

SCIENTIFIC PROGRAM



Rio de Janeiro, Brazil



11th Annual N20 Summit
(Brain, Spine & Mental Health)

NEUROSCIENCE20

RIO DE JANEIRO, BRAZIL

NOVEMBER 16-17, 2024

N-20 GLOBAL PARTNERSHIP
FAST TRACKING INNOVATION



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Clube de Aeronáutica COSTA GOLD HALL

7:00 - 8:00 AM

Breakfast and Registration

8:00 - 8:30 AM

Welcoming Ceremony by SBMT Board Members and Dignitaries

8:00 - 8:05 AM



Marcos Wagner, MD

Neurosurgeon, SBMT Board Member and President N20-Brazil

Babak Kateb, MD, PhD

8:05 - 8:10 AM



Chairman of Neuroscience20 (N20), Founding Chairman of the Board of SBMT, President of the World Brain Mapping Foundation (WBMF), Director of the National Center for Nano-Bio-Electronics (NCNBE), Director of Brain Technology and Innovation Park (BTIP), Co-Founder and CEO of Aramis Therapeutics

8:10 - 8:15 AM



Daniel Almeida Filho, MD, PhD

Secretary of Technological Development and Innovation, Ministry of Science, Technology and Innovation, Federative Republic of Brazil; Adjunct Professor, Federal University of Rio Grande do Norte, Brazil

8:15 - 8:20 AM



Vicky Yamamoto, PhD

20th President and Executive Director of SBMT, Cancer Scientist, USC-Keck School of Medicine, Norris Cancer Center

8:20 - 8:25 AM



Lt. Col. Jorge Luiz Amorim Corrêa, MD

Neurosurgeon, Coordinator of the Neurosurgery Service at Galeão Air Force Hospital

8:30 - 8:45 AM

Presidential Plenary Keynote #1



Pedro Doshikazu Pianchao Aihara

Federal Deputy for Minas Gerais, Federative Republic of Brazil
President Comissão da Defesa dos direitos do Idoso na Câmara dos Deputados
(President Committee for the Defense of the Rights of the Elderly in the Chamber of Deputies)



8:45 - 9:30 PM

Panel Discussion #1

Global Policies on Aging, Brain Screening as a Policy for Preventing, Detecting, and Treating Neurological Disorders

Co-Chairs: **Babak Kateb, MD, PhD** and **Marcos Wagner De Sousa Porto, MD**



Hon. Luiz Albuquerque Couto
Federal deputy for Paraíba, Federative Republic of Brazil



Hon. Pedro Doshikazu Pianchao Aihara
Federal deputy for Minas Gerais, Federative Republic of Brazil



Hon. Gildenemir de Lima Sousa
Federal deputy for Maranhão, Federative Republic of Brazil



Hon. Zacharias Calil Hamu
Federal deputy for Goiás, Federative Republic of Brazil



Hon. Flávia Carreiro Albuquerque Moraes
Federal deputy for Goiás, Federative Republic of Brazil



Hon. Ossesio Jose da Silva
Federal deputy for Pernambuco, Federative Republic of Brazil



Hon. Reimont Luiz Otoni Santa Barbara
Federal deputy for Rio de Janeiro, Federative Republic of Brazil



Hon. Geraldo Resende Pereira
Federal deputy for Mato Grosso do Sul, Federative Republic of Brazil



Manuel Hernandez Saazar, MD



Hon. Eric Swalwell
Member of US House of Representatives, Co-chair of Precision Medicine Caucus,
United States of America



9:30 - 9:45 AM

Presidential Plenary Keynote #2



Daniel Almeida Filho, MD PhD

Secretary of Technological Development and Innovation, Ministry of Science, Technology and Innovation, Federative Republic of Brazil; Adjunct Professor, Federal University of Rio Grande do Norte, Brazil

9:45 - 10:10 AM

Photo Op with Dignitaries and Mini Press Conference

10:10 - 10:55 AM

Panel Discussion #2

Brain Health and Screening (From Science to Policy)

