Cabrera Debuc
Bascom Palmer Eye Institute, Miami, FL
Email: DCabrera2@med.miami.edu



10:00–10:15 AM
Corey Feinberg
Affiliation: Integrative Psychological HealthCare Center

Part 1 The Application of qEEG Brain Mapping Techniques for Eye Care Professionals

10:15–10:30 AM
Corey Feinberg
Affiliation: Integrative Psychological HealthCare Center

Part 2 The Application of qEEG Brain Mapping Techniques for Eye Care Professionals

10:30–10:45 AM
Robert W. Thatcher
Affiliation: CEO Applied Neuroscience, Inc.

Electrical Neuroimaging and Diffusion Tensor Imaging of Functional and Effective Connectivity

10:45–11:00 AM
Simon Kaja
Affiliation: Dr John P and Therese E Mulcahy Endowed Professor in Ophthalmology Loyola University Chicago, Vice-President and Chief Scientific Officer, Experimentica, Ltd.

Part 1 Preclinical Models for Functional Recovery of Electroretinogram Responses in Ophthalmic Disease

11:00–11:15 AM
Simon Kaja
Affiliation: Dr John P and Therese E Mulcahy Endowed Professor in Ophthalmology Loyola University Chicago, Vice-President and Chief Scientific Officer, Experimentica, Ltd.

Part 2 Preclinical Models for Functional Recovery of Electroretinogram Responses in Ophthalmic Disease

11:15–11:30 AM
Session discussion

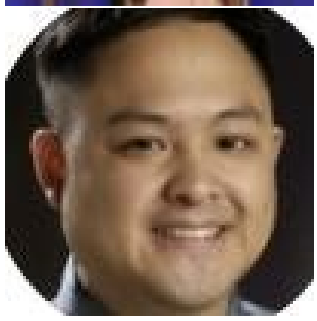
Friday, March 11th 1:30–3:00 pm

LET'S BRAINSTORM

B58: Subcommittee Meeting Led by our Chairs

Delia Cabrera Debuc,
Bascom Palmer Eye Institute, Miami, FL

Deborah Zelinsky
OD
Founder, Mind-Eye Institute
Inventor Z-Bell^{SM} Testing



Jonathan Hall
Daniel and Davis Optometry, Carlsbad, CA USA

Amy Pruszenski
Visual Victory Training, Portsmouth, NH, USA

Friday, March 11th 3:00–5:00 PM

BRAIN ASSESSMENTS
B71: Biomarkers (JHU CME)

Chair:

Delia Cabrera Debuc
Bascom Palmer Eye Institute, Miami, FL




3:00–3:15 PM
Heather Heitkotter
Affiliation: Researcher Medical College of Wisconsin, Milwaukee USA

Part 1: Identifying Retinal Changes in Neurodegenerative Disease

3:15–3:30 PM
Heather Heitkotter
Affiliation: Researcher Medical College of Wisconsin, Milwaukee USA

Part 2: Identifying Retinal Changes in Neurodegenerative Disease

3:30–3:45 PM
Melanie Woodhouse
Affiliation: Eye Four Eye Manly, Sydney, Australia

Exploring Changes in the Prefrontal Cortex After Brain Trauma

3:45–4:00 PM
Julia Phares
Affiliation: Program Director of Atlanta NeuroTherapy Institute

Using Visual Feedback to Modify Hyper and Hypoarousal

4:00–4:15 PM
Deborah Zelinsky
Affiliation: OD
Founder, Mind-Eye Institute
Inventor Z-Bell^{SM} Testing

Using Retinal Mapping as a Poor Man's MRI

4:15–4:30 PM
Session discussion

Saturday, March 12th 10:00–11:30 AM

COLLABORATIVE RELATIONSHIPS
C84: Collaboration in Internal Medicine (Cardiology & Endocrinology) (JHU CME)

Chair:

Jonathan Hall
Daniel and Davis Optometry, Carlsbad, CA USA





10:00–10:15 AM
Javier Fernandez
Affiliation: Founder Cognitive FX

Part 1 Evaluating IOP Metrics And Postural Change Effects In DBP SBP Metrics For The Diagnosis And Management of CVD stroke Risk

10:15–10:30 AM
Delia Cabrera Debuc
Affiliation: Bascom Palmer Eye Institute, Miami, FL

Part 2 Evaluating IOP Metrics and Postural Change Effects in DBP SBP Metrics for The Diagnosis And Management of CVD Stroke Risk

10:30–10:45 AM
Miklos Resch
Affiliation: Department of Ophthalmology, Semmelweis University

Evaluation of Diabetic Microangiopathy Using Optical Coherence Tomography Angiography

10:45–11:00 AM
Ardita Hasalami
Affiliation: Bascom Palmer Eye Institute, Miami, FL USA

TBD

11:00–11:15 AM
Deborah Zelinsky
Affiliation: OD
Founder, Mind-Eye Institute
Inventor Z-Bell^{SM} Testing

Retinal Processing Effects on Brain Chemistry

11:15–11:30 AM
Session discussion

Saturday, March 12th 1:00–2:30 PM

COLLABORATIVE RELATIONSHIPS
C97: Collaboration with Trauma (Physical Medicine & Rehabilitation)

Chair:
Jonathan Hall
Daniel and Davis Optometry, Carlsbad, CA USA
Email: jonathan.hall.od@gmail.com




1:00–1:15 PM
Matthew Antonucci
Affiliation: Cofounder of Plasticity Centers, Orlando, FL USA

Correlates of Ocular Cyclodeviation, Vestibular Aberrancy, and Altered Spatial Awareness

1:15–1:30 PM
Marianna Newsam
Affiliation: Owner of MNO Therapy

The Effect on Visual Awareness due to Shifts in Neck Position During Texting

1:30–1:45 PM
Anat Baniel
Affiliation: Founder of the Anat Baniel Method®NeuroMovement®

Activating Neuroplasticity Through Eye Movements to Facilitate Whole Body Re-Organization

1:45–2:00 PM
Anat Baniel
Affiliation: Founder of the Anat Baniel Method®NeuroMovement®

Whole Body-Brain Approach to Improving Visual Skills

2:00–2:15 PM
Suzi Marks
Affiliation: Founder of Mindful Movement, Highland Park, IL USA

Subtle Movements and Sensory Input: Two Case Studies after Brain Injury for Optimal Functioning in Daily Life

2:15–2:30 PM
Session discussion

Saturday, March 12th 3:00-4:30 PM

COLLABORATIVE RELATIONSHIPS
C110: Collaboration in Overall Health (Psychiatry & Neurology) (JHU CME)

