



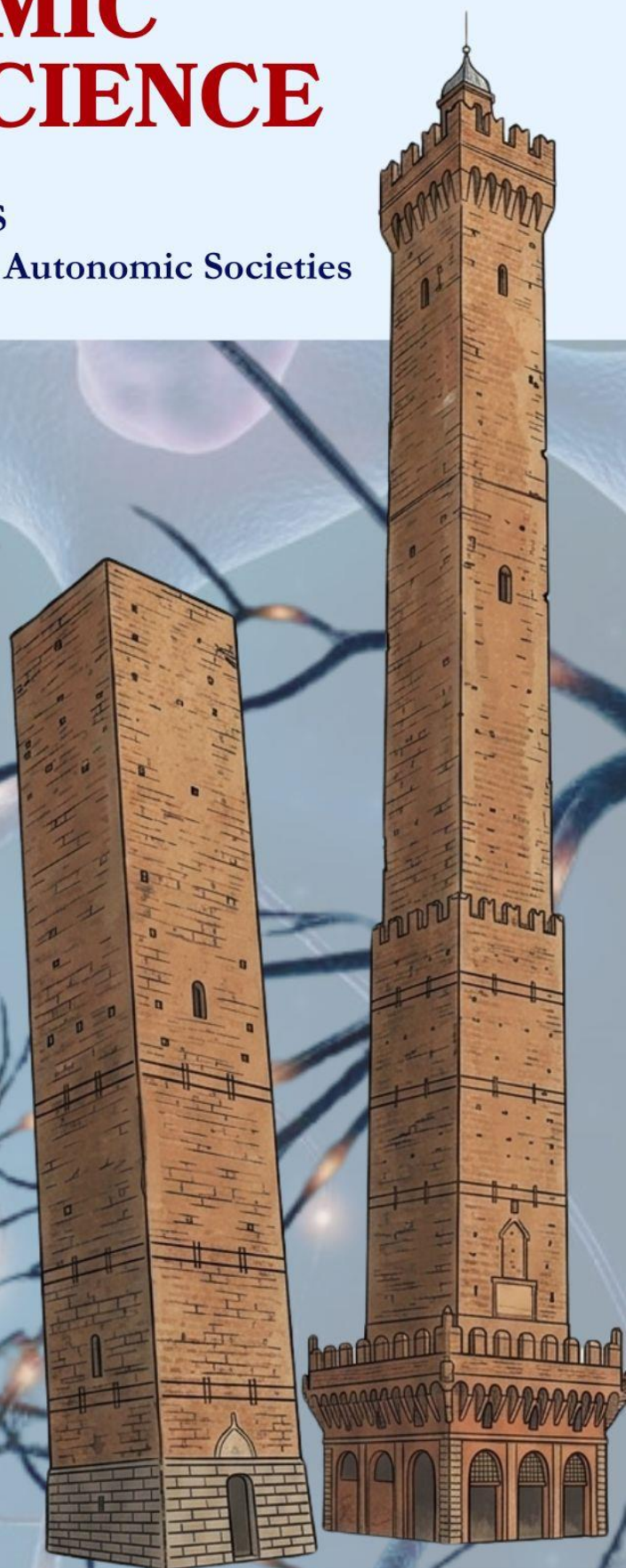
14th Congress of the
**INTERNATIONAL
SOCIETY FOR
AUTONOMIC
NEUROSCIENCE**



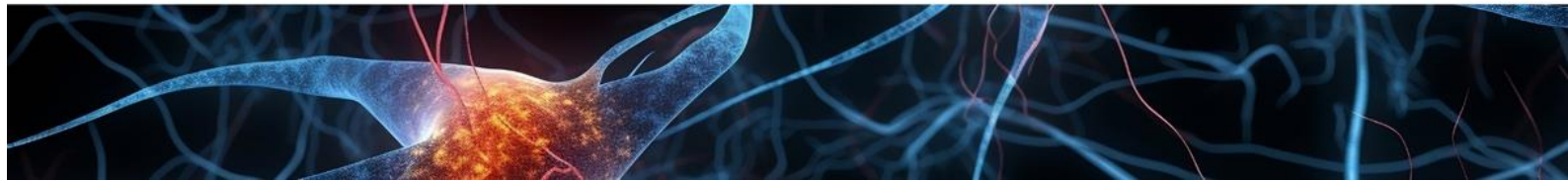
Joint Meeting with EFAS
European Federation of Autonomic Societies

Bologna, Italy
2-5 September
2026

Plesso Belmeloro
University of Bologna



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DAY 1 – THURSDAY 3rd SEPTEMBER

P1 / Day 1 - Sex-dependent lateralization of cardiovascular responses to aortic baroreceptor afferent stimulation in spontaneously hypertensive rats

Ibrahim M. Salman ⁽¹⁾ - Omar Z. Ameer ⁽¹⁾ - Yee-Hsee Hsieh ⁽²⁾ - Stephen J. Lewis ⁽²⁾

⁽¹⁾ Alfaisal University, College of Pharmacy, Riyadh, Saudi Arabia - ⁽²⁾ Case Western Reserve University, School of Medicine, Cleveland, Ohio, United States

P2 / Day 1 - Sex-specific autonomic dysregulation of cardiovascular and ventilatory functions following acute irreversible acetylcholinesterase inhibition

Bruna Ferreira da Silva ⁽¹⁾ - Breno Lopes Macedo ⁽¹⁾ - Gabriel Gavazza Noé ⁽¹⁾ - Mauricio da Silva Mattar ⁽¹⁾ - Kissylla Brisson da Silva ⁽¹⁾ - Amanda Boina ⁽²⁾ - Paula Beatriz de Souza Assis ⁽²⁾ - Vítor Sampaio Minassa ⁽³⁾ - Júlia Grigorini Mori Ayub ⁽¹⁾ - Fiona McBryde ⁽⁴⁾ - Thatiany Jardim Batista ⁽¹⁾ - Karla Nívea Sampaio ⁽¹⁾

⁽¹⁾ Federal University of Espírito Santo, Pharmaceutical Sciences Graduate Program, Health Sciences Centre, Vitória, Brasil - ⁽²⁾ Federal University of Espírito Santo, Department of Pharmaceutical Sciences, Health Science Centre, Vitória, Brasil - ⁽³⁾ Federal University of Espírito Santo, Physiological Sciences Graduate Program, Health Sciences Centre, Vitória, Brasil - ⁽⁴⁾ University of Auckland, Department of Physiology, Faculty of Health & Medical Sciences, Manaaki Manawa—The Centre for Heart Research, Auckland, Nova Zelândia

P3 / Day 1 - Effect of involuntary breathing movements on aortic flow

Jorge Manuel ⁽¹⁾ - Ivan Drvis ⁽²⁾ - Sophie Simon ⁽¹⁾ - Nikola Foretic ⁽²⁾ - Goran Dujic ⁽³⁾ - Karsten Heusser ⁽¹⁾ - Jens Jordan ⁽¹⁾ - Darius A. Gerlach ⁽¹⁾ - Philipp Rosauer ⁽⁴⁾ - Ulrich Limper ⁽¹⁾ - Björn Jüttner ⁽⁵⁾ - Zeljko Dujic ⁽⁶⁾ - Jens Tank ⁽¹⁾

⁽¹⁾ German Aerospace Center (DLR), Institute of Aerospace Medicine, Cologne, Germany - ⁽²⁾ University of Zagreb, Faculty of Kinesiology, Zagreb, Croatia - ⁽³⁾ University Hospital of Split, Clinical Department of Diagnostic and Interventional Radiology, Split, Croatia - ⁽⁴⁾ German Aerospace Center (DLR), Institute of Software Technology, Cologne, Germany - ⁽⁵⁾ Hannover Medical School, Department of Anesthesiology and Intensive Care Medicine, Hannover, Germany - ⁽⁶⁾ University of Split School of Medicine, Department of Integrative Physiology, Split, Croatia

P4 / Day 1 - Gut Regulated Associations of Neuronal Signalling in high BP (GRAiNS-BP): A Randomised Controlled Trial Protocol

Malindi Welathanthree ⁽¹⁾ - Vaughan Macefield ⁽²⁾ - Francine Marques ⁽¹⁾ - Rikeish Muralitharan ⁽¹⁾

⁽¹⁾ Monash University, Department of Pharmacology, Melbourne, Australia - ⁽²⁾ Monash University, Department of Neuroscience, Melbourne, Australia

P5 / Day 1 - Precision ultra-hypofractionated radiotherapy to the stellate ganglia for ventricular arrhythmia (the first-in-man RADIO-STAR trial)

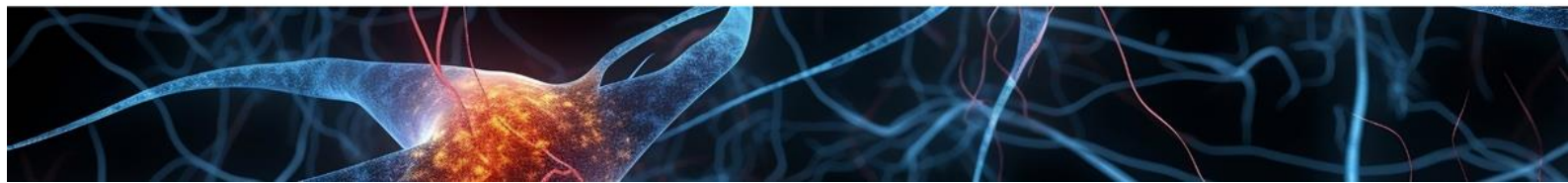
Benjamin Bussmann

University of Oxford, Cardiology Department UK

P6 / Day 1 - The A isoform of Alpha1 Adrenergic Receptors in Cardiac Vagal Nucleus Ambiguus Increases Heart Rate Through Increased GABAergic Inhibition

Kaylie Dow ⁽¹⁾ - Carie Boychuk ⁽¹⁾

⁽¹⁾ University of Missouri, Dalton Cardiovascular Research Center, Department of Pathobiology and Integrative Biomedical Sciences, College of Veterinary Medicine, Columbia, United States



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P7/Day 1 - Comparison of AI-Based and Manual Computational Approaches for Baroreflex Analysis Using the Modified Oxford Method in Normotensive Lewis Rats

Hussam N. Alhamad ⁽¹⁾ - Ibrahim M. Salman ⁽¹⁾ - Omar Z. Ameer ⁽¹⁾ - Cara M. Hildreth ⁽²⁾ - Jacqueline K. Phillips ⁽²⁾

⁽¹⁾ Alfaisal University, Collage of Pharmacy, Riyadh, Saudi Arabia - ⁽²⁾ Macquarie University, Macquarie Medical School, Faculty of Medicine, Health and Human Sciences, Sydney, Australia

P8 / Day 1 - Effects of Lumacaftor on Blood Pressure and Cerebral Blood Flow in a Conscious Rat Model of Hypertension and Prediabetes

Courtney Brighthouse ⁽¹⁾ - Jack Sloan ⁽¹⁾ - Julian Paton ⁽¹⁾ - Fiona McBryde ⁽¹⁾ - Tonja Emans ⁽¹⁾

⁽¹⁾ Manaaki Manawa – Centre for Heart Research, Department of Physiology, Faculty of Medical and Health Sciences, University of Auckland, Auckland, New Zealand

P9 / Day 1 - The role of oxytocin within the rostral ventrolateral medulla in the tonic and reflex regulation of blood pressure in an animal model of polycystic kidney disease

Teodora Nedelkoska ⁽¹⁾ - Peter Burke ⁽¹⁾ - Simon McMullan ⁽¹⁾ - Jacqueline Phillips ⁽¹⁾ - Cara Hildreth ⁽¹⁾

⁽¹⁾ Macquarie University, Macquarie Medical School, Sydney, Australia

P10 / Day 1 - Ventilatory baroreflex in humans: is there evidence of hysteresis?

