Draft

Program—Thursday October 17th

11:00am – 12:30pm	Registration / Lunch	
12:30pm – 12:45pm	Opening Remarks – Dr. Fatah Kashanchi	
NIH Workshop/Pre-Program Moderators: Drs. Shilpa Buch and Theresa Whiteside		
12:45pm – 12:55pm	NIH/NCATS – Program Officer – Dr. Christine Happel NIH funding in the exRNA space	
12:55pm – 1:05pm	NIH/NIBIB – Program Officer – Dr. Nichole Darringer Funding Landscape and Opportunities at NIBIB	
1:05pm – 1:15pm	NIH/NCI – Program Officer – Dr. Konstantin Salnikow NCI Mission and Funding Research	
1:15pm – 1:25pm	Q&A Discussion/NIH PO	
Session Title: Reviews of EV field Moderators: Dr. Michael Graner and Elena Batrakova		
1:25pm – 1:40pm	Speaker – Drs . Shilpa Buch, Julie Saugstad Review of EV/CNS Field	
1:40pm – 1:55pm	Speaker – Drs. <u>Lucia Languino</u> , Janusz Rak Review of EV/Cancer Field	
1:55pm – 2:10pm	Speaker – Drs. Olivier Loudig, <u>Daniel Chiu</u> , and Ursula Sandau Review of EV/Diagnostics Field	
2:10pm – 2:25pm	Break – Coffee Break	
2:25pm – 2:40pm	Speaker – Drs. <u>Fatah Kashanchi</u> , Leonid Margolis, Ramin Hakami Review of EV/Infectious Disease Field	
2:40pm – 2:55pm	Speaker – Drs. <u>Elena Batakova</u> , Heather Branscome Review of EV/Therapeutics Field	
2:55pm – 3:10pm	Q&A Discussion	
Session Title: Junior Faculty Talks		
	Moderators: Drs. My Mahoney and Louise Laurent	
3:10pm – 3:25pm	Speaker – Dr. Suvendra Bhattacharyya – University of Nebraska Medical Center miRNA export from mammalian cells: Importance of a Syntaxin Protein	
3:25pm – 3:40pm	Speaker – Dr. Lillian Skeiky - Uniformed Services University of the Health Sciences Assessing the Relationship Between Proinflammatory Cytokines and Sleep Physiology Following Total Sleep Deprivation in Plasma and Extracellular Vesicles	
3:40pm – 3:55pm	Speaker – Dr. Yohei Nose - Icahn School of Medicine, Mt. Sinai Comparative Analysis Reveals No Significant Difference Between Extracellular Vesicular Particles Proteo- Transcriptome from Fresh or Frozen Tissues	
3:55pm – 4:05pm	Speaker – Dr. Monique Anderson – Harvard University Mutations in VPS37A are associated with changes in extracellular vesicle export	
4:05pm – 4:20pm	Speaker – Dr. Mỹ Mahoney – Thomas Jefferson University Extracellular vesicles derived from intravenous immunoglobulin replacement therapy serving as decoys to suppress immune response	
4:20pm – 4:30pm	Sponsor – Dr. Kevin Dolan – Particle Metrix	
4:30pm – 4:45pm	Q&A Discussion	
5:00pm – 6:30pm	Dinner	

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Program—Thursday October 17th

Thursday Evening Session Session Title: EV and Biogenesis Moderators: Drs. Aurelio Lorico and Sabita Roy		
6:30pm – 7:00pm	Keynote Speaker – Dr. Alissa Weaver - Vanderbilt School of Medicine Biogenesis and characterization of RNA-containing extracellular vesicles	
7:00pm – 7:15pm	Speaker – Dr. Kevin Morris - Queensland University of Technology RNA-Exosome Therapeutics to Treat Viral Infections	
7:15pm – 7:30pm	Speaker – Dr. Louise Laurent - University of California - San Diego Characterization of placental exRNA carrier heterogeneity using multi-modal molecular profiling and single-vesicle analysis	
7:30pm – 7:45pm	Speaker – Dr. Robert Fullem - Baylor College of Medicine ExRNA Atlas v3 map of extracellular RNA in human biofluids sheds light on the exRNA "dark matter" beyond previously annotated genomic regions	
7:45pm – 8:00pm	Speaker – Dr. Aurelio Lorico - Touro University Nevada <i>Transport of the POMC pro-hormone by blood plasma extracellular vesicles</i>	
8:00pm – 8:10pm	Sponsor – Dr. Giacomo Vacca – Kinetic River Paving the Way Toward a Urine-Based Assay for Early Diagnosis of Kidney Disease	
8:10pm – 8:30pm	Q&A Discussion	