Chair:
Jonathan Hall
Daniel and Davis Optometry, Carlsbad, CA USA






3:00–3:15 PM
Robert Wilson
Affiliation: Emergency Medicine Physician, US Air Force Base
PTSD in Veterans

PTSD Secondary to TBI: Update on Neuro-Optometry

3:15–3:30 PM
Christine Nguyen
Affiliation: Head of Ocular Biomarker Laboratory, Senior Lecturer Department of Optometry and Vision Sciences, Faculty of Medicine, Dentistry and Health Sciences

Hyperspectral Retinal Imaging in Alzheimer's and Parkinson's Disease in Mice

3:30–3:45 PM
Alberto Ramos
Affiliation: Associate Professor, Clinical Neurology, Sleep Medicine

Sleep in Neurocognitive Aging & Alzheimer's Research, Iinfluence of Eye-Disease

3:45–4:00 PM
Paulo Lizano
Affiliation: Assistant Professor of Psychiatry, Harvard Medical School

Longitudinal Study of Retinal and Cortical Changes found in Schizophrenia and Bipolar Disorder

Nora Sheehan
Affiliation: Beth Israel Deaconess Medical Center, Research Sponsored by Boston University

Longitudinal Study of Retinal and Cortical Changes found in Schizophrenia and Bipolar Disorder

4:00–4:15 PM
Gabriela Szatmary
Affiliation: Neuro-Ophthalmology, Neurology, Hattiesburg Clinic

When the Window to the Brain is Broken: Cases from a Neuro-ophthalmologist's Office

4:15–4:30 PM
Session discussion

Sunday, March 13th 10:00–11:30 AM

FUTURE ROLE of EYECARE in the HEALTHCARE INDUSTRY
D123: Establishing Adjunct Relationships

Chair:
Amy Pruszenski
Visual Victory Training, Portsmouth, NH, USA




10:00–10:15 AM
Belinda Leibowitz
Affiliation: Occupational Therapist Special Interest Low Vision, Private Practitioner Low Vision Care Centre South Africa

Creating awareness of the multi-disciplinary approach in working with the visually impaired from the Occupational Therapist's perspective

10:15–10:30 AM
Betsy Pilon
Affiliation: Executive Director, Hope for HIE (Hypoxic Ischemic Encephalopathy)

Visual Effects from Hypoxia at Birth

10:30–10:45 AM
Leighton Reynolds
Affiliation: Private Practice –Neuropsychoanalyst, with emphasis on Brain Injuries in Athletes

Following the Damaging Course of a TBI: Brain and Mind

10:45–11:00 AM
Leighton Reynolds
Affiliation: Private Practice –Neuropsychoanalyst, with emphasis on Brain Injuries in Athletes

Following the Healing Course of a TBI: Brain and Mind

11:00–11:15 AM
David Ancona-Lezama Mexican Ophthalmologist, Retina Specialist and Ocular Oncologist

vascular events after chemotherapy?

11:15–11:30 AM
Session discussion

Sunday, March 13th 1:00–2:30 PM

FUTURE ROLE of EYECARE in the HEALTHCARE INDUSTRY
D136: Creating Public Awareness of Visual Processing

Chair:

Amy Pruszenski
Visual Victory Training, Portsmouth, NH, USA





1:00–1:05 PM
Lieutenant Courtenay Nold
Affiliation: US Navy and author of Total War on PTSD

Total War on PTSD: Creating Awareness for Veterans

1:05–1:30 PM
Kiera Rain
Affiliation: Founder and CEO of California BrainWaves (Non-Profit for Developmental Disabilities and Brain Injury)

Creating Awareness for Special Needs Children

1:30–1:45 PM
Andrea Adams-Miller
Affiliation: International Publicist, The RED Carpet Connection, & Executive Director, The Keep Smiling Movement, Findlay, OH USA

Creating Public Awareness through Networking

1:45–2:00 PM
Doug Major
Affiliation: Central Coast Vision and Learning Paso Robles, CA USA

Creating Awareness of the Association between Criminality and Visual Disorders

2:00–2:15 PM
Elizabeth Hoppe
Affiliation: DRPH Dean of Western Univ. of Optometry

Lessons from Public Health: Creating Visual Health Awareness

2:15–2:30 PM
Session discussion

Sunday, March 13th 3:30–4:30 PM

FUTURE ROLE of EYECARE in the HEALTHCARE INDUSTRY
D149: Updating the Eye Examination (JHU CME)

Chair:
Amy Pruszenski
Visual Victory Training, Portsmouth, NH, USA





3:30–3:45 AM
Karin Lypka
Affiliation: Bascom Palmer Eye Institute, Miami, FL USA

Assessment of outer retinal thickness changes in mice after optic nerve trauma

3:45–4:00 PM
Ravi Jonnal
Affiliation: Assistant Professor University of California-Davis

Optoretinography: Fundamental Principles and Clinical Prospects

4:00–4:15 PM
Carlos Mendoza
Affiliation: Assistant Professor of Clinical Ophthalmology, Bascom Palmer Eye Institute

Virtual Reality Platform. A Paradigm Shift in Vision Assessment

4:15–4:30 PM
Ryan De'Larami
Affiliation: TeleVU (TeleVU Innovation Ltd.)

ViRtual cARe reAImagined Utilizing AR VR and AI to enhance patient care & improve outcomes

4:30–4:45 PM
Amy Pruszenski
Affiliation: Owner, Visual Victory Training, Portsmouth, New Hampshire, USA

Using Retinal Neuromodulation to Influence Myopia Progression

4:45–5:00 PM
Session discussion

Society for Brain Mapping and Therapeutics (SBMT)

MEG EEG and Epilepsy, Conference 2022: Room
This Program is made possible by generous support of Applied Neuroscience LLC

Thursday, March 10th 3:00-5:00 pm

A33: Subcommittee Meeting

Chair & Recipient of SBMT 2021 Pioneer in Medicine Award:
Robert Thatcher
Applied Neuroscience, Inc., CEO and Director Applied Neuroscience Research Institute

Co-Chairs:
P Sarat Chandra
Professor and Head Unit I, Department of Neurosurgery
All India Institute of Medical Sciences (AIIMS)
In Charge, MEG Resource Facility and Center of Excellence for Epilepsy
Faculty in Charge Epilepsy and Functional Neurosurgery Fellowship Program
Post Doc Fellow, UCLA, Los Angeles

Dawn Eliashiv
Professor, Co-Director, UCLA Seizure Disorder Center UCLA Department of Neurology

Mohammad Nami
Director, Brain, Cognition, and Behavior Unit, Department of Neuroscience, Shiraz University of Medical Sciences

