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UNITED Scientific Group
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Program

9th NEUROLOGICAL DISORDERS SUMMIT-2024

May 06-08, 2024 in Barcelona, Spain

Hotel Occidental Atenea Mar,
Paseo García Faria 37-47,
08019 Barcelona

Email: sswarup@uniscigroup.net; nds@uniscigroup.net
Web: www.neurodisordersconference.com

Join Meeting Link
https://us06web.zoom.us/j/84998693740?pwd=BZXPHbgZX6evSmWQbc5EKWJ8f64Pb0.1
Meeting ID: 849 9869 3740
Passcode: 102450
Monday, May 06, 2024
In-Person

08:20-08:45  Registration and Conference Material Collection
08:45-09:00  Introduction  @ MARBELLA

Keynote Session  @ MARBELLA

Chair: Laxman D. Gangwani, University of Missouri at Columbia, USA

09:00-09:40  Advanced Therapies in Spinal Muscular Atrophy: The Copernican Revolution in Rare Disorders
Eduardo Tizzano, Vall d’Hebron University Hospital, Spain

09:40-10:20  Novel Genetic Tools and Emerging Therapeutic Approaches in Inherited Ataxias
Antoni Matilla Duenas, Germans Trias i Pujol Research Institute (IGTP), Spain

10:20-10:50  Coffee Break & Social Networking  @ LOBBY BAR AREA

10:50-11:30  A Structure-based Approach to Tackle Protein Aggregation in Parkinson’s Disease
Salvador Ventura Zamora, Autonomous University of Barcelona, Spain

Session: Alzheimer’s Disease, Dementia and Mild Cognitive Impairment  @ MARBELLA

Chair: Soraya L. Valles, University of Valencia, Spain

Co-chair: Niketa A. Patel, University of South Florida, USA

11:30-12:00  Session Opening Talk: Last Researchers in Neurodevelopment and Neurodegeneration
Soraya L. Valles, University of Valencia, Spain

12:00-12:40  Keynote Talk: The Role of T Cells Immunity in Alzheimer’s Disease
Giulio Maria Pasinetti, Icahn School of Medicine at Mount Sinai, USA

12:40-13:00  Structure and Functional Models of Amyloid β42 (Aβ42) and α-synuclein Assemblies Containing GM1 Gangliosides
H. Robert Guy, Amyloid Research Consultants, USA

13:00-13:20  Targeting Early Genetic Risk Factor During Aging to Improve Brain Metabolism
Niketa A. Patel, University of South Florida, USA

13:20-14:20  Lunch  @ CANELA

Special Session: Neuromuscular Disorders  @ MARBELLA

Chair: Laxman D. Gangwani, University of Missouri at Columbia, USA

Co-chair: Eduardo Tizzano, Vall d’Hebron University Hospital, Spain

14:20-14:50  Identifying Hidden GEMs in Neurological Diseases
Udai Pandey, University of Pittsburgh Medical Center, USA

14:50-15:20  TAR DNA Binding Protein-43 (TDP-43) Pathology Causes Differential Expression of Retrotransposons in a TDP-43-Q331K Mouse Model
Roger Sher, Stony Brook University, USA

15:20-15:50  Clinical Measures of Disease Progression in Amyotrophic Lateral Sclerosis Type 4
Christopher Grunseich, NINDS, National Institutes of Health, USA
15:50-16:20  Mechanism of R-loop-mediated Neurodegeneration in ALS
Laxman D. Gangwani, University of Missouri at Columbia, USA

16:20-16:40  Peripheral Organs Defects in Spinal Muscular Atrophy: Actin Dysregulation
Amy Glynn, SMATHERIA, Germany

16:40-17:00  Dysregulated S-glutathionylation and Redox Enzymes in Multiple Murine Organs of Spinal Muscular Atrophy
Sofia Vrettou, University of Cologne, Germany

