

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

Poster Session 1

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

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