Friday, March 11th 10:00-11:30 am

B46: New Advancements in Electrical Neuroimaging

Chair & Recipient of SBMT 2021 Pioneer in Medicine Award:
Robert Thatcher
Applied Neuroscience, Inc., CEO and Director Applied Neuroscience Research Institute

10:00-10:15 AM
Robert Thatcher
Affiliation: Applied Neuroscience Research Institute

Neuro-navigation of Functional and Effective Connectivity in Epilepsy

10:15-10:30 AM
Joel Lubar
Affiliation: President Southeastern Neurofeedback Institute

Electrical Neuroimaging of Epileptic Foci and Affected Networks

10:30-10:45 AM
Wes Center
Affiliation: President and Clinical Director of Brain & Behavior Associates

Electrical Neuroimaging for Pre vs Post Treatment Evaluation

10:45-11:00 AM
Robert Thatcher
Affiliation: Applied Neuroscience Research Institute

Neuro-navigation and Neurofeedback

11:00-11:15 AM
Richard Abbey
Affiliation: Abbey Neuropsychology Clinic

Electrical Neuroimaging and Diffusion Tensor Imaging

11:15-11:30 AM
Session discussion

Friday March 11th 1:30-3:00 PM

B59: (JHU CME) Epilepsy and intraoperative Brain Mapping

Chairs:

Warren Boling
Professor and Chairman, Department of Neurosurgery Loma Linda University
Email: wboling@llu.edu

Dawn Eliashiv
Professor, Co-Director, UCLA Seizure Disorder Center UCLA Department of Neurology
Email: deliashiv@mednet.ucla.edu

1:30-1:15 PM
Nasser Kashou
Affiliation: Senior Research Scientist, Society for Brain Mapping & Therapeutics (SBMT)
Email: nasser.kashou@brainmappingfoundation.org
Functional and Structural MRI for surgical planning in Epilepsy

1:15-1:30 PM
Mohammad Nami
Affiliation: Director | Brain, Cognition, and Behavior Unit, Department of Neuroscience, Shiraz University of Medical Sciences
Email: Mohammad.Nami@brainmappingfoundation.org
Sleep Epilepsy or NREM parasomnias?

1:30-1:45 PM
Eliashiv, Dawn S
Affiliation: Professor, Co-Director, UCLA Seizure Disorder Center UCLA Department of Neurology
Email: deliashiv@mednet.ucla.edu
MEG

1:45-2:00 PM
Kensuke Kawai
Affiliation: Professor, President, President of Japanese Epilepsy Society
Email: kenkawai-tky@jichi.ac.jp
Hippocampal transections

2:00-2:15 PM
Iman Ghodratitoostani
Affiliation: Senior Researcher at Neurocognitive Engineering Laboratory (NEL), Center for Engineering Applied to Health, Institute of Mathematics and Computer Science (ICMC), University of Sao Paulo
Email: iman.ghodrati@usp.br
Dose-response transcranial Electrical Stimulation study design: A well-controlled Adaptive Seamless Bayesian Method to illuminate negative valence distorts perception.

2:15-2:30 PM
Session discussion

Friday March 11th 3:00-5:00 PM

B72: (JHU CME) MEG EEG Clinical Applications

The EEG and MEG NeuroNavigator for the Evaluation of Epilepsy and Brain Network Dysregulation Using a Lifespan Normative Database from Birth to Senescence.

Chair:

Robert Thatcher
Applied Neuroscience, Inc., CEO and Director Applied Neuroscience Research Institute
www.appliedneuroscience.com

3:00-3:15 PM
Robert Thatcher
Affiliation: Applied Neuroscience Research Institute

Real-Time Electrical Neuroimaging of the Cerebellum, Red Nucleus and Sub-Thalamus: Future Applications in Parkinsonism and Ataxia.

3:15-3:30 PM
Wes Center
Affiliation: President and Clinical Director of Brain & Behavior Associates

Real-Time swLORETA EEG Neurofeedback of Veterans with PTSD

3:30-3:45 PM
Richard Abbey
Affiliation: Abbey Neuropsychology Clinic

Real-Time swLORETA EEG Neurofeedback of Autistic Spectrum Disorder

3:35-4:00 PM
Joel Lubar
Affiliation: President Southeastern Neurofeedback Institute

Electrical Neuroimaging of in Epilepsy Patients

4:00-4:15 PM
Lucas Koberda, Professor of Neurology, Florida State University
Affiliation: Tallahassee Neuro-balance Center

QEEG Brain Mapping and Z Score Neurofeedback training in Epilepsy patients

4:15-4:30 PM
Session discussion

Saturday March 12th 10:00-11:30 AM

C85: Practical Advances in Electrical Neuroimaging:

Chair:

Robert Thatcher
Applied Neuroscience, Inc., CEO and Director Applied Neuroscience Research Institute
www.appliedneuroscience.com

10:00-10:15 AM
Robert Thatcher
Affiliation: Applied Neuroscience Research Institute

Electrical Neuroimaging and Diffusion Tensor Imaging of Functional and Effective Connectivity

10:15-10:30 AM
Ernesto P. Soler
Affiliation: Senior Scientist & Software Engineer, Applied Neuroscience Research Institute

Statistical Evaluation of Brain Networks

10:30-10:45 AM
Joel Lubar
Affiliation: President Southeastern Neurofeedback Institute)

Real-time Electrical Neuroimaging of the Cerebellum, Red Nucleus and Subthalamus

10:45-11:00 AM
Robert Thatcher
Affiliation: Applied Neuroscience Research Institute

Electrical Neuroimaging of Epileptic Foci and Networks

11:00-11:15 AM
Wes Center
Affiliation: President and Clinical Director of Brain & Behavior Associates)

Real-Time swLORETA EEG Neurofeedback in PTSD

11:15-11:30 AM
Session discussion

Saturday, March 12th 1:00-2:30 PM

C98: MEG EEG Clinical Applications II

Chairs:

Leslie S. Prichep
Chief Scientific Officer, BrainScope Company, Inc.

Robert Thatcher
Applied Neuroscience, Inc., CEO and Director Applied Neuroscience Research Institute
www.appliedneuroscience.com

1:00-1:15 PM
Leslie S. Prichep
Affiliation: BrainScope Company, Inc.