17:00-18:30  Poster & Networking Drinks  @ LOBBY BAR AREA

P01  Screening for Early Biofluid Markers of Alzheimer's Disease in an At-risk Population: Design of the PREDICTOM Study
Johanna Mitterreiter, Siemens Healthineers, Germany

P02  Development of Rapid Large-area Sensing Technology for Early Detection of Alzheimer's Disease
Jonghyun Oh, Jeonbuk National University, Korea (South)

P03  Plasma Astrocytic Biomarker in Patients with Alzheimer's Disease
Barbara Mroczko, Medical University of Białystok, Poland

P04  Mediating and Moderating Effects of Plasma Proteomic Biomarkers on the Association Between Poor Oral Health Problems and Incident Dementia: The UK Biobank Study
Hind A. Beydoun, University of Texas Health Science Center at Houston, USA

P05  Caregiver Strain and Quality of Life: Assessing the Moderating Role of Age Among Caregivers of Offspring with Intellectual and Developmental Disabilities
Ethel Virginia Sticinski, University of Delaware, USA

P06  Mediating and Moderating Effects of Plasma Proteomic Biomarkers on the Association Between Poor Oral Health Problems and Brain White Matter Microstructural Integrity: The UK Biobank Study
May A. Beydoun, NIA/NIH/IRP, USA

P07  Feasibility and Utility of Introducing Handgrip Strength Measurement (for Sarcopenia Assessment) for Outpatients Living with Parkinson's Disease
Iain Wilkinson, Surrey and Sussex Healthcare NHS Trust, UK

P08  Dysregulated S-glutathionylation and Redox Enzymes in Multiple Murine Organs of Spinal Muscular Atrophy
Sofia Vrettou, University of Cologne, Germany

P09  Ectoine Treatment Stimulates Protein Markers of Autophagy Efficiency in the Duchenne Muscular Dystrophy Mouse Model mdx
Eulàlia Gómez Armengol, Ghent University, Belgium

P10  Peripheral Organs Defects in Spinal Muscular Atrophy: Actin Dysregulation
Amy Glynn, SMATHERIA, Germany

P11  Surgical Treatment of Parkinson's Disease After Medication Failure at the Central Military Hospital
Haddadi Youcef, Central Military Hospital of Algeria, Algeria

P12  Management of the Normal Pressure Hydrocephalus at the Central Military Hospital HCA Algiers
Khelifa Tarek, HCA, Algeria

19:30-21:30  Social & Networking Event Dinner (Networking Ticket Required)  @ CANELA
Session: Neurological Disorders: Prevention, Treatments, and Rehabilitation @ MARBELLA

**Chair:** Jeffrey M. Chung, Cedars-Sinai Medical Center, USA

08:30-08:50  Interrogation of the Chlorine Atom in the Atypical Antipsychotic Clozapine and *In-silico* Investigation of Other Potential Pharmacophores in this Context  
Songul Sahin, Ondokuz Mayis University, Turkey

08:50-09:10  Rate and Predictors of Neurosurgical 30-day Readmission: A Single-center Experience  
Rene Daniel, Thomas Jefferson University, USA

09:10-09:30  Which Frequency Comes First in Intracranial EEG Ictal Onset: High or Low?  
Jeffrey M. Chung, Cedars-Sinai Medical Center, USA

09:30-09:50  Neuromodulation by Upconversion Nanoparticles  
Angelo H. All, Hong Kong Baptist University, Hong Kong

09:50-10:10  Differentiation Between Alzheimer's Disease and Dementia with Lewy Bodies Using Infrared Microscopy of White Blood Cells and Machine Learning Methods  
Shaul Mordechai, Ben Gurion University, Israel

10:10-10:30  Investigating the Effects of Long-term Leucine and Isoleucine Treatment on Cognition and Behavior in Male BALB/c Mice  
Patrick N. Pallier, Queen Mary University of London, UK

10:30-10:50  Impact of Patient Demographics and Insurance Status on Recommendation for Surgery in Glioblastoma A Retrospective Cohort Study  
Bharath Ganesh, Thomas Jefferson University, USA

