

<b>Session I</b>	<b>7:00PM-9:05PM, Thursday September 29 2022</b>
<p><i>Chair: Michael Graner; 7:00-7:05PM</i> University of Colorado</p>	
<p>Nihal Altan-Bonnet; <b>7:05-7:35PM</b> NIH/NHLBI <b><i>A new infectious unit: extracellular vesicles carrying virus populations</i></b></p>	
<p>Stephen Gould; <b>7:35-8:05PM</b> Johns Hopkins University <b><i>Mechanism-informed exosome engineering</i></b></p>	
<p>Louise Laurent; <b>8:05-8:305PM</b> UCSD <b><i>Development of an exRNA-based pregnancy clock</i></b></p>	
<p>Raghu Kalluri; <b>8:35-9:05PM</b> MD Anderson Cancer Center <b><i>Basic and applied biology and function of extracellular vesicles</i></b></p>	
<p><b>Opening Reception</b> <b>Sponsored by Codiak</b></p>	<b>9:05PM-11:00PM, Thursday September 29 2022</b>

Session II	8:30AM-11:00PM, Friday September 30 2022
Chair: Alissa Weaver Vanderbilt University	
Wei Guo; <b>8:30-8:50AM</b> U. Pennsylvania, Philadelphia, PA, USA <b><i>Extracellular Vesicles in Immune Suppression and Tumor Progression</i></b>	
Kendall Jensen; <b>8:50-9:10AM</b> TGen; Phoenix, AZ, USA <b><i>Brain-enriched extracellular RNAs in plasma, urine and CSF</i></b>	
Saumya Das; <b>9:10-9:30AM</b> Harvard/MGH; Boston, MA, USA <b><i>Investigating a functional role for EVs in modulating disease signaling pathways in organ-on-chip models</i></b>	
Susanne Gabrielsson; <b>9:30-9:50AM</b> Karolinska Institute, Stockholm, Sweden <b><i>Dendritic cell derived extracellular vesicles for cancer immunotherapy</i></b>	
<b>COFFEE BREAK – 9:50-10:20AM</b> <b>Sponsored by Beckman</b>	
Yongjie Yang; <b>10:20-10:40 AM</b> Tufts University; Boston, MA, USA <b><i>Cell-type Specific Exosome Signaling in Neurodegenerative Diseases</i></b>	
Kianna Buttiens; <b>10:40-11:00AM</b> KU Leuven, Leuven, Belgium <b><i>Ultrasensitive in vivo BLI tool for non-invasive detection of tumor cells receiving genetic information via EVs.</i></b>	
<p><b>Short talks (6); 5 min presentation, 5 min discussion</b></p> <ol style="list-style-type: none"> <li><b>1. A universal platform for rapid production of exosome-based vaccines and therapeutics; Chenxu Guo</b>, Johns Hopkins University, Baltimore, USA</li> <li><b>2. Development and preclinical testing of a novel extracellular vesicle-based vaccine platform; Xin Luo</b>, MD Anderson Cancer Center, Houston, USA</li> <li><b>3. The immunomodulatory role of Urinary Bladder Cancer (UBC) EVs and their use as novel and early biomarkers; Loïc Steiner</b>, Karolinska Institute, Stockholm, Sweden</li> <li><b>4. Proteomic Profiling of neuronal and microglial derived extracellular vesicles reveals differential profiles of Alzheimer’s disease; Charisse Winston</b>, UCSD, San Diego, USA</li> <li><b>5. Oncolytic exosomes for cancer immunotherapy; Seong Kim</b>, KIST, Seoul, Korea</li> <li><b>6. Systematic Humanization of Yeast Extracellular Vesicles; Joseph Trani</b>, Concordia U., Montreal, Canada</li> </ol>	<b>11:00AM-12:00PM</b>