Triage of acute traumatic brain injury using electrophysiological biomarkers

1:15-1:30 PM
Robert Isenhart
Affiliation: Wave Neuroscience

QEEG optimization of TMS treatment

1:30-1:45 PM
Richard Abbey
Affiliation: Abbey Neuropsychology Clinic

Electrical Neuroimaging: Linking Symptoms to Dysregulated Networks

1:45-2:00 PM
Ernesto P. Soler
Affiliation: Applied Neuroscience Research Institute

MEG and EEG Neuroimaging of Functional and Effective Connectivity

2:00-2:15 PM
Mohammad Nami
Affiliation: Director | Brain, Cognition, and Behavior Unit, Department of Neuroscience, Shiraz University of Medical

Neuromarkers in PharmacoEEG

2:15-2:30 PM
Session discussion

Saturday, March 12th 3:00-5:00 PM

C111: Epilepsy Session 1 (JHU CME)

Chair:
Dr P Sarat Chandra
Professor and Head Unit I, Dept of Neurosurgery,
All India Institute of Medical Sciences (AIIMS)
In Charge, MEG Resource Facility and Center of Excellence for Epilepsy
Faculty in Charge Epilepsy and Functional Neurosurgery Fellowship Program
Post Doc Fellow, UCLA, Los Angeles

3:00-3:15 PM
Joel Lubar
Affiliation: President Southeastern Neurofeedback Institute

Electrical Neuroimaging and Seizure Localization

3:15-3:30 PM
P Sarat Chandra
Affiliation: Head Unit I, Department of Neurosurgery, All India Institute of Medical Sciences (AIIMS)

Bloodless Epilepsy Surgery

3:30-3:45 PM
P Sarat Chandra
Affiliation: Head Unit I, Department of Neurosurgery, All India Institute of Medical Sciences (AIIMS)

Endoscopic and radiofrequency techniques for hemispheric disconnection

3:45-4:00 PM
Manjari Tripathi
Affiliation: Head, Department of Neurology, Neurosciences Centre, AIIMS, Delhi

Vagal nerve stimulation (VNS) in epilepsy evaluation pathway

4:00-4:15 PM
Imad Najm
Affiliation: Director, Charles Shor Epilepsy Center, The Joseph and Ellen Thomas Chair in Epilepsy Vice Chair, Neurological Institute for Strategy and Development, Cleveland Clinic, Cleveland, OH

The New International Classification for Focal Cortical Dysplasia

4:15-4:30 PM
Session discussion

Sunday March 13th 10:00-11:30 AM

D124: Epilepsy Session 2 (JHU CME)

Chair:

P Sarat Chandra
Professor and Head Unit I, Dept of Neurosurgery,
All India Institute of Medical Sciences (AIIMS)
In Charge, MEG Resource Facility and Center of Excellence for Epilepsy
Faculty in Charge Epilepsy and Functional Neurosurgery Fellowship Program
Post Doc Fellow, UCLA, Los Angeles

10:00-10:15 AM
Arthur Cukiert
Affiliation: Director, Head, Sao Paulo Epilepsy Clinic and Epilepsy Surgery Program in Sao Paulo Brazil

Deep brain stimulation for epilepsy

10:15-10:30 AM
Ashwini Sharan
Affiliation: Program Director for Residency in Neurological Surgery, Division Epilepsy and Neuromodulatory Neurosurgery, Thomas Jefferson University, PA, USA)

Laser interstitial ablation

10:30-10:45 AM
Aria Fallah
Affiliation: Assistant Professor of Neurosurgery and Pediatrics, David Geffen School of Medicine at UCLA, Los Angeles

Role of RNS for epilepsy- current evidence

10:45-11:00 AM
John Stern
Affiliation: Professor, Director of the Epilepsy Clinical Program and Director of the Epilepsy Fellowship Training Program, UCLA Medical Center, Los Angeles)

Emerging future therapies for epilepsy

11:00-11:15 AM
Manjari Tripathi
Affiliation: Professor Neurology, In charge MEG Center, Department of Neurology AIIMS, Delhi

VNS indications and pre-VNS workup

11:15-11:30 AM
Session discussion

Sunday, March 13th 1:00-2:30 PM

D137: Software Session for MEG EEG
The Neuro-Navigator for EEG Source and Connectivity Analyses of Cortical and Cerebellar Network Nodes

Chairs:

Robert Thatcher
Applied Neuroscience, Inc., CEO and Director Applied Neuroscience Research Institute
www.appliedneuroscience.com

Ernesto Palmero Soler
Applied Neuroscience, Inc., Senior Scientist & Software Engineer

1:00-1:15 PM
Robert Thatcher
Affiliation: Applied Neuroscience Research Institute

Real-Time swLORETA Cerebellar EEG Neurofeedback of Parkinson Patients

1:15-1:30 PM
Nicholas Peatfield
Affiliation: CEO ProtoMe

(Proto-Me)- Modern Software Tools for MEG EEG-

1:30-1:45 PM
Ernesto P. Soler
Affiliation: Applied Neuroscience Research Institute

MEG and EEG Neuroimaging of Functional and Effective Connectivity

1:45-2:00 PM
Joel Lubar
Affiliation: President Southeastern Neurofeedback Institute

Electrical Neuroimaging and Seizure Localization

2:00-2:15 PM
Wes Center
Affiliation: President and Clinical Director of Brain & Behavior Associates

Neuronavigation of EEG Functional and Effective Connectivity and Diffusion Tensor Imaging in TBI patients

2:15-2:30 PM
William Lambos
Affiliation: Owner, ABF Behavioral Health (a d/b/a of American Brain Forensics, LLC)

Neuroanalytics: Applying Data Science Analytics to qEEG Functional Imaging Data

2:30-2:45 PM
Session discussion

Society for Brain Mapping and Therapeutics (SBMT)
Spine Subcommittee
Conference Room 150B

Organized by





Kai-Uwe Lewandrowski; Namath Hussain; Jason Cormier; Tobias Mattei; Christina Sadowsky

Thursday, March 10th 10:00-11:30 AM

A9: (JHU CME) Complex spine surgery, imaging and reconstruction techniques

Chair:

Namath Hussain
Loma Linda University Department of Neurosurgery

10:00-10:15 AM
Keyne Johnson
Affiliation: Brain and Spine Institute for Children, American Association of Neurological Surgeons, Cognitive Neuroscience Society

Comparing the motion of a single piece disc arthroplasty design and a ball and socket multiple piece design using dynamic radiography.

10:15-10:30 AM
Tobias Mattei
Affiliation: Department of Neurological Surgery - Saint Louis University

Surgical Treatment of Spinal Fracture-dislocations: Technical Nuances and Biomechanical Considerations.

10:30-10:45 AM
Juan M. Valdivia-Valdivia
Affiliation: St. Joseph's Hospital

3D Preoperative adult scoliosis surgical planning.

