

## Next-Gen Flow Cytometry & EV Instrumentation 2024 December 2-3, 2024 – Oregon City, OR

### Monday, December 2, 2024 – Conference Day 1

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08:00 Conference Registration, Materials Pick-Up, Coffee, Tea, Pastries and Networking

09:00 Welcome and Introduction by Conference Co-Chairperson  
Terry Morgan, Professor, Oregon Health & Science University (OHSU)

09:10 Technological Landscape of Single-EV Analysis  
Daniel Chiu, A. Bruce Montgomery Professor Chemistry, Endowed Professor of Analytical Chemistry, and Professor of Bioengineering at the University of Washington – Conference Co-Chairperson

09:45 Extracellular Vesicles and Particles in Disease or as Cures: A Brief Example of Fibrosis  
Michael Graner, Professor, University of Colorado Anschutz Medical Campus

10:20 Morning Coffee Break and Networking

11:00 SEVEN O’Clock: Time for a New Method to Characterize Individual Extracellular Particles  
Tijana Jovanovic-Talisman, Associate Professor, Beckman Research Institute, City of Hope

11:30 Characterization of Extracellular Vesicles and Other Biological Nanoparticles using Nanoparticle Tracking Analysis (NTA)  
Sven Kreutel, CEO, Particle Metrix, Inc.



12:00 A Digital Microfluidic Platform for Rapid and Automated EV Extraction and Detection  
Yuguang Liu, Assistant Professor, Mayo Clinic

12:30 Leveraging Multiparametric Bulk and Single EV Methods for Biomarker Discovery in Obesity-Associated Pediatric Neuroimmune Diseases  
Setty M. Magaña, Assistant Professor of Neurology & Pediatrics, Nationwide Children's Hospital

13:00 Networking Lunch Break

14:20 NextGen High Yield NanoFACS  
Terry Morgan, Professor of Pathology, Obstetrics & Gynecology, and Biomedical Engineering, OHSU – Conference Co-Chairperson

15:00 Extracellular Vesicles as Key Mediators of Bidirectional Maternal-Placental Crosstalk  
Mancy Tong, Assistant Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, Yale School of Medicine

15:30 Mid-Afternoon Coffee Break

16:00 Hands-On EV Instrumentation Demo Session—Particle  
Metrix



17:00 Networking Reception with Beer and Wine

18:00 Close of Day 1 of the Event

## Tuesday, December 3, 2024 – Conference Day 2

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08:00 Coffee, Tea, Pastries and Networking

09:00 Pancreatic Cancer Detection using Proteins, Cell-Free DNA, and Protease Activity Biomarkers Associated with Extracellular Vesicle Nanoparticles Collected Using Dielectrophoresis

Stuart Ibsen, Associate Professor, The Knight Cancer Institute's Cancer Early Detection Advanced Research Center (CEDAR), Oregon Health and Science University

09:30 Hands-On EV Instrumentation Demo Session -- BD Biosciences



10:30 Mid-Morning Coffee Break and Networking

11:00 MicroRNAs as Biomarkers for and Mediators of Alzheimer's Disease

Julie Saugstad, Professor, Dept of Anesthesiology & Perioperative Medicine Research Division, OHSU

11:30 Round-Table Discussion: Trends in EV Research and Unmet Needs in Instruments and Reagents

Chaired by Professors Terry Morgan and Daniel Chiu

12:00 Networking Lunch Break

13:00 Demo Session—Cytex Biosciences



14:00 Digestive Fluid Extracellular Vesicles of Milk-Fed Infants are Absorbed by Neonatal Intestinal Epithelial Cells

Sarah Andres, Assistant Professor, School of Medicine, Dept of Pediatrics, OHSU

14:30 Mid-Afternoon Coffee Break