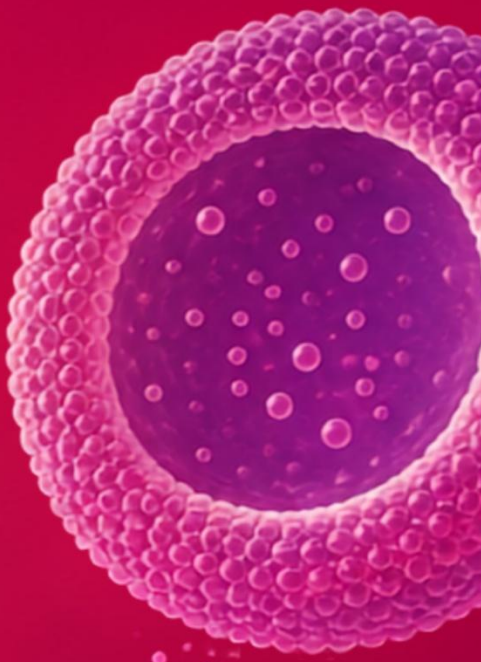
AGENDA

3rd World Congress

TARGETING EXTRACELLULAR VESICLES





MITOCHONDRIA

EXTRACELLULAR VESICLES:

Bridging Mitochondria, Microbiota and Precision Medicine



MICROBIOTA

NOVEMBER
12-13, 2026

PORTO,
PORTUGAL



International Society of Microbiota

World Mitochondria Society

Welcome to Targeting Extracellular Vesicles 2026

3rd World Congress on Targeting Extracellular Vesicles

November 12–13, 2026 | Porto, Portugal

Dear Colleagues and Friends,

It is a great pleasure to welcome you to the 3rd World Congress on Targeting Extracellular Vesicles 2026 in Porto, Portugal.

Building on the scientific momentum of previous editions, this year's congress places extracellular vesicles at the heart of biological communication, exploring their emerging roles in connecting mitochondria, microbiota, immune networks, and tissues.

Our ambition is to move beyond studying extracellular vesicles as isolated biological entities and to understand how they contribute to cellular adaptation, intercellular communication, and disease.

This congress also reflects a broader scientific vision: building bridges between research communities that too often work separately. By bringing together members and experts from the World Mitochondria Society (WMS), the International Society of Microbiota (ISM), and the extracellular vesicle research community, we aim to encourage new perspectives, interdisciplinary dialogue, and lasting collaborations.

Throughout these two days, researchers, clinicians, and innovators will share discoveries, emerging technologies, and translational opportunities.

A central question will guide our discussions: How can we translate our growing understanding of extracellular vesicles into reliable biomarkers, innovative therapies, and precision medicine?

Beyond scientific presentations, we hope this meeting will stimulate critical discussion, strengthen connections between scientific disciplines, and identify the challenges that still need to be addressed.

We extend our sincere gratitude to the World Mitochondria Society and the International Society of Microbiota for their support in building these scientific bridges and bringing their respective communities together.

We also warmly thank our invited speakers, scientific committee members, partners, and participants for contributing to this international scientific dialogue.

We wish you two stimulating and productive days in Porto.



Carla Lopes
President, Targeting Extracellular Vesicles 2026
ICVS, University of Minho, Portugal



Ramaroson Andriantsitohaina
Vice-President, Targeting Extracellular Vesicles 2026
Université de Montpellier, France

Day 1 – November 12, 2026

Mitochondria and Microbiota in Dialogue: The Biological EV Bridge

08h00 – 09h00 **Registration, Welcome and Materials Distribution**

09h00 – 09h15 **Opening of Targeting Extracellular Vesicles 2026**
Carla Lopes, Ramaroson Andriantsitohaina, Marvin Edeas

Session 1: Mitochondria & Extracellular Vesicles: New Pathways of Intercellular Communication

(25-minute presentations + 5-minute Q&A)

Chairs: Ramaroson Andriantsitohaina, Sandra Morais Cardoso



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



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

10h15 Coffee Break, Networking and Poster Sessions



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



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



12h00 **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 Lunch Break, Networking and Group Photo

TARGETING EXTRACELLULAR VESICLES

Session 2: Microbial Vesicles and Cross-Kingdom Communication

Chairs: Carla Lopes, Susana Gomes Santos, Eva-Maria Krämer-Albers



14h00 **Bacterial Membrane Vesicles as Carriers of Bioactive Compounds**
Leo Eberl, *University of Zurich, Switzerland*



