

# CELLULAR METABOLISM SYMPOSIUM



December 8, 2025

Campus Brabois-Santé – Bâtiment BIOPOLE- Salle 1A10



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**09:45 – 10:15 — Participant Registration & Welcome Coffee**

**10:15 – 10:25 — Opening & Introduction**

Natalia de Isla & Huguette Louis — Opening remarks and program overview.

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**10:25 – 11:15 — Plenary Lecture**

Pr. Celia Quijano, Department of Biochemistry and CEINBIO – Universidad de la República, Montevideo, Uruguay

**Cell metabolism in senescence**

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**Session I: Metabolism and Cellular Dysfunctions (11:15 – 12:00)**

11:15 — Noémie Cammiciotto (NGERE): Cataplerosis and Bioenergetic Failure in Propionic Acidemia: A multi-Platform Metabolic Characterization

11:30 — Ghanim Fajish Valamparamban (DCAC): Assessing Oxygen Consumption Rates in Healthy and Pathological Smooth Muscle Cells

11:45 — Emilie Velot (IMOPA): Characterizing Emerging Metabolic Modulators: Insights and methods for extracellular Vesicles

**12:00 – 13:30 — Break**

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**13:30 – 14:30 — Technical Presentation: Methodology Focus**

Christophe lochem (Agilent Technologies): Key approaches assessing cellular energy metabolism and mitochondrial function with real-time extracellular flux analysis using Agilent Seahorse XF technology

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**Session II: Homeostasis in Vascular and Immune Systems (14:30 – 15:00)**

14:30 — Gabrielle Van De Velde (DCAC): Internalisation of human platelets by vascular smooth muscle cells in atherosclerosis conditions

14:45 — Gaetan Vanotti (DCAC): LSR-mediated regulation of macrophage lipid homeostasis and cellular metabolism

**15:00 – 15:30 — Coffee Break**

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**Session III: Immune Cell Metabolic Assessment (15:30 – 16:30)**

15:30 — Jose-Arthur Guimaraes (IMOPA): SCENITH approach for CAR-VST metabolic profiling

15:50 — Alexandra Guelton (IMOPA): T-cell metabolic reprogramming induced by interaction with mesenchymal stromal cells

16:05 — Jessica Bettinger (IMOPA): MetFlow: a new approach to define the metabolic profile of myeloid-derived suppressor cells (MDSCs)

**16:20 – 16:30 — Closing of the Symposium**

Conclusion and final remarks