Co-Chairs: **Babak Kateb, MD, PhD** and **Deborah Zelinsky, OD**

Panelists:



Karlos Figueiredo, MD

Superintendent of Comprehensive Health Care – SESAB, Bahia Government, Brazil

The Challenge of Internalizing Neurosurgery and Neurology in Brazil - An Example of a Reference Hospital for Neurosurgery in Northeastern Brazil



Wilson Asfora, MD

Professor of Neurosurgery University of South Dakota, USA

Head Trauma and Innovative Solutions from Screening to Treatment



Giulio Maria Pasinetti, MD, PhD

Program Director of the Center on Molecular Integrative Neuroresilience, Saunders Family Chair in Neurology at the Icahn School of Medicine at Mount Sinai (ISMMS) New York City, USA

Brain health and Screening in Neurodegenerative Disorders



Sheila Martins, MD, PhD

Professor of Neurology at Federal University of Rio Grande do Sul and Hospital de Clínicas de Porto Alegre, Brazil

Solutions to Fill the Gaps in Acute Stroke Care



Lidia Gabriela (Gaby) Estrada Gonzalez, MD

Director of Health Services of the State of Mexico, Mexico

The Current State of Pediatric Cancer Therapy in Mexico

10:55 - 11:05 AM

Coffee Break

11:05 - 11:20 AM

Presidential Plenary Keynote #3



(Tentative)

Honorable Eric Swalwell

Member of the US House of Representatives from California, USA

Co-chair of the Precision Medicine Caucus



11:20 – 12:00 PM

Panel Discussion #3

Artificial Intelligence (AI) in Neurotech and Neuroscience

Chair: **Babak Kateb, MD, PhD**

Panelists:



Danubia da Cunha de Sá Caputo, PhD

Professor at State University of Rio de Janeiro (UERJ), Brazil

Whole-Body Vibration Exercise as An Intervention in Neurological Conditions



Babak Kateb, MD, PhD

Chairman of Neuroscience20 (N20), Founding Chairman of the Board of SBMT, President of WBMF, Director of Brain Technology and Innovation Park (BTIP), Co-Founder and CEO of Aramis Therapeutics, USA

Artificial Intelligence, Machine Learning and Robotics



Daniel Diez, MD

CEO of Connectoma Neurotech, Spain

Connectoma Protocol: Present and future of fMRI-guided rTMS in the treatment of mental disorders



Helena Carla Castro PhD

Professor at Federal Fluminense University (UFF), Brazil

How Drug Planning in The Area of Neurosciences Based on Bioinformatics Using Artificial Intelligence



Theodoros Koutsomitros, MD

Director & Founder of Greek rTMS clinic - Medical Psychotherapeutic Centre (IΨΚ), Greece

Noninvasive Brain Stimulation: A New Era of Mental Health Therapies



Jaime Adán, MD

CSO at Connectoma Neurotech. Head of Psychiatry at Ruber Internacional Hospital, Spain

Connectoma Protocol: Present and future of fMRI-guided rTMS in the treatment of mental disorders



Gisele Sampaio Silva, MD, PhD

Professor of Neurology at Federal University of São Paulo (UNIFESP), Brazil

Digital Solutions for Stroke Care and Prevention



Kevin Morris, MD

Academic Affairs Director and Research Scientist and Member of Advisory Board at SBMT, CEO of Aklun Biotech, India

Need for a Robust Policy Framework in Artificial Intelligence and Neurotech



Manuel Hernandez Saazar, MD

Head of the Neurosciences Division CMN, Mexico

Importance of AI in Neurotech



Joe F. Bolanos, MD

Chief Operations Officer, Research Scientist, and Member of Advisory Board at SBMT, USA

How AI and Neuroscience intersect in the 21st Century?



