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## INNT ANNUAL MEETING 2025

**April 2-4, Casa da Gloria**

**(Ladeira da Glória 98, CEP 22211-011, Rio de Janeiro)**

### **PROGRAM**

April 2, Wednesday

**9:00-9:10 – Opening remarks:** Roberto Lent and Sergio T. Ferreira

### **MENTAL HEALTH, PSYCHEDELICS AND NON-ORDINARY EXPERIENCES**

Moderation: Claudio Da Cunha (Federal University of Paraná, Brazil)

**9:20-10:00 – Keynote lecture: Claudio N. Soares** (Queen's University, Canada) – Cutting through the noise with science: exploring a pathway for psychedelics into the mainstream

10:00-10:10 – Q & A

#### **10:20-12:40 – Roundtable:**

10:20-10:40 – **Marcelo Leite** (Folha de São Paulo, Brazil) – Risks and difficulties of psychedelic rebirth for medicine.

10:40-10:50 – Q & A

10:50-11:10 – **Dráulio B. Araújo** (Federal University of Rio Grande do Norte, Brazil) – What can psychedelics reveal about human consciousness?

11:10-11:30 – Q & A

11:30-11:50 – **Wagner F. Gattaz** (University of São Paulo, Brazil) - Candidate Genes Related to Spiritual Mediumship: A Whole Exome Sequencing Analysis of Highly Gifted Mediums

11:50-12:10 – Q & A

12:10-12:30 – **Ronald Fischer** (D’Or Institute for Research and Education, Brazil) – Saint or insane? A data science exploration of the diversity of human experiences and mental health

11:30-12:40 – Q & A

12:40-14:00: **Lunch provided at Casa da Gloria**

## **NEURODEVELOPMENT AND NEUROPLASTICITY**

Moderation: Roberto Lent (D’Or Institute for Research and Education, Federal University of Rio de Janeiro, Brazil)

**14:10-14:50 – Keynote Lecture: Lynn K. Paul** (California Institute of Technology, USA) - The corpus callosum and creativity revisited.

14:50-15:00 – Q & A

### **15:00-17:00 – Roundtable**

15:00-15:20: **Emily Castro-Fonseca** (Federal University of Rio de Janeiro, Brazil) – How many neurons and glial cells do we have at birth?

15:20-15:30: Q & A

15:30-15:50: **Claudio A. Serfaty** (Fluminense Federal University, Brazil) – Malnutrition impacts normal brain development and plasticity through neuroinflammation.

15:50-16:00: Q & A

16:00-16:20: **Fernanda Tovar-Moll** (D’Or Institute for Research and Education, Brazil) – Callosal agenesis: from bench to bedside, and back

16:20-16:30: Q & A

16:30-16:50: **Jean Faber** (São Paulo School of Medicine, Brazil) – Brain-machine interfaces for rehabilitation of low-mobility patients.

16:50-17:00: Q & A

**17:00-19:00: Happy hour at Casa da Gloria**

April 3, Thursday

## **THE MANY ROLES OF ASTROCYTES**

Moderation: Eduardo R. Zimmer Federal (Federal University of Rio Grande do Sul, Brazil)

**9:10-9:50 – Keynote Lecture: Luc Pellerin** (Université de Poitiers, France) - Astrocytes: the shining stars that light up brain activation and function

9:50-10:00 – Q & A

### **10:00-12:00 – Roundtable**

10:00-10:20 – **Eduardo R. Zimmer** (Federal University of Rio Grande do Sul, Brazil) – Astrocytes in neurodegeneration

10:20-10:30 – Q & A

10:30-10:50 – **Debora G. Souza** (Federal University of Rio Grande do Sul, Brazil) – Astrocyte reactivity in COVID-19

10:50-11:00 – Q & A

11:00-11:20 – **Luan P. Diniz** (Federal University of Rio de Janeiro, Brazil) – Roles of astrocytes in synaptic health and disease in the central nervous system

11:20-11:30 – Q & A

11:30-11:50 – **Jade de Oliveira** (Federal University of Rio Grande do Sul, Brazil) – Is cholesterol good or bad for your brain?

11:50-12:00 – Q & A

12:00-14:00: **Lunch provided at Casa da Gloria**

## **PERSPECTIVES IN DEMENTIA**

Moderation: Mychael V. Lourenço (Federal University of Rio de Janeiro, Brazil)

**14:10-14:50 – Keynote Lecture: Edward B. Lee** (University of Pennsylvania, USA) – Molecular and environmental neuropathology of Alzheimer’s disease and related dementias (ADRD)

14:50-15:00 – Q & A

### **15:00-17:00 – Roundtable**

15:00-15:20 – **Marcia R. Cominetti** (Federal University of São Carlos, Brazil) – ADAM10 as a potential biomarker in Alzheimer’s disease

15:20-15:30 – Q & A

15:30-15:50 – **Luis E. Santos** (D’Or Institute for Research and Education, Brazil) – Blood-based biomarkers of dementia in a Brazilian cohort

15:50-16:00 – Q & A

16:00-16:20 – **Giovanna Carello-Collar** (Federal University of Rio Grande do Sul, Brazil) – The protective roles of RELN rs802787 in Alzheimer’s disease

16:20-16:30 – Q & A

16:30-16:50 – **Felipe C. Ribeiro** (Federal University of Rio de Janeiro, Brazil) – Defective brain proteostasis as a therapeutic target in Alzheimer’s disease

16:50-17:00 – Q & A

[April 4, Friday](#)

## **TRAUMA AND EPILEPSY**

Moderation: Luis Valmor Portela (Federal University of Rio Grande do Sul, Brazil)

**9:10-9:50 – Keynote Lecture:** Fernando Cendes (State University of Campinas, Brazil) – Artificial intelligence in neuroimaging of epilepsies: are we there yet?

9:50-10:00 – Q & A

### **10:00-12:00 – Roundtable**

10:00-10:20 – **André M. Paschoal** (State University of Campinas, Brazil) – New non-invasive MRI techniques to investigate the glymphatic system and barrier permeability

10:20-10:30 – Q & A

10:30-10:50 – **Sintia Belangero** (São Paulo School of Medicine, Brazil) – MicroRNAs and trauma

10:50-11:00 – Q & A

11:00-11:20 – **Isabella D’Andrea Meira** (Brain Institute of Rio de Janeiro, Brazil) – Neuromodulation in refractory epilepsies: present and future

11:20-11:30 – Q & A

11:30-11:50 – **Luciana R. Pimentel-Silva** (State University of Campinas, Brazil) – How MRI can help in elucidating the pathophysiology of temporal lobe epilepsy

11:50-12:00 – Q & A

**12:00-12:10 – Closing remarks** – Sergio T. Ferreira and Fernanda Tovar-Moll