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NDS
June 12-15, 2023 | Rome, Italy

NEUROLOGICAL DISORDERS SUMMIT **2023**

June 12-14, 2023 | In-person | Rome, Italy
June 15, 2023 | Online | Zoom

Hotel NH Collection Roma Centro,
Via dei Gracchi,
324, 00192 Roma RM, Italy



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Web: www.neurodisordersconference.com

Sponsor

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

08:20-08:30 Introduction

08:30-12:10 **Keynote Session****Chair: Rajendra Badgaiyan**, University of Texas Health, USA**Future Treatment of Neurodegenerative Diseases; Why Multi-target Novel Drugs****Moussa B.H. Youdim**, Youdim Pharmaceuticals, Israel**Biography:**

Moussa B. H. Youdim is an internationally renowned Israeli neuroscientist specializing in neurochemistry and neuropharmacology. He is the discoverer of both monoamine oxidase (MAO) B inhibitors l-deprenyl (Selegiline) and rasagiline (Azilect) as anti-Parkinson drugs which possess neuroprotective activities. He is currently Professor Emeritus at Technion - Faculty of Medicine and President of Youdim Pharmaceuticals.

**HIV Infection of iPSC-derived Microglia-containing Cerebral Organoids****Wenzhe Ho**, Temple University Medical School, USA**Biography:**

Dr. Wen-Zhe Ho is a Tenure Professor at the Department of Pathology and Laboratory Medicine, Temple University School of Medicine and Director of Center for Animal Experiment/ABSL III Lab, Professor of Key Laboratory of Virology, Wuhan University School of Medicine. Dr. Ho received his medical, research and public health training at the Wuhan University School of Medicine in China and the University of Pennsylvania School of Medicine. Since 1993 he served on the faculty of the University of Pennsylvania School of Medicine until joining the Temple University School of Medicine in September, 2009. Dr. Ho also serves as Editor in Chief of Virology: Research and Treatment, a member of editorial board of J. NeuroVirology, J. NeuroImmune Pharmacology, and Chinese J. Pediatrics (International Edition). Dr. Ho's research work has produced over 110 peer-reviewed articles and 18 editorials, reviews and chapters.

**TBA****Jin Jun Luo**, Temple University Medical School, USA**Biography:**

Dr. Jin Jun Luo, MD, PhD, FAAN, FAANEM, is Professor of Neurology, director of EMG and Neuromuscular Medicine at Temple University School of Medicine in Philadelphia, Pennsylvania, USA. He is board certified in Neurology, Clinical Neurophysiology, Neuromuscular Medicine and Electrodiagnostic Medicine. He is a fellow member of American Academy of Neurology and American Association of Neuromuscular and Electrodiagnostic medicine, and a member of the Philadelphia Neurological Society and American Clinical Neurophysiology Society. He serves the Editor-in-Chief of the He serves the Editor-in-Chief of the Journal of Neurology and Experimental Neuroscience. He is interested in clinical and translational neuroscience research.



TBA

Rajendra Badgaiyan, University of Texas Health, San Antonio, USA

Biography:

Dr. Rajendra D. Badgaiyan, MD, is a psychiatrist and cognitive neuroscientist. He is Professor of Psychiatry at Icahn School of Medicine at Mount Sinai in New York. He was awarded the prestigious BK Anand National Research Prize in India and Solomon Award of Harvard Medical School. His research is focused on the study of neural and neurochemical mechanisms that control human brain functions. He developed the single scan dynamic molecular imaging technique (SDMIT) to detect, map, and measure neurotransmitters released acutely in the human brain during task performance. Using this technique, he studies dopaminergic control of human cognition and behaviour.



