



# ASEMV2020 Schedule

Start	End	Speaker	Affiliation	Talk Title
<b>Monday, November 16</b>				
<i>All times U.S. Eastern</i>				
12:00	– 12:05	Steve Gould & Louise Laurent		Introduction
<b>Session 1 Grants Workshop I: Talks from funding agencies</b>				
<i>Session chair: Fatah Kashanchi</i>				
12:05	– 12:10			
12:10	– 12:15	<i>NIH program officers Matthew Young, John Satterlee, and Christine Happel will discuss their views and EV-related RFAs from their respective institutes. The goal is to enhance and bring to the forefront the NIH's funding opportunities related to EV research.</i>		
12:15	– 12:20			
12:20	– 12:25			
12:25	– 12:30			
12:30	– 12:35			
12:35	– 12:40			
12:40	– 12:45			
12:45	– 12:50			
12:50	– 1:10	Break		
<b>Session 2 EV Cargo Loading</b>				
<i>Session chairs: Juan Pablo Tosar, Andrew Leidal</i>				
1:10	– 1:15			
1:15	– 1:20	2.1 Alissa Weaver	Vanderbilt University	Argonauts in extracellular vesicles: Artifact or selected cargo?
1:20	– 1:25			
1:25	– 1:30			
1:30	– 1:35			
1:35	– 1:40	2.2 Leonid Margolis	Section on Intercellular Interactions, NICHD	Cytokines in extracellular vesicles: an alternative system of cell-cell communication
1:40	– 1:45			
1:45	– 1:50			
1:50	– 1:55	2.3 Pieter Vader	University Medical Center Utrecht	A CRISPR-Cas9-based reporter system for single-cell detection of extracellular vesicle-mediated functional transfer of RNA.
1:55	– 2:00			
2:00	– 2:20	Break		
2:20	– 2:25			
2:25	– 2:30	2.4 Laura Ferraiuolo	University of Sheffield	Micro-RNAs secreted through astrocyte-derived extracellular vesicles cause neuronal network degeneration in C9orf72 ALS
2:30	– 2:35			
2:35	– 2:40			
2:40	– 2:45	2.5 Crislyn D'Souza-Schorey	Notre Dame	An ARF6-Exportin-5 axis delivers pre-miRNA cargo to tumour microvesicles
2:45	– 2:50			
2:50	– 2:55			
2:55	– 3:00	2.6 Qin Zhang	Vanderbilt University	Transfer of functional cargo in exomeres
3:00	– 3:05			
3:05	– 3:15	Break		
3:15	– 3:20			
3:20	– 3:25	Discussion		
3:25	– 3:30			
3:30	– 3:35			
3:35	– 3:55	Break		
<b>Session 3 Analytical Techniques 1</b>				
<i>Session chairs: Kendall Van Keuren-Jensen, Tijana Talisman</i>				
3:55	– 4:00	3.1 Lisa Meyer	Exosome Diagnostics	Simple workflow for isolation and Western blot detection of MISEV-recommended EV protein-markers
4:00	– 4:05			
4:05	– 4:10	3.2 Ryan P. McNamara	UNC Chapel Hill	Super-resolution microscopy-based resolving of membrane-associated proteins on extracellular vesicles
4:10	– 4:15			
4:15	– 4:20	3.3 Frederik J. Verweij	INSERM Institute for Psychiatry and Neuroscience of Paris	Tracking exosomes <i>in vitro</i> and <i>in vivo</i>
4:20	– 4:25			
4:25	– 4:30			
4:30	– 4:35	Discussion		
4:35	– 4:40			
4:40	– 4:45			



# ASEMV2020 Schedule

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<b>Tuesday, November 17</b>				

All times U.S. Eastern

## Session 4 EV Function

Session chairs: Michael Graner, Leonid Margolis

12:00 – 12:05				
12:05 – 12:10	4.1	Jay Debnath	UC San Francisco	The LC3-conjugation machinery specifies the loading of RNA-binding proteins into extracellular vesicles
12:10 – 12:15				
12:15 – 12:20				
12:20 – 12:25	4.2	Sarah F. Andres	Oregon Health and Science University	IMP1 modulates extracellular vesicle production in the GI tract through regulation of endosome and autophagy pathways
12:25 – 12:30				
12:30 – 12:35				
12:35 – 12:40	4.3	Inge S. Zuhorn	University of Groningen	Endocytosis of extracellular vesicles and release of their cargo from endosomes
12:40 – 12:45				
12:45 – 12:50				
12:50 – 1:10		Break		
1:10 – 1:15				
1:15 – 1:20	4.4	Nicole Noren Hooten	National Institute on Aging	EVs in diabetes mellitus carry inflammatory cargo that affects cellular behavior
1:20 – 1:25				
1:25 – 1:30				
1:30 – 1:35	4.5	Y Peng Loh	Section on Cellular Neurobiology, NICHD	Exosomal carboxypeptidase E confers and CPE-shRNA loaded exosomes inhibit tumorigenesis
1:35 – 1:40				
1:40 – 1:50		Break		
1:50 – 1:55				
1:55 – 2:00		Discussion		
2:00 – 2:05				
2:05 – 2:10				
2:10 – 2:30		Break		