10:45-11:00 AM
Nikolay Angelov Peev
Affiliation: Belfast HSC Trust Belfast, Northern Ireland United Kingdom

Minimally Invasive Techniques for excision of Spinal Tumors

11:00-11:30AM
Session discussion

Thursday, March 10th 1:00-3:00 PM

A22: (JHU CME) Rehabilitation and Biologics in Spine Surgery

Chair:
Cristina Sadowsky
Kennedy Krieger Institute, Johns Hopkins School of Medicine

1:15-1:30 PM
Cristina Sadowsky
Affiliation: Kennedy Krieger Institute, Johns Hopkins School of Medicine, Baltimore MD

Neuroplastic changes in spinal cord disease related paralysis

1:30-1:45 PM
Philippines G. Cabahug
Affiliation: Kennedy Krieger Institute

Moving and Sensing in Paralysis: The BiDirectional Cortical Neuroprosthetic System

1:45-2:00 PM
Albert Recio
Affiliation: Kennedy Krieger Institute, Johns Hopkins School of Medicine, Baltimore MD

Use of a Robotic Sailing Simulator with Virtual Reality Navigation for Rehabilitation of Patients with Spinal Cord Injury: An Innovative Voyage

2:00-2:15 PM
Ara Deukmejian
Affiliation: Deuk Spine Institute, CEO

Deuk Laser Disc Repair: The Future of Cervical Disc Surgery

2:15-2:30 PM
Ara Deukmejian
Affiliation: Deuk Spine Institute, CEO

Deuk Laser Disc Repair: The Future of Thoracic Disc Surgery

2:30-2:45 PM
Session discussion

Thursday, March 10th 3:00-5:00 PM

A35: (JHU CME) Neurosurgical & Spine Care: Examples of Translational Research from Benchtop to Clinical Practice

Chair:
Kai-Uwe Lewandrowski
Center For Advanced Spine Care of Southern Arizona, Surgical Institute of Tucson

3:00-3:15 PM
Kai-Uwe Lewandrowski
Affiliation: Center for Advanced Spine Care of Southern Arizona, Surgical Institute of Tucson

Artificial Intelligence Application in Personalized Spine Care.

3:15-3:30 PM
Antonio Daher
Affiliation: Centro Médico Guerra Méndez - Valencia - Venezuela.

Microvascular decompression for hemifacial spasm.

3:30-3:45 PM
Anthony Yeung
Affiliation: Desert Institute for Spine Care

The role and future of endoscopic imaging for the treatment of spine and brain conditions.

3:45-4:00 PM
Xifeng Zhang
Affiliation: Shanxi Medical University

MIS surgery, the future of the spine surgery.

4:00-4:15 PM
Alvaro Dowling
Affiliation: DWS Spine Clinic Center

Transforaminal approach and protocols for thoracic disc herniation.

4:15-4:30 PM
Session discussion

Friday, March 11th 10:00-11:30 AM

B48: (JHU CME) Management of the Spine Disorders

Chair: Kai-Uwe Lewandrowski
Center For Advanced Spine Care of Southern Arizona, Surgical Institute of Tucson

10:00-10:15 AM
Alvaro Dowling
Affiliation: DWS Spine Clinic Center

Endoscopic assisted l5-s1 360 Lumbar inter-body fusion

10:15-10:30 AM
Paulo de Carvalho
Affiliation: Universidade UniRio Rio de Janeiro Brazil

Minimally Invasive Spine

10:30-10:45 AM
Javier Quillo-Olvera, The Brain and Spine Care, Minimally Invasive Spine Surgery Group, Anahuac University, School of Medicine, Hospital H+, Querétaro, Mexico.

The role of water-based spinal endoscopy (uni and biportal) in cervical degenerative pathologies

10:45-11:00 AM
Stefan Hellinger
Affiliation: Arabella Klinik Munic

The endoscopic resection of spinal facet cysts.

11:00-11:15 AM
Roth Vargas
Affiliation: Hospital Centro Médico Campinas - SP Brazil

Identification of the magna radicular artery entry foramen and Adamkiewicz system.

11:15-11:30 AM
Session discussion

Friday, March 11th 1:00 - 3:00 AM

B61: (JHU CME) Management of the Spine Disorders

Chair: Dr. Kai-Uwe Lewandrowski
Center For Advanced Spine Care of Southern Arizona, Surgical Institute of Tucson

1:00-1:15 PM
Sergio Soriano
Affiliation: ABC Medical Center Campus Santa Fe, Mexico City, México.

Tubular microsurgical foraminoplasty: interlaminar and extraforaminal techniques. Tricks, pearls and caveats

1:15-1:30 PM
Michael Steinmetz, Chairman of the Department of Neurosurgery, Cleveland Clinic
Affiliation: Cleveland Clinic

Advances in Spine

1:30-1:45 PM
Jason Cormier
Affiliation: Acadiana Neurosurgery

Use of a Virtual Reality Physical Ride-On Sailing Simulator as a Rehabilitation Tool for Recreational Sports and Community Reintegration

1:45-2:00 PM
Krishnan Chakravarthy
Affiliation: University of California San Diego

Spinal Cord Stimulation Treatment for Chronic Pain: Current Field and Future Prospects

2:00-2:15 PM
Casey G. Batten
Affiliation: Kerlan-Jobe Orthopaedic Clinic.
Team Physician Los Angeles Rams

Molecular Pathophysiology of Concussion
2:15-2:30 PM
Session discussion

Friday, March 11th 3:30 - 5:00 PM
B74: (JHU CME) Innovation in Spine Surgery

Chairs:

Namath Hussain
Loma Linda University Department of Neurosurgery)

Jason Cormier
Acadiana Neurosurgery

3:00-3:15 PM
Jacob Koffler
Affiliation: Neural Engineering Lab, Department of Neurosciences, School of Medicine, UCSD

3D-printed scaffolds for spinal cord injury repair

3:15-3:30 PM
J. Pablo Villablanca
Affiliation: Professor and Chief, Diagnostic Neuroradiology, Director, Interventional Spine Service, Medical Director of MRI, UCLA David Geffen School of Medicine

Advanced percutaneous interventions in the spine and brain using low dose image guidance

3:30-3:45 PM
Namath Hussain
Affiiliation: Loma Linda University

Surgical Anatomy of the Lumbosacral Plexus and Lateral Approaches to the Lumbar Spine

3:45-4:00 PM
Raúl Rincon-Navarro
Affiliation: Director of Neuro Spine & Pain Clinic Los Cabos, México . NASS, WEDNS, SMCN (Mexican Neurosurgical Society), AOSPINE.

Cervical Disc Replacement: is there an age-related indication?

