

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Exosomes, Microvesicles and Other Extracellular Vesicles (B3)

February 20-23, 2022 • Eldorado Hotel & Spa • Santa Fe, NM, USA

Scientific Organizers: Clotilde Thery, Andrew Hill and Susmita Sahoo

Sponsored by Cell Research

Global Health Travel Award Deadline: January 31, 2022 / Scholarship Deadline: November 9, 2021 / Abstract Deadline: November 15, 2021 / Discounted Registration Deadline: December 16, 2021

SUNDAY, FEBRUARY 20

Arrival and Registration

MONDAY, FEBRUARY 21

EV Isolation, Characterization and Normalization

Kenneth W. Witwer, Johns Hopkins Medical Institutions, USA
Guidelines (MISEV2018), Rigor and Standardization Initiatives for EV Studies

Robert J. Coffey, Jr., Vanderbilt University Medical Center, USA
Update on Isolation and Characterization of Extracellular Vesicles and Nanoparticles

Aleksandar Milosavljevic, Baylor College of Medicine, USA
Deconvoluting the Biology of exRNA Carriers and Their Cargo

Short Talk(s) Chosen from Abstracts

Poster Session 1

Hands On Workshop: Tools for Analysis of RNA Sequencing Data in Extracellular RNA and EVs

Short Talks Chosen from Abstracts

Biogenesis and Transfer of EVs

Pascale Zimmermann, Centre de Recherche en Cancerologie de Marseille and KU Leuven, France
Syntenin-Dependent Exosome Formation and Induced Molecular Signaling in Cell-to-Cell Communication

Maureen M. Barr, Rutgers University, USA
Cilia-Derived Vesicle Biogenesis and Signaling in Animal Communication

Randy W. Schekman, University of California at Berkeley, USA
Mechanisms of miRNA Sorting into EVs

Niek Dekker, AstraZeneca, Sweden
Engineered Extracellular Vesicles for Drug Delivery for Regenerative Therapy

Short Talk(s) Chosen from Abstracts

TUESDAY, FEBRUARY 22

EVs and Cancer

Clotilde Thery, Institut Curie, France
Exosomes and Other EVs in Tumor-Immune System Cross-Talk

Michele De Palma, École Polytechnique Fédérale de Lausanne, Switzerland
Harnessing Tumor-Derived Extracellular Vesicles for Cancer Therapy

Wei Guo, University of Pennsylvania, USA
Exosomal PD-L1 Contributes to Immunosuppression and Is Associated With Anti-PD-1 Response in Melanoma

Short Talks Chosen from Abstracts

EVs in Aging-Nervous System

Andrew Hill, La Trobe University, Australia
EVs in Neurodegenerative Diseases

Efrat Levy, NYU Langone Health, USA

Extracellular Vesicles are Central to Neuronal Endosomal Pathway Integrity in Aging and in Neurodegenerative Diseases

Short Talk(s) Chosen from Abstracts

EVs and Cardio-Metabolic Physio/pathology

Speaker to be Announced

Clair Crewe, Washington University School of Medicine in St. Louis, USA

Adipocyte Energetic Stress Induces Mitochondrial-Derived Extracellular Vesicle Production to Regulate Systemic Metabolism

Chantal Boulanger, Inserm Paris Cardiovascular Centre, France
Intracardiac Extracellular Vesicle Release in Post-Infarction Diabetic Hearts

Susmita Sahoo, Icahn School of Medicine at Mount Sinai, USA
EVs in Myocardial Gene Delivery

Short Talk(s) Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 23

Non Mammalian EVs and Viruses

Esther Nolte-'t Hoen, Utrecht University, Netherlands
Viral and Host Mechanisms Driving the Release of EV-Enclosed Picornaviruses

Nihal Altan-Bonnet, NHLBI, National Institutes of Health, USA
All Aboard: Extracellular Vesicles, Viruses and Strength in Numbers

Matias Ostrowski, University of Buenos Aires, Argentina
HIV Pathogenesis and Extracellular Vesicles-Mediated Inflammation

Alex Loukas, James Cook University, Australia
Parasitic Worm EVs Regulate Host Cell Function

Short Talk(s) Chosen from Abstracts

Novel Technological Developments

Chioma Okeoma, Stony Brook University, USA
Novel Technologies for EVs and Virus Separation

Jennifer C. Jones, NCI, National Institutes of Health, USA
New Approaches to Individual EV Assays and EV Repertoire Studies

Short Talk(s) Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

THURSDAY, FEBRUARY 24

Departure