Program—Friday October 18th

Friday Morning Session Session title: EVs and Infection		
Moderator: Drs. Ramin Hakami and Gerardo Kaplan		
7:00am – 8:15am	Breakfast	
8:15am – 8:30am	Speaker – Dr. Robert Molestina - ATCC Role of Babesia Secreted Extracellular Vesicles in the Modulation of the Immune Response	
8:30am – 8:45am	Speaker – Dr. Sabita Roy - University of Miami Health System Bacterial Extracellular vesicles in opioid associated co-morbidities	
8:45am – 9:00am	Speaker – Dr. Ramin Hakami – George Mason University Characterization of sEV-associated RNA Species that Activate Innate Immune Response during Infection with Cytoplasmic RNA Viruses	
9:00am – 9:15am	Speaker – Dr. Pallavi Singh – Yale University Parasite-Derived Vesicles in Pathogenesis and Immunity	
9:15am – 9:30am	Q&A Discussion	
9:30am – 9:45am	Break	
9:45am – 10:00am	Speaker – Dr. Md Habibur Rahman– Johns Hopkins School of Medicine Neuroinflammation drives fentanyl addiction and relapse by a mechanism that involves the release of extracellular vesicles with modified miRNA cargo from astrocytes	
10:00am – 10:15am	Speaker – Dr. Gerardo Kaplan - FDA Production dynamics of infectious exosome and viral particle during in vivo and in vitro hepatitis A virus (HAV) infection	
10:15am – 10:30am	Speaker – Dr. Xuesong Chen - University of North Dakota Role of Endolysosomes in SARS-CoV-2 Spike-Induced Cellular Senescence in Astrocytes	
10:30am – 10:40am	Sponsor – Dr. Lew Brown - Spectradyne	
10:40am – 10:55am	Q&A Discussion	
10:55am – 11:15am	Break – Coffee Break	
Friday Morning Session Session Title: EVs and CNS #1 Moderator: Drs. Ashley Russell and Catherine DeMarino		
11:15am – 11:30am	Speaker – Dr. Prasun Datta – Tulane University School of Medicine Dysregulation of mitochondrial function in neurons by Extracellular Vesicles from HIV-1 infected macrophages.	
11:30am – 11:45am	Speaker – Dr. Partha Chandra - Tulane University School of Medicine Circulating plasma extracellular vesicles indicate dysregulation of synaptic signaling in SHIV-infected rhesus macaques	
11:45am – 12:00pm	Speaker – Dr. Catherine DeMarino – NIH/NINDS HIV-1 RNA in extracellular vesicles is associated with neurocognitive outcomes	
12:00pm – 12:15pm	Speaker – Dr. Seema Singh - University of Nebraska Medical Center Regulation of HIV Tat-mediated release of ferroptosis cargoes in microglia-derived extracellular vesicles involves microglial ferritinophagy	
12:15pm – 12:30pm	Q&A Discussion	
12:30pm – 2:00pm	Lunch/Afternoon Break	
1:00pm – 2:00pm	NIH Grant Writing – with Dr. Fatah Kashanchi	