12:00 - 12:10 PM

Coffee Break

12:10 - 12:40 PM

Luncheon Keynotes at Costa Gold Hall

12:10 - 12:25 PM

Presidential Plenary Keynote #4



Giulio Maria Pasinetti, MD, PhD

Program Director of the Center on Molecular Integrative Neuroresilience, Saunders Family Chair in Neurology at the Icahn School of Medicine at Mount Sinai (ISMMS) New York City, USA

State of Science and Technology for the diagnosis and Treatment of Alzheimer Disease and Dementia

12:25 - 12:40 PM

Presidential Plenary Keynote #5



Sheila Martins, MD, PhD

Professor of Neurology at Federal University of Rio Grande do Sul and Hospital de Clínicas de Porto Alegre, Brazil

Global Policy on Stroke Prevention and Treatment

12:40 - 1:30 PM

The Neuroscience20 (N20) Networking Lunch

1:30 - 2:15 PM

Panel Discussion #4

Role of Technology in Clinical Neuroscience Across the G20 Healthcare – From Neuro-oncology to Neurodegenerative Disorders and Neuropsychiatric Diseases

Co-Chairs: Türker Tekin Ergüzel, PhD and Babak Kateb, MD, PhD

Panelists:



Marcos Wagner De Sousa Porto, MD

Neurosurgeon, SBMT Board Member and President N20-Brazil, Brazil

Importance of Integrating New Technologies into Medicine in Brazil in Partnership with N20 across the World



David Baron, MEd, DO, DLFAPA, DFACN

SBMT Board member, Vice President and Provost of and Chief Academic Officer of the Western University of Health Sciences, USA

Role of Technology in Clinical Neuroscience: A Global Translational Perspective

**Turker Tekin Ergüzel, PhD**

Professor of Software Engineering at Üsküdar University, Republic of Türkiye, and Member of Advisory Board of SBMT, USA

AIFER: Artificial Intelligence Based Facial Expression Recognition Application Using Convolutional Neural Networks & CAM Analysis

**Babak Kateb, MD, PhD**

Chairman of Neuroscience20 (N20), Founding Chairman of the Board of SBMT, Co-Founder and CEO of Aramis Therapeutics, USA

AI, Neurophotonics, Quantum Computing, Neuromorphic Computing, Nanoneurosurgery, Nanoneuroscience, Brain Mapping, and Predictive Modeling - their Impact on the Diagnosis and treatment in Cancer and Neurological Disorders

**Alexandre Okano, PhD**

Associate Professor of Neuroscience at the Center for Mathematics, Computing, and Cognition at the Federal University of ABC (UFABC), Brazil

Neuromodulation in High-Performance Sports: Enhancing Athletic Performance through Technology

**Vicky Yamamoto PhD**

20th President and Executive Director of SBMT, Cancer Scientist, USC-Keck School of Medicine, Norris Cancer Center, USA

Future of Cancer Prevention, Diagnosis and Therapy in the era of Artificial Intelligence

**Daniel Almeida Filho**

Assistant to the Minister, Ministry of Science, Technology and Innovation, Federative Republic of Brazil; Adjunct Professor, Federal University of Rio Grande do Norte, Brazil

Role of Technology in Brazil

**Gildardo Cortes Julian, MD**

Cardiothoracic surgeon Hospital Puerta De Hierro Andares, Mexico

Stroke and Cerebral Death in Connection with Organ Donation

**Beverly Cheserem, MD, BM(Hons), FRCS Neurosurgery**

Assistant Professor and Consultant Neurosurgeon, Chair Kenya Association of Women Surgeons Member, Global Neurosurgery Committee

Neuro-oncology in Sub Saharan Africa

**Kevin Morris, MD**

Academic Affairs Director and Research Scientist and Member of Advisory Board at SBMT, CEO of Aklun Biotech, India

Bridging the Gaps in Current Technological Advancements in Low Income Countries

2:15 - 2:25 PM

Coffee Break

2:25 - 2:40 PM

Presidential Plenary Keynote #6

**Lt. Col Jorge Luiz Amorin Corrêa, MD**

Neurosurgeon, Coordinator of the Neurosurgery Service at Galeão Air Force Hospital

Current and Future Directions in Neurotechnology in Brazil



2:40 - 2:50 PM

Presidential Plenary Keynote #7



Babak Kateb, MD, PhD

Chairman of Neuroscience20 (N20), Founding Chairman of the Board of SBMT, President of WBMF, Director of Brain Technology and Innovation Park (BTIP), Co-Founder and CEO of Aramis Therapeutics, USA