Role of Hematopoietic Cells in Gut Microbiome Mediated Immunity in Alzheimer's disease Modifying Strategies

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

Biography:

Dr. Giulio Maria Pasinetti, The Saunders Family Chair and Professor of Neurology, received an M.D. from the Milan University School of Medicine and a Ph.D. from the University of Milan. He is currently the Program Director of the NIH funded Mount Sinai Center for Molecular Integrative Neuroresilience and the Chief of the Brain Institute Center of Excellence for Novel Approaches to Neurodiagnostics and Neurotherapeutics. He is also a Professor of Psychiatry, of Neuroscience, and of Geriatrics and Adult Development. Dr. Pasinetti is the recipient of several academic awards including the prestigious Zenith and Temple awards from the Alzheimer's Association. Most recently, Dr. Pasinetti was awarded "The Faculty Council Award" for academic excellence at Mount Sinai School of Medicine and "The Charles Dana Alliance for Brain Research Award" from Dana Foundation, recognizing productivity and worldwide leadership in his field of expertise, which further emphasizes his standing as an academic role model.

12:10-15:40

Session : Alzheimer's Disease, Dementia and Mild Cognitive Impairment

Chair: Jin Jun Luo, Temple University Medical School, USA

Invited Talk

Treatment Approaches Using the APPNL-G-F Mouse Model of the Familial Version of Alzheimer's Disease

Robert J. McDonald, University of Lethbridge, Canada

TBA

Lukas Richter, Siemens Healthineers, Germany

Lunch

Granulovacuolar Degeneration of Neurons – An Update

Christoph Kohler, Uniklinik Koln, Germany

Metformin Improves Cognitive Impairments in Patients with Schizophrenia

Jing Huang, TBA, China

Non-drug Treatments for Alzheimer's Disease May Help Manage Symptoms

Sara Sahraoui, UMONS, Belgium

Identifying Preclinical Alzheimer disease and Correlation with Blood Brain Barrier Breakdown and Reduced Glymphatic Flow using 3D ASL MRI

Charles R Joseph, Liberty University College of Osteopathic Medicine Lynchburg, USA

Prevention of Dementia, Alzheimer's Diseases, Solid Water Particles, and Quantum Chinese Medicine

Shui Yin Lo, Quantum Health Research Institute, USA

TBA

Leila Hosseini, Tabriz University of Medical Sciences, Iran

Coffee Break

15:40-18:30 **Session : Parkinson's Disease and other Movement Disorders**

Chair: TBA

Deep Brain Stimulation in Early-stage Parkinson's Disease

David Charles, Vanderbilt University Medical Center, USA

Botulinum Toxin Treatment of Motor Disorders in Parkinson Disease

Bahman Jabbari, Yale University School of Medicine, USA

Regulation of NO/ROS Redox Signaling via 8-nitro-cGMP Formation by nNOS Splice Variants and its Potential Involvement in Parkinson's Disease-like Neurotoxicity

Shingo Kasamatsu, Osaka Metropolitan University, Japan

Modelling the Basal Ganglia for Working Memory Tasks in Healthy Control and Parkinson's Disease Conditions

Vigneswaran C, Indian Institute of Technology Madras, India

Rhes Travels from Cell to Cell and Transports Huntington Disease Protein in the Brain.

Srinivasa Subramaniam, UF Scripps Biomedical Research, USA

08:00-09:30

Keynote Session

Chair: Jin Jun Luo, Temple University Medical School, USA

**TLR Activation of Microglia Induces Antiviral Factors Against HIV**

Wenzhe Ho, Temple University Medical School, USA

Biography:

Dr. Wen-Zhe Ho is a Tenure Professor at the Department of Pathology and Laboratory Medicine, Temple University School of Medicine and Director of Center for Animal Experiment/ABSL III Lab, Professor of Key Laboratory of Virology, Wuhan University School of Medicine. Dr. Ho received his medical, research and public health training at the Wuhan University School of Medicine in China and the University of Pennsylvania School of Medicine. Since 1993 he served on the faculty of the University of Pennsylvania School of Medicine until joining the Temple University School of Medicine in September, 2009. Dr. Ho also serves as Editor in Chief of Virology: Research and Treatment, a member of editorial board of J. NeuroVirology, J. NeuroImmune Pharmacology, and Chinese J. Pediatrics (International Edition). Dr. Ho's research work has produced over 110 peer-reviewed articles and 18 editorials, reviews and chapters.



