

# Program—Thursday October 12<sup>th</sup>

11:00am – 12:30pm	<b>Registration / Lunch</b>
12:30pm – 12:45pm	<b>Opening Remarks (Dr. Fatah Kashanchi)</b>
<b>NIH Workshop/Pre-Program</b> Moderator: <b>Drs. Shilpa Buch and Mariola Ferraro</b>	
12:45pm – 12:55pm	<b>NIH/NCATS – Program Officer – Dr. Passley Hargrove–Grimes</b> <i>Convergence of tissue chips and extracellular-vesicle based technologies to accelerate precision medicine</i>
12:55pm – 1:05pm	<b>NIH/NIGMS – Program Officer – Dr. Christina Liu</b> <i>Technology Development Programs and Funding Opportunities at the National Institute of General Medical Sciences (NIGMS)</i>
1:05pm – 1:15pm	<b>NIH/NHLBI – Program Officer – Dr. Martha Lundberg</b> <i>Extracellular Vesicles for Heart, Lung, Blood, and Sleep Diseases: A Workshop</i>
1:15pm – 1:25pm	<b>NIH/NCI – Program Officer – Dr. Anu Puri</b> <i>Training Opportunities at the National Cancer Institute, NIH: Funding Updates on Cancer Nanomedicine (Extracellular Vesicles)</i>
1:25pm – 1:35pm	<b>NIH/NCI – Program Officer – Dr. Aniruddha Ganguly</b> <i>National Cancer Institute: Major Programs and Training Activities</i>
1:35pm – 1:45pm	<b>Q&amp;A</b>
1:45pm – 2:00pm	<b>Speaker – Dr. Shilpa Buch</b> – University of Nebraska Medical Center <i>HIV-Tat mediated Microglial Ferroptosis: Implications for EV-based crosstalk in NeuroHIV</i>
2:00pm – 2:15pm	<b>Speaker – Dr. Navneet Dogra</b> – Icahn School of Medicine at Mount Sinai <i>Extracellular RNA (exrna) analysis of extracellular vesicles and particles from various human biofluids, disease types, isolation methods.</i>
2:15pm – 2:30pm	<b>Speaker – Dr. Suvendra Bhattacharyya</b> – University of Nebraska Medical Center <i>Development of an In Vitro Assay to Follow miRNA Targeting to Endosomes for Extracellular Export</i>
2:30pm – 2:45pm	<b>Speaker – Dr. Girish Neelakanta</b> – University of Tennessee – Knoxville <i>Rickettsial pathogen modulates intercellular communication in ticks</i>
2:45pm – 3:00pm	<b>Q&amp;A Discussion</b>
3:00pm – 3:20pm	<b>Break</b>
3:20pm – 3:35pm	<b>Speaker – Dr. Mariola Ferraro</b> – University of Florida <i>Salmonella-Infected Macrophage-Derived sEVs: Novel Immune Regulators in Intracellular Bacterial Infection</i>
3:35pm – 3:50pm	<b>Speaker – Dr. Chioma Okeoma</b> – New York Medical College <i>Possible roles of Extracellular Condensates in HIV Persistence</i>
3:50pm – 4:05pm	<b>Speaker – Dr. Theresa L. Whiteside</b> – UPMC <i>Small EVs in plasma of cancer patients induce intrinsic apoptosis in activated T cells</i>
4:05pm – 4:20pm	<b>Speaker – Dr. Ryan Flynn</b> – Harvard University <i>glycoRNA biology on the cell surface</i>
4:20pm – 4:30pm	<b>Sponsor Company – Dr. Kevin Dolan – Particle Metrix</b>
4:30pm – 4:40pm	<b>Sponsor Company – Dr. Varun Sheel - ONI</b>
4:40pm – 5:00pm	<b>Q&amp;A Discussion</b>
5:00pm – 6:30pm	<b>Dinner</b>

# Program—Thursday October 12<sup>th</sup>

<b>Thursday Evening Session</b> <b>Biology of Intercellular Communication</b> Moderator: <b>Drs. Aurelio Lorico and Theresa L. Whiteside</b>	
6:30pm – 6:45pm	<b>Opening Comments: Dr. Aurelio Lorico – ASIC Meeting Committee Chair</b>
6:45pm – 7:15pm	<b>Keynote Speaker – Dr. Susmita Sahoo</b> – Icahn School of Medicine at Mount Sinai <i>Extracellular Vesicles in Cardiovascular Nanomedicine</i>
7:15pm – 7:30pm	<b>Speaker – Dr. Denis Corbeil</b> – Technische Universität Dresden <i>Novel membrane-enclosed structures involved in intercellular communication</i>
7:30pm – 7:45pm	<b>Speaker – Dr. Louise Laurent</b> – University of California – San Diego <i>Mapping the heterogeneity of extracellular vesicles and their cargo</i>
7:45pm – 8:00pm	<b>Speaker – Dr. Jeffrey Franklin</b> – Vanderbilt School of Medicine <i>Probing EV and supermere heterogeneity using large scale production and complementary purification methods</i>
8:00pm – 8:15pm	<b>Q&amp;A Discussion</b>
8:15pm – 10:00pm	<b>Poster Session (1-15)</b>