Ihenny V Neri ⁽¹⁾ - Jeann L Sabino-Carvalho ⁽²⁾ - Paul J Fadel ⁽³⁾ - Lauro C Vianna ⁽⁴⁾

⁽¹⁾ NeuroVASQ-Integrative Physiology Laboratory, Graduate Program in Medical Sciences, Faculty of Medicine, University of Brasilia, Brasilia, Brazil - ⁽²⁾ Faculty of Physical Education, University of Brasilia, Brasilia, Brazil - ⁽³⁾ Department of Kinesiology, University of Texas at Arlington, Arlington, Texas, United States - ⁽⁴⁾ NeuroVASQ-Integrative Physiology Laboratory, Faculty of Physical Education, University of Brasilia, Brasilia, Brazil

P11 / Day 1 - Subcellular Mechanism of Blood Pressure Regulation by Arterial Baroreceptors

Jerry Yu ⁽¹⁾

⁽¹⁾ University of Louisville, Medicine and Physiology, Louisville, United States

P12 / Day 1 - Clinical Evidence of Early and Progressive Cardiovascular Autonomic Dysfunction in Type 1 Diabetes

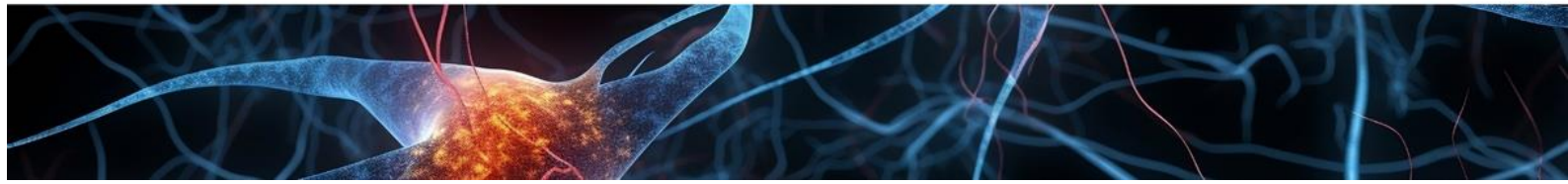
Shweta Gore ⁽¹⁾ - Adina Draghici ⁽²⁾ - Hyun Jung Kim ⁽¹⁾ - J. Andrew Taylor ⁽²⁾

⁽¹⁾ MGH Institute of Health Professions, Physical Therapy, Charlestown, United States - ⁽²⁾ Spaulding Rehabilitation Hospital, Cardiovascular Research Lab, Physical Medicine & Rehabilitation, Cambridge, United States

P13 / Day 1 - In situ cholinergic overstimulation differentially disrupts cardiovascular reflex control in normotensive and pre-hypertensive rats

Vitor Sampaio Minassa ⁽¹⁾ - Igor Simões Assunção Felipe ⁽²⁾ - Luciana Mesquita Passamani ⁽³⁾ - Julian Francis Richmond Paton ⁽²⁾ - Karla Nivea Sampaio ⁽⁴⁾ - Nazare Souza Bissoli ⁽¹⁾

⁽¹⁾ Postgraduate Program in Physiological Sciences, Federal University of Espirito Santo, Vitoria, Brazil - ⁽²⁾ The Centre for Heart Research – Manaaki Manawa, University of Auckland, Auckland, New Zealand - ⁽³⁾ Brazilian Hospital Services Company, Federal University of Espirito Santo, Vitoria, Brazil - ⁽⁴⁾ Postgraduate Program in Pharmaceutical Sciences, Federal University of Espirito Santo, Vitoria, Brazil



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P14 / Day 1 - Cardiovascular autonomic dysfunction after young ischemic stroke

Ruihao Wang

University of Erlangen-Nuremberg, Department of Neurology, Nuremberg, Germany

P15 / Day 1 - Delta Heart Rate Poorly Reflects Symptom Burden in Postural Orthostatic Tachycardia Syndrome

Celine Gallagher ⁽¹⁾ - Marie-Claire Seeley ⁽¹⁾ - Gemma Wilson ⁽¹⁾ - Kristina Comacchio ⁽¹⁾ - Dennis H Lau ⁽¹⁾

⁽¹⁾ Adelaide University, Australian Dysautonomia and Arrhythmia Research Collaborative, Adelaide, Australia

P16 / Day 1 - Beyond the tilt table test: resting HRV analysis for non-invasive detection of cardiovascular dysautonomia

Letizia Portanti ⁽¹⁾ - Angelica Carandina ⁽¹⁾ - Nicola Montano ⁽¹⁾ - Eleonora Tobaldini ⁽¹⁾ - Enrico Caiani ⁽²⁾ - Sarah Solbiati ⁽²⁾ - Emanuele Tauro ⁽²⁾

⁽¹⁾ Policlinico di Milano, Internal medicine department, Milano, Italy - ⁽²⁾ Politecnico di Milano, DEIB, Milano, Italy

P17 / Day 1 – Orthostatic hypertension is associated with greater limitations in basic activities of daily living among geriatric outpatients: a retrospective analysis

Jordy Saren ⁽¹⁾ - Aziz Debain ⁽¹⁾

⁽¹⁾ Universitair Ziekenhuis Brussel, Geriatrics, Jette, Belgium

P18 / Day 1 - Selected Parameters of Autonomic Modulation of Blood Circulation in Parkinson's Disease

Jan Galuszka ⁽¹⁾ - Michaela Kaiserová ⁽²⁾ - Jana Zapletalová ⁽³⁾ - Dana Galuszková ⁽⁴⁾ - Alan Bulava ⁽¹⁾

- ⁽¹⁾ Cardiology, Olomouc, Czech Republic - ⁽²⁾ Faculty of Medicine and Dentistry Palacký University Olomouc, University Hospital Olomouc, Department of Neurology, Olomouc, Czech Republic - ⁽³⁾ Faculty of Medicine and Dentistry Palacký University Olomouc, Palacký University Olomouc, Department of Medical Biophysics, Olomouc, Czech Republic - ⁽⁴⁾ University Hospital Olomouc, University Hospital Olomouc, Department of Blood Transfusion, Olomouc, Czech Republic

P19 / Day 1 - Autonomically Defined Fear and Recovery States Shape Cortical Activity Patterns

Sophie Bagur

ESPCI-PSL Research University, Brain Plasticity Lab, Paris, France

P20 / Day 1 - Changes in Cardiovascular and Hypothalamic Neural Excitability Responses in Dominant Animals during Social Defeat Stress

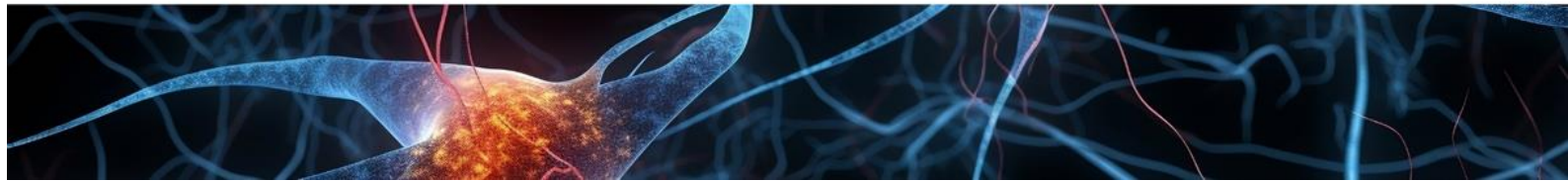
Natsuki Ishizaka ⁽¹⁾ - Mio Matsuyama ⁽²⁾ - Joji Horiuchi ⁽¹⁾

⁽¹⁾ Toyo University, Department of Biomedical Engineering, Toyo University, Asaka, Saitama, Japan - ⁽²⁾ Juntendo University, Institute of Sport and Health Science, Juntendo University, Inzai, Chiba, Japan

P21 / Day 1 - Increased PVN to NTS Signaling May Underlie Exaggerated Bezold Jarisch Reflex Bradycardia in a Murine SUDEP Model with Stress Hyperreactivity

Sandy Saunders ⁽¹⁾ - Marlusa Karlen-Amarante ⁽¹⁾ - Jamie Maguire ⁽²⁾ - Carrie Boychuk ⁽¹⁾

⁽¹⁾ University of Missouri, Dalton Cardiovascular Research Center, Columbia, United States - ⁽²⁾ Tufts University, Department of Neuroscience, Boston, United States



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P22 / Day 1 - Autonomic skin responses in bortezomib treated multiple myeloma

Mette Kathrine Nygaard ⁽¹⁾ - Niels Frost Andersen ⁽¹⁾ - Henning Andersen ⁽²⁾ - Niels Abildgaard ⁽³⁾ - Sif Gylfadottir ⁽⁴⁾ - Nanna Brix Finnerup ⁽⁵⁾ - Astrid Juhl Terkelsen ⁽²⁾

⁽¹⁾ Dept. of Hematology, Aarhus University Hospital, Dept. of Clinical Medicine, Aarhus University, Aarhus, Denmark -

⁽²⁾ Dept. of Neurology, Aarhus University Hospital, Dept. of Clinical Medicine, Aarhus University, Aarhus, Denmark - ⁽³⁾

Dept. of Hematology, Odense University Hospital, Dept. of Clinical Research, University of Southern Denmark, Odense,

Denmark - ⁽⁴⁾ Dept. of Neurology, Aarhus University Hospital, Danish Pain Research Center, Dept. of Clinical Medicine,

Aarhus University, Aarhus, Denmark - ⁽⁵⁾ Dept. of Clinical Medicine, Aarhus University, Danish Pain Research Center,

Dept. of Clinical Medicine, Aarhus University, Aarhus, Denmark

P23 / Day 1 - SLEEP-Twin: Multimodal Sleep Stage Classification in Mice Using a Digital Twin Framework

Rohma Ahmed ⁽¹⁾ - Stefano Bastianini ⁽¹⁾ - Chiara Berteotti ⁽¹⁾ - Muhammad Azaz Farooq ⁽²⁾ - Silvia Gioiosa ⁽³⁾ - Viviana Lo Martire ⁽¹⁾ - Giovanna Zoccoli ⁽¹⁾ - Elisa Rossi ⁽³⁾

⁽¹⁾ Alma Mater Studiorum, University of Bologna, Department of Biomedical and Neuromotor Science, Bologna, Italy

- ⁽²⁾ Alma Mater Studiorum, University of Bologna, Department of Computer Science and Engineering, Bologna, Italy

- ⁽³⁾ Cineca, HPC Department, Cineca Interuniversity Consortium, Bologna, Italy

P24 / Day 1 - Systemic and Cutaneous Immune Signatures in Autoimmune-Associated Idiopathic Small Fiber Neuropathy

Wei Siong Ong ⁽¹⁾ - Boxuan Zhang ⁽¹⁾ - Amanda CY Chan ⁽¹⁾

⁽¹⁾ National University of Singapore, Medicine, Singapore, Singapore

P25 / Day 1 - Thermal effects of kilohertz-frequency nerve block in the vagus nerve of rats

Cheng-Yu Chen ⁽¹⁾ - Edgar Peña ⁽¹⁾

⁽¹⁾ University of Minnesota, Biomedical engineering department, Minneapolis, United States

P26 / Day 1- Electrical Vagal Stimulation Regulates Peripheral Orexin Levels in Experimental Endotoxemia

Kolgazi Meltem

Acibadem University Medical School, Department of Physiology, Atasehir, Istanbul, Turkey

P27 / Day 1- Alteration of heart rate variability response to CO2 in different epileptic rat models

Auriane Apaire ⁽¹⁾ - Elise Collard ⁽¹⁾ - Enrique Germany Morrison ⁽¹⁾ - Ayse Dereli ⁽¹⁾ - Riëm El Tahry ⁽¹⁾

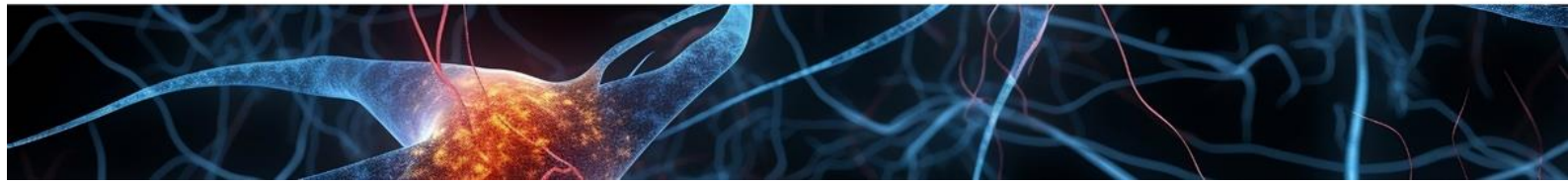
⁽¹⁾ UCLouvain, UCLouvain, Bruxelles, Belgium

P28 / Day 1 - Oral Inflammation, Edentulism, and Autonomic Dysfunction in Hypertensive Complete Denture Wearers

Helio Salgado ⁽¹⁾ - Julio Cesar Taffarel ⁽²⁾ - Lorena Mosconi Clemente ⁽²⁾ - Evandro Watanabe ⁽²⁾ - Cláudia Helena Lovato da Siva ⁽²⁾ - Adriana Barbosa Ribeiro ⁽²⁾

- ⁽¹⁾ University of São Paulo, Ribeirão Preto Medical School - University of São Paulo, Ribeirão Preto, Brazil - ⁽²⁾

Ribeirão Preto School of Dentistry, University of São Paulo, Ribeirão Preto, Brazil



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P29 / Day 1 - Choline precursor supplementation improves excitatory/inhibitory homeostasis experimental autism model

Derya Oktay ⁽¹⁾ - **Ozun Ozcan** ⁽²⁾ - **Ekin Dongel-Dayanc** ⁽³⁾ - **Ismail Hakki Ulusoy** ⁽⁴⁾ - **Meltem Kolgazi** ⁽⁵⁾

⁽¹⁾ Acibadem University, Institute of Health Sciences, Department of Neuroscience, Istanbul, Turkey - ⁽²⁾ Middle East Technical University, Department of Biological Sciences, Molecular Biology & Genetics, Ankara, Turkey - ⁽³⁾ Acibadem University, Institute of Health Sciences, Department of Physiology, Istanbul, Turkey - ⁽⁴⁾ Okan University, School of Medicine, Department of Medical Pharmacology, Istanbul, Turkey - ⁽⁵⁾ Acibadem University, School of Medicine, Department of Physiology, Istanbul, Turkey

P30 / Day 1 - Orthostatic Intolerance and Cardiovascular Autonomic Control: should we phenotype the patients?

