Agenda

2nd World Congress

TARGETING EXTRACELLULAR VESICLES

Microbiota & Mitochondria : Key Targets

October 15-16, 2025 - Valencia, Spain

International Society of Microbiota

World Mitochondria Society

2nd World Congress on Targeting Extracellular Vesicles

October 15-16, 2025 – Valencia, Spain

Day 1 – October 15 – 2025

Conference Agenda

8h00 **Materials Distribution**

8h50 **Welcome Note of Targeting Extracellular vesicles 2025:**
Marvin Edeas, Volkmar Weissig, Ramaroson Andriantsitohaina, and Carla Lopes
Local Organizing Committee: Consuelo Borrás, Cristina Mas-Bargues, Antonio Marcilla, and Ana Melero



9h00 **Introductory Remarks: Extracellular Vesicles in 2025**
***Consuelo Borrás**, President of the Local Organizing Committee, University of Valencia, Spain*

Keynote Speech



9h10 **Extracellular Vesicles as Architects of Systemic Health and Disease**
***Simon Carding**, Quadram Institute Bioscience, United Kingdom*

Session 1: Mitochondria & Extracellular Vesicles: A Cross-Talk in Health & Disease

Chairpersons: Ramaroson Andriantsitohaina, Consuelo Borras



9h40 **Extracellular Vesicles and Mitochondrial Dynamics: Implications in Aging and Pathology**
***Maria Cavinato,** University of Innsbruck, Austria*



10h05 **Extracellular Vesicles and Mitochondrial Transfer: A Novel Approach for targeting Parkinson's Disease and Alzheimer's disease**
***Amalia Dolga,** University of Groningen, The Netherlands*

10h30 – 11h15 Coffee Break, Networking, & Poster Session



11h15 **Mitochondrial Stress Drives Nucleophagy and the Release of Extracellular Vesicles Carrying DAMPs**
***Carla Lopes,** University of Coimbra, Portugal*



11h40 **Impact of Maternal Extracellular on Embryo Metabolism: Recent Advances and Perspectives**
***Felipe Vilella,** INCLIVA Health Research Institute, Spain*

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Chairpersons: Carla Lopes, Maria Cavinato

12h05 **Short Oral Presentations:**

Small Extracellular Vesicles from Young Adipose-Deprived Stem Cells Ameliorate Age-Related Cognitive and Metabolic Impairments in Aged Mice
Javier Huete, *University of Valencia, Spain*

Polycyclic Aromatic Hydrocarbons Stimulate Mitochondria-Containing Extracellular Vesicle Release in Endothelial Cells: Sorting and Characterization of Distinct Subpopulations
Camille Chauvin, *University of Rennes, France*

12h30 – 14h00 Lunch Break, Networking, & Poster Session



14h00 **Redox Modulation in Aging Mediated by Stem Cell-derived Extracellular Vesicles**
Cristina Mas-Bargues, *University of Valencia, Spain*



14h25 **Extracellular Vesicles in Cardio-Metabolic Therapy: Targeting Hypothalamic NLRP3 to Prevent Obesity- Linked Arrhythmias**
Ramaroson Andriantsitohaina, *University of Montpellier, France*



14h50 **Exosomal Membrane Histones: Their Role and Regulation Under Stress Conditions**
Jonathan Gilthorpe, *Umeå University, Sweden*

Chairpersons: Laura Baldoma, Roosmarijn E Vandenbroucke

15h15 **Short Oral Presentations:**

Astrocyte-Derived Extracellular Vesicles in Central and Intestinal Inflammation: A Possible Brain-to-Gut Signaling Pathway
Inge Úrsula Wyneken Hempel, *Universidad de los Andes, Chile*

IRSp53-Dependant Filopodia-Derived Extracellular Vesicles Promote Cell Proliferation Via Targeting Through Integrins and Laminin
Shiro Suetsugu, *Nara Institute of Science and Technology, Ikoma, Japan*

15h35 – 16h15 Coffee Break, Networking, & Poster Session

Changes in Cryotolerance of Spermatozoa in Men with Infertility Under the Influence of Extracellular Vesicles from Donor Seminal Plasma
Anastasia Sysoeva, *Federal State Budgetary Institution "National Medical Research Center for Obstetrics, Gynecology, and Perinatology named after Academician V.I. Kulakov" of the Ministry of Health of Russia, Russia*