## Session 5 Bacterial EVs

Session chairs: Meta Kuehn, G. Marcela Rodriguez

2:30 – 2:35				
2:35 – 2:40	5.1	G. Marcela Rodriguez	Rutgers University - New Jersey Medical School	New insights into mycobacterial extracellular vesicle production
2:40 – 2:45				
2:45 – 2:50				
2:50 – 2:55	5.2	Tatsuo Kurihara	Kyoto University	Isolation of a novel bacterial strain capable of producing abundant EVs carrying a single major cargo protein and analysis of its transport mechanism
2:55 – 3:00				
3:00 – 3:05				
3:05 – 3:10	5.3	Jean C. Lee	Brigham and Women's Hospital and Harvard Medical School	Orchestration of human macrophage NLRP3 inflammasome activation by <i>Staphylococcus aureus</i> EVs
3:10 – 3:15				
3:15 – 3:20				
3:20 – 3:40		Break		
3:40 – 3:45				
3:45 – 3:50	5.4	Allison Z. Werner	National Renewable Energy Laboratory, Golden, CO	Exoproteomics reveals outer membrane vesicles contribute to aromatic catabolism by <i>P. putida</i> KT2440
3:50 – 3:55				
3:55 – 4:00				
4:00 – 4:05	5.5	Simon R. Carding	Quadram Institute; University of East Anglia	The uptake, trafficking, and biodistribution of <i>Bacteroides thetaiotaomicron</i> generated outer membrane vesicles
4:05 – 4:10				
4:10 – 4:15				
4:15 – 4:20	5.6	Hannah M. McMillan	Duke University	Bacterial vesicles: Vehicles for inter-kingdom communication and modulators of plant immune response
4:20 – 4:25				
4:25 – 4:30				
4:30 – 4:35	5.7	Blanca V. Rodriguez	Duke University	<i>Staphylococcus aureus</i> secretes immunomodulatory RNA via extracellular membrane vesicles
4:35 – 4:40				
4:40 – 4:50		Break		
4:50 – 4:55				
4:55 – 5:00		Discussion		
5:00 – 5:05				
5:05 – 5:10				

## 6:00 – 7:00 Poster Session



# ASEMV2020 Schedule

Start	End	Speaker	Affiliation	Talk Title
<b>Wednesday, November 18</b>				
<i>All times U.S. Eastern</i>				
<b>Session 6 Pathology</b> <i>Session chair: Janusz Rak, Michael Graner</i>				
12:00 – 12:05				
12:05 – 12:10	6.1	Aleks Milosavljevic	Baylor College of Medicine	Glioma-derived miRNA-containing EVs induce angiogenesis by reprogramming brain endothelial cells
12:10 – 12:15				
12:15 – 12:20				
12:20 – 12:25	6.2	Romano Regazzi	University of Lausanne	Lymphocyte-derived exosomal microRNAs promote pancreatic $\beta$ cell death and may contribute to Type 1 diabetes development
12:25 – 12:30				
12:30 – 12:35				
12:35 – 12:40	6.3	Dennis A. Steindler	University of Florida, Gainesville	Infectious exosomes/microvesicles in degenerative and neoplastic stem cell pathologies
12:40 – 12:45				
12:45 – 12:50				
12:50 – 1:10	<b>Break</b>			
1:10 – 1:15				
1:15 – 1:20	6.4	Moran Amit	M.D. Anderson Cancer Center	Loss of p53 drives neuron reprogramming in head and neck cancer
1:20 – 1:25				
1:25 – 1:30				
1:30 – 1:35	6.5	Tsuneya Ikezu	Boston University	Cell type-specific and disease-associated protein networks in extracellular vesicles isolated from human iPSC-derived neural cells and Alzheimer's disease brain tissues
1:35 – 1:40				
1:40 – 1:45				
1:45 – 1:50	6.6	Faisal Alibhai	University Health Network, Toronto	Cellular senescence contributes to age-dependent changes in circulating extracellular vesicle cargo and function
1:50 – 1:55				
1:55 – 2:00				
2:00 – 2:05	6.7	Steven Stice	University of Georgia	Neural stem cell EVs disrupt midline shift predictive outcomes in porcine ischemic stroke model
2:05 – 2:10				
2:10 – 2:15				
2:15 – 2:25	<b>Break</b>			
2:25 – 2:30				
2:30 – 2:35	<b>Discussion</b>			
2:35 – 2:40				
2:40 – 2:45				
2:45 – 3:05	<b>Break</b>			
<b>Session 7 Viruses</b> <i>Session chairs: Nihal Altan-Bonnet, Steve Gould</i>				
3:05 – 3:10				
3:10 – 3:15	7.2	James Erickson	George Mason University Laboratory of Molecular Virology	Separation of EVs from virions in Coronavirus infections
3:15 – 3:20				
3:20 – 3:25				
3:25 – 3:30	7.1	Martin Olivier	McGill University	Exploitation of the Leishmania exosomal pathway by Leishmania RNA virus 1
3:30 – 3:35				
3:35 – 3:40				
3:40 – 3:45	7.3	Hameeda Sultana	Old Dominion University	Exosomes mediate Zika virus transmission through SMPD3 neutral sphingomyelinase in cortical neurons
3:45 – 3:50				
3:50 – 3:55				
3:55 – 4:15	<b>Break</b>			
4:15 – 4:20	7.4	Heather Branscome	George Mason University Laboratory of Molecular Virology	Use of stem cell EVs as a holistic approach towards CNS repair
4:20 – 4:25				
4:25 – 4:30				
4:30 – 4:35	7.5	Daniel O. Pinto	Walter Reed Army Institute of Research	EVs from HTLV-1 infected cells regulate viral spread and pathogenesis
4:35 – 4:40				
4:40 – 4:45				
4:45 – 4:55	<b>Break</b>			
4:55 – 5:00				
5:00 – 5:05	<b>Discussion</b>			
5:05 – 5:10				
5:10 – 5:15				
<b>6:00 – 7:00 Working Group Meetings: Resource Sharing, Diet and Nutrition</b>				



