



UNITED Scientific Group
A non-profit organization



NDS-2022

July 18-21, 2022 | San Francisco, CA

7th

NEUROLOGICAL DISORDERS SUMMIT

2022

July 18-21, 2022 | San Francisco, CA

DoubleTree by Hilton San Francisco Airport

Hybrid Meeting

Join the meeting

<https://us06web.zoom.us/j/81361558338?pwd=a1dpMi9BTW5ZZWZ2WTgvZXRGUjBWQT09>

Meeting ID: **813 6155 8338**

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The future of research and health



About Us

It is our mission to make metabolomics accessible to facilitate breakthroughs in biomedical research. With our pioneering phenotyping products and services, we help scientists and researchers gather new insights about disease prevention and personalized health.



Biotech company for targeted metabolomics kit and services technology in Innsbruck, Austria



> 15 years of experience, biocrates technology was utilized in thousands of publications and by hundreds of scientists in pharma, academia and health institutions



Fully integrated mass spectrometry-based solutions for metabolic & functional microbial phenotyping across all indication areas



Kit technology empowers quantitative analysis of thousands of endogenous metabolites. We provide additional statistical analysis and biological interpretation services



Customer base includes global tier 1 pharma and academic customer as well as national health organizations. A global community of more than 100 core facilities and commercial CROs.

Note: For research use only | not for diagnostic procedures

biocrates life sciences ag

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About Us

Since 2005, BEE Medic GmbH has been developing high-end systems for non-invasive Neurotherapy and diagnostics.

We focus on the development, manufacture, and marketing of neurofeedback systems with product groups for the ambulatory and clinical sector as well as systems for EEG/ERP diagnostics. Our products aim to improve the self-regulating ability of the brain and are used in the treatment of neurological mental diseases.

We are specialists in EEG-based neurotechnology and signal processing. A passionate team of interdisciplinary experts consisting of engineers, neurobiologists, software developers, and therapists works on improving our systems on the basis of user-oriented research and current technological standards.

The BEE Medic GmbH offers innovative solutions for neurofeedback and EEG-/ERP-diagnostics with maximum precision, which meet various requirements and at the same time convince by user-friendliness.

Do you have questions related to Neurofeedback, do you wish a personal consultation?

<https://www.beemedic.com>



People. Passion. Possibilities.®

We're a company that takes on the toughest health challenges. But we do more than treat diseases—we aim to make a remarkable impact on people's lives.

The pursuit of scientific breakthroughs is more important than ever.

It takes unwavering commitment and confidence to bring solutions from the petri dish to patients. And it requires a continued investment in innovation to address the known and unknown challenges of tomorrow.

Since our launch in 2013, we have invested ~\$50 billion in research to discover, develop and deliver new medicines. We target diseases with significant unmet need where we can improve the standard of care with innovative new therapies. We're constantly working to create solutions that go beyond treating the illness to have a positive impact on patients' lives, on societies—and on science itself.

Today, our ~50,000 employees around the world focus on discovering and delivering transformational medicines and products in several key therapeutic areas: immunology, oncology, neuroscience, eye care, virology, and women's health, as well as through our Allergan Aesthetics portfolio.

We care deeply for patients and customers, their families, our employees, and our communities. We strive to always do the right thing, pursuing the highest standards in quality, compliance, safety, and performance. We embrace diverse backgrounds and perspectives and treat everyone equally, with dignity and respect, allowing us all to achieve our best.

Our commitment to health doesn't stop with our medicines. Each day, we work to deliver sustainable solutions that improve the health of our business and the health of humankind.