<b>Session III</b>	<b>2:00PM-4:00PM, Friday September 30 2022</b>
<i>Chair: Frederik Verweij Utrecht University</i>	
<p>Alissa Weaver; <b>2:00-2:20PM</b>  Vanderbilt University, Nashville, TN, USA  <b><i>Biogenesis of RNA-containing extracellular vesicles at ER membrane contact sites</i></b></p>	
<p>Michelle Pleet; <b>2:20-2:40PM</b>  NIH/NINDS, Bethesda, MD, USA  <b><i>Analysis of Viral Immune Signatures in Chronic Neurological Diseases from Extracellular Vesicles in Cerebrospinal Fluid</i></b></p>	
<p>Chulhee Choi; <b>2:40-3:00PM</b>  Ilias Biologics, Daejeon, Korea  <b><i>Exosome-based delivery of protein therapeutics: from the placenta to the brain</i></b></p>	
<p>Olivier de Jong; <b>3:00-3:20PM</b>  Utrecht University, Utrecht, The Netherlands  <b><i>Extracellular-vesicle mediated delivery of CRISPR/Cas9 by aptamer-based loading and inducible cargo release strategies</i></b></p>	
<p>Ashok Shetty; <b>3:20-3:40PM</b>  Texas A&amp;M University, College Station, USA  <b><i>Intranasal hMSC-EV Treatment after TBI Inhibits NLRP3-p38/MAPK Signaling and Prevents Chronic Brain Dysfunction</i></b></p>	
<p>John Nolan; <b>3:40-4:00PM</b>  Scintillon Institute, San Diego, CA, USA  <b><i>Quantitative analysis of molecular cargo transfer from tumor cells to EVs</i></b></p>	
<b>Poster session A</b>	<b>4:00PM-6:00PM, Friday September 30 2022</b>

<b>Session IV</b>	<b>7:00PM-9:00PM, Friday September 30 2022</b>
<i>Chair: Nihal Altan-Bonnet</i> NIH/NHLBI	
Michael Graner; <b>7:00-7:20PM</b> University of Colorado, Denver, USA <b><i>Extracellular Vesicles from Rare Cancers -- Can They Tell Us Anything?</i></b>	
Serena Lucotti; <b>7:20-7:40PM</b> Weill Cornell Medical College, New York, USA <b><i>Extracellular vesicles from the lung pro-thrombotic niche drive cancer-associated thromboembolism via integrin beta 2</i></b>	
Dolores Di Vizio; <b>7:40-8:00PM</b> Cedars Sinai Medical Center, Los Angeles, CA, USA <b><i>Functional heterogeneity of cancer-derived extracellular vesicles</i></b>	
Huiping Liu; <b>8:00-8:20PM</b> Northwestern University, Chicago, USA <b><i>Cancer stemness regulation and anti-viral functions of exosomes</i></b>	
Jack Bui; <b>8:20-8:40PM</b> UCSD, Sand Diego, USA <b><i>MEK1 within extracellular vesicles inhibits tumor growth by promoting anti-tumor immunity</i></b>	
Samir El Andaloussi; <b>8:40-9:00PM</b> Karolinska Institute <b><i>Advanced engineering of extracellular vesicles for targeted delivery of biotherapeutics</i></b>	
<b>Poster session A with evening refreshments</b> <b>Sponsored by IZON</b>	<b>9:00PM-11:00PM, Friday September 30 2022</b>