10:50-11:20  Coffee Break & Social Networking @ LOBBY BAR AREA

Session: Parkinson's Disease and Other Movement Disorders @ MARBELLA

**Chair:** Roberto Di Maio, University of Pittsburgh, USA

11:20-11:40  Health Qigong Exercise on Inhibitory Function in Parkinson's Patients  
Xiaolei Liu, Beijing Sport University, China

11:40-12:00  Insulin and Ranolazine Protective Action After Rotenone Addition on NSC-34 Motor Neuron Cells (Model of Parkinson's Disease)  
Ignacio Campo-Palacio, University of Valencia, Spain

12:00-12:20  Delving into Oxidative Signaling in Parkinson's Disease, Unveiling Intricate Pathways and Novel Pleiotropic Therapeutic Avenues  
Roberto Di Maio, University of Pittsburgh, USA

12:20-12:40  Effect of Health Qigong Exercises on Cardiovascular Symptoms in Patients with Parkinson's Disease  
Jinkai Zhang, Beijing Sport University, China

12:40-13:40  Lunch @ CANELA
### Session: Neurotrauma, Neuroinflammation, Neurobehavioral Disorders, and Neuro-immune Diseases

**Chair:** Charles R. Joseph, Liberty University, USA

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>13:40-14:00</td>
<td>Heritable Effects of Moderate Traumatic Brain Injury in Rats</td>
<td>Anatoly E. Martynyuk</td>
<td>University of Florida, USA</td>
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<tr>
<td>14:00-14:20</td>
<td>Identifying Delay in Glymphatic Clearance of Labeled Protons Post-acute Head Trauma Utilizing 3D ASL MRI (Arterial Spin Labeling): A Pilot Study</td>
<td>Charles R. Joseph</td>
<td>Liberty University, USA</td>
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<tr>
<td>14:20-14:40</td>
<td>Action of Inflammation and Oxidative Stress in Neural Cells in Primary Culture, APP/PS1 Mice and in aMCI Patients Treatments in Alzheimer's Disease</td>
<td>Juan Campos Campos</td>
<td>University of Valencia, Spain</td>
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<tr>
<td>14:40-15:00</td>
<td>Inflammation, Oxidative Stress, and Cancer Protein Expressions in a Model of Alzheimer's Disease</td>
<td>Adrian Jorda Valles</td>
<td>University of Valencia, Spain</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>Inflammation and Oxidative Stress After Aβ1-42 Addition and Effects of Ranolazine and/or Insulin in Astrocytes in Primary Culture</td>
<td>Carlos Manuel Colmena Zaragoza</td>
<td>University of Valencia, Spain</td>
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<td>15:20-15:40</td>
<td>Protective Action After Use of TLS Technique in aMCI Patients</td>
<td>Kenia Alvarez Gamez</td>
<td>University of Valencia, Spain</td>
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<tr>
<td>15:40-16:00</td>
<td>Virtual Talk: Switching of the Default Mode Network is Different in Episodic and Chronic Migraine: Implications for Chronification</td>
<td>Francesca Pistoia</td>
<td>University of L'Aquila, Italy</td>
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<tr>
<td>16:00-16:30</td>
<td>Coffee Break &amp; Social Networking</td>
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<td>@ LOBBY BAR AREA</td>
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### Session: Migraine & Headache and Epilepsy/Stroke/Multiple Sclerosis  @ MARBELLA

**Chair:** Udai Pandey, University of Pittsburgh Medical Center, USA

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<tbody>
<tr>
<td>09:00-09:20</td>
<td>Iron-free Transferrin Improves Sensory Function in an Experimental Model of Intracerebral Hemorrhage</td>
<td>Alexia Garcia Serran</td>
<td>Autonomous University of Barcelona, Spain</td>
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<tr>
<td>09:20-09:40</td>
<td>CT Perfusion in Acute Ischaemic Stroke and its Overestimation and Underestimation of the Penumbra</td>
<td>Fathalla Elnagi</td>
<td>Whiston Hospital, UK</td>
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<tr>
<td>09:40-10:00</td>
<td>Factors Influencing Communication and Language Skills in Multiple Sclerosis</td>
<td>Sotiria Stavropoulou De Lorenzo</td>
<td>AHEPA University Hospital of Thessaloniki, Greece</td>
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10:00-10:30 Coffee Break & Social Networking  @ LOBBY BAR AREA