08:00-08:20 **Registration and Conference Material Collection**

08:20-08:30 **Introduction**

Chair: Rajendra Badgaiyan, University of Texas Health, USA

Keynote

SIERRA-B

08:30-09:10 **Role of Gut Microbiota-derived Metabolites in Neurodegenerative Disorders Involving Protein Misfolding and C9orf72 Expansion**

Giulio M Pasinetti, Icahn School of Medicine at Mount Sinai, USA

09:10-09:50 **Brain, Pain and Environment**

Kalpna Gupta, University of California-Irvine, USA

09:50-10:30 **Do We Stand on Solid in Administering Aducanumab to Patients with Alzheimer's Disease?**

Jin Jun Luo, Temple University, USA

10:30-10:50 **Coffee Break**

FOYER AREA

10:50-11:30 **Real-time Measurement of Dopamine Released in the Live Human Brain**

Rajendra Badgaiyan, University of Texas Health, USA

11:30-12:10 **Genetic Addiction Risk Severity Test Applications for Reward Deficiency Syndrome: The Future is Now**

Kenneth Blum, Western University College of Medicine, USA

Session 1: Alzheimer's Disease, Dementia and Mild Cognitive Impairment SIERRA-B

Chair: Jin Jun Luo, Temple University, USA

Oral

12:10-12:35 **Protein-protein-metal Networks in the Brain of Alzheimer's Disease**

Hyuck Jin Lee, Kongju National University, S. Korea

12:35-13:00 **The Impact of the Pandemic on Demented Patients**

Stavropoulou De Lorenzo Sotiria, Athens Naval Hospital, Greece

13:00-13:25 **Cognitive and Behavioral Domains that Differentiate between Normal Aging and Alzheimer's Disease Dementia in Down Syndrome**

Christy Hom, University of California-Irvine, USA

13:25-14:25 **Lunch Break**

COURTYARD

Chair: Kristyna Karova, Institute of Experimental Medicine CAS, Czech Republic

- 14:25-14:50 **How does Breathing Polluted Air Compares with Breathing Fresh Air in Causing a Stroke in Adults: Overview of Reviews**
Priyal, Lady Hardinge Medical College, India
- 14:50-15:15 **Treating Elevated Lp(a) and Ischemic Cerebral Vascular Events with Lipoprotein-apheresis**
Patrick M. Moriarty, University of Kansas Medical Center, USA
- 15:15-15:40 **Use of Optokinetic Chart Stimulation to Reduce Chronic Spasticity in People with Stroke and Traumatic Brain Injuries: a Retrospective Case Series**
Benjamin Chitambira, Neurorestorative and Neurorehabilitation Solutions Ltd, UK
- 15:40-16:05 **PI3K Gene Therapy for Axon Regrowth and Functional Improvement after Spinal Cord Injury**
Kristyna Karova, Institute of Experimental Medicine CAS, Czech Republic
- 16:05-16:30 **Gender Diversity in Neurosurgery: One Major Advance and the Road Ahead**
Mihir Gupta, University of California, USA

Invited Talk

- 16:30-17:10 **Cannabis and Cannabinoids in Pain: Lessons Learned**
Donald I. Abrams, University of California San Francisco, USA

17:10-17:40 Poster Setup Break

17:40-18:40 Poster Presentations & Drinks REDWOOD - SEQUOIA

- NDS-P01** **Oligodendrocyte Precursor Cells Response after Focal Cerebral Ischemia**
Maria Jose Perez Alvarez, Universidad Autonoma de Madrid, Spain
Mario Villa Gonzalez, Universidad Autonoma de Madrid, Spain
- NDS-P02** **Impact of COVID-19 Stroke Epidemiology and Clinical Stroke Practice at UTMB**
Sheina Duncan, The University of Texas Medical Branch at Galveston, USA
- NDS-P03** **Ubisol-Q10 and Ashwagandha Root Extract Target Multiple AD-Associated Biochemical Mechanisms Ameliorating AD Pathologies**
Darcy Wear, University of Windsor, Canada
- NDS-P04** **Anti-inflammatory and Neuroprotective Effects of a Novel Water-soluble Formulation of Coenzyme-Q10 and Ashwagandha Root Extract in a Paraquat Induced Rat Model of Parkinson's Disease**
Caleb Vegh, University of Windsor, Canada
- NDS-P05** **Human Amniotic Epithelial Cells Recover Mouse Model of Parkinson's Disease mainly by Anti-oxidative and Anti-inflammatory Factors**
Wei-Qiang Gao, Shanghai Jiao Tong University, China
- NDS-P06** **Computational Analysis of the Wrist: Benefits of a Gyroscope in Terms of Reducing Tremor in Parkinson's Disease Patients**
Shaye Tiell, Cleveland State University, USA

