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
Cláudio Pinheiro, Gent University, Belgium
Short Talk: Evaluation of Different Methods to Separate Extracellular Vesicles from Multiple Biofluids in the Extracellular Vesicle Quality Control (EVQC) Study
Seda Kılınç Avsaroglu, University of California, San Francisco, USA
Short Talk: Oncogene-Regulated Release of Extracellular Vesicles
Ariana K. von Lersner†, Vanderbilt University, USA
Short Talk: "EV Fingerprinting": Resolving the Heterogeneity of Extracellular Vesicle Populations using Dimensional Reduction of Multi-Parametric Flow Cytometry Data
Lizandra Jimenez, Vanderbilt University, USA
Short Talk: Evaluation of Culture Conditions on the Presence of Ago2 and miRNAs in Small Extracellular Vesicles

Poster Session 1

Hands On Workshop: Tools for Analysis of RNA Sequencing Data in Extracellular RNA and 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
Nieck Dekker, AstraZeneca, Sweden
Engineered Extracellular Vesicles for Drug Delivery for Regenerative Therapy
Bahnisikha Barman, Vanderbilt University, USA
Short Talk: VAP-A-CERT Linkages at ER-Membrane Contact Sites Regulate Biogenesis of RNA Containing Extracellular Vesicles
Daniel Humphrys, University of Washington, USA
Short Talk: Functionalization of the Membrane Envelopes of Enveloped Protein Nanocages with Transmembrane Proteins

TUESDAY, FEBRUARY 22

EVs and Cancer
Clotilde Théry, 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
Nuno Bastos, i3S - Institute for Research and Innovation in Health, Porto, Portugal
Short Talk: Loss of Rab27a in Pancreatic Cancer Steers an Inflammatory Microenvironment that Promotes Disease Progression

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
Michael Hantak, University of Utah, USA
Short Talk: Arc EVs are Virus-like Intercellular Communicators
Christian Neri, IBPS, Sorbonne University, France
Short Talk: Extracellular Vesicle Remodeling in Response to Mutant Huntingtin

EVs and Cardio-Metabolic Physio/pathology
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
Marieke Roefs, UMC Utrecht, Netherlands
Short Talk: Unraveling Extracellular Vesicle-Mediated Cardioprotection: EV-Dependent and -Independent Mechanisms?
Parul Sahu, Massachusetts General Hospital/Harvard Medical School, USA
Short Talk: Defining Cardiomyocytes Derived Extracellular Vesicles and Cargoes for Characterizing Cardiovascular Diseases
Alan M. Adamczyk†, University Of Buenos Aires, Argentina
Short Talk: Plasma Extracellular Vesicles Impair Macrophage Activation and Promote an M2 Phenotype

TUESDAY, FEBRUARY 22

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

Yiyao Huang, Johns Hopkins University, USA
Short Talk: EV Packaging of U6 Small Nuclear RNA in SIV Infection

Daniel C. Rabe, Massachusetts General Hospital, USA
Short Talk: Microfluidic Detection of SARS-CoV-2 and Virus-Related Extracellular Vesicles to Predict Outcome in COVID-19 Patients

Aadil Sheikh, Baylor University, USA
Short Talk: Bacteria-Derived Outer Membrane Vesicles Contain Unique Small RNA Species and Interact with Host Cells

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

Thomas Gaborrski, Rochester Institute of Technology, USA
Short Talk: Development of Nanopocket Membranes for the Purification and Fractionation of Extracellular Vescicle Subpopulations

Qin Zhang, Vanderbilt University Medical Center, USA
Short Talk: Supermeres are Functional Extracellular Nanoparticles Replete with Disease Biomarkers and Therapeutic Targets

Olesia Gololobova, Johns Hopkins University, USA

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

THURSDAY, FEBRUARY 24
Departure