### Session: Autism and Neurodevelopmental Disorders  @ MARBELLA

**Chair:** Lilach Shalev, Tel Aviv University, Israel

<table>
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<tr>
<td>10:30-10:50</td>
<td>Astrocyte Responses to Postnatal Erythropoietin and Nano-erythropoietin Treatments in a Valproic Acid-induced Animal Model of Autism</td>
<td>Sara Haratizadeh</td>
<td>Mashhad University of Medical Science, Iran</td>
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<tr>
<td>10:50-11:10</td>
<td>Insecticide and Herbicide Urinary Metabolites in Relation to Neurobehavioral Performance in Ecuadorian Adolescents</td>
<td>Jose Ricardo Suarez</td>
<td>University of California San Diego, USA</td>
</tr>
<tr>
<td>11:10-11:30</td>
<td>The Effects of Postnatal Erythropoietin and Nano-erythropoietin on Behavioral Alterations by Mediating K-Cl Co-transporter 2 in the Valproic Acid-induced Rat Model of Autism</td>
<td>Sara Haratizadeh</td>
<td>Mashhad University of Medical Science, Iran</td>
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<tr>
<td>11:30-11:50</td>
<td>Training Attention and Cognitive Control Among Individuals with ADHD</td>
<td>Lilach Shalev</td>
<td>Tel Aviv University, Israel</td>
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<tr>
<td>11:50-12:10</td>
<td>Necessity of Multisensory Therapy in Children with Autism Spectrum Disorders</td>
<td>Aleksandrs Vasilonoks</td>
<td>University of Latvia, Latvia</td>
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12:10-12:20 In-Person Closing Remarks

12:20-13:30 Lunch and Departure  @ CANELA
### Program

**Virtual Session | Online | Zoom Meeting**

**Time Zone: Central European Summer Time (Madrid Time)**

<table>
<thead>
<tr>
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#### NDS Track-01

**Moderator:** Yuko Harada, Shonan Atsugi Hospital, Japan

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:25-13:50</td>
<td>Invited Talk: Hashimoto Encephalopathy</td>
<td>Yuko Harada, Shonan Atsugi Hospital, Japan</td>
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<tr>
<td>13:50-14:10</td>
<td>Prevention of Cognitive Decline in Alzheimer's Disease by Novel Antioxidative Supplements</td>
<td>Haruhiko Inufusa, Gifu University, Japan</td>
</tr>
<tr>
<td>14:10-14:30</td>
<td>Physical Frailty Trajectories in Older Stroke Survivors: Findings from a National Cohort Study</td>
<td>Wen Zeng, Peking University, China</td>
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<tr>
<td>14:30-14:50</td>
<td>Research on the Effect of Heart-lung Benefiting Tai Chi on Negative Emotions in College Students</td>
<td>Zhenying Liu, Beijing Sport University, China</td>
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<tr>
<td>14:50-15:10</td>
<td>Effect of Health Qigong Exercises on Range of Motion in Patients with Parkinson's Disease</td>
<td>Siqi Tang, Beijing Sport University, China</td>
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<tr>
<td>15:10-15:30</td>
<td>Marula Oil Nanoemulsion Improves Motor Function in Experimental Parkinsonism via Mitigation of Inflammation and Oxidative Stress</td>
<td>Sawsan A. Zaitone, University of Tabuk, Saudi Arabia</td>
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<td>15:30-15:50</td>
<td>What is the Foix-Alajouanine Syndrome?</td>
<td>Belenky Vadim, ArsVita Clinic, Russian Federation</td>
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<tr>
<td>15:50-16:10</td>
<td>Illness Perceptions and Outcome in Multiple Sclerosis: Dissemination of the Findings from a Published Systematic Review</td>
<td>Maria Luca, Centre for Addiction, Adrano (Catania), Italy</td>
</tr>
<tr>
<td>16:10-16:30</td>
<td>Cognition and Gait in Normal Aging and Neurological disorders</td>
<td>Antonina Luca, University of Enna “Kore”, Italy</td>
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<td>16:30-16:40</td>
<td>Break</td>
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#### NDS Track-02