- NDS-P07** **A FRET-based Probe for Monitoring Metal–Amyloid- β Complexation**
Hyuck Jin Lee, Kongju National University, S. Korea
- NDS-P08** **Asymptomatic Idiopathic Basal Ganglia Calcification with Severe Cerebral Atrophy: A Unique Case Report on Fahr’s Syndrome**
Solomon Sriharsha Nittala, Larkin Community Hospital, USA
- NDS-P09** **Two Cases of MOG Antibody-associated Demyelinating Diseases Preceded by Epstein-Barr Virus Infection**
Evien Albazi, Michigan State University College of Human Medicine, USA
- NDS-P10** **Augmenting Psilocybin Assisted Psychotherapy with Brain Stimulation (rTMS) for Chronic PTSD: Proof of Concept Study**
Edward J Goldschmidt, Cooper Medical School of Rowan University, USA
- NDS-P11** **Everything is as Before, but Nothing is as it was’ –A Phenomenological-hermeneutic Study of Meaningfulness in Adult Refractory Epilepsy Patient’s after Interdisciplinary Epilepsy Rehabilitation**
Trine Arnam Olsen Moos, The Danish National Epilepsy Center, Denmark
- NDS-P12** **Sub-components of Reading and their Effects on Recovery in Left-stroke Patients**
Nicole Giordano, Kessler Foundation, USA
- NDS-P13** **Increased Incidence of Stroke in Multiple Sclerosis: Shared Genes Between the Two Diseases**
Stavropoulou De Lorenzo Sotiria, Athens Naval Hospital, Greece
- NDS-P14** **Mild Cognitive Impairment and Social Cognition Impairment in Parkinson’s Diseases**
Stavropoulou De Lorenzo Sotiria, Athens Naval Hospital, Greece

19:00-20:00 Dinner

End of Day 1

Session 3: Autism and Neurodevelopmental Disorders**SIERRA-B****Chair:** Rajendra Badgaiyan, University of Texas Health, USA

- 08:00-08:25 **Comparison of Adaptive Socialization Skills and Brain Volumes in a Prospectively Gathered School-age Sample of DS and ASD**
Alapika Jatkar, UNC School of Medicine, USA
- 08:25-08:50 **The Pupillary Light Reflex in Autism Spectrum Disorder: Sensitivity and Specificity in Children 6-17 Years using Monocular Pupillometry**
Georgina T Lynch, Elson S. Floyd College of Medicine, Washington State University, USA
- 08:50-09:15 **10 Years Retrospective Study of ADHD in Children Aged 3 to 7 Years in our Clinic**
Neena Shilen, Sunrise Institute of Medical Sciences, India

E-talk

- 09:15-09:40 **Preterm Birth Compromises Development of the Cerebellum and Hippocampus: Evidence from a Large Animal Pig Model**
Victor Chizhikov, University of Tennessee Health Science Center, USA

Session 4: Neurological Disorders: Diagnostics, Treatments and Rehabilitation**SIERRA-B****Chair:** Shaun Kornfeld, Plasticity Centers, USA