4:00-4:15 PM
Brian Mehling
Affiliation: BHI Therapeutic Sciences

Umbilical Cord Blood Stem Cell Therapy for Spinal Cord Injury

4:15-4:30 PM
Mike Chen:
Affiliation: Associate Professor, Section Head of the Malignant Brain Tumor Program Director of Neuro-oncological Surgical Fellowship Program

Tumor Resection and Instrumentation Techniques for Partial Sacrectomies

4:30-4:45 PM
Session discussion

Sunday, March 13th 10:00-11:30 PM

D126: (JHU CME) Innovation in Spine Surgery

Chairs:

Namath Hussain
Loma Linda University Department of Neurosurgery)

Jason Cormier
Acadiana Neurosurgery

10:00-10:15 AM
Michael G. Fehlings
Affiliation: Department of Surgery Halbert Chair in Neural Repair and Regeneration / Co-Chairman Spinal Program University of Toronto

Repair and regeneration of the injured spinal cord using next generation engineered neural stem cells.

10:15-10:30 AM
Ann Choe
Affiliation: Johns Hopkins School of Medicine

Spinal Cord Imaging in Individuals with Spinal Cord Injury

10:30-10:45 AM
Christopher S. Ahuja
Affiliation: Division of Neurosurgery, Department of Surgery, University of Toronto, Inteligex Inc.

Bioengineered human neural stem cell therapies to regenerate the injured spinal cord.

10:45-11:00 AM
Namath Hussain
Affiliation: Loma Linda University

Stem Cell Injections for Discogenic Pain

11:00-11:15 AM
Jason Cormier
Affiliation: Acadiana Neurosurgery

A Clinical Review of Surgical treatment Options for Cervical Degenerative Disc Disease

11:30-11:45 AM
Session discussion

Sunday, March 13th 1:00-3:00 PM

D139: (JHU CME) Innovation in Spine Surgery

Chairs:

Namath Hussain
Loma Linda University Department of Neurosurgery)

Jason Cormier
Acadiana Neurosurgery

1:00-1:15 PM
Tariq Sohail
Affiliation: Doctors Hospital & Medical Centre

Management strategies for the Kyphotic deformity in Tb spine

1:15 – 1:30 PM
Yongxin (Leon) Zhao
Affiliation: Department of Biological Sciences, Carnegie Mellon University

Expansion Pathology: Nanoscale Imaging of Clinical Specimens with Optical Microscopy and Steps Toward Whole Tissue Multiplex Nanoscopy

1:30 – 1:45 PM
Shahram Hadidchi
Affiliation: Department of Radiology, Wayne State University Detroit Medical Center

Artificial Intelligence in Neurosurgery, Neurology and Neuroradiology

1:45 – 2:00 PM
Tariq Sohail
Affiliation: Doctors Hospital & Medical Centre

Late onset paraplegia in spinal tuberculosis.

2:00 – 2:15 PM
Stephen L. McKenna
Affiilation: Trauma Center at SCVMC and Department of Neurosurgery; Stanford University, School of Medicine

Regenerative Medicine for Acute Spinal Cord Injury: from bench-to-bedside to nationwide

2:15 – 2:30 PM
Session discussion

Sunday, March 13th 3:30-5:00 PM

D152: Spine Subcommittee meeting





Keyne Johnson; Namath Hussain; Jason Cormier; Tobias Mattei; Kai-Uwe Lewandrowski

Society for Brain Mapping and Therapeutics (SBMT)
Spine Cadaver Course
Conference Room Concourse Hall TBD (Brain and spine Observatory)

Organized by





Keyne Johnson; Namath Hussain; Jason Cormier; Tobias Mattei; Kai-Uwe Lewandrowski

Saturday, March 12th 01:00-04:00 PM

C92: Spine Bioskills labs (Cadaver labs)

Faculty:

Kai-Uwe Lewandrowski (SBMT)
Tobias Mattei (SLU)
Jason Cormier (SBMT)
Namath Hussain (LLU)
Keyne Johnson (Brain and Spine Institute for Children)
Ara Deukmejian (Deuk Spine Institute)
Mike Chen (COH)
Advanced Spinal Reconstruction

Total CDA (Cervical Disc Arthroplasty) for motion preservation
Prone position extreme lateral Interbody fusion
Single position XLIF
SI Fusion

Course Description:

This is a live demonstration course on cadaver to perform Lumbar OLIFs, Cervical Total Disc Replacements, Prone position extreme lateral Interbody fusion, Single position XLIF, and SI Fusion, while teaching spine surgeons the approach and discussing indications, complications, and 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.

Learning Objectives:

Learn how to perform this surgical technique with the newest, state-of-the-art instrumentation currently available.
Discussing the indications of this approach.
Discussing the complications of this approach.
Compare and contrast newer techniques and instrumentation with this approach compared with older instrumentation.
Have the opportunity to reviews clinical and technical pearls with experienced spine surgeon.
How to evaluate patients for SI instability
Learn anatomy of the Sacroiliac Joint
Understanding the radiographic imaging
Learn proper and safe screw placement in the SI joint

SBMT |
- Breaking boundaries of Science, Technology, Medicine, Art and Healthcare -

Society for Brain Mapping and Therapeutics (SBMT)
Neurovascular
Conference 2022: Room 153C

Organized by:



Isaac Yang; Iype Cherian; Robert Hariri



Abilash Haridas; Fawaz Al-Mufti; Amin Kassam

Thursday, March 10th 10:00-11:30 AM

A11: (JHU CME) Neurovascular Disorders

Chair:
Iype Cherian
Neurosciences, Krishna Institute of Medical Sciences, Karad, Maharashtra, Asian Congress of Neurological surgeons, WFNS Anatomy Committee, Surgical Neurology International (Head Trauma), World Neurosurgery)

Co-chair:

Abilash Haridas
St Joseph Children's Hospital, St Joseph Hospital

10:00-10:15 AM
Abilash Haridas
St Joseph Children's Hospital, St Joseph Hospital

Recent advances in the skull base

10:15-10:30 AM
Hekmat Zarzour
Affiliation: Vickie and Jack Farber Institute for Neuroscience Thomas Jefferson University Hospital, Division Chief of Neurosurgery Jefferson New Jersey

Surgery of intracranial vascular lesions

10:30-10:45 AM
Rebeca Pérez-Alfayate
Affiliation: Hospital Clínico San Carlos

New concepts in AVMs and future directions

10:45-11:00 AM
Iype Cherian
Affiliation: Neurosciences, Krishna Institute of Medical Sciences, Karad, Maharashtra, Asian Congress of Neurological surgeons, WFNS Anatomy Committee, Surgical Neurology International (Head Trauma), World Neurosurgery

Skull Base Approaches

11:00-11:15 AM
Ramesh Nair
Affiliation: Imperial College Healthcare NHS Trust, London

Intraventricular craniopharyngiomas, complexities and choice of approach

11:15-11:30 AM
Session discussion

Thursday, March 10th 1:00-3:00 PM

A24: (JHU CME) Neurovascular Disorders

Chair:
Iype Cherian
Neurosciences, Krishna Institute of Medical Sciences, Karad, Maharashtra, Asian Congress of Neurological surgeons, WFNS Anatomy Committee, Surgical Neurology International (Head Trauma), World Neurosurgery)