Quantum Computing, Neuromorphic Computing, Neurophotonics, Nanoneurosurgery, AI and Predictive Modeling in Healthcare

2:50 - 3:00 PM

Coffee Break

3:00 - 3:40 PM

Global Forum on Psychiatry

Co-Chairs: **Veviane Spergue, David Baron, MEd, DO, DLFAPA, DFACN and Keerthy Sunder, MD, DFAPA, FASAM**

Forum Panelists:



Keerthy Sunder, MD, DFAPA, FASAM

CMO of Karma Doctors & Associates, Medical Director, Karma TMS, Adjunct Professor, Southern California University of Health Sciences, Assistant Clinical Professor at UC Riverside School of Medicine, Board Member of SBMT, USA

Advances in Neuromodulation in Psychiatry



Deborah Zelinsky, OD

21st President of SBMT, Founder of Mind Eye Connection, Northbrook, Illinois, USA

Future of Optometry



Kasif Nevzat Tarhan MD, PhD

Professor of Psychiatry at Üsküdar University, Republic of Türkiye, Co-chair of the Psychiatry Consortium of SBMT, USA

What is the Promise of Neuromodulation Treatment in Addiction Psychiatry?



Theodoros Koutsomitros, MD

Director & Founder of Greek rTMS clinic - Medical Psychotherapeutic Centre (ΙΨΚ), Greece

Future of Neurotechnology in Psychiatry



Manuel Hernandez Saazar, MD

Head of the Neurosciences Division CMN, Mexico

Psychiatry from the Viewpoint of Mexico

3:40 - 3:50 PM

Coffee Break



3:50 - 4:30 PM

Global Forum on Autism

Chair: **Veviane Spergue** and **Antonio Lima Junior, MD**

Forum Panelists:



Veviane Spergue

Psychologist, Neuropsychologist and Cognitive Behavioral Therapist

The Human and Financial Cost of Autism to the Brazilian Economy



Heloisa Viscaino Pereira, MD, PhD

Associate Professor of State University of Rio de Janeiro UERJ, Head of the Autism Program of Rede D'or São Luiz, Brazil

The Importance of Comprehensive Care for Autism Spectrum Disorder Over the Lifespan



Thiago Gusmão, MS

CEO and Director of Neurology at CasAbility, Brazil

Worldwide Impact of Autism: Adolescence and Transition to Adulthood



Renata Esteves, JD

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

Self Under the Eyes of an Autism Mother and Wife

4:30 - 4:40 PM

Coffee Break

4:40 - 5:20 PM

Global Forum on Epilepsy

Co-Chairs: **Li Li Min, MD, PhD, BBA** and **Dawn Eliashiv, MD**

Forum Panelists:



Aline Priscila Pansani, PhD

Professor of the Department of Physiological Sciences, Institute of Biological Sciences, Federal University of Goiás (UFG), Brazil

SUDEP: The Importance of Awareness and Prevention Strategies



Maria Emilia Cosenza Andraus, MD, PhD

Professor of the Department of Internal Medicine/Neurology, Faculty of Medicine, Federal University of Rio de Janeiro, Brazil

Accelerating Solutions for Global Epilepsy with Novel Diagnostics and Apps (The AGENDA Study)



Li Li Min, MD, PhD, BBA

Professor of Neurology, University of Campinas, School of Medicine, Brazil

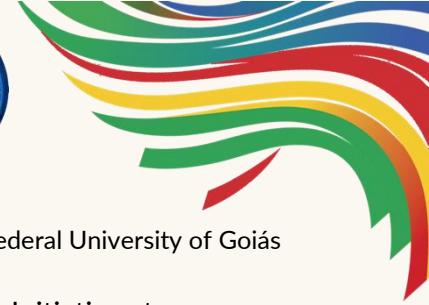
Advances in Neurostimulation for Epilepsy Treatment