- 09:40-10:05 **Hiccup Severity and Prevalence in U.S. Cancer Populations: a Nationwide Survey of Healthcare Professionals**
Carol Lipshultz, Meter Health, USA
- 10:05-10:30 **A Case Reflection – Thallium Poisoning**
Simeon Zou, Bronson Health Group, USA
- 10:30-10:55 **A Novel, Multimodal, Rehabilitative Approach to Improve Stability in People with Multiple Sclerosis**
Shaun Kornfeld, Plasticity Centers, USA
- 10:55-11:10 Coffee Break **FOYER AREA**
- 11:10-11:35 **Cognitive Impairment and Social Cognition Impairment in Patients with Multiple Sclerosis**
Stavropoulou De Lorenzo Sotiria, Athens Naval Hospital, Greece
- 11:35-12:00 **Rehabilitation of Persistent Headache and Neurocognitive Deficits following Concussion in a 38-year-old Female: Case Study**
Shaun Kornfeld, Plasticity Centers, USA
- 12:00-12:25 **Remote Monitoring of Patients with Neurological Disorders**
Marc Fischer, Dogtown Media and National Institutes of Health, USA

12:25-12:50 **Characteristics of Neuronal Responses of the Somatosensory Cortex in WAG/Rij Rats to Vibrissa Stimulation Area**
Daria Tsvetaeva, Mental Health Research Centre, Russia

Exhibitor Talk

12:50-13:25 **Introduction to Neurofeedback**
Jessi Fehrenbach, BEE Medic, USA
Radu Puchiu, BEE Medic, USA

13:25-14:25 Lunch

COURTYARD

End of Day 2

07:20-07:30 (ET) Introduction
04:20-04:30 (PT)

Session 5: Alzheimer's Disease, Parkinson's Disease

Chair: Jun Li, The University of Texas Health Science Center, USA

Keynote

07:30-08:10 (ET) **Somatic Mutations as Potential Drivers of Neurodegeneration**
04:30-05:10 (PT) **Illana Gozes**, Elton Lab. for Molecular Neuroendocrinology, Israel

E-talk

08:10-08:30 (ET) **Care for Older Adults with Dementia: PACE Day Care or Residential Dementia Care Units?**
05:10-05:30 (PT) **LiangYu Chen**, Taipei Veterans General Hospital, Taiwan

08:30-08:50 (ET) **Fecal Microbiota Transplantation for the Treatment of Alzheimer's Disease**
05:30-05:50 (PT) **R. M. Damian Holsinger**, The University of Sydney, Australia

08:50-09:10 (ET) **Study on the Effect of Health Qigong on Improving the Difficulty of Nighttime Sleep Maintenance in Patients with Parkinson's Disease**
05:50-06:10 (PT) **Xiaolei Liu**, Beijing Sport University, China

09:10-09:30 (ET) **Effect of Health Qigong Exercise on Flexibility of Upper Limbs in Patients with Parkinson's Disease**
06:10-06:30 (PT) **Xiaowen Wang**, Beijing Sport University, China

09:30-09:50 (ET) **Effects of Health Qigong Exercise on Depression in Patients with Parkinson's Disease**
06:30-06:50 (PT) **Rui Yang**, Beijing Sport University, China

09:50-10:00 (ET) Break
06:50-07:00 (PT)

10:00-10:20 (ET) **Inhibiting EZH2 is Neuroprotective after Stroke in Aged Mice**
07:00-07:20 (PT) **Jun Li**, The University of Texas Health Science Center, USA

10:20-10:40 (ET) **Effects of Health Qigong on Functional Mobility in Patients with Parkinson's Disease**
07:20-07:40 (PT) **Han Yang**, Beijing Sport University, China

10:40-11:00 (ET) **The Efficacy of Taijiquan Exercise in Mild to Moderate Parkinson Patients Under Different Control Interventions Meta-analysis**
07:40-08:00 (PT) **Yan Zhang**, Beijing Sport University, China

11:00-11:20 (ET) **The Effect of Baduanjin Intervention on Patients with Mild to Moderate Parkinson's Disease: Meta analysis**
08:00-08:20 (PT) **Yeming Weng**, Beijing Sport University, China