# Program—Friday October 13<sup>th</sup>

<b>Friday Morning Session</b> <b>Session title: Bacteria and EVs</b> Moderator: <b>Drs. Meta Kuehn and Ramin Hakami</b>	
7:30am – 8:15am	<b>Breakfast</b>
8:15am – 8:30am	<b>Speaker – Dr. Meta Kuehn</b> – Duke University <i>Selectivity of Bacterial Extracellular Vesicle Lipid Cargo</i>
8:30am – 8:45am	<b>Speaker – Dr. Gagan Deep</b> – Wake Forest School of Medicine <i>Role of gut-dysbiotic bacterial extracellular vesicles in Alzheimer's disease</i>
8:45am – 9:00am	<b>Speaker – Dr. Marcela Rodriguez</b> – Rutgers University School of Medicine <i>Mycobacterial extracellular vesicles, biogenesis, and potential in pathogen-host communication.</i>
9:00am – 9:15am	<b>Speaker – Dr. Ramin Hakami</b> – George Mason University <i>Molecular Mechanisms of EV-mediated Innate Immune Response to Pathogenic Gram-negative Bacteria</i>
9:15am – 9:35am	<b>Q&amp;A Discussion</b>
9:35am – 9:50am	<b>Break</b>
9:50am – 10:05am	<b>Speaker – Dr. Daniel Chiu</b> – University of Washington <i>Digital flow cytometry for the high-throughput multiplexed analysis of single extracellular vesicles and particles</i>
10:05am – 10:20am	<b>Speaker – Dr. Amanda Brown</b> – Johns Hopkins University <i>Characterization of extracellular vesicles released from human monocyte-derived microglia-like cells using label-free quantitative proteomic analyses</i>
10:20am – 10:30am	<b>Speaker – Dr. Kevin Weyant</b> – Versatope Therapeutics <i>Potent and Versatile Vaccines Based on Bacterial Outer Membrane Vesicle</i>
10:30am – 10:40am	<b>Sponsor Company – Dr. Gerardo Mauleon</b> – iZon
10:40am – 10:55am	<b>Q&amp;A Discussion</b>
10:55am – 11:15am	<b>Break</b>
<b>Friday Morning Session #2</b> <b>Session Title: EVs and CNS</b> Moderator: <b>Drs. Ashley Russell and Navneet Dogra</b>	
11:15am – 11:30am	<b>Speaker – Dr. Partha Chandra</b> – Tulane University School of Medicine <i>Plasma extracellular vesicle proteins show evidence of neuronal dysfunction in SHIV-infected and antiretroviral drug treated rhesus macaque</i>
11:30am – 11:45am	<b>Speaker – Dr. Juliet Santiago</b> – Emory University <i>Identification of state-specific proteomic and transcriptomic signatures of microglia-derived extracellular vesicles</i>
11:45am – 12:00pm	<b>Speaker – Dr. Ursula Sandau</b> – Oregon Health & Science University <i>Establishing a relationship between cerebrospinal fluid extracellular vesicle miRNAs and Alzheimer's disease pathogenesis</i>
12:00pm – 12:15pm	<b>Speaker – Dr. Norman Haughey</b> – Johns Hopkins University <i>Targeting 2 Neutral Sphingomyelinase 2 Promotes Death of HIV-infected Cells</i>
12:15pm – 12:30pm	<b>Speaker – Dr. Susmita Sil</b> – University of Nebraska Medical Center <i>HIF-1<math>\alpha</math> as a therapeutic target in HIV-associated neurocognitive disorders</i>
12:30pm – 12:50pm	<b>Q&amp;A Discussion</b>
12:50pm – 3:00pm	<b>Lunch/Afternoon Break/ NIH Grant Writing and EVs (2:00pm – 3:00pm)</b>