TBA

Kalpna Gupta, University of California-Irvine, USA

Biography:

Dr. Kalpna Gupta has led pioneering work in understanding the mechanisms of adverse effects of opioids on cancer pain leading to cancer progression, and laid down the foundation of understanding the mechanisms of pain in sickle cell disease (SCD). These insights will help us treat both pain and the underlying disease process causing pain in the first place. Her laboratory has identified several new targets at the intersection of the sickle disease process and pain, including cannabinoid receptors, mast cells, and the nociceptin receptor, in addition to integrative approaches including environment's modification, acupuncture and perception modulation to relieve pain. Dr Gupta is also a recipient of the Excellence in Hemoglobinopathies Research Award from NHLBI to examine the potential of cannabinoids to treat pain and develop methods to quantify pain objectively. She has served as an advisor to the SCD program at NHLBI/NIH and received the "Pioneer Award" from the Sickle Cell Disease Association of America.



TBA

Kenneth Blum, Western University College of Medicine, USA

Biography:

Kenneth Blum, PhD- Well-known in the field of Psychiatric Genetics and Addiction Medicine. Co-Discoverer of the first gene to associate with severe alcoholism along with over 550 peer reviewed scientific articles. Dr. Blum is considered the father of Amino-Acid Therapy and Psychiatric Genetics and recipient of many research awards including Marquis Who's Who Man of the Year Award in Medical Sciences 2018. He is Editor-in-Chief of Reward Deficiency Syndrome & Addiction Sciences as well as three other journals including Frontiers of Biosciences. Editor and co-author of 17 books and member of 19 editorial boards. He is Chairman of Board and CSO of Geneus Health and Restoregen, Chief Scientific Advisor of Dominion Diagnostics, Chief Neurogenetics & Addiction Therapy advisor of Florida House and President of United Scientific Group.

09:30-14:00 **Session : Neurological Disorders: Prevention, Treatments and Rehabilitation**

Chair: **Wenzhe Ho**, Temple University Medical School, USA

Virulent Porphyromonas Gingivalis as the Major Causative Factor of Neuro-inflammation/ Degeneration in Dementia and Alzheimer's Disease-CDx and Bio Therapeutic Approach
Peter Lloyd Nara, Keystone Bio Inc., USA

The Neuroprotective Effect of a miR-96-5p Inhibitor: Delivery to Brain via the Blood-brain Barrier
Chisato Kinoshita, Teikyo University School of Medicine, Japan

Newborn Screening for Duchenne Muscular Dystrophy
R.Rodney Howell, University of Miami, USA

Coffee Break

Potential Treatment for CMT2S Caused by IGHMBP2 Cryptic Splice Variant, with ASO Based Therapeutic
Sandra Paulina Smieszek, Vanda Pharmaceuticals Inc., USA

Artificial Intelligence in Neurological Rehabilitation
Lama Saad El-Din Mahmoud, October 6 University, Egypt

Neuroimaging by Evaluation Nerve Repair and Remodeling of Acupuncture in Children with Cerebral Palsy
Zhenhuan Liu, Nanhai Affiliated Hospital for Women and Children Guangzhou University Chinese Medicine, China

TBA
Sinisa Miljkovic, University Clinical Center Republic of Srpska, Bosnia and Herzegovina

TBA
Shaul Mordechai, Ben-Gurion University, Israel

Pharmacotherapy of Schizophrenia According to Single Nucleotide Polymorphisms of Risk Genes in Schizophrenia
Felix-Martin Werner, Grone Gesundheitsakademie Weimar, Germany

Tele-rehabilitation Project in Patients with Severe Brain Injuries Outcome using Khymeia Virtual Reality Programs
Ylenia Tripovic, Centro Adelphi, Italy

Lunch

14:00-17:30 **Session : Neurological Disorders: Symptomatology, Pathophysiology and Etiology, Diagnostics of Neurological Disorders: Neuroimaging, Biomarkers and Laboratory Studies**