- 11:20-11:40 (ET) **Effects of Health Qigong Exercises on Lower Limb Agility in Patients with Parkinson's Disease**
08:20-08:40 (PT) **Tiyanan Yuan**, Beijing Sport University, China
- 11:40-12:00 (ET) **Effects of Health Qigong Baduanjin Exercises on the Refreshing Capability of Executive Function in the Elderly**
08:40-09:00 (PT) **Xiyang Li**, Beijing University of Civil Engineering and Architecture, China
- 12:00-12:20 (ET) **Effects of Health Qigong Exercise on Clinical Motor Function in Parkinson's Disease**
09:00-09:20 (PT) **Chuanfen Lv**, Zhengzhou University of Light Industry, China
- 12:20-12:40 (ET) **Effect of Qigong Exercise on Gait in Patients with Parkinson's Disease**
09:20-09:40 (PT) **Tingting Liu**, Beijing Sport University, China
- 12:40-12:50 (ET) **A Case of Hepatic Encephalopathy Masquerading as Parkinsonism Unmasked by Classic Brain Imaging Findings: A Case Report**
09:40-09:50 (PT) **Abhinay Reddy Koppula**, Apollo Medical College, India
- 12:50-13:10 (ET) Break
09:50-10:10 (PT)

Session 6: Autism & Neurodevelopmental Disorders

- 13:10-13:30 (ET) **Decreased Interactions between Calmodulin and a Mutant Huntingtin Model Might Reduce the Cytotoxic Level of Intracellular Ca²⁺: a Molecular Dynamics Study**
10:10-10:30 (PT) **Sanda Nastasia Moldovean**, Babeş-Bolyai University, Romania
- 13:30-13:50 (ET) **Trick or Treat: A Case of Seronegative Listeria Meningoencephalitis**
10:30-10:50 (PT) **Alba Coraini**, North Shore Medical Center, USA
- 13:50-14:10 (ET) **The Effect of Eight-style Tai Chi on Improving the Balance Ability of Children with Moderate Intellectual Disabilities**
10:50-11:10 (PT) **Aiwen Liu**, California Baptist University, USA
- 14:10-14:30 (ET) **An Unusual Presentation of Altered Mental Status: Is the Answer Hidden in the Woods or Blood?**
11:10-11:30 (PT) **Alba Coraini**, North Shore Medical Center, USA
- 14:30-14:50 (ET) **What is Cerebral Palsy?**
11:30-11:50 (PT) **Belenky Vadim**, Arsvita Clinic, Russia
- 14:50-15:10 (ET) **When Zoster Doesn't Come Alone: A Rare Case of Meningoradiculopathy**
11:50-12:10 (PT) **Marta Mora**, North Shore Medical Center, USA

End of Day 3

Session 7: Stroke, Migraine & Headache**Chair:** Yuko Harada, Kawasaki Municipal Ida Hospital, Japan**E-talk**

- 07:00-07:20 (ET) **Atypical Brain Stroke with Peripartum Cardiomyopathy**
04:00-04:20 (PT) **Yuko Harada**, Kawasaki Municipal Ida Hospital, Japan
- 07:20-07:40 (ET) **Delayed Anastomotic Occlusion after Direct Revascularization in**
04:20-04:40 (PT) **Adult Hemorrhagic Moyamoya Disease**
Fa Lin, Capital Medical University, China

E-poster

- 07:40-07:50 (ET) **Effects of Combination of Baduanjin with Different Control Measures on Motor**
04:40-04:50 (PT) **Function and Balance Ability of Stroke Patients**
Yuqing Xuan, Beijing Sport University, China
- 07:50-08:00 (ET) **Effect of Perceived Sleep Quality on Subjective and Objective Working Memory**
04:50-05:00 (PT) **Performance Among Veterans with mTBI**
Hanaa Al-Dasouqi, Stanford University School of Medicine, USA

Session 8: Neurological Disorders: Prevention, Treatments, and Rehabilitation**Chair:** Felix-Martin Werner, Euro Akademie Pößneck, Germany**E-talk**