Angelica Carandina ⁽¹⁾ - **Thais Marques da Silva** ⁽²⁾ - **Greta Salafia** ⁽¹⁾ - **Francesca Magna** ⁽¹⁾ - **Letizia Portanti** ⁽¹⁾ - **Lucia Silvia Giobbi** ⁽¹⁾ - **Gabriel Dias Rodrigues** ⁽³⁾ - **Sarah Garfinkel** ⁽⁴⁾ - **Nicola Montano** ⁽⁵⁾ - **Eleonora Tobaldini** ⁽⁵⁾

⁽¹⁾ Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Department of Internal Medicine, Milan, Italy - ⁽²⁾ Ribeirao Preto Medical School, University of São Paulo, Department of Physiology, Ribeirao Preto, Brazil - ⁽³⁾ Federal Fluminense University, 4Health Lab, Department of Physiology and Pharmacology, Niteroi, Brazil - ⁽⁴⁾ University College London, Institute of Cognitive Neuroscience, London, United Kingdom - ⁽⁵⁾ University of Milan, Department of Clinical Sciences and Community Health, Department of Excellence 2023-2027, Milan, Italy

P31 / Day 1 - Diagnosis of neurogenic orthostatic hypotension in idiopathic polyneuropathy – screening with modified active stand test and 24-hour ambulatory blood pressure.

Markus Hedin Fedder ⁽¹⁾ - **Stig Holt Bøgh** ⁽¹⁾ - **Naja Helt Andersen** ⁽¹⁾ - **Anne Brink Behrndtz** ⁽²⁾ - **Elida Marie Folkedal Hole** ⁽¹⁾ - **Mette Kathrine Nygaard** ⁽³⁾ - **Jenny-Ann Phan** ⁽²⁾ - **Mathilde Thrysøe** ⁽¹⁾ - **Henning Andersen** ⁽¹⁾ - **Astrid Juhl Terkelsen** ⁽¹⁾

⁽¹⁾ Aarhus University Hospital, Aarhus University Hospital, Neurology, Aarhus, Denmark - ⁽²⁾ Gødstrup Regional Hospital, Gødstrup Regional Hospital, Neurology, Herning, Denmark - ⁽³⁾ Aarhus University Hospital, Aarhus University Hospital, Hematology, Aarhus, Denmark

P32 / Day 1 - Investigating the cause of chest pain in Postural Orthostatic Tachycardia Syndrome using cardiac magnetic resonance imaging

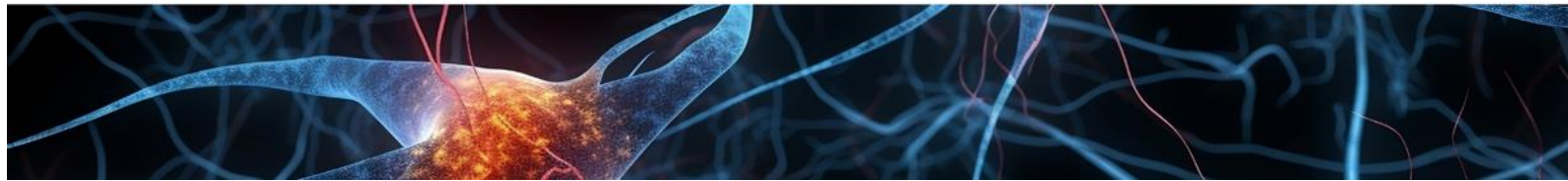
Kavithra Karalasingham ⁽¹⁾ - **Dina Labib** ⁽¹⁾ - **Sandra Rivest** ⁽¹⁾ - **Rashmin Hira** ⁽¹⁾ - **Julio Garcia Flores** ⁽¹⁾ - **Satish Raj** ⁽¹⁾

⁽¹⁾ University of Calgary, University of Calgary, Calgary, Canada

P33 / Day 1 - Are lower limb venous compliance and calf muscle pump function associated with the heart rate responses to standing in postural orthostatic tachycardia syndrome?

Greer Pugh ⁽¹⁾ - **Anna-Catharina Veer** ⁽¹⁾ - **Jui-Lin Fan** ⁽¹⁾ - **Marie-Claire Seeley** ⁽²⁾ - **Kate Thomas** ⁽³⁾ - **James Fisher** ⁽¹⁾

⁽¹⁾ University of Auckland, Department of Physiology, Auckland, New Zealand - ⁽²⁾ Adelaide University, Faculty of Health and Medical Science, Adelaide, Australia - ⁽³⁾ University of Otago, Department of Surgical Sciences, Dunedin, New Zealand



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P34 / Day 1 - Exercise-Induced Respiratory Variability Is Associated with Motor Severity in Moderate Parkinson's Disease

Marcela S. Araujo ⁽¹⁾ - **Muhammad M. Kathia** ⁽²⁾ - **Sergiu-Gabriel Duplea** ⁽²⁾ - **Julian C. Bommarito** ⁽²⁾ - **Devin G. McCarthy** ⁽²⁾ - **Barbara Connolly** ⁽³⁾ - **Philip J. Millar** ⁽²⁾ - **Lauro C. Vianna** ⁽¹⁾

- ⁽¹⁾ Integrative Physiology Laboratory, Faculty of Physical Education, University of Brasília, Brasília, Brazil - ⁽²⁾ Human Cardiovascular Physiology Laboratory, Department of Human Health and Nutritional Sciences, College of Biological Sciences, University of Guelph, Guelph, Canada - ⁽³⁾ Division of Neurology, Department of Medicine, McMaster University, Hamilton, Canada

P35 / Day 1 - Characterization of autonomic dysfunction in prodromal and early stages of Parkinson's Disease

Ilaria Cani ⁽¹⁾ - **Luca Baldelli** ⁽¹⁾ - **Pietro Guaraldi** ⁽¹⁾ - **Benedetta Calò** ⁽²⁾ - **Giannicola Carrozzo** ⁽²⁾ - **Felice Di Laudo** ⁽²⁾ - **Giulia Giannini** ⁽¹⁾ - **Luisa Sambati** ⁽¹⁾ - **Pietro Cortelli** ⁽²⁾ - **Federica Provini** ⁽¹⁾ - **Giovanna Calandra-Buonaura** ⁽¹⁾

⁽¹⁾ IRCCS Istituto delle Scienze Neurologiche di Bologna, Bellaria Hospital, Bologna, Italy - ⁽²⁾ Department of Biomedical and NeuroMotor Sciences (DIBINEM), University of Bologna, Bologna, Italy

P36 / Day 1 - Physical exercise prevents cardiorespiratory nuclei degeneration, breathing and baroreflex dysfunction in 6-OHDA Parkinson's disease rat model

Pamela Medeiros ⁽¹⁾ - **Luiz Fernando Pedrão** ⁽¹⁾ - **Barbara Falquetto** ⁽¹⁾

⁽¹⁾ University of Sao Paulo, Pharmacology, São Paulo, Brazil

P37 / Day 1-Cardiovascular dysautonomia and cognitive fluctuations in neuronal alpha-synuclein diseases

Giulia Saccardin ⁽¹⁾ - **Serena Coniglio** ⁽¹⁾ - **Marco Bisquoli** ⁽²⁾ - **Chiara Mussi** ⁽²⁾ - **Vittorio Rispoli** ⁽¹⁾

- ⁽¹⁾ UOC Neurologia, Ospedale Civile di Baggiovara, Modena, Italy - ⁽²⁾ Università degli Studi di Modena e Reggio, Ospedale Civile di Baggiovara, Modena, Italy

P38 / Day1 - Breathing as a potential interoceptive signal for decision-making under uncertainty

Nivea de Gusmao ⁽¹⁾ - **Sophie Bagur** ⁽¹⁾ - **Ella Callas** ⁽¹⁾ - **Charlotte Cany** ⁽¹⁾

⁽¹⁾ ESPCI Paris, Brain Plasticity Unit, Paris, France

P39 / Day 1 - Characterising the premotor network of swallowing in mice

Annaliese Eymael

Neurobiology of Vital System, Macquarie University, Sydney, Australia

P40 / Day 1 - Brain-wide c-Fos/FosB mapping of intrinsic drive and social dependency for voluntary exercise using a social wheel cage

Mio Matsuyama ⁽¹⁾ - **Kanna Sunama** ⁽¹⁾ - **Linh Thuy Pham** ⁽¹⁾ - **Han Seungah** ⁽¹⁾ - **Hidefumi Waki** ⁽¹⁾ - **Ko Yamanaka** ⁽¹⁾

⁽¹⁾ Department of Physiology, Health and Sports Science, Juntendo University, Inzai, Chiba, Japan

P41 / Day 1 - GABA Neurons In Nucleus Tractus Solitarius Are Positioned As Premotor Motor Hubs for Corticobulbar Laryngeal Control

Christopher Romero

Pathobiology and Integrative Biomedical Sciences (PIBS), University of Missouri - Columbia, Columbia, United States



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P42 / Day 1 - Seasonal Variations and Air Pollutant Associations in Ischemic and Hemorrhagic Stroke: A Retrospective Analysis

HİLAL ÇAĞLAR ⁽¹⁾ - Serefnur Öztürk ⁽²⁾ - Kadir Çağlar ⁽²⁾

⁽¹⁾ bursa, gemlik hospital, bursa, Turkey - ⁽²⁾ selcuk tıp fakültesi, selcuk tıp fakültesi, konya, Turkey

P43 / Day 1 - Autonomic recovery markers outperform a PCA-derived autonomic index in predicting relative peak power

Jorge Lopes Storniolo ⁽¹⁾ - Alessandro Pizzetti ⁽²⁾ - Tanzi Massimo ⁽¹⁾ - Paolo Cavallari ⁽²⁾

⁽¹⁾ Istituto Auxologico Italiano, Experimental Laboratory of Neuromotor Physiopathology, Meda, Italy - ⁽²⁾ University of Milan, Department of Pathophysiology and Transplantation, Milano, Italy

P44 / Day1 - Autonomic Control, Bone Metabolism and Body Composition Adaptations to Simulated Microgravity: The DAYSTAR Project

Greta Salafia ⁽¹⁾ - Angelica Carandina ⁽¹⁾ - Thais Marques da Silva ⁽¹⁾ - Francesca Magna ⁽¹⁾ - Gabriel Dias Rodrigues ⁽²⁾ - Ines Antunes ⁽³⁾ - Gabriel Rios ⁽³⁾ - Marta Del Bianco ⁽⁴⁾ - Dominique Moser ⁽⁵⁾ - Alexander Choukér ⁽⁵⁾ - Eleonora Tobaldini ⁽⁶⁾ - Nicola Montano ⁽⁶⁾

