

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Exosomes/Microvesicles: Heterogeneity, Biogenesis, Function, and Therapeutic Developments (E2)

June 4-8, 2018 • Beaver Run Resort • Breckenridge, Colorado, USA

Scientific Organizers: Crislyn D'Souza-Schorey and David Lyden

Supported by the Directors' Fund

Abstract & Scholarship Deadline: February 6, 2018 / Abstract Deadline: March 6, 2018 / Discounted Registration Deadline: April 10, 2018

### MONDAY, JUNE 4

#### Arrival and Registration

### TUESDAY, JUNE 5

#### Extracellular Vesicles (EVs): Cargo and Composition

**Xandra O. Breakefield**, Massachusetts General Hospital, USA  
*Nucleic Acid Content of Exosomes*

**Dolores Di Vizio**, Cedars-Sinai, USA  
*Oncosomes in Prostate Cancer*

**Huang-Ge Zhang**, University of Louisville, USA  
*Isolation, Identification and Characterization of Novel Nanovesicles*

**Stephen J. Gould**, Johns Hopkins University School of Medicine, USA  
*Mapping Exosome/Microvesicle Trafficking in vivo*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 1

##### Short Talks Chosen from Abstracts

#### EVs and Regulation of the Immune Response

**Marca H.M. Wauben**, Universiteit Utrecht, Netherlands  
*Cross-Organism Communication: The Immune Regulatory Role of Breast Milk Extracellular Vesicles*

**Susanne Gabrielsson**, Karolinska Institutet, Sweden  
*Exosomes to Potentiate Immune Responses*

**Olga V. Volpert**, University of Texas MD Anderson Cancer Center, USA  
*The Dichotomy of the Innate Immune Response to Cancer Exosomes*

#### Short Talk Chosen from Abstracts

#### Poster Session 1

### WEDNESDAY, JUNE 6

#### EVs and Cancer I (Tumor Growth and Dissemination)

**James Clancy**, University of Notre Dame, USA  
*Tumor Microvesicles and Cell Invasion*

**Richard A. Cerione**, Cornell University, USA  
*Signaling Pathways in Cancer Progression*

**Raghu Kalluri**, University of Texas MD Anderson Cancer Center, USA  
*Exosomes and the Progression of Pancreatic Cancer*

**Clotilde Théry**, Institut Curie, France  
*Contributions of EV Subpopulations to Tumor Growth and Dissemination*

#### Short Talk(s) Chosen from Abstracts

#### EVs in Neurobiology: Neurodevelopment, Degeneration and Regeneration

**Andrew Hill**, La Trobe University, Australia  
*Exosomes and Microvesicles as Vehicles for the Transfer of Misfolded Proteins between Cells*

**Stefan Momma**, Frankfurt University Hospital, Germany  
*Roles for EV-Mediated Cargo Transfer during Neurodegeneration.*

**Tsuneya Ikezu**, Boston University School of Medicine, USA  
*EVs in Neurodegeneration*

#### Short Talk Chosen from Abstracts

#### Poster Session 2

### THURSDAY, JUNE 7

#### EVs and Cancer II (Metastases)

**David Lyden**, Weill Cornell Medical College, USA  
*The Role of Tumor-Secreted Exosomes in Cancer Metastasis*

**Janusz Rak**, McGill University, Canada  
*Extracellular Vesicles and the Spread of Brain Malignancies*

**Takahiro Ochiya**, National Cancer Center Research Institute, Japan  
*EV-Mediated Micromanaging of Tumor Metastasis*

**Dihua Yu**, University of Texas MD Anderson Cancer Center, USA  
*Astrocyte-Derived Exosomal microRNA Compels Brain Metastasis Outgrowth*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 2

##### Short Talks Chosen from Abstracts

#### Current and Emerging Technologies

**Olivier de Wever**, University Hospital Ghent, Belgium  
*Isolation of Extracellular Vesicles*

**David Issadore**, University of Pennsylvania, USA  
*Optofluidics Platforms for Exosome-based Diagnostics*

**Bruno Costa-Silva**, Champalimaud Foundation, Portugal  
*Population Analysis of Extracellular Vesicles*

#### Short Talk Chosen from Abstracts

#### Poster Session 3

### FRIDAY, JUNE 8

#### EVs in Host-Pathogen Interactions

**Neta Regev-Rudzki**, Weizmann Institute of Science, Israel  
*Malaria Parasites Regulate Secretion of Exosomes Carrying Distinct Cargo*

**Jeff S. Schorey**, University of Notre Dame, USA  
*Extracellular Vesicles: Friend or Foe in the Immune Response against a Mycobacterium tuberculosis Infection*

**Ana Claudia Torrecilhas**, Universidade Federal de São Paulo, Brazil  
*Extracellular Vesicles Modulate Innate Immune Response in Protozoa Infection*

**Marlene Dreux**, CIRI, International Center for Infectology Research, France  
*Sensing of Infected Cell via Cell-Cell Contact Trigger an Antiviral State*

#### Short Talk(s) Chosen from Abstracts

#### EV Therapeutics

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**Johan Skog**, Exosome Diagnostics, Inc., USA

*Current State of Exosome based Diagnostics*

**Jan Lötvall**, University of Gothenburg, Sweden

*Potential of Exosomes for Therapeutic Uses*

**Eva Rohde**, Paracelsus Medical University Salzburg, Austria

*Pharmaceutical Engineering and Clinical Testing of Extracellular Vesicles*

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

**SATURDAY, JUNE 9**

**Departure**