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# Scientific Programme

3<sup>rd</sup> September 2024

09:00 WELCOME ADDRESS: Elena Adinolfi

# SESSION 1: Chair Beata Sperlagh

- **09:15 Katrin Richter** Modulation of P2RX4 activity affects the expression and release of pro- and anti-inflammatory cytokines by mononuclear phagocytes
- **09:35 Maria Grigoroiu-Serbanescu** Purinergic and neuroinflammatory genes involved in lithium treatment response in bipolar disorder
- **09:55 Riekje Winzer** The ATP receptor P2X7 mediates cell death in effector-prone human unconventional and tissue-resident T lymphocytes
- **10:07 Mohammed Elmallah** Exosomes derived from breast cancer MDA-MB-231 cell line express the purinergic receptor P2X4 and induce immunotolerant monocytes-derived dendritic cells by decreasing the surface expression of HLA-DR and glycogen content
- **10:19 Danijela Laketa** Purinergic signaling in the auditory brainstem during postnatal development of mice exposed to antenatal dexamethasone treatment

#### 10:31 COFFEE BREAK

#### SESSION 2: Chair Dariusz Gorecki

- **10:46** Paulo Correia-de Sá Circulating miR-22 as a biomarker of hippocampal P2X7 overexpression and drug-refractoriness in patients with mesial temporal lobe epilepsy (MTLE)
- **11:06 Lin-Hua Jiang** ATP release and P2 receptor activation as an emerging mechanism for mechanosensitive Piezo1 channel regulation of cell functions
- **11:26 Natalia Martinez Gil** Study of P2X7R and P2X4R Expression in a New Murine Model of Central Areolar Choroidal Dystrophy
- **11:38 Alejandro Sánchez Melgar** Mitochondrial localization of adenosine receptors modulates energy metabolism
- **11:50 Felipe Ortega** Study of the ionotropic purinergic receptors during human cortical development using a brain organoid model
- **12:02** Maja Milosevic The role of extracellular ATP in chronic stress and cancer







- **12:14 Davide Mangani** Pancreatic cancer resistance to immune checkpoint blockade is rescued by depletion of extracellular ATP in an orthotopic murine model
- **12:26 Milorad Dragic** Purinergic system modulates hippocampal synaptic activity following repetitive transcranial magnetic stimulation

#### 12:38 LUNCH

**13:40 Robson Coutinho-Silva** PLENARY LECTURE - Purinergic Signalling in intracellular pathogens infection: The role of P2X7 receptors

# **SESSION 3:** Chair **Peter Illes**

- **14:20 Ana M Sebastião** Purinergic control of synaptic activity under hyperexcitable pathological conditions
- **14:40** Eric Boué-Grabot P2X4 receptors in ALS and its potential use as a biomarker for diagnostic
- **15:00 Ginevra Zanni** Description of a patient with autism, neurodevelopmental delay, absent serum IgA, and enrichment of Lactobacilli in gut microbiota, associated with rare biallelic variants of P2X7R
- **15:12** Marija Adzic Bukvić Effects of repetitive magnetic stimulation on purinergic signaling system in activated spinal cord mixed glial cells

#### 15:24 COFFEE BREAK

# SESSION 4: Chair Valérie Vouret-Craviari

- **15:44** Leanne Stokes New approaches for accelerating ligand development for P2X receptors
- **16:04 Gennady Yegutkin** Role of ATP metabolism in neurovascular coupling and retinal function in the mammalian eye
- **16:24** Rafael Franco Olfactory receptors, the unsuspected partners of adenosine receptors
- **16:44 Claudiana Lameu** The role of P2X7 and P2Y2 receptors in mediating breast-to-brain metastatic transition and phenotypic plasticity
- **17:04 Carlo Marobbio** Restoring heme levels in cellular models of congenital sideroblastic anemia: the role of pyridoxal-5'-phosphate
- 17:16 Ankita Agrawal Update on dissemination
- **17:31 1° Round Table,** Chairs **Robson Coutinho-Silva, Henning Ulrich and Claudiana Lameu** Possible collaboration of the PRESTO COST network with Brazil







# 4<sup>th</sup> September 2024

### SESSION 5: Chair Pablo Pelegrin

- **09:00 Ivana Novak** Role of P2X7 receptor in pancreatic cancer from cellular function to risk association studies
- **09:20 Ning Wang** P2X4 and prostate cancer
- **09:40 Katarzyna Roszek** Targeting ATP-mediated signaling in the tumor microenvironment as a supportive therapeutic approach
- **10:00 Thomas Duret** New advance on the role of the ionotropic receptor P2X4 in the release of extracellular vesicles (EVs) release from mammary cancer cells and consequences on aggressiveness
- 10:12 COFFEE BREAK

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# SESSION 6: Chair Silvana Morello

- **10:32 Maria Chiara Zuccarini** Purin<mark>e</mark>rgic Signaling in Breast Cancer: crosstalk between de novo and salvage nucleotide biosynthetic pathways
- **10:44 Bojan Bondzi** Synthesis of novel bioactive molecules using visible light promoted photoredox chemistry in microflow conditions
- **10:56 2° Round Table,** Chairs **Christa Müller and Steven Mansoor** Recent advancements in P2X antagonists
- 11:35 Elena De Marchi COST rules for reimbursement
- **12:00 HINGE PLENARY SESSION** *Henning Ulrich* Purinergic receptors: from neurogenesis to neurodegeneration