Program—Friday October 18th

Friday Afternoon Session			
Session Title: EVs and CNS #2 Moderator: Drs. Piul Rabbani and Suvendra Bhattacharyya			
2:00pm – 2:15pm	Speaker – Sarah C. Baker - Oregon Health & Science University		
	The effect of Niemann Pick Disease Type C on extracellular vesicle concentration and cargo		
2:15pm – 2:30pm	Speaker – Dr. Ursula Sandau - Oregon Health & Science University Cerebrospinal fluid extracellular vesicle miRNAs identify synaptic alterations in human Alzheimer's disease brain		
2:30pm – 2:45pm	Speaker – Dr. Ashley Russell - Penn State Erie, The Behrend College Myelin associated protein expression and extracellular vesicle composition are altered by endoplasmic reticulum stress in oligodendrocytes		
2:45pm – 3:00pm	Speaker – Dr. Candice Brown - West Virginia University Experimental ischemic stroke in mice with an endothelial cell deletion of tissue-nonspecific alkaline phosphatase generates circulating extracellular vesicles that impair brain endothelial cell function		
3:00pm – 3:15pm	Q&A Discussion		
3:15pm – 3:30pm	Break - Coffee Break		
	Friday Afternoon Session		
	Session Title: EVs and Cancer Moderator: Drs. Lucia Languino and Mark Santos		
3:30pm – 4:00pm	Keynote Speaker – Dr. Wei Guo - University of Pennsylvania Extracellular Vesicles in Immune Suppression and Tumor Progression		
4:00pm – 4:15pm	Speaker – Dr. Lance Liotta - George Mason University Mitophagy-associated EVs mediate cancer cell survival by exporting damaged mitochondria components bound to tumor suppressor proteins, offering new mechanistic strategies for cancer prevention and therapy		
4:15pm – 4:30pm	Speaker – Dr. Nykia Walker - University of Maryland Baltimore County Tumor-Derived Extracellular Vesicles Systemically Reprogram Naive Mammary Stroma for Breast Cancer Metastasis Through Let-7 miR Suppression		
4:30pm – 4:45pm	Speaker – Camila Bach – Thomas Jefferson University A Novel Sialylation Pathway Mediated by Extracellular Vesicles in Aggressive Prostate Cancer		
4:45pm – 5:00pm	Speaker – Dr. Theresa Whiteside - University of Pittsburgh Melanoma-derived exosomes induce intrinsic apoptosis of activated T cells by early transcriptional activation of cellular stress response genes		
5:00pm – 5:15pm	Q&A Discussion		
5:30pm	Group Picture (Outside?)		
5:35pm – 7:00pm	Dinner		
Friday Evening Poster/Vendor Session			
7:00pm –8:30pm	Poster Session – Cash Bar		

Program—Saturday October 19th

Saturday Morning Session Session Title: EVs and Technology Moderator: Drs. Heather Branscome and Daniel Chiu		
7:00am – 8:15am	Breakfast	
8:15am – 8:30am	Speaker – Daniel Chiu High-resolution analysis of single extracellular vesicles and particles with digital flow cytometry and super-resolution imaging	
8:30am – 8:45am	Speaker – Dr. Piul Rabbani Topically delivered exosomes modulate innate immune components for diabetic wound closure	
8:45am – 9:00am	Sponsor – Dr. Matt Kremer - Univercells Technologies Scale-X Bioreactors for Adherent Cell Culture Applications	
9:00am – 9:15am	Q&A Discussion	
9:15am – 9:45am	NIH Roundtable (PO, SBIR/STTR) Dr. Stephanie Fertig – NIH/OD Dr. Danny Gossett - NIH/NIDDK Dr. Ian Nova – NIH/NHGRI Dr. Xibin Wang - NIH/NIAMS Dr. Taryn Aubrecht - NIH/NIDA Dr. Stephanie Davis - NIH/NHLBI	
9:45am – 10:00am	Q&A Discussion	
10:00am – 10:15am	Break - Coffee Break	
Saturday Morning Session Title Session : Moderator: Drs. Julie Saugstad and Nicole Noren Hooten		
10:15am – 10:30am	Speaker – Dr. Javari Munir - University of Nebraska - Lincoln Immortalized Mammary Alveolar Cells (MAC-T) as a tool for designing organ-specific targeting exosomes via genetics and click-chemistry approach	
10:30am – 10:45am	Speaker – Dr. Olivier Loudig - Hackensack University Medical Center Developing tools and animal models for non-invasive detection of exhaled lung tumor extracellular vesicle biomarkers	
10:45am – 11:00am	Speaker – Dr. Jennifer Jones/ Michelle Pleet – NIH/NINDS Systematic Analysis of EV Subset Changes with Radiation Therapy	
11:00am – 11:15am	Speaker – Dr. Duaa Dakhlallah - West Virginia University Targeting the Epigenetic Modifications in Vascular Endothelial Cells During Sepsis Via Circulating Extracellular Vesicle	
11:15am – 11:30am	Speaker – Dr. Nicole Noren Hooten – NIH/NIA Exploring extracellular vesicle mitochondrial DNA levels with chronic kidney disease and mitochondrial haplogroup in obese individuals	
11:30am – 11:40am	Sponsor – Dr. Jason Lowery - Beckman	
11:40am – 11:55am	Q&A Discussion	
12:00pm – 12:15pm	Awards for best 3 talks and best 3 posters	
12:15pm – 12:30pm	Closing Remarks + New Officer Announcements	
Closing Remarks		
12:30pm – 2:00pm	Lunch	