Chair: **Rajendra Badgaiyan**, University of Texas Health, USA

TBA
Philip W. Gold, National Institutes of Health, USA

TBA
Mati Karelson, University of Tartu · Institute of Chemistry, Estonia

Research Progress of Angiotensin-converting Enzyme 2 in Omicron in Children
Fuyong Jiao, Children's Hospital of Shaanxi Provincial People's Hospital, Xian Shanxi, China

GABRB2, A Key Player in Neuropsychiatric Disorders and Beyond
Hong XUE, Hong Kong University of Science and Technology, China

Sleep, Cognition and Neurodegenerative Disease
Diana Ikilikyan, TBA, USA

A Plea for Implementing the use of Sex and Gender Variables in Biomedical and Health Research
Patrick N. Pallier, Queen Mary University of London, UK

17:30-18:30 **Poster Session**

- P-01 **Microarray Profiling Identifies Novel Circulating Noncoding RNAs in MCI**
Bruna De Felice Distabif, University Luigi Vanvitelli, Italy
- P-02 **3D Virtual Reality Prism Adaptation Simulation System for Hemispatial Neglect**
Ju Kang Lee, Gachon University Gil Medical Center, Korea South
- P-03 **Cerebellar Structural, Glial, and Neuronal Defects in A Mouse Model of Spinal Muscular Atrophy**
Nicholas Cottam, Delaware State University, USA
- P-04 **Acceleration and Induction of Alzheimer's Neuropathology as an Effect of the Western Type of Nourishment**
Anna Mietelska-Porowska, Nencki Institute of Experimental Biology, Poland
- P-05 **Chronic Fipronil and Pyriproxyfen Exposure Leads to Short-term Effects on Anxiety and Locomotor Activity in A Zebrafish Model for Autism Spectrum Disorder**
Robea Madalina-Andreea, Al.I.Cuza University of Iasi, Romania
- P-06 **Selective GSK3 β Inhibition Mediates an Nrf2-independent Antiinflammatory Microglial Response**
Mohamed H. Yousef, American University in Cairo, Egypt
- P-07 **The Palliative Neuropsychological Programs Based on Professionally Oriented Tests and Quality of Life of Patients with Alzheimer's Disease**
Viacheslav Sushko, National University, Ukraine
- P-08 **The Effect of Minocycline on Beta-amyloid-induced Memory and Learning Deficit in Male Rats: A Behavioral, Biochemical, and Histological Study**
Zahra Gholami Mahmoudian, Hamadan University of Medical Sciences, Iran
- P-09 **Diagnosis and Management of Spinal muscular atrophy (SMA): 12 Years of Hands-on Single Reference Center Experience**
Zahra Hadipour, Atieh Hospital, Iran
Fatemeh Hadipour, Atieh Hospital, Iran
- P-10 **DNA Glycosylases Regulating Neuroinflammation in Alzheimer's disease**
Milena Egiazarian, Norwegian University of Science and Technology (NTNU), Norway
- P-11 **Exogenous A 1-42 Monomers Improve Synaptic and Cognitive Function in Alzheimer's disease Model Mice**
Xiaohua Cao, East China Normal University, China
- P-12 **ASM-targeting ISU203 Improves Cognitive Memory via the Combined Effect by Affecting both Microglial Cells and Th17 Immune Cells Indirectly in APP/PS1 Mouse Model**
Hosuk Lee, ISU ABXIS, South Korea
- P-13 **Rest-activity Disturbances in Myotonic Dystrophy Type 1 Patients with Apathy: An Exploratory Study using Actigraphy**
Luc Laberge, Cégep de Jonquière, Canada
- P-14 **Correlation Between Herpes Zoster and Stroke—A Case-control Study**
Hadiseh Hosamirudsari, Tehran University of Medical Sciences, Iran