<b>Session V</b>	<b>8:30AM-11:00PM, Saturday October 1 2022</b>
Chair: Raghu Kalluri MD Anderson Cancer Center	
Dirk Dittmer; <b>8:30-8:50AM</b> UNC Chapel Hill, Raleigh, USA <b><i>Imaging individual Extracellular Vesicles and their protein components by superresolution microscopy</i></b>	
Michiel Pegtel; <b>8:50-9:10AM</b> VU Amsterdam, Amsterdam, The Netherlands <b><i>CD63-nanoluc sensors reveal novel EV biogenesis mediators and drug targets</i></b>	
In-San Kim; <b>9:10-9:30AM</b> Korean Institute of Science and Technology (KIST), Seoul, Korea <b><i>Molecule transplanted on membrane and intracellular delivery of biomolecules by fusogenic EVs for cancer immunotherapy</i></b>	
Ke Cheng; <b>9:30-9:50AM</b> NC State University, Raleigh, USA <b><i>Engineering extracellular vesicles to combat lung diseases and COVID-19</i></b>	
<b>BREAK 9:50-10:20AM</b> <b>Sponsored by Chip Diagnostics</b>	
Gagan Deep; <b>10:20-10:40AM</b> Wake Forest University, Raleigh, USA <b><i>A novel liquid biopsy-based approach to isolate and characterize adipose tissue-derived extracellular vesicles from blood</i></b>	
Qiana Matthews; <b>10:40-11:00AM</b> Alabama State University, Birmingham, USA <b><i>Impact of Coronavirus Infection on Biogenesis and Trafficking of the Cell Derived-Extracellular Vesicles</i></b>	
<b>Short talks (6); 5 min presentation, 5 min discussion</b> 1. <i>Single-molecule assay for the characterization of extracellular vesicles from patient biofluid</i> ; <b>Andras Saftics</b> , COH, LA, USA 2. <i>Circulating ACE2-expressing extracellular vesicles block broad strains of SARS-CoV-2</i> ; <b>Lamia El-Shannawy</b> , Northwestern University, Chicago, USA 3. <i>Understanding the Role of J-Domain Protein Chaperones in EVs</i> ; <b>Janice Braun</b> , U. Calgary, Calgary, Canada 4. <i>Advantage of extracellular vesicles in hindering the CD47 signal for cancer immunotherapy</i> ; <b>Yeji Lee</b> , KIST, Seoul, Korea 5. <i>Exosome biogenesis in the absence of CD9, CD63, &amp; CD81</i> ; <b>Yiwei Ai</b> , Johns Hopkins University, Baltimore, USA 6. <i>Morphological diversity of extracellular vesicles revealed by cryo-electron microscopy</i> ; <b>Kshipra Kapoor</b> , MD Anderson Cancer Center, Houston, USA	<b>11:00AM-12:00PM</b>

<b>Session VI</b>	<b>7:00PM-9:00PM, Saturday October 1 2022</b>
<p>Chair: Louise Laurent UCSD</p>	
<p>Emily Wang; <b>7:00-7:20PM</b> UCSD, San Diego, USA <b><i>Cancer-cell-secreted extracellular vesicles impair systemic glucose homeostasis by suppressing insulin secretion</i></b></p>	
<p>Natacha Carnel; <b>7:20-7:40PM</b> MGH/Harvard, Boston, USA <b><i>Identification of tissue specific Extracellular Vesicles in a transgenic mice model</i></b></p>	
<p>Rubina Baglio; <b>7:40-8:00PM</b> VU, Amsterdam, The Netherlands <b><i>Blood cell-derived extracellular vesicles induce a pro-inflammatory phenotype in tubular epithelial cells of proliferative Lupus Nephritis patients</i></b></p>	
<p>Kathleen McAndrews; <b>8:00-8:20PM</b> MD Anderson Cancer Center, Houston, USA <b><i>Early transfer of cancer cell derived CD9+ extracellular vesicles in pancreatic cancers</i></b></p>	
<p>Yukiya Sako; <b>8:20-8:40PM</b> UCSD <b><i>Identification of a Novel Small Molecule that Enhances the Release of Extracellular Vesicles with Immunostimulatory Potency via Intracellular Calcium Induction</i></b></p>	
<p>Sven Kreutel; <b>8:40-9:00PM</b> Particle Metrix <b><i>Current advances in nanoparticle tracking analysis</i></b></p>	
<p><b>Poster session B with evening refreshments</b> <b>Sponsored by Particle Metrix</b></p>	<b>9:00PM-11:00PM, Saturday October 1 2022</b>