Dawn Eliashiv, MD

SBMT Board Member, Professor of Neurology, UCLA, USA

Global Expansion of New Technologies in Epilepsy on Healthcare Policy Ramifications



Diego Basile Colugnati, PhD

Professor and Vice-Head of the Department of Physiological Science, Federal University of Goiás - UFG, Brazil

The Importance of Promoting Effective Translational Research Initiatives to Understand and Prevent SUDEP

5:20 - 5:30 PM

Coffee Break

5:30 - 6:10 PM

Global Forum on Cerebrovascular Diseases and Stroke

Co-Chairs: **Sheila Martins, MD, PhD** and **Gildardo Cortes-Julian, MD**

Forum Panelists:



Raul G. Nogueira, MD, FAHA, FSVIN

Endowed Professor of Neurology and Neurosurgery, University of Pittsburgh, USA
Advanced Acute Stroke Care for all?



André Ramos

CEO of Mindify, Brazil
Technology can help in stroke care?



Thais Melo

Angels Initiative, Brazil
Angels Initiative: Qualifying Acute Stroke Care Globally



Marcos Wagner de Souza Porto, MD

Neurosurgeon, SBMT Board Member and President N20-Brazil
Neurosurgery in cerebrovascular disease - what are the gaps and potential solutions?



Sheila Martins, MD, PhD

Professor of Neurology at Federal University of Rio Grande do Sul and Hospital de Clínicas de Porto Alegre, Brazil
The global gaps in Stroke care and the World Stroke Organization Initiatives to Accelerate the Implementation



Maria Fredin Gruper

Executive Director WSO, Switzerland
Global Coalition for Stroke



Gildardo Cortes Julian, MD

Cardiothoracic surgeon Hospital Puerta De Hierro Andares, Mexico
Coordination and management of cerebrovascular disorders across G20

6:10 - 6:20 PM

Coffee Break



6:20 - 7:00 PM

Global Forum on Neurotrauma

Chair: **Ana Cristina Veiga Silva, MD, MSc** and **Euler Sauaia, MD**

Forum Panelists:



Ana Cristina Veiga, MD, MSc

Neurosurgeon, VP ANPALOP - Neurosurgeons Association of Portuguese-speaking African Countries, Republic of Cabo Verde

Cost of Traumatic Brain Injury (TBI) to Portuguese-speaking African Countries such as Cape Verde, Mozambique, Angola



Youghong Wang, MD

Shanxi Bethune Hospital, Shanxi Academy of Medical Sciences, Third Hospital of Shanxi Medical University, Tongji Shanxi Hospital, Taiyuan, People's Republic of China

Impact of Brain Cisternostomy in a Trauma center



Luan Messias Magalhães, MD

Neurosurgeon Instituto De Neurocirurgia and Neurologia Da Amazonia Ocidental Inao, Brazil

The Price of Progress: Unveiling the Link Between Deforestation and Spinal Fractures



Marina Leiko Higa, PRF

Head of the Forensic and Accident Registration Service, Rio De Janeiro, Brazil

Trauma Reduction Actions



Kevin Morris, MD

Academic Affairs Director and Research Scientist and Member of Advisory Board at SBMT, CEO of Aklun Biotech, India

Neurotrauma from the Indian Perspective: Challenges, Advances, and the Road Ahead



Ignatius N Esene, MD, M.Sc, PhD, MPH

Neurosurgery Division, Faculty of Health Sciences, University of Bamenda, Cameroon

Neurotrauma and Global Neurosurgery



Marcos Wagner De Sousa Porto, MD

Neurosurgeon, SBMT Board Member and President N20-Brazil

Accidents and Impacts on Brazil's Healthcare System



Bruno Côrtes, MD

Chief of Neurosurgery Service of HMSA – RJ, Brazil

Firearm-Related Traumatic Brain Injury



Alex Adeodato, DVM, PhD

President of ABNV (Brazilian Association of Veterinary Neurology), Brazil

Technological Advances in Veterinary Neurology: From Diagnosis to Treatment

7:00 - 8:00 PM

11th Annual Neuroscience20 (N20) Summit Resolution Agreement and Signing

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