Chair:
Raghu Sampath
Affiliation: Department of Neurosurgery and spine, Northwest Permanente, Oregon

1:00-1:15 PM
Raghu Sampath
Affiliation: Department of Neurosurgery and spine, Northwest Permanente, Oregon

Preservation of draining rain during resection of arteriovenous malformation

1:15-1:30 PM
Varun Kshettry
Affiliation: Cleveland Clinic

Controversies in the Surgical Management of Trigeminal Neuralgia

1:30-1:45 PM
Ekkehard M Kasper
Affiliation: McMaster University, Hamilton/Ontario and St. Elizabeth's Medical Center Boston MA

Management of Schwannomas of the 3rd and 4th cranial nerve

1:45-2:00 PM
Kalangu Kazadi
Affiliation: University of Zimbabwe, Department of Neurosurgery; Full Professor of Neurosurgery, Head of the Department and Chair, Director of the post graduate training program

Supra-Orbital Approach for anterior fossa lesions or Extreme Lateral Approach to the foramen magnum

2:00-2:15 PM
Amin Kassam
Affiliation: Northshore University Health Care System Center

Evolution of Specific Current Endoscopic Endonasal Techniques over Two Decades and Two Thousand Cases: what our patients have taught us

2:15-2:30 PM
Session discussion

Thursday, March 10th 3:00-5:00 PM

A37: (JHU CME) Neurovascular Disorders

Chair:
Raghu Sampath
Affiliation: Department of Neurosurgery and spine, Northwest Permanente, Oregon

Fawaz Al-Mufti
Westchester Medical Center at New York Medical College

3:00-3:15 PM
Amin Kassam
Affiliation: Northshore University Health Care System Center

An Algorithmic Fascicular Driven Corridor Approach to Cavernomas of the Brainstem and spinal cord

3:15-3:30 PM
Ambooj Tiwari
Affiliation: NYU School of Medicine

ML-based Exploration of Renal Dysfunction in a patients undergoing Mechanical Thrombectomy for Stroke

3:30-3:45 PM
Fawaz Al-Mufti
Affiliation: Westchester Medical Center at New York Medical College

Nuts and Bolts of Neuroendovascular Surgery

3:45-4:00 PM
Danny JJ Wang
Affiliation: Laboratory of FMRI Technology (LOFT), Mark & Mary Stevens Neuroimaging and Informatics Institute, Keck School of Medicine, University of Southern California (USC)

High resolution neurovascular imaging at 7 Tesla

4:00-4:15 PM
Arun Amar, Associate professor and the Director of Endovascular Neurosurgery at the **University of Southern California**
Affiliation: USC Keck School of Medicine

Expanding the frontier of flow diversion for cerebral aneurysms.

4:15-4:30 PM
Session discussion

Friday, March 11th 10:00-11:30 am

B50: (JHU CME) Neurovascular Disorders

Chair: J. Pablo Villablanca
Professor and Chief, Diagnostic Neuroradiology, Director, Interventional Spine Service, Medical Director of MRI, UCLA David Geffen School of Medicine

10:00-10:15 AM
Varun Kshettry
Affiliation: Cleveland Clinic

Meningiomas: clinical mysteries and molecular insights (overview current molecular genetics/epigenetics of meningiomas

10:15-10:30 AM
J. Pablo Villablanca
Affiliation: Professor and Chief, Diagnostic Neuroradiology, Director, Interventional Spine Service, Medical Director of MRI, UCLA David Geffen School of Medicine

Advanced visualization and characterization of cerebral aneurysms including time-resolved CTA and PC- MR flow hemodynamics.

10:30-10:45 AM
George Teitelbaum
Affiliation: Pacific Neuroscience Institute (PNI)

Intracranial aneurysm Pipeline embolization via radial artery approach

10:45-11:00 AM
Viktor Szeder
Affiliation: Medical Director Translational Research Imaging Center, Director of Academic Affairs, Division of Interventional Neuroradiology, Department of Radiology, David Geffen School of Medicine at UCLA

Transvenous endovascular treatment of brain AVMs

11:00-11:30 AM

Session discussion

Friday, March 11th 1:00 - 3:00 PM

B63: (JHU CME) NeuroVascular Disorders

Chairs:

Robert Hariri
Celularity

Abilash Haridas
St Joseph Children's Hospital, St Joseph Hospital

1:00-1:15 PM
Abilash Haridas
Affiiliation: St Joseph Children's Hospital, St Joseph Hospital

Bypass surgery for intracranial stenotic disease

1:15-1:30 PM
Robert Hariri
Affiliation: Celularity

Management of neurotrauma from surgical intervention to stem cell therapy

1:30-1:45 PM
Fabien Scalzo; Associate Professor of Computer Science and Director of the Artificial Intelligence in Imaging and Neuroscience Lab,
Affiliation: Pepperdine & UCLA

Machine Learning in Neurovascular Care

1:45-2:00 PM
Abilash Haridas
Affiliation: St Joseph Children's Hospital, St Joseph Hospital

High grade AVM surgery and nuances

2:00-2:15 PM
Raghu Sampath
Affiliation: Department of Neurosurgery and spine, Northwest Permanente, Oregon

Endoscope use in microsurgical procedures in the CP angle: illustration with two cases

2:15-2:30 PM
Session discussion

Friday, March 11th 3:00-5:00 PM

B76: Cerebrovascular subcommittee meeting

Isaac Yang;

Iype Cherian;

Robert Hariri

Abilash Haridas;

Fawaz Al-Mufti;

Raghu Sampath

Sunday, March 13th 10:00-11:30 PM

D128: (JHU CME) Neurovascular and Skull Base Disorders

Chair:

Reza Jahan
Medical Director Translational Research Imaging Center, Director of Academic Affairs, Division of Interventional Neuroradiology, Department of Radiology, David Geffen School of Medicine at UCLA

Co-chair:

Ashkan Mowla
Keck School of Medicine, University of Southern California (USC)

10:00-10:15 AM
Reza Jahan
Affiliation: Medical Director Translational Research Imaging Center, Director of Academic Affairs, Division of Interventional Neuroradiology, Department of Radiology, David Geffen School of Medicine at UCLA

Ischemic Stroke Intervention

10:15-10:30 AM
TBD
Affiliation: TBD
Email: TBD
TBD

10:30-10:45 AM
Roland Torres, Associate Professor of Neurosurgery at Stanford University Medical center
Affiliation: Department of Neurosurgery, Stanford Univ. Medical School, Stanford, USA.