14h30 **Bacterial Extracellular Vesicles Restore Immune Balance in Gut-First Parkinson's Disease**
Sandra Morais Cardoso*, CNC-UC, University of Coimbra, Portugal*



15h00 **From Gut Dysbiosis to Cardiometabolic Disease: EVs as Biomarkers, Mediators and Therapies**
Ramaroson Andriantsitohaina, *Université de Montpellier, France*

15h30 Coffee Break, Networking and Poster Sessions

Short Oral Communications (7-minute presentation + 3-minute Q&A)

16h15 Extracellular Vesicles Link Cerebral Ischemia to Remote Coronary Microvascular Dysfunction via RGD Motifs
Zsolt Bagi*, Augusta University, USA*

16h25 Mesenchymal Stem Cell-Derived Extracellular Vesicles Protect Cocaine-Induced Mitochondrial Dysfunction and Dysregulated Mitophagy in Microglia
Shilpa Buch*, University of Nebraska Medical Center, USA*

16h35 The Effects of Extracellular Vesicles Released by Gut Commensal *Bacteroides thetaiotaomicron* on Human iPSC-Derived Microglial Cells
Qiwen Tang*, University of Groningen, Netherlands*

16h45 Extracellular Vesicles as Transporters of Alpha-Synuclein from Gut to Brain in Parkinson's Disease
John-Peter Ganda Mall*, Örebro University, Sweden*

16h55 Cytokine Priming Enhances Anti-Neutrophil Activity of an Equine Extracellular Vesicle-Enriched Muscle-Derived Mesenchymal Stem Cell Secretome
Didier Serteyn*, University of Liège, Belgium*

17h05 Proteomic Characterization of Extracellular Vesicles Across Biological Matrices: Expertise and Applications from the PAPPSO Facility
Céline Henry*, Université Paris-Saclay, INRAE, AgroParisTech, PAPPSO Platform, France*

17h15 Capturing Bacterial Extracellular Vesicles Across Planktonic and Biofilm Growth: Isolation Strategies and Preliminary Characterization
Francesco Flandi*, IRCCS Humanitas Research Hospital, Italy*

17h25 Recombinant Extracellular Vesicles from E. coli as Vaccines Within One Health
Hanne Cecilie Winther-Larsen*, University of Oslo, Norway*

17h35 Type I IFN Response of Human Brain Endothelial Cells to *Plasmodium falciparum*-Infected RBC-Derived Factors
Teresa F. Pais*, Universidade NOVA de Lisboa, Portugal*

17h45 End of Day One

20h00 Speakers' Dinner - Reserved for invited speakers & ticket holders only
Register for dinner

Day 2 – November 13, 2026

Engineering and Translating the EV Bridge

08h30 – 09h00 **Welcoming of attendees**

Keynote Lecture



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

Session 3: Programming EV Identity, Cargo and Tissue Tropism

Chairs: Lino Ferreira, Bernd Giebel



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



10h00 **Can We Program EV Tropism? Lessons from Brain-Targeted Exosome Delivery to Next-Generation RNA Medicines**
Dhanu Gupta, *University of Oxford, United Kingdom*

10h30 Coffee Break, Networking and Poster Sessions



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

Short Oral Communications (7-minute presentation + 3-minute Q&A)

11h45 Engineering miRNA-Enriched Extracellular Vesicles Using Next-Generation Transfection Agents Based on Artificial Intelligence
Marta Barão, *University of Coimbra, Portugal*

11h55 Engineering Extracellular Vesicles for Advanced Nanotherapy in Cystic Fibrosis: From Gene Correction to Antifibrotic Activity
Sylwia Bobis-Wozowicz, *Jagiellonian University, Poland*

12h05 Improving Extracellular Vesicle Storage Through Lyophilization with a Simplified Cryoprotective Formulation
Ana Maria Carvalho, *University of Coimbra, Portugal*

12h15 Engineering TET-8-Specific ABD Ligands for Functionalization of Plant Extracellular Vesicles
Lucie Vaňková, *Institute of Biotechnology of the Czech Academy of Sciences, Czech Republic*

12h30 Lunch Break, Networking, and Poster Sessions

Session 4: EVs in Disease, Repair and Clinical Translation

Chairs: Pieter Vader, Alicia Llorente



13h30 **Platelet-Derived Microvesicles as Growth Factor Platforms: Reprogramming Cancer Cell Signaling and the Tumor Microenvironment**
Gilles A. Robichaud, *Université de Moncton, Canada*