⁽¹⁾ Department of Internal Medicine, Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy., Fondazione Ca' Granda Ospedale Maggiore Policlinico di Milano, Milano, Italy - ⁽²⁾ Department of Physiology and Pharmacology, Fluminense Federal University, Niteroi, Rio de Janeiro, Brazil, Fluminense Federal University, Niteroi, Rio de Janeiro, Brazil - ⁽³⁾ Directorate of Human and Robotic Exploration Programmes (HRE-RS), European Space Agency, Noordwijk, The Netherlands, European Space Agency, Noordwijk, Netherlands - ⁽⁴⁾ Italian Space Agency, Rome, Italy., ASI, Roma, Italy - ⁽⁵⁾ Laboratory of Translational Research 'Stress and Immunity', Department of Anesthesiology Sensory circuits for the recruitment of swallow.gy, LMU Hospital, Ludwig-Maximilians-Universität, Munich, German, Department of Anesthesiology, LMU Hospital, Ludwig-Maximilians-Universität, Munich, Germany - ⁽⁶⁾ Department of Clinical Sciences and Community Health, Dipartimento di Eccellenza 2023-2027, University of Milan, Milan, Italy., Department of Clinical Sciences and Community Health, Dipartimento di Eccellenza 2023-2027, University of Milan, Milano, Italy

P45 / Day 1 Fructose Ingestion During The Peripubertal Period Increase Blood Pressure And Sympathetic Activity In Adult Male But Not In Female Rats

Leonardo Castro Rodrigues ⁽¹⁾ - Fernanda Campos Medeiros ⁽¹⁾ - Eduardo Colombari ⁽¹⁾ - José Vanderlei Menani ⁽¹⁾ - **Débora Simões Almeida Colombari** ⁽¹⁾

⁽¹⁾ School Of Dentistry, São Paulo State University (UNESP), Araraquara, Brazil

P46 / Day 1 - A Pilot Study of Phosphorylated Alpha-Synuclein Detection and Quantitation from Routine Colonic Biopsies in Patients with Parkinson's disease

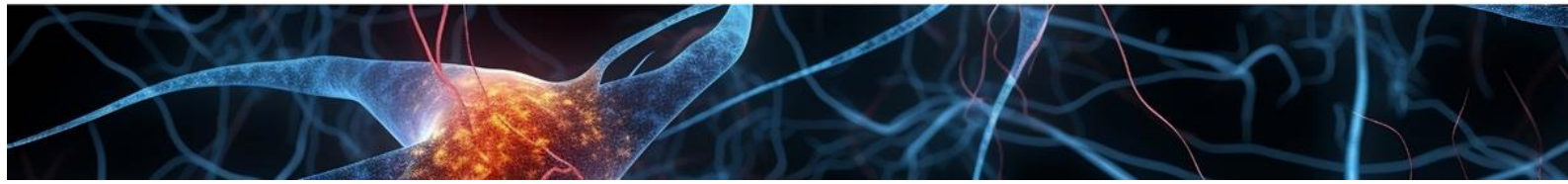
Christopher Gibbons ⁽¹⁾ - Roy Freeman ⁽¹⁾ - Bailey Bellaire ⁽²⁾ - Jourdan Parent ⁽³⁾ - Sarrach Marcotte ⁽³⁾ - Manuel Duval ⁽³⁾ - Todd Levine ⁽²⁾

⁽¹⁾ Beth Israel Deaconess Medical Center, Harvard Medical School, Neurology, Boston, United States - ⁽²⁾ CND Life Sciences, Neurology, Scottsdale, United States - ⁽³⁾ CND Life Sciences, Neurology, Brookline, United States

P47 / Day 1 - Muscle sympathetic nerve activity across the menopause transition in healthy females: role for reproductive hormones

Anna Gonsalves ⁽¹⁾ - Natasha Boyes ⁽²⁾ - Vina Vedala ⁽¹⁾ - Cecile El-Borgi ⁽¹⁾ - Jacqueline Limberg ⁽¹⁾

- ⁽¹⁾ Columbia, Department of Nutrition & Exercise Physiology, Columbia, United States - ⁽²⁾ Marquette University, Department of Physical Therapy, Milwaukee, United States



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P48 / Day 1 - Impact of age on autonomic symptoms and quality-of-life in individuals with Orthostatic Intolerance- Postural Orthostatic Tachycardia Syndrome (POTS) Vs. Postural Symptoms Without Tachycardia (PSWT)

Gemma Wilson ⁽¹⁾ - Marie-Claire Seeley ⁽¹⁾ - Celine Gallagher ⁽¹⁾ - Dennis Lau ⁽¹⁾

⁽¹⁾ The Australian Dysautonomia and Arrhythmia Research Collaborative, Adelaide University, Adelaide, Australia

P49 / Day 1 - Age-dependent changes in vasopressin signaling and urine production in the bat (*carollia perspicillata*)

Anthony James ⁽¹⁾ - Peace Deh ⁽²⁾ - Richard Kollmar ⁽³⁾ - Jeff Weiss ⁽¹⁾ - Mark Stewart ⁽⁴⁾ - **Rena Orman** ⁽²⁾

⁽¹⁾ SUNY Downstate Health Sciences University, Department of Urology, Brooklyn, United States - ⁽²⁾ SUNY Downstate Health Sciences University, Physiology&Pharmacology, Brooklyn, United States - ⁽³⁾ SUNY Downstate Health Sciences University, Department of Cell Boiology, Brooklyn, United States - ⁽⁴⁾ SUNY Downstate Health Sciences University, Physiology & Pharmacology, Brooklyn, United States

P50 / Day 1 - Interoception in Hydrocephalus: CSF Hydrodynamics, Intracranial Baroreflex, and Autonomic Rebalancing by Shunting.

Eric Schmidt ⁽¹⁾ - Giorgio Palandri ⁽²⁾ - Anne Pavy Le Traon ⁽³⁾

⁽¹⁾ Departement of Neurosurgery, University Hospital, TOULOUSE, France - ⁽²⁾ Department of Neurosurgery, University Hospital, Bologna, Italy - ⁽³⁾ Department of Neurology, University Hospital, TOULOUSE, France

P51 / Day 1 - Catecholamines in sepsis: pharmacological insights and clinical applications—a narrative review

Iacopo Belfiore ⁽¹⁾ - Riccardo Taddei ⁽²⁾

⁽¹⁾ Università degli Studi di Pisa, Transplant anesthesia and critical care, university of Pisa, Pisa, Italy - ⁽²⁾ Università degli Studi di Pisa, University of Pisa, Pisa, Italy

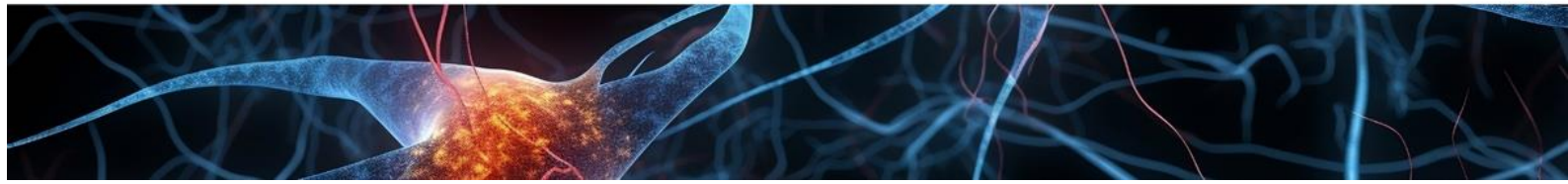
P52 / Day 1 - Self-organized criticality, dragon kings, black swans, and the prediction of vasovagal syncope
Sarah Kerkouri ⁽¹⁾ - **Jacques-olivier Fortrat** ⁽²⁾

⁽¹⁾ CHU Brest, Ophthalmology, Brest, France - ⁽²⁾ CHU Angers, Médecine vasculaire, Angers, France

P53 / Day 1 - Abdominal Binders To Treat Orthostatic Hypotension In Parkinsonian Syndromes: A Randomized, Double-blind, Crossover Phase II Trial

Fabian Leys ⁽¹⁾ - Nicole Campese ⁽¹⁾ - Victoria Sidoroff ⁽²⁾ - Francesca Terranova ⁽³⁾ - Bianca Calì ⁽¹⁾ - Katharina Gotwald ⁽²⁾ - Giulia Saccardin ⁽¹⁾ - Kathrin Marini ⁽²⁾ - Marina Peball ⁽²⁾ - Cecilia Raccagni ⁽⁴⁾ - Heike Stockner ⁽²⁾ - Bastiaan R Bloem ⁽⁵⁾ - Roberta Granata ⁽¹⁾ - Stefan Kiechl ⁽²⁾ - Jochen Klucken ⁽³⁾ - Werner Poewe ⁽²⁾ - Klaus Seppi ⁽²⁾ - Roland D Thijs ⁽⁶⁾ - Stefano Sapienza ⁽³⁾ - Georg Goebel ⁽⁷⁾ - Gregor K Wenning ⁽¹⁾ - Alessandra Fanciulli ⁽¹⁾

⁽¹⁾ European Federation of Autonomic Societies, Department of Neurology, Medical University of Innsbruck, Innsbruck, Austria - ⁽²⁾ -, Department of Neurology, Medical University of Innsbruck, Innsbruck, Austria - ⁽³⁾ -, Department of Digital Medicine, Luxembourg Centre for Systems Biomedicine, University of Luxembourg, Esch-sur Alzette, Luxembourg - ⁽⁴⁾ -, Department of Neurology, Hospital of Bolzano (SABES-ASDAA), Teaching Hospital of Paracelsus Medical University, Bolzano-Bozen, Italy - ⁽⁵⁾ -, Department of Neurology, Center of Expertise for Parkinson and Movement Disorders, Radboud University Medical Center, Nijmegen, Netherlands - ⁽⁶⁾ -, Department of Neurology, Leiden University Medical Centre (LUMC), Leiden, Netherlands - ⁽⁷⁾ -, Department of Medical Statistics, Informatics and Health Economics, Medical University of Innsbruck, Innsbruck, Austria



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DAY 1 – THURSDAY 3rd SEPTEMBER

P54 / Day 1 - Autonomic control of the Glymphatic “Brain Drain”

Jack Sloan ⁽¹⁾ - Courtney Brighthouse ⁽¹⁾ - Carolyn Barrett ⁽¹⁾ - Tonja Emans ⁽¹⁾ - Fiona McBryde ⁽¹⁾

⁽¹⁾ University of Auckland, University of Auckland, dept of Physiology, Auckland, New Zealand

P55 / Day 1 - Mapping the Autonomic Landscape of Unpleasant Experiences through SCR, Heart Rate, and Pupillometry

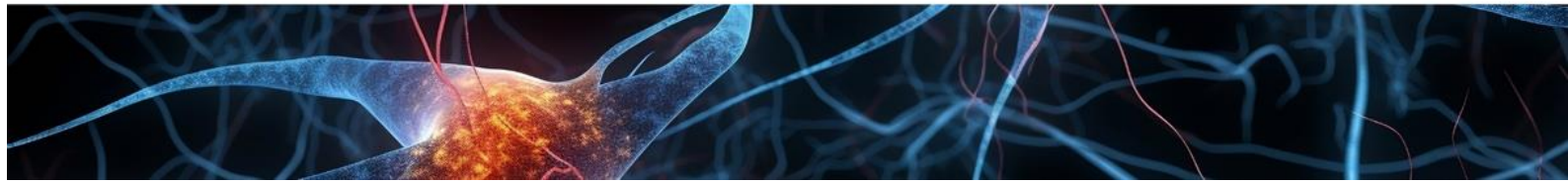
Maria Rosa Bufo ⁽¹⁾ - Roger Watkins ⁽¹⁾ - Rochelle Ackerley ⁽¹⁾

⁽¹⁾ CNRS, Aix-Marseille Université, Marseille, France

P56 / Day 1 - Auto-induced cognitive trance modulates the physiological response to stress

Sabrina Rodrigues ⁽¹⁾ - François Feron ⁽²⁾ - Agnès Trébuchon ⁽³⁾

⁽¹⁾ Institut de Neurosciences des Systèmes/Institute of Neuropsychopathology, Aix-Marseille University, Marseille, France - ⁽²⁾ Institute of Neuropsychopathology, Aix-Marseille University, Marseille, France - ⁽³⁾ Institut de Neurosciences des Systèmes, Aix-Marseille University, Marseille, France



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DAY 2 – FRIDAY 4th SEPTEMBER

P1 /Day 2 - STED microscopy and transmission electron microscopy reveal mitochondrial reverse remodelling following respiratory heart rate variability pacing in heart failure

Serah 'Otukolo ⁽¹⁾ - **George Guo** ⁽¹⁾ - **Julia Shanks** ⁽¹⁾ - **Mridula Pachan** ⁽¹⁾ - **Jizhong Bai** ⁽¹⁾ - **Hussam Moammer** ⁽¹⁾ - **Martin Middleditch** ⁽¹⁾ - **Chris Pook** ⁽¹⁾ - **Eric Thorstensen** ⁽¹⁾ - **Audrys Pauza** ⁽¹⁾ - **Angus Grey** ⁽¹⁾ - **Julian Paton** ⁽¹⁾ - **Rohit Ramchandra** ⁽¹⁾ - **David Crossman** ⁽¹⁾

⁽¹⁾ University of Auckland, University of Auckland, Auckland, New Zealand

P2/ Day 2 - Adding carbon dioxide to acute intermittent hypoxia potentiates sympathetic long-term facilitation in rodents with high-thoracic spinal cord injury

Mina Kafashi ⁽¹⁾ - **Oliver Wearing** ⁽¹⁾ - **Tara Fortino** ⁽¹⁾ - **Julia Hansen** ⁽¹⁾ - **Paige pomeroy** ⁽¹⁾ - **Christopher West** ⁽¹⁾

⁽¹⁾ University of British Columbia, Department of Cellular and Physiological Sciences, Vancouver, Canada

P3 / Day 2 - Efficacy of six weeks of supervised Yoga on pain perception and autonomic profile in Fibromyalgia Patients: A Randomised Controlled Trial.

