



Join Keystone Symposia
for the 2016 conference on:

Exosomes/Microvesicles: Novel Mechanisms of Cell-Cell Communication

June 19–22, 2016

Keystone Resort | Keystone, Colorado | USA

Scientific Organizers: Richard A. Cerione and Xandra O. Breakefield

Extracellular vesicles are thought to serve as a means of cell-to-cell communication and contribute to a number of disease states, including cancer and neurodegeneration, thus offering new targets for therapeutic intervention and novel possibilities for diagnostic biomarkers. However, a number of important questions need to be answered. What are the regulatory cues that determine content and release of these vesicles from "donor" cells? How many different types of extracellular vesicles are there and do they vary among cell types? Are there specific uptake mechanisms of vesicles into "recipient cells" and is the cargo functional in these cells? The time is right for a conference that covers this exciting area and aims to bring together investigators from different disciplines and areas of interest to present their newest findings concerning the biogenesis of extracellular vesicles, how they are shed and dock onto target cells, and the biological and disease consequences of their functions.

Session Topics:

- Extracellular Vesicles and Cargo
- Extracellular Vesicle Biogenesis
- Extracellular Vesicle Release and Docking
- Extracellular Vesicles as Biomarkers and Therapeutic Vehicles
- Extracellular Vesicles in Cancer
- Extracellular Vesicles in Other Aspects of Biology and Disease
- Meeting Wrap-Up: Outcomes and Future Directions



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Feb 18, 2016

Abstract Deadline: Mar 17, 2016

Discounted Registration Deadline: Apr 19, 2016

For additional details, visit www.keystonesymposia.org/16E4.

KEYSTONE SYMPOSIA™
on Molecular and Cellular Biology
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Exosomes/Microvesicles: Novel Mechanisms of Cell-Cell Communication (E4)

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Supported by the Directors' Fund

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SUNDAY, JUNE 19

Arrival and Registration

MONDAY, JUNE 20

Welcome and Keynote Address

Xandra O. Breakefield, Massachusetts General Hospital, USA
General Overview

Extracellular Vesicles and Cargo

Jan Lötval, University of Gothenburg, Sweden
Extracellular Vesicles and their RNA Cargo

Richard Simpson, La Trobe University, Australia
Comparative Analysis of Extracellular Shed Microvesicles and Exosomes

Jennifer A. Lippincott-Schwartz, NICHD, National Institutes of Health, USA
Similarities and Differences between Extracellular Shed Vesicles and Traditional Secretory Vesicles

Short Talk(s) Chosen from Abstracts

Extracellular Vesicle Biogenesis

Graça Raposo-Benedetti, Institut Curie, France
How Exosomes are Generated from Multi-Vesicular Bodies

Richard A. Cerione, Cornell University, USA
Signals that Lead to MV Formation

Stephen J. Gould, Johns Hopkins University School of Medicine, USA
A Viral Model to Study the Biogenesis of Extracellular Vesicles

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, JUNE 21

Extracellular Vesicle Release and Docking

Marc Antonyak, Cornell University College of Veterinary Medicine, USA
Role of Fibronectin and Integrins in Microvesicle Docking

Crislyn D'Souza-Schorey, University of Notre Dame, USA
Roles of Signaling in the Shedding of Microvesicles

Phyllis I. Hanson, Washington University School of Medicine, USA
Mechanisms of Extracellular Vesicle Release

Hakho Lee, Massachusetts General Hospital, USA
Nanotechnology Platforms for Quantitative Analyses of Extracellular Vesicles

Short Talk(s) Chosen from Abstracts

Extracellular Vesicles as Biomarkers and Therapeutic Vehicles

Johan Skog, Exosome Diagnostics, Inc., USA
Cancer Mutations and Transcriptome Analysis of Exosomes from Biofluids

Louise Laurent, University of California, San Diego, USA
RNA in Extracellular Vesicles as Biomarkers

Anastasia Khvorova, University of Massachusetts Medical School, USA
Exosome Mediate Delivery of Therapeutic Oligonucleotides in Neurons and Brains

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, JUNE 22

Extracellular Vesicles in Cancer

Janusz Rak, McGill University, Canada
Keynote Address: Microvesicles in Brain Cancer

David C. Lyden, Weill Cornell Medical College, USA
Role of Exosomes in Crafting the Pre-Metastatic Niche

Ennio A. Chioocca, Brigham and Women's Hospital, USA
Role of Microvesicles in Glioblastoma

Napoleone Ferrara, University of California, San Diego, USA
miRNA Transfer Promotes Angiogenesis

Short Talk(s) Chosen from Abstracts

Extracellular Vesicles in Other Aspects of Biology and Disease

Clotilde Théry, Institut Curie, France
Extracellular Vesicles in Immune Response

Kaushik Choudhuri, University of Michigan Medical School, USA
Microvesicle Release in T Cell Communication

Andrew Hill, La Trobe University, Australia
Role of Extracellular Vesicles in Neurodegeneration

Meeting Wrap-Up: Outcomes and Future Directions

Richard A. Cerione, Cornell University, USA

Xandra O. Breakefield, Massachusetts General Hospital, USA

THURSDAY, JUNE 23

Departure