Chair: TBA

08:30-11:10**Session : Stroke, Neurotrauma and Neurobehavioral Disorders****CD3 ζ and Its Molecular Cascade Protect RGCs in Injuries****Ning Tian**, University of Utah, USA**Effects of Surgery, Traumatic Brain Injury and Anesthesia Interact to Induce Neurological Abnormalities in Young Adult Male Rats and Their Future Unexposed Male Offspring****Anatoly E. Martynyuk**, University of Florida, USA**Progressive Microvascular Failure after Revascularization: A Metanalysis****Eleonora F. Spinazzi**, Columbia University Irving Medical Center, USA**The Effect of Varenicline on the Pathophysiology of Cerebral Ischemia-induced Cognitive Impairment in a Mouse Model with Photothrombotic Ischemia in the Medial Prefrontal Cortex****Fatemehsadat Seyedaghamiri**, Tabriz University of Medical Sciences, Iran**TBA****Robert Singer**, Menorah Medical Center, USA**Ischemic Stroke During Bevacizumab Treatment****Stavropoulou De Lorenzo Sotiria**, AHEPA University Hospital, Greece**Study of Brain Network Alternations in Non-lesional Epilepsy Patients by BOLD-fMRI****Feng Hongxuan**, The Affiliated Suzhou Hospital of Nanjing Medical University, China**Lower Motor Neuron Involvement in Patients with Neuromyelitis Optica Spectrum Disorders****Mianwang He**, Chinese PLA General Hospital, China**Physical Exercise Therapy for Autoimmune Neuroinflammation: Application of Knowledge from Animal Models to Patient Care****Ofira Einstein**, Ariel University, Israel**MRI Findings and the Occurrence of Posttraumatic Epilepsy – A Ten-year Cohort in Central Norway****Rabea Iris Pantelatos**, Norwegian University of Science and Technology, Norway

Coffee Break

Chair: **Igor Khaliulin**, The Hebrew University of Jerusalem, Israel

11:10-13:30**Session : Autism and Neurodevelopmental Disorders****The Synaptic Phenotype of Male and Female Transgenic Mouse Models of Autism Spectrum Disorder. What is the Difference?****Igor Khaliulin**, The Hebrew University of Jerusalem, Israel**Hypoplasia of Dopaminergic Neurons by Hypoxia-induced Neurotoxicity is Associated with Disrupted Swimming Development of Larval Zebrafish****Jong-Hyun Son**, University of Scranton, USA

The Impact of the Transdisciplinary Approach for Children with Neurodevelopmental Disorders in LMIC Countries

Nirvana Pistoljevic, Edus-Education for All, Bosnia and Herzegovina

Moving Towards Equity and Inclusion of College Students with Autism

Lisa Audet, Kent State University, USA

Reach the Unreachable for Early Brain Development Through Community Participation

Nandita Chattopadhyay, MGM Medical College and University, India

13:30-14:20

Lunch

*Please note this schedule is tentative and subject to change

Central European Summer Time (CEST)

Introduction

08:00-11:10 Session : Alzheimer's Disease, Dementia and Mild Cognitive Impairment

Chair: TBA

E-Talk

Cognitive Care Education: An Updated Cognitive Care Education First Edition**Russell Porter**, Texas A&M University-Central Texas, USA**Jeremy Berry**, Texas A&M University-Central Texas, USA**Sanfrena Britt**, Texas A&M University-Central Texas, USA**Effect of Health Qigong Exercises on Attention Ability in Patients with Parkinson's Disease****RuiKe Jiang**, Beijing Sport University, China**Episodic Memory in Patients with Mild Cognitive Impairment, Community Dwelling People with Vascular Risk Factors, and Healthy Adults****Glykeria Tsentidou**, Aristotle University of Thessaloniki, Greece**Association Between Inflammatory Conditions and Alzheimer's disease Age of Onset in Down Syndrome****Florence Lai**, Harvard Medical School, USA**Evaluating Frontoparietal Network Topography for Diagnostic Markers of Alzheimer's Disease****Bayard Rogers**, University of Glasgow, United Kingdom**Modeling Alzheimer's disease Utilizing Human iPSC-Cortical Neurons on MEA****Xiufang (Nadine) Guo**, University Of Central Florida, USA