Traumatic epistaxis: Skull base defects, intracranial complications and neurosurgical considerations

10:45-11:00 AM
Ashkan Mowla
Afiliation: Keck School of Medicine University of Southern California (USC)

Approach on unruptured brain aneurysms.

11:00-11:15 AM
Antonio Bernardo
Affiliation: Weill Cornell Medical College

How to expand surgical corridors in skull base surgery

11:15-11:30 AM
Salman Sharif
Affiliation: Head of Nerosurgery Liaqat Medical School – Karachi Pakistan

Latest on Endoscopic and Open Skull Base

11:30 AM – 11:45 PM
Mohammad Fahmy Zaid
Affiliation: Professor of Neurosurgery, Alexandria University, Egypt
Skull base innovation

11:45-12:00
Session discussion

Sunday, March 13th 1:00 - 3:00 AM
D141: (JHU CME) NeuroVascular Disorders

Abilash Haridas
St Joseph Children's Hospital, St Joseph Hospital
Email: Abilash.Haridas@baycare.org

1:00-1:15 PM
David S Liebeskind
Affiliation: Neurovascular Imaging Research Core, UCLA David Geffen School of Medicine

Innovations in Stroke Precision Medicine

1:15-1:30 PM
Juan Hernandez-Cordero
Affiliation: Universidad Nacional Autonoma de Mexico

Fiber optic devices for hyperthermia therapy

1:30-1:45 PM
George Teitelbaum
Affiliation: Pacific Neuroscience Institute (PNI)

Flow Diversion: Going beyond the Brain

1:45-2:00 PM
Santiago Camacho
Affiliation: Centro de Investigacion Cientifica y Educacion Superior de Ensenada, Mexico

Shapping waveguides in biocompatible YSZ with ultrafast lasers

2:00-2:15 PM
Tom Milner; professor of engineering in the Biomedical Engineering Department at The University of Texas
Affiliation: University of Texas Austin

Optical coherence tomographic imaging of the retina for detection of brain neuropathies

2:15-2:30 PM

Session discussion
Sunday, March 13th 3:30-5:00 PM

D154: (JHU CME) Neurovascular Disorders

Chair:
Abilash Haridas
St Joseph Children's Hospital, St Joseph Hospital

Co-chair:

Fawaz Al-Mufti
Westchester Medical Center at New York Medical College

3:30-3:45 PM
Fawaz Al-Mufti
Affiliation: Westchester Medical Center at New York Medical College

TBD

3:45-4:00 PM
Daniel Hoss

Affiliation: Loma Linda University

Role of carotid artery stenting in the setting of acute stroke.

4:00-4:15 PM
Sam Hou
Affiliation: Providence – St. Joseph's Health Southern California

Carotid Total Occlusion: Is there anything we can do?

4:15-4:30 PM
Ambooj Tiwari
Affiliation: Providence – St. Joseph's Health Southern California

Recurrence and Volumetric Resolution of Subacute and Chronic Subdural Hematoma Post-Middle Meningeal Artery Embolization

4:30-4:45 PM
Steve Lee
Affiliation: Loma Linda University Medical Center

Reconstruction Techniques for Endoscopic Skull Base Surgery

4:45-5:00 PM

Session discussion

Society for Brain Mapping and Therapeutics (SBMT)

Celularity Course on Neurosurgical Innovation

Room Concourse Hall 150 C (Brain and Spine Observatory)

Organizing Committee:

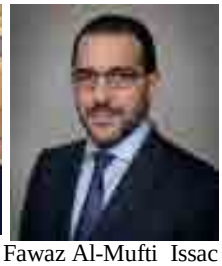

Amin Kasam


Abilash Haridas


Varun R. Kshettry


Farzad Massoudi


Robert Hariri


Fawaz Al-Mufti


Issac Yang


Roghu Sampath

Saturday, March 12th 08:00-12:00 Pm

C79: Celularity Neurovascular, skull base and endovascular Bio-skills labs (Cadaver labs)

1. **Neurotrauma Modules**
   Brain Trauma-Celularity Stem Cell Product product placement
2. **Skull base**

Faculty:

1. Robert Hariri, MD, PhD (Celularity)
2. Abilash Haridas, MD (St Joseph Children's Hospital)
3. Kshettry Varun, MD (Cleveland Clinic)
4. Fawaz Al-Mufti, MD (Westchester Medical Center at New York Medical College)
5. Farzad Massoudi MD (Mission Hospital and Massoudi Charitable Trust)

6. Issac Yang, MD (UCLA)
7. Amin Kasam MD (Northshore University Health Care System Center)
8. Raghu Sampath (University of Oregon)

Course Description:

This course is designed for neurosurgeons with knowledge and experience in endoscopic surgery, neurotrauma, and/or neurovascular surgery. Short lectures and hands on practical training will be provided to the attendees in the following areas:

- Neurotrauma
- Third ventriculostomy

Course Objectives:

At the conclusion of this course, the participant should be able to:

1. Discuss the latest advances in stem cell and Celularity technologies for neurotrauma.

2. Describe treatment strategies for neurovascular disorders.

NEUROTRAUMA MODULES

Faculty: Robert Hariri, MD, PhD, and Abilash Haridas, MD

Brain Trauma:

- Craniotomy/decompressive craniectomy and placement of Celularity stem cell products
- ventriculostomy

SKULL BASE/NEUROENDOSCOPY MODULES

Faculty: Raghu Sampath and Abilash Haridas

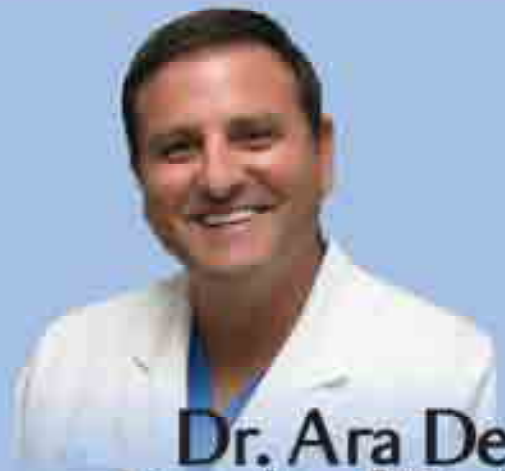
- Third Ventriculostomy

Have you suffered with Back or Neck Pain?

Laser Spine Surgery vs Fusion Surgery
Which is best? Are you a laser surgery candidate?

95% Success
at eliminating pain
from sciatica, herniated or bulging discs,
and other causes of
chronic neck or back pain!

Imagine a life without pain...



Dr. Ara Deukmedjian
Founder of Deuk Spine Institute
Neurosurgeon & Laser Spine Surgery Expert