Garima Sharma ⁽¹⁾ - **Uma Kumar** ⁽²⁾ - **Rajkumar Yadav** ⁽¹⁾ - **Renu Bhatia** ⁽¹⁾

⁽¹⁾ AIIMS New Delhi, Physiology, New Delhi, India - ⁽²⁾ AIIMS New Delhi, Medicine, New Delhi, India

P4 / Day 2 - Mesenteric venous blood volume shift by adrenergic blockade in conscious hypertensive rats.

Tonja Emans ⁽¹⁾ - **Courtney Brighthouse** ⁽¹⁾ - **Jack Sloan** ⁽¹⁾ - **Carolyn Barrett** ⁽¹⁾ - **Julian Paton** ⁽¹⁾ - **Fiona McBryde** ⁽¹⁾

⁽¹⁾ Manaaki Mānawa – The Centre for Heart Research, Department of Physiology, University of Auckland, Auckland, New Zealand

P5 /Day 2 - Attenuating Cardiac Sympathetic Tone via Cryoneurolytic Stellate Ganglion Ablation

Rami Aladham ⁽¹⁾ - **Wei-Hsin Chung** ⁽¹⁾ - **Sahil Haridas** ⁽¹⁾ - **Lily DeFelice** ⁽¹⁾ - **Steven Cha** ⁽¹⁾ - **Shyue-An Chan** ⁽²⁾ - **Jeffery Ardell** ⁽¹⁾ - **Olujimi Ajijola** ⁽¹⁾ - **Peter Hanna** ⁽¹⁾

⁽¹⁾ University of California, Los Angeles, David Geffen School of Medicine / Division of Cardiology, Los Angeles, United States - ⁽²⁾ Case Western Reserve University, Case Western Reserve University / Department of Physiology and Biophysics, Cleveland, United States

P6 / Day 2 - Short-term heart rate variability assessment shows transient vagal dysfunction at 4 weeks post-surgery for head and neck cancer

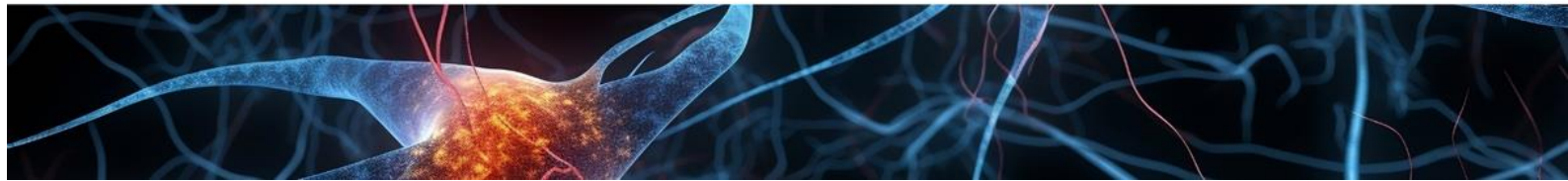
Dinu Santha Chandran ⁽¹⁾ - **Priyanka Agarwal** ⁽²⁾ - **Nikunj Aggarwal** ⁽²⁾ - **Mridul Rathi** ⁽²⁾ - **Smriti Panda** ⁽²⁾

⁽¹⁾ All India Institute of Medical Sciences, New Delhi, Department of Physiology, New Delhi, India - ⁽²⁾ All India Institute of Medical Sciences, New Delhi, Department of E.N.T., New Delhi, India

P7 / Day 2 - Chronotropic Incompetency at the Onset of Volitional Handgrip Exercise in Individuals With Drug-Resistant Epilepsy

Pascal Pelloquin ⁽¹⁾ - **Hannah Gray** ⁽¹⁾ - **Grace Vo-Edwards** ⁽¹⁾ - **Matteo Biglioli** ⁽¹⁾ - **Denis Tzvetkov** ⁽¹⁾ - **Jorge Burneo** ⁽²⁾ - **Giovanni Pelligrino** ⁽²⁾ - **Helen Kreinter** ⁽³⁾ - **Ana Suller-Marti** ⁽²⁾ - **Kevin Shoemaker** ⁽¹⁾

⁽¹⁾ University of Western Ontario, Kinesiology, London, Canada - ⁽²⁾ University of Western Ontario, Neurology, London, Canada - ⁽³⁾ Ottawa Hospital Research Institute, Ottawa, Ottawa, Canada



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P8 / Day 2- Preferential renal tubular injury and increased renal sympathetic activity occur during the early stages of DOCA-Salt hypertension in male rats

Edina Da Luz Abreu ⁽¹⁾ - Rafael Santos Carvalhal ⁽¹⁾ - Ana Caroline Marreiros ⁽²⁾ - Stephanie Furtado Gerolin ⁽²⁾ - Laura Barroso Ferreira Oliveira ⁽³⁾ - Maria Eduarda Abreu Cunha ⁽³⁾ - Diogo Barros Peruchetti ⁽³⁾ - Cristiane Damas Gil ⁽⁴⁾ - Cássia Toledo Bergamaschi ⁽²⁾ - Ruy Ribeiro de Campos Junior ⁽²⁾

⁽¹⁾ UNIFESP, Physiology, São Paulo, Brasil - ⁽²⁾ UNIFESP, Physiology, São Paulo, Brazil - ⁽³⁾ UFMG, Physiology, Belo Horizonte, Brasil - ⁽⁴⁾ UNIFESP, Morphology, São Paulo, Brasil

P9 / Day 2 - Ambulatory Blood Pressure Monitoring In Persons With Spinal Cord Injury

Thomas Høgh-Maagaard ⁽¹⁾ - Jørgen Vibjerg ⁽¹⁾ - Alexander Lunde Ammitzbøll ⁽¹⁾ - Paul Rober ⁽¹⁾ - Vasilica Lazarini ⁽¹⁾ - **Ellen Merete Hagen** ⁽²⁾

⁽¹⁾ Viborg Regional Hospital, Department of Neurology, Viborg, Denmark - ⁽²⁾ Viborg Regional Hospital/ Aarhus University, Department of Neurology/ Department of Clinical Medicine, Viborg, Denmark

P10 / Day 2 - Thoracoscopic Bilateral Sympathectomy for Medically Refractory Vasospastic Angina

Jin Yong Jeong ⁽¹⁾ - Jaeho Byeon ⁽²⁾

⁽¹⁾ Korean Society for Thoracic & Cardiovascular Surgery, Incheon St. Mary's Hospital / College of Medicine, The Catholic University of Korea / Department of Thoracic & Cardiovascular Surgery, Incheon, Korea, Republic Of - ⁽²⁾ Korean Society of Cardiology, Incheon St. Mary's Hospital / College of Medicine, The Catholic University of Korea / Department of Cardiology, Incheon, Korea, Republic Of

P11 / Day 2 - Pyridostigmine for autonomic dysfunction and symptoms in post-COVID- 19 condition: a randomized double-blind placebo-controlled crossover clinical trial.

Joelma Carvalho ⁽¹⁾ - Natalia Rocha ⁽¹⁾ - Helena Rocha ⁽¹⁾ - João Dario de Mattos ⁽¹⁾ - Eliza Prodel ⁽¹⁾ - João Paulo Carvalho ⁽¹⁾ - Maria Argentino ⁽¹⁾ - Gabriela Menezes ⁽²⁾ - Renata Teixeira Castro ⁽¹⁾ - Antonio Claudio Nóbrega ⁽¹⁾

⁽¹⁾ Laboratory of Exercise Sciences, Federal Fluminense University, Niterói, Brazil - ⁽²⁾ Universidade de Iguazu, Universidade de Iguazu, Rio de Janeiro, Brazil

P12 / Day 2 - Feasibility of proteomic profiling of PLP1-tdTomato-positive glial cells from the heart

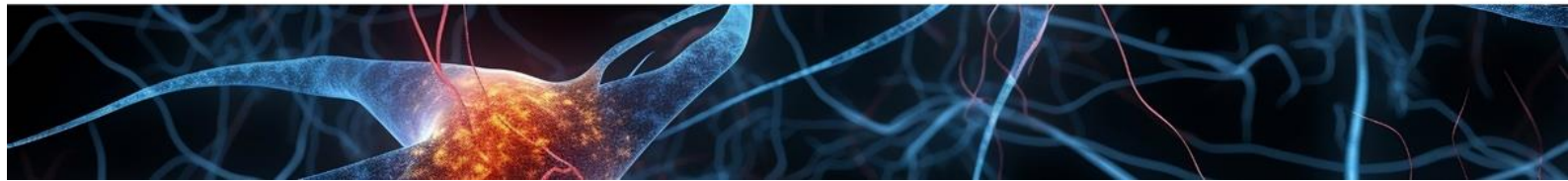
Paula Hebing ⁽¹⁾ - Yu-Wen Dai ⁽¹⁾ - Amin Daryaie ⁽¹⁾ - Christof Lenz ⁽²⁾ - Lisa Neuenroth ⁽²⁾ - Jose Gomez-Sanchez ⁽³⁾ - Nikolaj Klöcker ⁽¹⁾ - Christian Meyer ⁽⁴⁾ - Katharina Scherschel ⁽¹⁾

⁽¹⁾ Universitätsklinikum Düsseldorf, Institut für Neuro- und Sinnesphysiologie, Düsseldorf, Germany - ⁽²⁾ Universitätsmedizin Göttingen, Interdisziplinäres UMG-Labor, Göttingen, Germany - ⁽³⁾ Universidad Miguel Hernández de Elche, Instituto de Neurociencias, Alicante, Spain - ⁽⁴⁾ Evangelisches Krankenhaus Düsseldorf, Klinik für Kardiologie, Düsseldorf, Germany

P13 / Day 2 - Renal nerve afferents drive preferential renal sympathoexcitation in response to acute renal ischemia/reperfusion in rats.

Ana C. Marreiros ⁽¹⁾ - Rafael S. Carvalhal ⁽¹⁾ - Maya Okuyama ⁽¹⁾ - Maycon I. Milanez ⁽¹⁾ - Edina A. Da Luz ⁽¹⁾ - Erika E. Nishi ⁽¹⁾ - Rodrigo Dantas L.M. ⁽¹⁾ - Mark M. Knuepfer ⁽²⁾ - Cassia T. Bergamaschi ⁽¹⁾ - **Ruy R Campos**

⁽¹⁾ School of Medicine, Physiology Department, São Paulo, Brazil - ⁽²⁾ Saint Louis University - SLU, School of Medicine - Pharmacology Department, Saint Louis, United States



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DAY 2 – FRIDAY 4th SEPTEMBER

P14 / Day 2 - Muscle sympathetic nerve activity is elevated in healthy Pacific Peoples

Ana Luiza Sayegh ⁽¹⁾ - **Caroline Sanches** ⁽¹⁾ - **Satupaitea Viali** ⁽²⁾ - **Daryl Schwenke** ⁽³⁾ - **James Fisher** ⁽⁴⁾

⁽¹⁾ University of Auckland, University of Auckland, Auckland, New Zealand - ⁽²⁾ Oceania University of Medicine, Oceania University of Medicine, Apia, Samoa - ⁽³⁾ University of Otago, Department of Physiology, Dunedin, New Zealand - ⁽⁴⁾ University of Auckland, Department of Physiology, Auckland, New Zealand

P15/ Day 2 - On the hemodynamic response to exercise in Parkinson's disease: does neurogenic orthostatic hypotension matter?