E-poster

Cerebrolysin Reduces the Risk of Conversion from aMCI to Dementia in First-degree Relatives of Patients with Alzheimer's disease: A Prospective Comparative Study**Elena**, Mental Health Research Centre, Russian Federation

Coffee Break

11:10-14:30 Session : Neurological Disorders: Prevention, Treatments and Rehabilitation

Chair: TBA

E-Talk

Research on the Influence of Aerobics on the Static Balance Ability of People with Moderate Intellectual Disability**Zhenying Liu**, Beijing Sport University, China**Effect of Health Qigong Combined Dance on Exercise-induced Emotion of Middle and Old - Aged Women****Zhuping Ren**, Beijing Sport University, China

TBA

Xiaolei Liu, Beijing Sport University, China

TBA

Rajesh H Amin, Auburn University, USA

Non-Pharmacological Therapeutic Strategies for Alzheimer's, Parkinson's and Huntington's Diseases

Suren A. Tatulian, University of Central Florida, USA

Effect of 660/850nm LED on the Microcirculation of the Foot – neurovascular Biphasic Reflex

Claudia Maria Duarte de Sa, Private office, Brazil

Complex Phenotypes of NMDA Receptor Disease Variants

Gabriela K. Popescu, Jacobs School of Medicine and Biomedical Sciences/University at Buffalo, USA

Mechanism of Curcumin in Mitigating Oxygen-glucose Deprivation/Reperfusion-induced Endothelial Cell Injury Through JAK/STAT3 Pathway

Wei Li, The Second Affiliated Hospital of Kunming Medical University, China

A Case of Post-polio Syndrome in a Youth

Yuko Harada, Kawasaki Municipal Ida Hospital, Japan

TBA

Margarita Rugaitiene, TBA, Lithuania

E-Poster

Effect of a Diet Rich in Pumpkin on Mercury Toxicity

Zerrouki Khayra, Chlef university, Algeria

Rapamycin and Axitinib Treatment caused Antiseizure Synergy Action with Pronounced Reduction of Neuroinflammatory Markers in PTZ-Kindled Rats

Yehorenko Olha, Odesa National Medical University, Ukraine

TBA

Margarita Rugaitiene, TBA, Lithuania

14:30-16:30

Session : Parkinson's Disease and other Movement Disorders

Chair: TBA

E-Talk

Effect of Fitness Qigong on Gait of Patients with Parkinson's Disease

Betchy, Beijing Sport University, China

G2019S-LRRK2 Induces Neurovascular Abnormalities in A Mouse Model of Parkinson Disease

Wanli Smith, Johns Hopkins University School of Medicine, USA

Effect of Health Qigong Exercise on Lower Limb Flexibility of Patients with Parkinson's Disease

Zhe Zhang, Beijing University of Civil Engineering and Architecture, China

16:30-17:30

Session : Stroke, Neurotrauma and Neurobehavioral Disorders

Chair: TBA

E-Talk

Effects of Traditional Chinese Exercise on the Physical and Mental Health of Stroke Patients: A Meta-analysis Based on Randomized Controlled Trial

Jingyuan Han, Beijing Sport University, China

Relationship of Length of Disease and Levels of Anxiety and Depression in Persons with Multiple Sclerosis during the COVID-19 Pandemic

Pat McLaughlin, Penn State University College of Medicine, USA

TBA

Woo-Yang Kim, Kent State University, USA

Influenza Vaccine Hesitancy in Patients with Multiple Sclerosis: A Monocentric Observational Study

Cristina Scavone, University of Campania "Luigi Vanvitelli", Italy

Experimental Rat Model of Neurocysticercosis: New Perspectives for the Control of Inflammation

José Alejandro Espinosa Cerón, Instituto de Investigaciones Biomédicas, UNAM, Mexico

E-poster

Epilepsy and Covid-19 Correlation, Patient Follow-up for Two Years in Regional Hospital Durres, Albania

Edlira Harizi, Regional Hospital Durres, Albania

NOTES

NOTES

We wish to see you in
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