<b>Session VII</b>	<b>8:30AM-11:00PM, Sunday October 2 2022</b>
<i>Chair: Susanne Gabrielsson</i> Karolinska Institute	
Lane Christenson; <b>8:30-8:50AM</b> University of Kansas <b><i>Mapping tissue EV release and uptake using multiple Cre promoters in mice</i></b>	
Yong Woo Cho; <b>9:10AM-9:30AM</b> Hangyang University <b><i>Taking exosome therapeutics from bench to bedside</i></b>	
Jared Lynch; <b>9:30-9:50AM</b> IZON <b><i>Paving the Way to Automation and Standardization for Scalable Isolation of EVs</i></b>	
<b>BREAK 9:50-10:20</b> <b>Sponsored by Brexogen</b>	
Sushrut Kamekar; 10:20-10:40AM Codiak, Boston, USA <b><i>Exosome-mediated delivery of antisense oligonucleotides reprograms tumor-associated macrophages and induces anti-tumor responses</i></b>	
Frederik Verweij; <b>10:40-11:00AM</b> Utrecht University, Utrecht, Netherlands <b><i>Exploiting CD63-Based Reporter Systems to Image EV Release in Vitro and in Vivo</i></b>	
<b>Trainee short talks (6) 5 min presentation, 5 min discussion</b> <b>1. Identification of global EV reference mRNA transcripts for EV-associated mRNA expression analysis; Antje Zickler,</b> Karolinska Institute, Stockholm, Sweden <b>2. Development of single exosome membrane protein quantification assay using TIRF microscopy; Jiyoung Goo,</b> KIST, Seoul, Korea <b>3. B cell targeting of extracellular vesicles by a novel fusion protein; Loes Teeuwen,</b> Karolinska Institute, Stockholm, Sweden <b>4. Contribution of Cigarette Smoke to the Pathogenicity of Neutrophil Derived Extracellular Vesicles; Yixel Soto-Vasquez,</b> University of Alabama, Birmingham, USA	<b>11:00AM-12:00PM</b>
<b>Session VIII</b>	<b>2:00PM-4:00PM, Sunday October 2 2022</b>
<i>Chair: Michiel Pegtel</i> VU Medical Center	

<p>Prashanth Vallabhajosyula; <b>2:00-2:20PM</b>  Yale University, New Haven, USA  <b><i>Circulating Tissue Specific Extracellular Microvesicles for Noninvasive Monitoring of Transplant Organ Rejection</i></b></p>
<p>Muller Fabbri; <b>2:00-2:40PM</b>  Children's National Research Institute; Washington DC, USA  <b><i>MicroRNAs in Extracellular Vesicles orchestrate the biology of the Tumor Microenvironment</i></b></p>
<p>Bong Hwang Sung; <b>2:40-3:00PM</b>  Vanderbilt University, Nashville, USA  <b><i>Spatiotemporal imaging tools for studying the role of exosomes in migrating cancer cells</i></b></p>
<p>Ge Jin; <b>3:00-3:20PM</b>  Case Western Reserve University  <b><i>HIV-associated extracellular vesicles: from cancer to co-infection in people with HIV</i></b></p>
<p>Janos Zempleni; <b>3:20-3:40PM</b>  University of Nebraska-Lincoln, USA  <b><i>Bovine mammary alveolar MAC-T cells afford a tool for designing milk exosomes for drug delivery</i></b></p>
<p>Charisse Winston; <b>3:40-4:00PM</b>  University of Montreal, Montreal, Canada  <b><i>Towards consensus harmonization of brain-secreted extracellular vesicle (BEV) protocols for blood biomarker work in age-related dementias: An international overview</i></b></p>



<b>Session IX</b>	<b>7:00PM-8:00PM, Sunday October 2 2022</b>
<i>Chair: Samir El Andaloussi</i> Karolinska Institute	
<p style="text-align: center;">Norman Haughey; <b>7:00-7:20PM</b> Johns Hopkins University</p> <p style="text-align: center;"><b><i>Clearance of amyloid-beta into peripheral circulation evokes an innate immune response and leukocyte transmigration into brain that is regulated by circulating EVs</i></b></p>	
<p style="text-align: center;">Robert Raffaj; <b>7:20-7:40PM</b> UCSF/VA</p> <p style="text-align: center;"><b><i>Macrophage Exosomes in Cardiometabolic Diseases</i></b></p>	
<p style="text-align: center;">Dong-Gyu Jo; <b>7:40-8:00PM</b> Sungkyunkwan University, Seoul, Korea</p> <p style="text-align: center;"><b><i>Cellular reprogramming with extracellular vesicles derived from differentiating stem cells</i></b></p>	
<b>AAEV/AEMV business meeting</b>	<b>8:10PM-9:00PM, Sunday October 2 2022</b>
<b>Bonfire &amp; Refreshments</b>	<b>9:00PM-11:00PM, Sunday October 2 2022</b>