14h00 **Can Plasma EVs Carry Rejuvenation Signals? Age-Dependent Control of Inflammation and Oxidative Stress**
Raghavan Pillai Raju*, Augusta University, USA*



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

15h00 Coffee Break, Networking and Poster Sessions



15h30 **Clinical Potential of MSC-EVs and Translational Challenges**
Bernd Giebel, *University Hospital Essen, Germany*



16h00 **Strategies for GMP Manufacturing, Control and Batch Release of Extracellular Vesicle-Based Drugs**
Andreia M. Silva, *Exogenus Therapeutics, S.A., Portugal*

Short Oral Communications (7-minute presentation + 3-minute Q&A)

16h30 Large Oncosomes Carry Oncogenic and Metabolic Cargo and Promote Aggressiveness in Dedifferentiated Liposarcoma
Emanuela Russo*, Fondazione IRCCS Istituto Nazionale dei Tumori, Italy*

16h40 Exosomes from Cytokine-Preconditioned Human Umbilical Cord-Derived Mesenchymal Stem Cells (hUCB-MSC) Attenuate Psoriatic Skin Inflammation
Symbat Alimbek*, National Center for Biotechnology, Kazakhstan*

16h50 Combinatorial Delivery of Micro-RNA-Enriched Small Extracellular Vesicles Attenuates Cardiac Fibrosis and Stimulates Cardiomyocyte Proliferation
Ana Carolina Mendes*, University of Coimbra, Portugal*

17h00 A 3D-Biofabricated Hydrogel Platform for Extracellular Vesicle Delivery in Wound-Healing Applications
Sahar Dinparvar*, Central European Institute of Technology, Brno, Czech Republic*

17h10 Strategic Closing Forum & Awards

Where Should Extracellular Vesicle Science Go Next and What Must We Demonstrate?
Moderators: ***Ramaroson Andriantsitohaina, Marvin Edeas, Carla Lopes.***

Discussion with: Invited Speakers, Scientific Committee Members and Audience.

18h00 Networking, Drinks and Appetizers

Thanks to
All Our Speakers


Carla Lopes


Leo Eberl


Eva-Maria Krämer-Albers


Bartosz Szczesny


Ramaroson Andriantsitohaina


Luc Boudreau


Sandra Morais Cardoso


Efrat Levy


Pieter Vader


Alicia Llorente


Elita Montanari


Dhanu Gupta


Gilles A. Robichaud


Lino Ferreira


Andreia M. Silva


Bernd Giebel


Raghavan Pillai Raju

Thanks to Our **Supporter**

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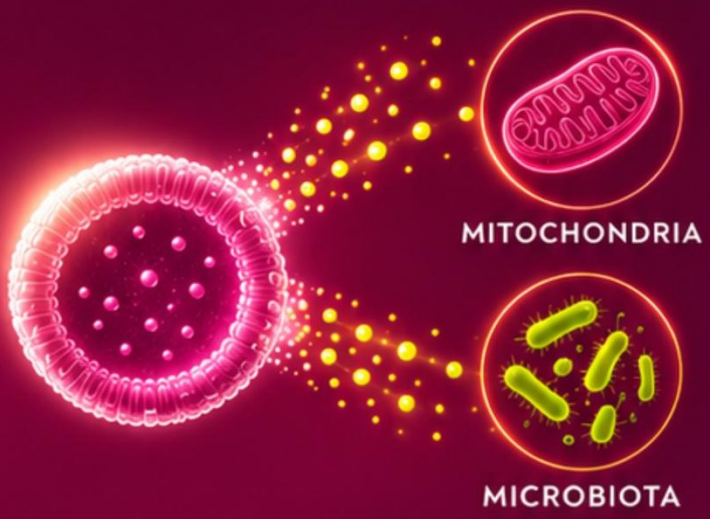
International Society of Microbiota

IN STRATEGIC ALLIANCE

UNITING GLOBAL EXPERTISE ON EXTRACELLULAR VESICLES

BRIDGING

Mitochondria, Microbiota and Precision Medicine



CONNECT COMMUNITIES | INTEGRATE DISCIPLINES | ACCELERATE TRANSLATION

TARGETING EXTRACELLULAR VESICLES



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