Inhibition of Biogenesis of Extracellular Vesicles Induces Bioenergetic Changes in Podocytes
Wiktor Jarecki, *Mossakowski Medical Research Institute,*
Polish Academy of Sciences, Poland

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Plasma Exosomes from Individuals with HIV and Cancer Enhance Tumor Cell Proliferation and Migration
***Norma Rallón**, Health Research Institute Fundación Jiménez Díaz, Autonomous University of Madrid (IIS-FJD, UAM) / HURJC, Madrid, Spain*

Metabolic Stress Regulation of Adipose Tissue Exosome Release in a High Fat Fed Mouse Model of Obesity, Role of Autophagy?
***Silvia Mora,** University of Barcelona, Spain*

17h00 **End of Day 1**

20h00 **Meet the Speakers Dinner** *(Reserved for ticket holders only)*

TARGETING EXTRACELLULAR VESICLES

Day 2 – October 16, 2025

8h50 **Opening Day 2**

Session 2: Microbiota & Extracellular Vesicles: Implications for Human Health

Chairpersons: Claudia Günther, Magdalena Gorska- Ponikowska



9h00 **Microbiota Extracellular Vesicles as a Postbiotic Strategy: Recent Findings and Perspectives**
Laura Baldomà, *Universitat de Barcelona, Spain*



9h25 **The Microbiome's Secret Handshake: How bacterial EVs hijack immunity and harm the liver in IBD**
Claudia Günther, *University Hospital Erlangen, Germany*



9h50 **Dietary-Derived Exosome-like Nanoparticles: Advances and Perspectives**
Carla Soler, *University of Valencia, Spain*

10h15 – 11h00 Coffee Break, Networking, & Poster Session



11h00 **Bacterial Extracellular Vesicles Halt the Progression of Parkinson's Disease in the Gut**
Sandra Morais Cardoso, *University of Coimbra, Portugal*

11h25 **Short Oral Presentations:**

RNA and DNA-Based Bacterial Extracellular Vesicle Source Identification
Jenni Turunen*, University of Oulu, Finland*

Batch Fermentation in Bioreactor for S. Epidermidis EVs Production
Giacomo Presutti*, Politecnico di Torino, Italy*

High-Yield Extracellular Vesicle Production from Microorganism Producer Cells Under Rotating Motion in Baffled Vessel
Solène Lenoir, *Institut Curie, France*

Maternal Weight and Bacterial Extracellular Vesicles in Amniotic Fluid and Feces of Pregnant Women
Kaisu Kyrö, *University of Oulu, Finland*

Extracellular Vesicles from Lacticaseibacillus Paracasei Reduce Neuroinflammation in Hippocampus and Restore Some Cognitive Functions in Hyperammonemic Rats
Paula Izquierdo-Altarejos*, INCLIVA Health Research Institute, Spain*

12h15 – 13h45 Lunch Break, Networking, & Poster Session

Session 3: Clinical Applications of EVs: Challenges and Perspectives

Chairpersons: Sandra Morais Cardoso, Cristina Mas-Bargues



13h45 **Microbiota-Derived OMVs: A Novel Mechanism in Brain Function and Alzheimer's Disease**
Roosmarijn E Vandenbroucke, *Ghent University, Belgium*



14h10 **Engineered Extracellular Vesicles for Regeneration and Rejuvenation: Advances and Perspectives**
Lino Ferreira, *University of Coimbra, Portugal*



14h35 **Inverse Association Between Parkinson's Disease and Cancer: Could Exosomes Be the Missing Link?**
Magdalena Gorska-Ponikowska, *Medical University of Gdańsk, Poland*



15h00 **The Influence of Plant Exosomes on the Healing Process in the Patient with Hydradenitis Suppurativa**
Wioletta Baranska-Rybak, *Medical University of Gdańsk, Poland*



15h25 **Extracellular Vesicles for Treating Lysosomal Storage Disorders**
Ibane Abasolo, *Instituto de Química Avanzanda de Cataluña – CSIC, Spain*

15h50 **Targeting EVs 2025 – Concluding Remarks**
Consuelo Borrás, President of the Local Organizing Committee, University of Valencia, Spain
Marvin Edeas, Founder of Targeting Extracellular Congress

16h00 **Targeting EVs 2025 – Awards**

16h10 – Coffee, Drinks and Snacks & Networking

17h00 End of Targeting EVs 2025

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