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<tr>
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<th>Organizer</th>
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<tbody>
<tr>
<td>16:40-17:00</td>
<td>New Development of Antipsychotic Drugs in Schizophrenia</td>
<td>Felix-Martin Werner, Grone Gesundheitsakademie Weimar, Germany</td>
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<tr>
<td>17:00-17:20</td>
<td>Perceived Social Support, Normalization, and Subjective Well-being Among Family Members of a Child with Autism Spectrum Disorder</td>
<td>Hamama Liat, Tel Aviv University, Israel</td>
</tr>
<tr>
<td>17:20-17:40</td>
<td>Time Varying Analysis of Dynamic Resting-state Functional Brain Network to Unfold Memory Function</td>
<td>Tahmineh Azizi, University of Wisconsin-Madison, USA</td>
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<tr>
<td>17:40-18:00</td>
<td>Language Deficits Through Development Predicted from rs-fMRI Neural Network Connectivity in Utero</td>
<td>Roy Eagleson, The University of Western Ontario, Canada</td>
</tr>
</tbody>
</table>
18:00-18:20  Safety of Antidepressant Types Following Traumatic Brain Injury in Elderly Patients: A Retrospective Database Analysis  
**Manvita Mareboina**, Penn State College of Medicine, USA

18:20-18:40  A 42-year-old Male with Progressive Muscle Weakness and Joint Contractures  
**Alba Coraini**, Mass General Brigham, USA

18:40-19:00  Blocking an Epitope of Misfolded SOD1 Ameliorates Disease Phenotype in a Model of Amyotrophic Lateral Sclerosis  
**Stanislav Engel**, Ben-Gurion University of the Negev, Israel

19:00-19:10  Break

**NDS Track-03**

19:10-19:30  Assessing Environments for People Living with Dementia: A Review of Tools  
**Migette Kaup**, Kansas State University, USA  
**Addie Abushousheh**, The Center for Health Design, USA  
**Margaret Calkins**, IDEAS Institute, USA

19:30-19:50  Prevention of Strokes by Inventions in Quantum Chinese Medicine  
**Shui Yin Lo**, Quantum Health Research Institute, USA

19:50-20:20  Keynote Talk: Hurdles in Anti-amyloid Therapy for Alzheimer's Disease  
**Jin Jun Luo**, Temple University, USA

20:20-20:40  Membrane Insertion of Tyrosine-10 Determines Membrane Channel Formation by Unmodified and Pyroglutamylated Amyloid β Peptides  
**Suren A. Tatulian**, University of Central Florida, USA

20:40-21:00  How Does Air Pollution Impact Alzheimer's Disease Development? - Lessons Learned from Mouse Study  
**Tao Sun**, Cedars-Sinai Medical Center, USA

21:00-21:20  Associations Between Insulin-like Growth Factor-1 and Resting-state Functional Connectivity in Cognitively Unimpaired Midlife Adults  
**Auriel A. Willette**, Rutgers University, USA

21:20-21:40  Neurobiological Basis of Bioelectronic Medicine in Treating Pediatric ADHD and Autism  
**Alli San Roman**, Temecula Valley High School, USA

21:40-21:50  Closing Remarks
We wish to see you again at

**NDS-2025**

June, 2025 London, UK

Organized by

**USG-United Scientific Group**
(A non-profit Organization)

8105, Suite 112, Rasor Blvd, PLANO, TX 75024


Email: sswarup@uniscigroup.net; nds@uniscigroup.net

Web: www.neurodisordersconference.com