## Program—Friday October 13<sup>th</sup>

<b>Friday Afternoon Session</b> <b>Session Title: EVs and Cancer</b> Moderator: <b>Drs. Jonathan Geiger and Lucia Languino</b>	
3:15pm – 3:30pm	<b>Speaker – Dr. Lucia Languino</b> – Thomas Jefferson University <i>The AlphaV-Beta3/NgR2 complex is a key regulator of pro-tumorigenic cargo loading of small extracellular vesicles</i>
3:30pm – 3:45pm	<b>Speaker – Dr. Lance Liotta</b> – George Mason University <i>Tumor Interstitial fluid EVs export mitophagy (PINK1), tumor suppressor proteins (p53), and immune markers (PD-L1): Applications for therapeutic monitoring</i>
3:45pm – 4:00pm	<b>Speaker – Dr. Susanne Gabrielsson</b> – Karolinska Institute <i>Investigating the role of PD-1 and PD-L1 on extracellular vesicles for immune therapy</i>
4:00pm – 4:15pm	<b>Speaker – Dr. My Mahoney</b> – Thomas Jefferson University <i>The cadherin and cancer biomarker Dsg2 plays a central role in intercellular communications in HNSCCs in response to immune checkpoint inhibitor therapy</i>
4:15pm – 4:30pm	<b>Speaker – Dr. Muller Fabbri</b> – Children’s National Hospital <i>Role of Natural Killer-derived extracellular vesicles in the immunotherapy of neuroblastoma</i>
4:30pm – 4:50pm	<b>Q&amp;A Discussion</b>
4:50pm – 5:05pm	<b>Break</b>
<b>Friday Afternoon Session #2</b> <b>Session Title: EVs and Therapeutics</b> Moderator: <b>Drs. Mark Santos and Chioma Okeoma</b>	
5:05pm – 5:35pm	<b>Keynote Speaker – Thomas Tuschl</b> – Rockefeller University <i>Sequencing-based plasma extracellular RNA profiling in pregnancy</i>
5:35pm – 5:50pm	<b>Speaker – Dr. Jonathan Geiger</b> – University of North Dakota <i>Weak base drugs induce lysosome stress responses</i>
5:50pm – 6:05pm	<b>Speaker – Dr. Piul Rabbani</b> – New York University <i>Topical treatment with exosome-encapsulated hydrogel delivers wound closure efficacy in diabetic Topical treatment with exosome-encapsulated hydrogel delivers wound closure efficacy in diabetic wound model</i>
6:05pm – 6:20pm	<b>Speaker – Dr. Dirk Dittmer</b> – University of North Carolina – Chapel Hill <i>On the structure of Extracellular Vesicles (EVs)</i>
6:20pm – 6:40pm	<b>Q&amp;A Discussion</b>
6:40pm – 8:00pm	<b>Group Picture Outside + Dinner</b>
<b>Friday Evening Poster/Vendor Session</b>	
8:00pm – 10:00pm	<b>Poster Session (15-30)</b>

## Program—Saturday October 14<sup>th</sup>

<b>Saturday Morning Session</b> <b>Session Title : EVs and Infectious Disease</b> Moderator: <b>Drs. Uta Erdbrueger and Mike Graner</b>	
7:00am – 8:15am	<b>Breakfast</b>
8:15am – 8:30am	<b>Speaker – Dr. Andrew Mouland</b> – McGill University <i>Virus-mediated assembly of biomolecular condensates: links to function in virus assembly, ingress and innate sensing</i>
8:30am – 8:45am	<b>Speaker – Dr. Pooja Jain</b> – Drexel University <i>Long distance control of immunity by the retroviral bZip protein via exosomes</i>
8:45am – 9:00am	<b>Speaker – Dr. Xuesong Chen</b> – University of North Dakota School of Medicine and Health Sciences <i>SLC38A9 regulates SARS-CoV-2 viral entry</i>
9:00am – 9:20am	<b>Q&amp;A Discussion</b>
9:20am – 9:35am	<b>Speaker – Dr. Rakesh Singh</b> – Touro University Nevada <i>Chasing SARS-CoV-2: A Longitudinal Study</i>
9:35am – 9:50am	<b>Speaker – Dr. Navneet Dhillon</b> – University of Kansas Medical Center <i>COVID-19 associated Cardiopulmonary Dysfunction: The Role of Plasma-derived Small Extracellular Vesicles</i>
9:50am – 10:05am	<b>Q&amp;A Discussion</b>
10:05am – 10:20am	<b>Break</b>
<b>Saturday Morning Session #2</b> <b>Title Session : EVs and Non-cancer Diseases</b> Moderator: <b>Drs. Xuesong Chen and Navneet Dhillon</b>	
10:20am – 10:35am	<b>Speaker – Dr. Gerardo Kaplan</b> – FDA <i>Hepatitis A virus infection (HAV) by exosome mimicry: a retrofusion mechanism?</i>
10:35am – 10:50am	<b>Speaker – Dr. Hameeda Sultana</b> – University of Tennessee <i>Novel tick exosomal cement protein as a potential vaccine candidate to block vector-borne diseases</i>
10:50am – 11:05am	<b>Speaker – Dr. Sabita Roy</b> – University of Miami Health System <i>Immune Modulation Mediated by Extracellular Vesicles of Intestinal Organoids is Disrupted by Opioids</i>
11:05am – 11:20am	<b>Q&amp;A Discussion</b>
11:20am – 11:35am	<b>Speaker – Dr. Priyanka Gokulnath</b> – Harvard University <i>Extracellular vesicle microRNA cargo in heart failure patients drives ventricular arrhythmia by recapitulating developmental genes</i>
11:35am – 11:50am	<b>Speaker – Dr. Uta Erdbrueger</b> – University of Virginia <i>Daily variability and temporal patterns of urinary extracellular vesicles in healthy subjects</i>
11:50am – 12:05pm	<b>Speaker – Dr. Leonid Margolis</b> – NIH/NICHD <i>Extracellular Vesicles: More Information Than Knowledge</i>
12:05pm – 12:20pm	<b>Q&amp;A Discussion</b>
12:20pm – 12:45pm	<b>Prizes for top 3 talks and top 3 posters + Closing Remarks from some members</b>
<b>Closing Remarks</b>	
12:45pm – 2:00pm	<b>Lunch</b>