- 08:00-08:20 (ET) **Green Tea Suppresses Brain Aging**
05:00-05:20 (PT) **Keiko Unno**, University of Shizuoka, Japan
- 08:20-08:40 (ET) **Effect of Healthy Qigong Intervention on Cognitive Function in Middle-aged and**
05:20-05:40 (PT) **Old Age**
Qianyi Zhang, Beijing Sport University, China
- 08:40-09:00 (ET) **Study Effects of Health Qigong Baduanjin Exercises on the Inhibitory Ability of**
05:40-06:00 (PT) **Executive Function in the Elderly**
Zhe Zhang, Beijing University of Civil Engineering and Architecture, China
- 09:00-09:20 (ET) **Health Qigong Exercising Effects of Middle-aged and Elderly Women's Execution**
06:00-06:20 (PT) **Function: A Randomized Controlled Trial**
Jingyuan Han, Beijing Sport University, China
- 09:20-09:40 (ET) **New Detection Technology Based on Fiber Optic Nanogold-linked Immunosorbent**
06:20-06:40 (PT) **Assay for Rapid Glial Fibrillary Acidic Protein (GFAP) Determination in Stroke**
Patients
Ting-Chou Chang, National Chung Cheng University, Taiwan

09:40-10:00 (ET) **Therapeutic Effect of Novel Antipsychotic Drugs Acting at Receptors of Neurotransmitters and Neuropeptides**
06:40-07:00 (PT) **Felix-Martin Werner**, Euro Akademie Pößneck, Germany

10:00-10:20 (ET) Break
07:00-07:20 (PT)

10:20-10:40 (ET) **A Missing Link, Regarding Central and Peripheral Neurophysiological Changes of Significant Importance for Better Understanding Recurrent Multiple Pain**
07:20-07:40 (PT) **Gosta Alfven**, Clintec, Karolinska Institute, Sweden

10:40-11:00 (ET) **Features of the Course of Bright-fan-schwartz Disease in the Yakut Family**
07:40-08:00 (PT) **Tatyana Davydova Kimovna**, Russian Federation

11:00-11:20 (ET) **Dysregulated OGF Serum Levels in Multiple Sclerosis and Animal Models of Experimental Autoimmune Encephalomyelitis Correlate with Disease**
08:00-08:20 (PT) **Gary Thomas**, Penn State College of Medicine, USA

11:20-11:40 (ET) **The Role of Creative Tasks in Neurorehabilitation after a Severe Coronavirus Disease**
08:20-08:40 (PT) **Yurii Vorokhta**, Odesa International Medical University, Ukraine

11:40-12:00 (ET) **Cognitive Dysfunction in Patients with Postcovid Syndrome: The Role of Stenotic Changes in the Carotid Arteries**
08:40-09:00 (PT) **Marina Vikarenko**, MC Expert Health, Ukraine

12:00-12:10 (ET) **Case Report on White Epidermoid Cyst and Review of Its Literature**
09:00-09:10 (PT) **Bharath Korrapati**, Sri Venkateshwara Medical College, India

12:10-12:20 (ET) **Cardiac Rhabdomyoma with Tuberos Sclerosis – A Case of Unresponsive Seizures**
09:10-09:20 (PT) **Akshitha Palabindela**, RVMIMS, India

E-poster

12:20-12:30 (ET) **Evaluation of National Disparities in Access to Neurosurgical Care**
09:20-09:30 (PT) **Emily Smith**, Carle Illinois College of Medicine, USA

12:30-12:40 (ET) **Identifying Neural Patterns and Biomarkers of ASD through Multi-phase Resting-state Functional MRI Analysis**
09:30-09:40 (PT) **Ella Yee**, The Harker School, USA

12:40-12:50 (ET) **A Tripartite Memory Systems Model of Neurodegenerative Disease**
09:40-09:50 (PT) **Bryan D. Devan**, Towson University, USA

12:50-13:00 (ET) **The Desensitization of the Transient Receptor Potential Vanilloid 1 by Nonpungent Agonists and It's Resensitization by Bradykinin**
09:50-10:00 (PT) **Ayman G. Mustafa**, Qatar University, Qatar

End of Day 4

We wish to see you in
NDS-2023



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