Fabio Giuseppe Laginestra ⁽¹⁾ - **Danilo Iannetta** ⁽¹⁾ - **Erin Suttman** ⁽¹⁾ - **Jeremy Alpenglow** ⁽²⁾ - **Kanokwan Bunsawat** ⁽²⁾ - **Ryan Broxterman** ⁽²⁾ - **Guillaume Lamotte** ⁽³⁾ - **Markus Amann** ⁽¹⁾

⁽¹⁾ University of Utah, Department of Anesthesiology, Salt Lake City, United States - ⁽²⁾ University of Utah, Department of Internal Medicine, Salt Lake City, United States - ⁽³⁾ University of Utah, Department of Neurology, Salt Lake City, United States

P16 / Day 2- LCPOTS Demonstrates Higher Vagal and Lower Sympathetic Tone than Classic POTS

Tatiana Solis-Montenegro ⁽¹⁾ - **Pouya Mehr** ⁽¹⁾ - **Marwa Abd-Eldayem** ⁽¹⁾ - **André Diedrich** ⁽¹⁾ - **Surat Kulapatana** ⁽¹⁾ - **Meenakshi Vinayagam** ⁽¹⁾ - **Cyndya Shibao** ⁽¹⁾

⁽¹⁾ Vanderbilt University Medical Center, Clinical Pharmacology & Genetic Medicine, Nashville, United States

P17/Day 2 - Maintenance of brainstem cholinergic integrity after isoflurane anesthesia and surgical stress: translational relevance for autonomic research

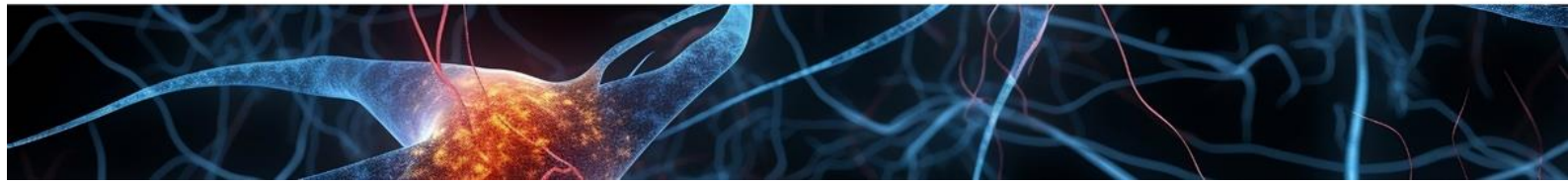
Júlia Ayub ⁽¹⁾ - **Mauricio da Silva Mattar** ⁽¹⁾ - **Breno Lopes Macedo** ⁽¹⁾ - **Bruna Ferreira da Silva** ⁽¹⁾ - **Gabriel Gavazza Noé** ⁽¹⁾ - **Kissylla Brisson Silva** ⁽¹⁾ - **Larissa de Jesus Corrêa** ⁽¹⁾ - **Vitor Sampaio Minassa** ⁽²⁾ - **Thatiany Jardim Batista** ⁽¹⁾ - **Paula Beatriz de Souza** ⁽³⁾ - **Amanda Boina** ⁽³⁾ - **Brayann Gonçalves Felix** ⁽¹⁾ - **Rodolpho José da Silva** ⁽²⁾ - **Juliana Barbosa Coitinho Gonçalves** ⁽⁴⁾ - **Karla Nívea Sampaio** ⁽¹⁾

⁽¹⁾ Pharmaceutical Sciences Post-Graduation Program, Health Science Centre, Federal University of Espírito Santo, Vitória, Brazil - ⁽²⁾ Physiological Sciences Post-Graduation Program, Health Science Centre, Federal University of Espírito Santo, Vitória, Brazil - ⁽³⁾ Pharmaceutical Sciences Department, Health Science Centre, Federal University of Espírito Santo, Vitória, Brazil - ⁽⁴⁾ Biochemistry Post-Graduation Program, Health Science Centre, Federal University of Espírito Santo, Vitória, Brazil

P18 / Day 2 - HPA axis modulation of behavioral, cardiovascular, and neuroendocrine responses to social defeat stress in rats

Gabriela Marie Ferreira Suzuki ⁽¹⁾ - **Ivaldo de Jesus Almeida Belém-Filho** ⁽¹⁾ - **Cristiane Busnardo** ⁽²⁾ - **Higor de Souza Paz** ⁽²⁾ - **Bruna Reato Brandão** ⁽¹⁾ - **Fernando Morgan de Aguiar Corrêa** ⁽¹⁾

⁽¹⁾ University of São Paulo, Ribeirão Preto Medical School/ Department of Pharmacology, Ribeirão Preto, Brazil - ⁽²⁾ São Paulo State University, School of Pharmaceutical Sciences/Department of Drugs and Medicines, Araraquara, Brazil



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P19 / Day 2 - Sex Matters: Differential Effects of Isoflurane and Surgical Stress on Serum Cholinesterase Activity in Male and Female Wistar Rats

Mauricio Silva Mattar ⁽¹⁾ - Breno Lopes Macedo ⁽¹⁾ - Bruna Ferreira da Silva ⁽¹⁾ - Gabriel Gavazza Noé ⁽¹⁾ - Kissylla Brisson Silva ⁽¹⁾ - Larissa de Jesus Correa ⁽¹⁾ - Júlia Grigorini Mori Ayub ⁽¹⁾ - Vitor Sampaio Minassa ⁽²⁾ - Thatiany Jardim Batista ⁽¹⁾ - Paula Beatriz de Souza Assis ⁽³⁾ - Amanda Boina ⁽³⁾ - Brayann Gonçalves Felix ⁽¹⁾ - Rodolpho José da Silva Barros ⁽²⁾ - Julian Francis Richmond Paton ⁽⁴⁾ - Juliana Barbosa Coitinho Gonçalves ⁽⁵⁾ - Karla Nívea Sampaio ⁽¹⁾

- ⁽¹⁾ Health Science Centre, Vitória, Brazil - ⁽²⁾ Federal University of Espírito Santo, Physiological Sciences Post-Graduation Program - Health Science Centre, Vitória, Brazil - ⁽³⁾ Federal University of Espírito Santo, Pharmaceutical Sciences Department - Health Science Centre, Vitória, Brazil - ⁽⁴⁾ University of Auckland, Grafton Campus, The Centre for Heart Research – Manaaki Mānawa, Department of Physiology, Faculty of Health & Medical Sciences, Auckland, New Zealand - ⁽⁵⁾ Federal University of Espírito Santo, Biochemistry Post-Graduation Program - Health Science Centre, Vitória, Brazil

P20 / Day 2 - Voluntary Exercise and the Exerkine Irisin Preserve Blood-Brain Barrier Homeostasis Under Chronic Stress

Hidefumi Waki ⁽¹⁾ - Linh Pham Thuy ⁽¹⁾ - Yanna Liu ⁽²⁾ - Jimmy Kim ⁽¹⁾ - Ko Yamanaka ⁽¹⁾ - Sabine Gouraud ⁽³⁾ ⁽¹⁾ Graduate school of health and sports science, Juntendo University, Chiba, Japan - ⁽²⁾ College of Basic Medical Sciences, Dalian Medical University, Dalian, China - ⁽³⁾ Department of Natural Sciences, International Christian University, Tokyo, Japan

P21 / Day 2 - Splenic Denervation Improves arterial pressure and Autonomic Dysfunction in Renovascular Hypertension

Gustavo R. Martins ⁽¹⁾ - Vinícia C. Biancardi ⁽²⁾ - Vinicius C. Diniz ⁽¹⁾ - Steohanie F. Gerolin ⁽¹⁾ - Cristiane D. Gil ⁽³⁾ - Ruy R. Campos ⁽¹⁾ - **Cassia Bergamaschi** ⁽¹⁾

⁽¹⁾ Federal University of São Paulo, Department of Physiology, São Paulo, Brazil - ⁽²⁾ Auburn University, Anatomy, Physiology and Pharmacology, Auburn, United States - ⁽³⁾ Federal University of São Paulo, Department of Morphology, São Paulo, Brazil

P22 / Day 2 - Central leukotrienes mediate lipopolysaccharide-induced hypothermia

Isis Paiva Trajano ⁽¹⁾ - Maycon Tavares Emílio-Silva ⁽²⁾ - Luiz Guilherme Siqueira Branco ⁽²⁾ - **Luis Henrique Angenendt da Costa** ⁽³⁾

⁽¹⁾ University of São Paulo, Ribeirão Preto Medical School, Ribeirão Preto, Brazil - ⁽²⁾ University of São Paulo, Ribeirão Preto School of Dentistry, Ribeirão Preto, Brazil - ⁽³⁾ University of São Paulo, Ribeirão Preto School of Nursing, Ribeirão Preto, Brazil

P 23 / Day 2 - Optogenetic Vagus Nerve Stimulation: A Novel Strategy to Prevent Respiratory Dysfunction, Neurodegeneration, and Astrocytosis in the 6-hidroxydopamine model of Parkinson's Disease.

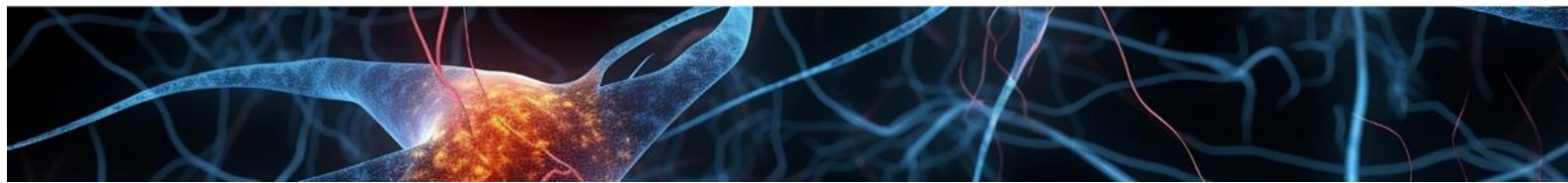
Lais Cabral ⁽¹⁾ - Thiago Moreira ⁽²⁾ - **Ana Takakura** ⁽¹⁾

⁽¹⁾ University of São Paulo, Pharmacology, São Paulo, Brazil - ⁽²⁾ University of São Paulo, Physiology and Biophysics, São Paulo, Brazil

P24 / Day 2 - The adaptive immune system response mediates the loss of long-term muscle opsin expression in channelrhodopsin-based optogenetics

Teodora Nedelkoska ⁽¹⁾ - Fiona Knapman ⁽²⁾ - Elena Shklovskaya ⁽¹⁾ - Helen Rizos ⁽¹⁾ - Bowen Dempsey ⁽¹⁾ - Peter Burke ⁽¹⁾ - Lynne Bilston ⁽²⁾

⁽¹⁾ Macquarie University, Macquarie Medical School, Sydney, Australia - ⁽²⁾ University of New South Wales, Graduate School of Biomedical Engineering, Sydney, Australia



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P25 / Day 2 - Assessment of Orthostatic Sympathetic Reactivity by Superficial Vein Imaging

Maëlig Poitevin ⁽¹⁾ - **Nastasia Navasiolava** ⁽²⁾ - **Jacques-Olivier Fortrat** ⁽³⁾

⁽¹⁾ CHU Angers, Chirurgie digestive, Angers, France - ⁽²⁾ CHU Angers, CRC, Angers, France - ⁽³⁾ CHU Angers, Médecine vasculaire, Angers, France

P26 / Day 2 - Underrecognized Small Fiber Neuropathy and Autonomic Dysfunction in Patients with Spondyloarthritis

Ruolin Li ⁽¹⁾ - **Shi Yang Ng** ⁽²⁾ - **Youjin Do** ⁽³⁾ - **Amanda CY Chan** ⁽²⁾

⁽¹⁾ Affiliated Hospital of Jining Medical University, Neurology, Shandong, China - ⁽²⁾ National University of Singapore, Medicine, Singapore, Singapore - ⁽³⁾ National University Hospital, Medicine, Singapore, Singapore

