

## **X Biennial Meeting of the Neurotoxicity Society (X-NTS)**

08 - 11 de September 2024

Mercure Hotel Rio Vermelho – Salvador Bahia Brazil

### **SCIENTIFIC PROGRAM**

**05-07/09/2024**

---

**08:30 – 18:30 – Advanced School (Federal University of Bahia - Campus Vale do Canela)**

**08/09/2024**

---

**16:30 – 18:30 – Business Meeting NTS members. Welcome New Members.**

**09/09/2024 - X-NTS**

---

**08:00 – 09:00 – Registration (credentials)**

**09:00-10:00 – Opening Lecture: Edward D Levin (University of Wisconsin, USA) - Nicotine and dizocilpine effects on regionally specific nicotinic and NMDA glutamate receptor binding**

**10:00-10:30- Coffee Break**

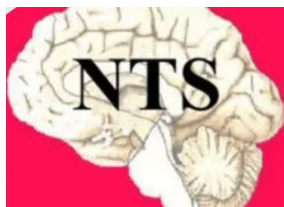
**10:30- 12:30 - Symposium I –Mechanisms on Neurotoxicity I. Chair: Marta Antonelli**

- Harry W.M. Steinbusch (Maastricht University Medical Centre, Netherlands)– Serotonin and brainstem dysfunctions in neuropsychiatric and sensory disorder.
- Jordi Duran (University of Chile, Chile) – Glycogen-induced neurotoxicity.
- Rita Raisman-Vozari (Paris Brain Institute, University of Sorbonne, France) - In vivo and in vitro effects of DDOX, a non-antibiotic doxycycline derivative in PD models.
- Marta Antonelli (University of Buenos Aires, Argentine) -Longitudinal study of the effect of gestational stress on the newborn and its subsequent neurodevelopment.

**12:30 – 14:00 – Lunch break**

**14:00 – 16:30 – Symposium II – Mechanisms on Neurotoxicity II. Chair: Patrícia Schuck**

- Karen Renata Herculano Matos Oliveira (Federal University of Pará, Brazil) - Neurocognitive impacts of severe malaria: mechanism of action and preclinical evaluation of bioactive compounds.
- Coral Sanfeliu (IIBB-CSIC, Spain) - High prenatal levels of epoxyeicosatrienoic acids protect against developmental neurotoxicity and neurodegenerative injuries.



- Andrea de Paula Lima (Universidad de Chile, Chile) - Role of endoplasmic reticulum-mediated calcium signaling in the toxicity of Alzheimer's disease-related amyloid-beta peptide oligomers.
- Pablo Caviedes (University of Chile, Chile) - P21 Activated kinase (PAK) as a therapeutic target in Down syndrome neuronal dysfunction: Effect on cell process formation and emission.
- Patrícia Schuck (Federal University of Rio de Janeiro, Brazil) – Galactose neurotoxicity in galactosemia experimental models.

**16:30 – 17:00 – Coffee Break**

**17:00 – 18:30 –Poster Section I\***

**10/09/2024 X-NTS**

---

**08:00- 10:00 - Symposium III –Neurotoxicity and Neuroprotection I. Chair: Gustavo Ferreira**

- Maria Trinidad Herrero ((University of Murcia, Spain) - Environmental toxins role in Parkinson's disease.
- Laura Lopez Mascaraque (Instituto Cajal, Spain) - Glial cells heterogeneity and functional diversity.
- Mario Herrera-Marschitz (University of Chile, Chile) – Nicotinamide treatment in perinatal asphyxia.
- Gustavo Ferreira (Federal University of Rio de Janeiro, RJ-Brazil) – Neuroprotective effect of carnosine.

**10:00-10:30- Coffee Break**

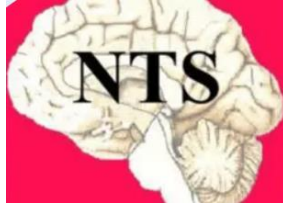
**10:30 – 12:30 – Symposium IV – Neurotoxicity and Neuroprotection II. Chair: Victor Diogenes A.I da Silva**

- Francisco Guimarães (University of São Paulo-RP, Brazil) – Cannabidiol in Psychosis.
- Andrea Paula Lima (University of Chile, Chile) - The detrimental role of calcium signaling in Alzheimer' disease amyloid pathology.
- Henning Ulrich (University of São Paulo, Brazil) - Purinergic signaling in neurotoxin-induced dopaminergic degeneration.
- Victor Diogenes (Federal University of Bahia, Brazil) - Molecular mechanisms in Parkinson's disease and potential use of flavonoid rutin.

**12: 30 – 14:00 – Lunch break**

**14:00 – 16:30 – Symposium V- Control of Neuroinflammation in Brain Diseases - Chair: Elaine Del Bel**

- Thaís Antonia Alves Fernandes (University of São Paulo-RP, Brazil) - Pneuoprotective effect against aggregation of phosphorylated tau protein from non-antibiotic tetracyclines derivatives in primary culture of cortical neurons
- Patrick Pierre Michel (Paris Brain Institute, University of Sorbonne, France)- Modeling pathological aggregation of a-Synuclein in Parkinson's disease and its consequences.
- Bianca Andretto de Mattos (University of São Paulo-RP, Brazil) - The physiological antioxidant uric acid and the non-antibiotic derivative of oxytetracycline, DOT, reduce pathological tau abnormalities



induced by low-level oxidative injuries.

- Rommy Von Bernhardt Montgomery (University San Sebastian, Chile) - Microglial cell regulation changes in aging and neurodegenerative disease.
- Elaine Del Bel (University of São Paulo-RP, Brazil) - Cannabidiol and Cannabigerol limit L-DOPA-induced dyskinesia when given separately or in combination to hemiparkinsonian rats.

**16:30 – 17:00 – Coffee Break**

**17:00 – 18:30 –Poster Section II\***

**11/09/2024 X-NTS**

---

**08:00- 10:00 - Symposium VI -Neuron glia interaction in health and disease. Chair: Silvia Costa**

- Hugo Peluffo (University of Barcelona, Spain) - CD300f immune receptor contributes to healthy aging by regulating inflammaging, metabolism, and cognitive decline.
- Silvia Oliveira Bravo (Biological Research Institute Clemente Estable – Uruguay) Synthetic chalcones to prevent white matter disease.
- Patricia Cassina (University de la Republica, Uruguay) - Glial reactivity and mitochondrial modulation in chronic pain.
- Silvia Lima Costa (Federal University of Bahia, Brazil) - Neuroprotective, anti-neuroinflammatory and myelinogenic related effects of the phytoestrogen agathisflavone: a new multitarget therapeutic agent in perspective.

**10:00 – 10:30 – Coffee Break**

**10:30 – 11:30 – Closures Conference: G Jean Harry ((National Institutes of Health, North Carolina, USA) – Hippocampal mossy fiber synapses loss associated with C1q and microglia activation.**

**11:30 – 12:30 – Final Information, Prizes and Closures**