<b>Session X</b>	<b>8:30AM-11:00PM, Monday October 3 2022</b>
Chair: Emily Wang UCSD	
Shinichi Kano; <b>8:30-8:50AM</b> University of Alabama, Birmingham, USA <b><i>Blood EVs and associated molecules in brain function and behavior</i></b>	
Bing Sun; <b>8:50-9:10AM</b> UCSF/VA, San Francisco, USA <b><i>Biomarker Discovery for Cognitive Decline via Neuronal Extracellular Vesicles using Multiplexed Assays</i></b>	
Takahisa Nakamura; <b>9:10-9:30AM</b> Cincinnati Children's Hospital, Cincinnati, USA <b><i>Role of hepatocyte-derived extracellular vesicles in the regulation of immunometabolism</i></b>	
Shi-He Liu; <b>9:30-9:50AM</b> University of Toledo, Toledo, USA <b><i>Smart exosome-enhanced tumor targeting drug delivery for efficient PDAC therapies</i></b>	
<b>COFFEE BREAK 9:50-10:20AM</b> <b>Sponsored by</b>	
Jeffrey Savas; <b>10:20-10:40PM</b> Northwestern University, Chicago, USA <b><i>Exosomes mediate local neuronal communication through Notch activation</i></b>	
Xiaohua Huang; <b>10:40-11:00AM</b> University of Memphis, Memphis, USA <b><i>Dual Imaging Single Vesicle Technology for Exosome Characterizations and Cancer Detection</i></b>	
<b>Short talks (6); 5 min presentation, 5 min discussion</b> 1. Immunocapturing Cardiac Enriched Extracellular Vesicles (CEEVs); <b>Michail Spanos</b> , MGH/Harvard, Boston, USA 2. <i>Machine Learning Identifies Exosome Protein Signatures to Distinguish Multiple Human Cancers</i> ; <b>Bingrui Li</b> , MD Anderson Cancer Center, Houston, USA 3. <i>Cardiac Inflammation &amp; Heart Failure Control with IL-4 Polarized Human Macrophage Exosomes</i> ; <b>Alex Gao</b> , UCSF/VA, San Francisco, USA 4. <i>Construction of tumor-targeted fusogenic extracellular vesicles for cytosolic delivery of drugs</i> ; <b>Yuan Wan</b> , Binghamton University, Binghamton, USA 5. <i>Delineation of CD9 engineering on Exosomes for PDAC-Specific Targeting</i> ; <b>Jonathan Sevier</b> , U. of Toledo, USA 6. <i>Novel smoke-derived EV mediated in vivo model of emphysema</i> ; <b>Sari Ezgi</b> , University of Alabama, Birmingham, USA	<b>11:00AM-12:00PM</b>

Session XI	1:00PM-3:00PM, Monday October 3 2022
<p><i>Chair: Stephen Gould</i> Johns Hopkins University</p>	
<p style="text-align: center;">Kristopher Genschmer; <b>1:00-1:20PM</b> University of Alabama, Birmingham <b>Neutrophil derived extracellular vesicles in a mouse emphysema model</b></p>	
<p style="text-align: center;">Ionita Ghiran; <b>1:20-1:40PM</b> Harvard/Beth Israel Deaconess Medical Center <b>Diurnal changes in circulating small RNAs</b></p>	
<p style="text-align: center;">Ramkumar Menon; <b>1:40-2:00PM</b> University of Texas, Galveston <b>Mechanistic Roles and Therapeutic Applications for Extracellular Vesicles in Preterm Parturition</b></p>	
<p style="text-align: center;">Je-Hyun Yoon; <b>2:00-2:20PM</b> Medical University of South Carolina <b>Mature microRNA-binding proteins and extracellular release</b></p>	
<p style="text-align: center;">Masako Harada; <b>2:20-2:40PM</b> Michigan State University, East Lansing, USA <b>Exploring Conditions for Developing Engineered Extracellular Vesicles as Targeted Delivery Vehicles</b></p>	
<p style="text-align: center;">Maneesh Bhomia; <b>2:40-3:00PM</b> Uniformed Services University of the Health Sciences, Bethesda, USA <b>Exosomal biomarkers of traumatic brain injury and sports concussion</b></p>	