P27 / Day 2 - Choline precursor supplementation improves excitatory/inhibitory homeostasis experimental autism model

Derya Oktay ⁽¹⁾ - **Ozun Ozcan** ⁽²⁾ - **Ekin Dongel-Dayanc** ⁽³⁾ - **Ismail Hakki Ulusoy** ⁽⁴⁾ - **Meltem Kolgazi** ⁽⁵⁾

⁽¹⁾ Acibadem University, Institute of Health Sciences, Department of Neuroscience, Istanbul, Turkey - ⁽²⁾ Middle East Technical University, Department of Biological Sciences, Molecular Biology & Genetics, Ankara, Turkey - ⁽³⁾ Acibadem University, Institute of Health Sciences, Department of Physiology, Istanbul, Turkey - ⁽⁴⁾ Okan University, School of Medicine, Department of Medical Pharmacology, Istanbul, Turkey - ⁽⁵⁾ Acibadem University, School of Medicine, Department of Physiology, Istanbul, Turkey

P28 / Day 2 - Looking Beyond the Burst: Altered Sympathetic Action Potential Recruitment Following Spinal Cord Injury

Jinan Saboune ⁽¹⁾ - **Mehdi Ahmadian** ⁽¹⁾ - **Arman Rajaei** ⁽²⁾ - **Christopher West** ⁽³⁾

⁽¹⁾ University of British Columbia, Department of Cell and Physiological Sciences, Vancouver, Canada - ⁽²⁾ University of British Columbia, Department of Engineering, Vancouver, Canada - ⁽³⁾ University of British Columbia, Department of Cell and Physiological Sciences/International Collaboration on Repair Discoveries, Vancouver, Canada

P29 / Day 2 - Heartbeat-evoked potentials and symptom recognition in patients with orthostatic hypotension during tilt-table testing

Miguel de Oliveira Carvalho ⁽¹⁾ - **Boriana S. Gagaouzova** ⁽²⁾ - **Luisa Morales Gonzalez** ⁽³⁾ - **Ineke A. van Rossum** ⁽²⁾ - **Fabian I. Kerkhof** ⁽²⁾ - **J. Gert van Dijk** ⁽²⁾ - **Roland D. Thijs** ⁽²⁾

⁽¹⁾ Serviço de Neurologia, Departamento de Neurociências e Saúde Mental, Unidade Local de Saúde Santa Maria, Lisbon, Portugal - ⁽²⁾ Department of Neurology, Leiden University Medical Centre, Leiden, Netherlands - ⁽³⁾ Department of Clinical Pharmacology and Toxicology, Leiden University Medical Centre, Leiden, Netherlands

P30 / Day 2 - Orthostatic Hypotension in Patients with Neurodegenerative Synucleinopathies: Real-World Clinical and Therapeutic Outcomes from an Italian Cohort

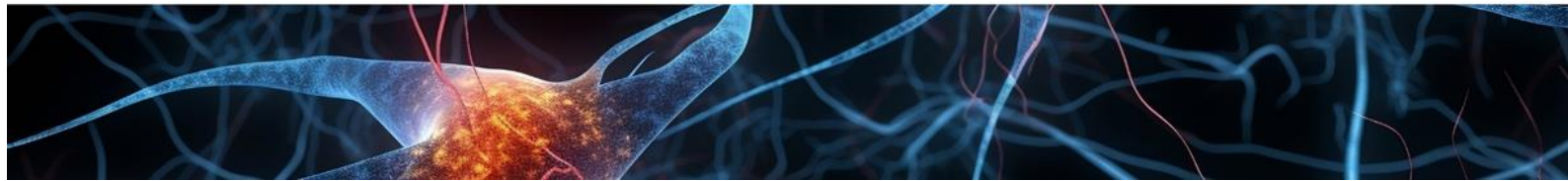
Carla Fasano ⁽¹⁾ - **Micol Gianoli** ⁽¹⁾ - **Giannicola Carrozzo** ⁽¹⁾ - **Ilaria Cani** ⁽¹⁾ - **Federica Provini** ⁽¹⁾ - **Giovanna Calandra-Buonaura** ⁽¹⁾ - **Pietro Guaraldi** ⁽¹⁾

⁽¹⁾ IRCCS Bellaria, Neurology, Bologna, Italy

P31 / Day 2 - Long-covid POTS Have Different Autonomic Function And Quality-of-life Than Non-covid-related POTS

Rashmin Hira ⁽¹⁾ - **Kavithra Karalasingham** ⁽¹⁾ - **Derek Chew** ⁽¹⁾ - **Carlos Morillo** ⁽¹⁾ - **Robert Sheldon** ⁽¹⁾ - **Satish Raj** ⁽¹⁾

⁽¹⁾ University of Calgary, Cardiac Sciences, Calgary, Canada



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P32 / Day 2 - Effects of recumbent isometric yoga on the postural orthostatic tachycardia syndrome of patients with myalgic encephalomyelitis/chronic fatigue syndrome

Takakazu Oka ⁽¹⁾

⁽¹⁾ The Japan Society of Autonomic Nervous System, Department of Psychosomatic Medicine, International University of Health and Welfare, Otawara, Japan

P33 / Day 2 - Discrepancy between Oscillometric measure in arm vs continuous non invasive measurement using finger photoplethysmography in Diagnosing Orthostatic Hypotension in laboratory setting

Rinkoo Yadav ⁽¹⁾ - **Dinu Santha Chandran** ⁽¹⁾

⁽¹⁾ All India Institute of Medical Sciences, New Delhi, India, All India Institute of Medical Sciences, New Delhi, India, New Delhi, India

P34 / Day 2 - Lower urinary tract symptoms in Parkinson's disease: prevalence and etiology

Stefania Diaconu ⁽¹⁾ - **Iulia Murasan** ⁽¹⁾ - **Raluca Ilea** ⁽¹⁾ - **Rafaela Margarit** ⁽¹⁾ - **Alina Drujesu** ⁽¹⁾ - **Sabina Berzunteanu** ⁽¹⁾ - **Diana Rusu** ⁽¹⁾ - **Ruxndra Dolis** ⁽¹⁾ - **Cristian Falup-Pecurariu** ⁽¹⁾

⁽¹⁾ Transilvania University Brasov, County Clinic Hospital, Brasov, Romania

P35 / Day 2 - Cardiovascular Autonomic Regulation During Sleep in Multiple System Atrophy: Impact of Sleep-Disordered Breathing and CPAP Treatment

Eleonora Tobaldini ⁽¹⁾ - **Angelica Carandina** ⁽¹⁾ - **Gabriel Dias Rodrigues** ⁽²⁾ - **Isabelle Arnulf** ⁽³⁾ - **David Grabli** ⁽⁴⁾ - **Pauline Dodet** ⁽³⁾ - **Nicola Montano** ⁽⁵⁾

⁽¹⁾ Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Department of Internal Medicine, Milan, Italy - ⁽²⁾ Federal Fluminense University, 4Health Lab, Department of Physiology and Pharmacology, Milan, Italy - ⁽³⁾ Pitié-Salpêtrière hospital, Service des Pathologies du Sommeil, Paris, France - ⁽⁴⁾ Pitié-Salpêtrière Hospital, Department of Neurology, Paris, France - ⁽⁵⁾ University of Milan, Department of Clinical Sciences and Community Health, Milan, Italy

P36 / Day 2- Distinct Peripheral Sympathetic Autonomic Profiles in MSA-P and MSA-C: A Skin Biopsy and Cardiovascular Study

Mattia Tosi ⁽¹⁾ - **Samantha Mazzetti** ⁽¹⁾ - **Alessia Luppino** ⁽¹⁾ - **Giulia Simmini** ⁽¹⁾ - **Raffaella Lombardi** ⁽²⁾ - **Gianfranco Gaudiano** ⁽¹⁾ - **Fabiana Colucci** ⁽¹⁾ - **Valentina Leta** ⁽¹⁾ - **Antonio Emanuele Elia** ⁽¹⁾ - **Daniele Cartelli** ⁽¹⁾ - **Roberto Eleopra** ⁽¹⁾ - **Grazia Devigili** ⁽¹⁾

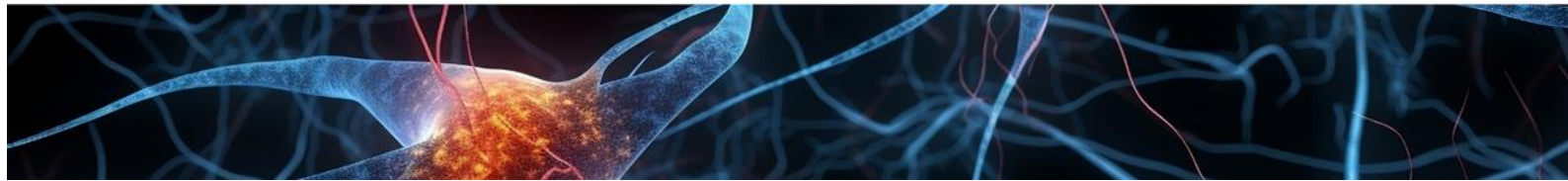
⁽¹⁾ Fondazione IRCCS Istituto Neurologico Carlo Besta, Parkinson and Movement Disorders Unit, Department of Clinical Neurosciences, Milan, Italy - ⁽²⁾ Fondazione IRCCS Istituto Neurologico Carlo Besta, Neuroalgology Unit, Milan, Italy

P37 / Day 2 - Nitric oxide synthase activation in nTS is essential to NMDA receptor-dependent evocation of cough

David Farmer ⁽¹⁾ - **Nanako Mori** ⁽²⁾ - **Loren Saulsberry** ⁽³⁾ - **Brendan Canning** ⁽²⁾

⁽¹⁾ Monash University, Neuroscience, Melbourne, Australia - ⁽²⁾ Johns Hopkins Asthma and Allergy Center, Medicine, Baltimore, United States - ⁽³⁾ University of Chicago, Public Health Sciences, Chicago, United States

⁽¹⁾ Department of Physiology, Health and Sports Science, Juntendo University, Inzai, Chiba, Japan



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DAY 2 – FRIDAY 4th SEPTEMBER

P38 / Day 2 - Role of the olfactory bulb and gut microbiota in rats social synchronization during wheel running

Kanna Sunama ⁽¹⁾ - Mio Matsuyama ⁽¹⁾ - Sawa Takizawa ⁽¹⁾ - Jasenka Zubcevic ⁽²⁾ - Hldefumi Waki ⁽¹⁾ - Ko Yamanaka ⁽¹⁾

⁽¹⁾ Dept. Physiology, Health and Sports Science, Juntendo University, Inzai, Chiba, Japan - ⁽²⁾ Dept. Neurosurgery, Brain & Spine, USF Morsani College of Medicine, Tampa, FL, United States

P39 / Day 2 - Transcriptomic analysis of TRPV1+ kidney-innervating spinal and vagal sensory neurons

Brianna Dailey-Krempel ⁽¹⁾ - Lindsey O'Brien ⁽²⁾ - Iabes Vilone ⁽¹⁾ - Maureen Riedl ⁽¹⁾ - Ying Zhang ⁽³⁾ - Daryl Gohl ⁽²⁾ - John Osborn ⁽⁴⁾ - Lucy Vulchanova ⁽¹⁾

⁽¹⁾ University of Minnesota, Neuroscience, Minneapolis, United States - ⁽²⁾ University of Minnesota, Genomics Center, Minneapolis, United States - ⁽³⁾ University of Minnesota, Supercomputing Institute, Minneapolis, United States - ⁽⁴⁾ University of Minnesota, Surgery, Minneapolis, United States

P40 / Day 2 - Possible role of VIP neurons in the sensory vagal pathway in cardiovascular regulation after treadmill exercise in mice

Mamoru Tanida ⁽¹⁾ - Daisuke Yamada ⁽¹⁾

⁽¹⁾ Kanazawa Medical University, Department of Physiology 2, Uchinada, Japan

P41 / Day 2 - A suspended animation state mimics natural torpor and protects against ischemic brain injury

Luis Henrique Angenendt da Costa ⁽¹⁾ - Beste Noyan ⁽²⁾ - Dandan Wang ⁽²⁾ - Nicole Lynch ⁽²⁾ - Caterina Gasperini ⁽³⁾ - Richard Giadone ⁽³⁾ - Mahitha Juttu ⁽³⁾ - Raina Sohur ⁽²⁾ - Keilana Godhwani ⁽²⁾ - Simon Robson ⁽²⁾ - Luiz Guilherme Siqueira Branco ⁽⁴⁾ - Amjad Shehadah ⁽²⁾ - Lee Rubin ⁽³⁾ - Shingo Kajimura ⁽²⁾ - Clifford Saper ⁽²⁾ - Natalia Machado ⁽²⁾