# ASEMV2020 Schedule

Start	End	Speaker	Affiliation	Talk Title
<b>Thursday, November 19</b>				
<i>All times U.S. Eastern</i>				
<b>Session 8 Therapeutics</b> <i>Session chair: Saumya Das</i>				
12:00 – 12:05				
12:05 – 12:10	8.1	Robert Blelloch	UC San Francisco	Exosome suppression of the anti-tumor immune response
12:10 – 12:15				
12:15 – 12:20				
12:20 – 12:25				
12:25 – 12:30	8.6	Lance A. Liotta	George Mason University	Reversing tumor induced immune suppression: Role of the secretory autophagy pathway
12:30 – 12:35				
12:35 – 12:40				
12:40 – 12:45	8.3	Ryan Reshke	University of Ottawa	Reduction of the therapeutic dose of silencing RNA by packaging it in EVs via a pre-microRNA backbone
12:45 – 12:50				
12:50 – 1:10	Break			
1:10 – 1:15				
1:15 – 1:20	8.4	Ikuhiko Nakase	Osaka Prefecture University	Intracellular delivery methods using biofunctional peptide-modified EVs
1:20 – 1:25				
1:25 – 1:30				
1:30 – 1:35	8.5	James Patton	Vanderbilt University	Induction of retina regeneration by intravitreal delivery of EVs
1:35 – 1:40				
1:40 – 1:50	Break			
1:50 – 1:55				
1:55 – 2:00	Discussion			
2:00 – 2:05				
2:05 – 2:10				
2:10 – 2:30	Break			
<b>Session 9 Biomarkers</b> <i>Session chairs: Julie Saugstad, Louise Laurent</i>				
2:30 – 2:35				
2:35 – 2:40	9.1	David Lyden	Weill Cornell Medicine	Extracellular vesicle and particle biomarkers define multiple human cancers
2:40 – 2:45				
2:45 – 2:50				
2:50 – 2:55				
2:55 – 3:00	9.2	Dilorom Sass	National Institute of Nursing Research, NICHD	The role of EVs in cancer-related fatigue
3:00 – 3:05				
3:05 – 3:10				
3:10 – 3:15	9.3	Janusz Rak	McGill University	Leukobiopsy - a possible new liquid biopsy platform for detecting oncogenic mutations
3:15 – 3:20				
3:20 – 3:40	Break			
3:40 – 3:45				
3:45 – 3:50	9.4	Ursula S. Sandau	Oregon Health & Science University	Methamphetamine use alters human plasma EVs and their miRNA cargo
3:50 – 3:55				
3:55 – 4:00				
4:00 – 4:05	9.5	Andy Hill	LaTrobe University	EV-based biomarkers in neurodegenerative diseases
4:05 – 4:10				
4:10 – 4:20	Break			
4:20 – 4:25				
4:25 – 4:30	Discussion			
4:30 – 4:35				
4:35 – 4:40				
4:40 – 4:50	Break			
<b>Session 10 Grants Workshop II: NIH Proposals and EV Grants</b> <i>Session chair: Fatah Kashanchi</i>				
4:50 – 4:55	This workshop will cover topics such as grant writing for success, peer review, and compliance. After covering the logistics of NIH funding mechanisms (i.e., R01, R21), we will focus on fine-tuning the Specific Aims page for a grant proposal on the most up-to date research topics related to EVs, like EVs in cancer and infectious disease, including coronavirus EV research.			
4:55 – 5:00				
5:00 – 5:05				
5:05 – 5:10				
5:10 – 5:15				
5:15 – 5:20				
5:20 – 5:25				
5:25 – 5:30				
5:30 – 5:35				
5:35 – 5:40				
<b>5:40 – 6:00</b>	<b>Awards Ceremony</b>			