

AGENDA

3rd

World Congress

TARGETING **E**XTRACELLULAR **V**ESICLES

EXTRACELLULAR VESICLES:

**Bridging Mitochondria,
Microbiota and
Precision Medicine**

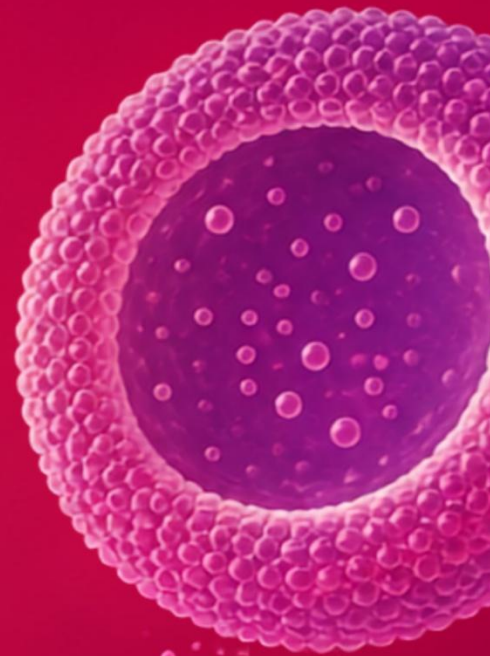


NOVEMBER
12-13, 2026



PORTO,
PORTUGAL

International Society
of **m**icrobiota



MITOCHONDRIA



MICROBIOTA

Conference Agenda

Day 1 - November 12 - 2026

Mitochondria and Microbiota in Dialogue: The Biological EV Bridge

08h30 – 09h00 **Welcoming of attendees & Materials Distribution**

09h00 – 09h15 **Opening of Targeting Extracellular Vesicles 2026**

Welcome from WMS and ISM: Why EVs may connect microbiota, mitochondria, immunity and disease

Mitochondria & Extracellular Vesicle: New Pathways of Intercellular Communication



09h15 – 09h45 **Redox Regulation of Extracellular Vesicle Communication**
Carla Lopes, University of Minho, Portugal



09h45 – 10h15 **Platelet-Derived Microvesicles as Mitochondrial Messengers: Reprogramming Immune Bioenergetics and Inflammation**
Luc Boudreau, University of Moncton, Canada

10h15 – 11h00 Coffee Break & Networking



11h00 – 11h30 **Glial EVs as Guardians of Axonal Mitochondria: Linking Neurobiology, Stress, and Inflammation**
Eva-Maria Krämer-Albers, Johannes Gutenberg University of Mainz, Germany



11h30 – 12h00 **Mitochondrial Signaling Beyond the Organelle: EV-Mediated Neuroinflammation in Brain Injury**
Bartosz Szczesny, The University of Texas Medical Branch, USA



12h00 – 12h30 **A New Perspective on the Role of Mitovesicles, Small Mitochondria-Derived Extracellular Vesicles, in Alzheimer's Disease**
Efrat Levy, New York University Grossman School of Medicine, USA

12h30 – 12h50 **Session Discussion**

12h50 – 13h45 Lunch and Poster Viewing



Session 2: Microbial Vesicles and Cross-Kingdom Communication



13h45 – 14h15 **Bacterial Membrane Vesicles as Carriers of Bioactive Compounds**
Leo Eberl, *University of Zurich, Switzerland*



14h15 – 14h45 **Bacterial Extracellular Vesicles Restore Immune Balance in Gut-First Parkinson's Disease**
Sandra Morais Cardoso, *CNC-UC, University of Coimbra, Portugal*



14h45 – 15h15 **From Gut Dysbiosis to Cardiometabolic Disease: EVs as Biomarkers, Mediators and Therapies**
Ramarason Andriantsitohaina, *Université de Montpellier, France*

15h15 – 15h35 **Session Discussion**

15h35 – 16h20 Coffee Break & Networking

16h20 – 17h00 **Flash Communications and Poster Highlights**

- Three-minute selected poster presentations
- Introduction to the Day 1 poster session

17h00 **End of Day 1**



Day 2 – November 13, 2026

Engineering and Translating the EV Bridge

08h30–09h00 Welcoming of attendees

Session 3: Programming EV Identity, Cargo and Tissue Tropism



Keynote Lecture

09h00 – 09h30 **Engineered EVs for Precision Targeting and Nucleic Acid Delivery:
From Mechanistic Insights to Therapeutic Applications**
Pieter Vader, Utrecht University, Netherlands



09h30 – 10h00 **Lipids in EVs:
Membrane Constituents and Regulators of Their Biogenesis and Release**
Alicia Llorente, Oslo University Hospital, Norway



10h00 – 10h30 **Surface Functionalization and Tissue Tropism**
Kuldeep Neote, Diadem Biotherapeutics, USA

10h30 – 11h15 Coffee Break & Networking



11h15 – 11h45 **Can We Program EV Tropism? Lessons from Brain-Targeted Exosome Delivery to Next-
Generation RNA Medicines**
Dhanu Gupta, University of Oxford, United Kingdom



11h45 – 12h15 **Hybrid EV-Based Platforms for Retinal mRNA Delivery**
Elita Montanari, Università degli studi Roma Tre, Italy

12h15 – 12h35 **Session Discussion**

12h35 – 13h40 Lunch, Posters and Exhibition



Session 4: EVs as Biological Modulators: Reprogramming Disease, Repair and Immunity



13h40 – 14h05 **Platelet-Derived Microvesicles as Growth Factor Platforms:
Reprogramming Cancer Cell Signaling and the Tumor Microenvironment**
Gilles A. Robichaud, Université de Moncton, Canada



14h05 – 14h30 **Senescence Modulation Through EVs**
Lino Ferreira, CNC-UC, University of Coimbra, Portugal

14h30 – 14h55 Coffee Break & Networking



14h55 – 15h20 **Clinical Potential of MSC-EVs and Translational Challenges**
Bernd Giebel, University Hospital Essen, Germany

15h20 – 15h40 **Session Discussion**

15h40 – 16h40 **EV Innovation Arena: Measure. Engineer. Scale. Translate.**



15h40 – 16h10 **From Discovery to GMP:
Scaling EV Manufacturing for Clinical Translation**
Andreia M. Silva, Exogenus Therapeutics, S.A., Portugal

16h10 – 16h40 **Selected Innovation Presentations**

Suggested format:

- Three presentations of eight minutes;
- Brief expert feedback after each presentation.

Priority areas:

- AI-powered single-vesicle analytics;
- Functional and potency assays;
- Next-generation engineering platforms;
- Scalable isolation and purification;
- Diagnostics;
- Therapeutic applications.

16h40 – 17h00 **Innovation Arena Discussion**

17h00 – 17h40 **Strategic Closing Forum: Are EVs the Missing Language Between Microbiota, Mitochondria and Immunity?**

17h40 – 18h00 **Closing Conclusions and Awards**

- Best Short Oral Communication
- Best Poster
- Outstanding EV Innovation
- Closing remarks

18h00 **End of Targeting EVs 2026**