⁽¹⁾ University of Sao Paulo, Ribeirao Preto School of Nursing, Ribeirao Preto, Brazil - ⁽²⁾ Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, United States - ⁽³⁾ Harvard University, Department of Stem Cell and Regenerative Biology, Boston, United States - ⁽⁴⁾ University of Sao Paulo, Ribeirao Preto School of Dentistry, Ribeirao Preto, Brazil

P42 / Day 2 - Purinergic modulation of oxytocinergic PVN–DMV signaling in liver-projecting vagal neurons

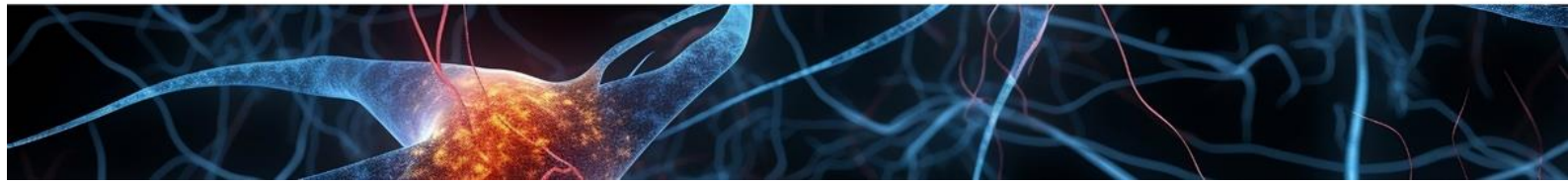
Paula Magalhães Gomes ⁽¹⁾ - Karoline Martins dos Santos ⁽²⁾ - Guilherme Shigueto Vilar Higa ⁽³⁾ - Roberto De Pasquale ⁽¹⁾ - Vagner Roberto Antunes ⁽¹⁾

⁽¹⁾ Brazilian Society of Physiology, Department of Physiology and Biophysics, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil - ⁽²⁾ Brazilian Society of Physiology, Department of Biophysics, Paulista School of Medicine, Federal University of São Paulo, São Paulo, São Paulo, Brazil - ⁽³⁾ Brazilian Society of Physiology, Department of Biochemistry, Institute of Chemistry, University of São Paulo, São Paulo, Brazil

P43 / Day 2 - NPB/W Signaling System in the Gastrointestinal Tract: Altered Gene Expression and Inhibitory Effects on Colonic Motility in Diabetes

Tomas Chmelir ⁽¹⁾ - Dagmar Stepanova Jarkovska ⁽¹⁾ - Tereza Smrhova ⁽¹⁾ - Magdalena Chottova Dvorakova ⁽¹⁾ - Shashank Pandey ⁽²⁾

⁽¹⁾ Charles University, Department of Physiology, Faculty of Medicine in Pilsen, Pilsen, Czech Republic - ⁽²⁾ Charles University, Department of Pharmacology and Toxicology, Faculty of Medicine in Pilsen, Pilsen, Czech Republic



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DAY 2 – FRIDAY 4th SEPTEMBER

P44 / Day 2 - Maternal Gut Dysbiosis Disrupts Enteric Nervous System Organization and Cortical Inhibitory Circuit Development in Offspring

Mohammed Nakhal ⁽¹⁾ - **Mohammad Hamad** ⁽¹⁾

⁽¹⁾ United Arab Emirates University, Anatomy, Al Ain, United Arab Emirates

P45 / Day 2 - Sex-specific autonomic dysregulation of cardiovascular and ventilatory functions following acute irreversible acetylcholinesterase inhibition

Bruna Ferreira da Silva ⁽¹⁾ - **Breno Lopes Macedo** ⁽¹⁾ - **Gabriel Gavazza Noé** ⁽¹⁾ - **Maurício da Silva Mattar** ⁽¹⁾ - **Kissylla Brisson da Silva** ⁽¹⁾ - **Amanda Boina** ⁽¹⁾ - **Paula Beatriz de Souza Assis** ⁽¹⁾ - **Vítor Sampaio Minassa** ⁽¹⁾ - **Júlia Grigorini Mori Ayub** ⁽¹⁾ - **Fiona McBryde** ⁽²⁾ - **Thatiany Jardim Batista** ⁽¹⁾ - **Karla Nívea Sampaio** ⁽¹⁾

⁽¹⁾ UFES, Federal University of Espírito Santo, Vitória, Brazil - ⁽²⁾ UoA, University of Auckland, Auckland, New Zealand

P46 / Day 2 - Effects of aging and hypertension on neurochemical composition of vagal sensory ganglia

Neringa Pauziene ⁽¹⁾ - **Jekaterina Kolenda** ⁽¹⁾ - **Kristina Rysevaite-Kyguoliene** ⁽¹⁾

⁽¹⁾ ISAN, Lithuanian University of Health Sciences, Institute of Anatomy, Kaunas, Lithuania

P47 / Day 2 - Digital pulp function – autonomic fibres control unveiled by high frequency ultrasound imaging

Antonin Gechev ⁽¹⁾

⁽¹⁾ EMEAC IFCN, Royal Free London Hospital, London, United Kingdom

P48 / Day 2 - Heart Rate Fragmentation as a Marker of Autonomic Function in Healthy Young Individuals: Insights from Graded Head-up Tilt Test and Controlled Breathing

Thais Marques da Silva ⁽¹⁾ - **Angelica Carandina** ⁽¹⁾ - **Costanza Scatà** ⁽²⁾ - **Greta Salafia** ⁽¹⁾ - **Francesca Magna** ⁽¹⁾ - **Lucia Silvia Giobbi** ⁽¹⁾ - **Gabriel Dias Rodrigues** ⁽¹⁾ - **Eleonora Tobaldini** ⁽¹⁾ - **Luiz Eduardo Virgílio da Silva** ⁽³⁾ - **Helio Cesar Salgado** ⁽⁴⁾ - **Rubens Fazan Junior** ⁽⁴⁾ - **Nicola Montano** ⁽¹⁾

⁽¹⁾ Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Department of Internal Medicine, Milan, Italy - ⁽²⁾ Department of Excellence 2023-2027, Policlinico, Department of Clinical Sciences and Community Health, Milan, Italy - ⁽³⁾ Children's Hospital of Philadelphia, USA, Department of Biomedical and Health Informatics, Philadelphia, United States - ⁽⁴⁾ Ribeirao Preto Medical School, University of São Paulo, Department of Physiology, Ribeirão Preto, Brazil

P49 / Day 2 - The analysis of the regional cerebral blood flow responses to trigeminal olfactory stimulation and their nicotinic cholinergic regulation

Daichi Morihara ⁽¹⁾ - **Jura Moriya** ⁽¹⁾ - **Fusako Kagitani** ⁽²⁾ - **Sae Uchida** ⁽²⁾

⁽¹⁾ Tokyo University of Agriculture and Technology, Department of Applied Life Science, Tokyo, Japan - ⁽²⁾ Tokyo Metropolitan Institute for Geriatrics and Gerontology, Department of Autonomic Neuroscience, Tokyo, Japan

P50 / Day 2 - Hydrocephalus & Consciousness: Autonomic and Arousal Gains After Shunting.

Eric Schmidt ⁽¹⁾ - **Mark Kermorgant** ⁽²⁾ - **Stein Silva Sifontes** ⁽³⁾ - **Anne Pavy Le Traon** ⁽²⁾

⁽¹⁾ Departement of Neurosurgery, University Hospital, TOULOUSE, France - ⁽²⁾ Department of Neurology, University Hospital, TOULOUSE, France - ⁽³⁾ Department of Intensive care, University Hospital, TOULOUSE, France

P51 / Day 2 - Cardioprotection Through A Brain-gut-heart Axis: Glp-1r/katp Signalling In Cardiac Pericytes Prevents Coronary No-reflow

Svetlana Mastitskaya ⁽¹⁾ - **David Attwell** ⁽²⁾

⁽¹⁾ University of Bristol, Bristol Medical School, Bristol, United Kingdom - ⁽²⁾ University College London, Neuroscience, Physiology and Pharmacology, London, United Kingdom



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DAY 2 – FRIDAY 4th SEPTEMBER

P52 / Day 2 - Post-viral Postural Orthostatic Tachycardia Syndrome (POTS): A comparison of two-year outcomes in POTS triggered by COVID-19 Vs. other viral infections

Gemma Wilson ⁽¹⁾ - Marie-Claire Seeley ⁽¹⁾ - Dennis Lau ⁽¹⁾ - Celine Gallagher ⁽¹⁾

⁽¹⁾ The Australian Dysautonomia and Arrhythmia Research Collaborative, Adelaide University, Adelaide, Australia

P53 / Day 2 - Heart Evoked Potential Modulation by Deep Brain Stimulation of the Subthalamic Nucleus for Parkinson's Disease: Links to Interoception and Sympathovagal Tone.

Alceste Deli ⁽¹⁾ - Bryony Ishihara ⁽²⁾ - David Martin Lopez ⁽³⁾ - Michael Hart ⁽²⁾ - Erlick Pereira ⁽²⁾ - Francesca Morgante ⁽²⁾ - Tina Forster ⁽⁴⁾ - Lucia Ricciardi ⁽²⁾

⁽¹⁾ National Institute for Health and Care Research, Neuroscience and Cell Biology Research Institute, City St George's University, London, United Kingdom - ⁽²⁾ -, Neuroscience and Cell Biology Research Institute, City St George's University, London, United Kingdom - ⁽³⁾ -, Neurophysiology Department, St George's Hospital, London, United Kingdom - ⁽⁴⁾ -, Centre for Clinical, Social and Cognitive Neuroscience, City St George's University, London, United Kingdom

P54 / Day 2 - Relationship between depressive symptoms, quality of life, cardiovascular autonomic control and inflammation in patients with bipolar disorder (Preliminary result of "DOMINO" study)

Lucia Silvia Giobbi ⁽¹⁾ - Costanza Scatà ⁽²⁾ - Angelica Carandina ⁽¹⁾ - Vanessa Conforto ⁽³⁾ - Yael Coen ⁽³⁾ - Jacopo Aiello ⁽¹⁾ - Beatrice Arosio ⁽²⁾ - Elena Bondi ⁽⁴⁾ - Letizia D'Antoni ⁽⁵⁾ - Giandomenico Schiena ⁽³⁾ - Paolo Brambilla ⁽³⁾ - Eleonora Tobaldini ⁽²⁾ - Nicola Montano ⁽²⁾

- ⁽¹⁾ Ospedale Maggiore Policlinico, SC Medicina Interna, Milan, Italy - ⁽²⁾ Università degli studi di Milano Statale, Scienze Cliniche e della Salute Pubblica, Milan, Italy - ⁽³⁾ IRCCS Fondazione Ca' Granda - Ospedale Maggiore Policlinico, SC Psichiatria, Milan, Italy - ⁽⁴⁾ Università degli Studi di Milano Statale, Fisiopatologia Medico-Chirurgica e dei Trapianti, Milan, Italy - ⁽⁵⁾ IRCCS Fondazione Ca' Granda - Ospedale Maggiore Policlinico, Neuroscienze e Salute Mentale, Milan, Italy

P55 / Day 2 - Exercise and Anxiety: Findings from an 8-week randomised control trial investigating changes in physiological and perceptual sensitivity to hypercapnia

Jamieson Paul ⁽¹⁾ - Ella McLeod ⁽²⁾ - Madeleine Connor ⁽³⁾ - Bruce Russell ⁽⁴⁾ - Robin Turner ⁽⁵⁾ - Olivia Harrison ⁽¹⁾

⁽¹⁾ IMAGE Otago, ISAN, ASAN, Department of Psychology, University of Otago, Dunedin, New Zealand - ⁽²⁾ IMAGE Otago, Department of Psychology, University of Otago, Dunedin, New Zealand - ⁽³⁾ IMAGE Otago, School of Physical Education, Sport and Exercise Sciences, University of Otago, Dunedin, New Zealand - ⁽⁴⁾ IMAGE Otago, School of Pharmacy, University of Otago, Dunedin, New Zealand - ⁽⁵⁾ IMAGE Otago, Department of Preventative and Social Medicine, University of Otago, Dunedin, New Zealand