

PROGRAM KEY					
General Program Sessions					
Plenary Sessions					
Featured Abstract Sessions					
Sponsor Presentations					
Education Day Sessions					
Scientific Panels					
Current Event Breakouts					
ISEV2020 VIRTUAL PROGRAM					
Monday, July 20					
Time (EDT)	Session Name	Presentation Title	Speaker/Moderator	Affiliation	City/Country
11:00- 11:27	Welcoming Remarks	Welcoming Remarks			
11:27- 11:30	Plenary Session: EV Biogenesis	Introduction	Alissa Weaver	Vanderbilt University	Tennessee, USA
11:30- 11:55		The Mystery of EV Biogenesis – Past, Present, and Future	Phyllis Hanson	University of Michigan	Michigan, USA
11:55- 12:05		Q&A	Lucia Languino	Department of Cancer Biology, Thomas Jefferson University	Pennsylvania, USA
12:05- 12:08	Plenary Session: EVs in Neurological Diseases	Introduction	Andy Hill	La Trobe University	Melbourne, Australia
12:08- 12:33		Plenary Session: EVs in Neurological Diseases	Hollis Cline	Scripps Research	California, USA
12:33- 12:43		Q&A	Roosmarjin Vandenbroucke	Ghent University	Ghent, Belgium
12:43- 12:55	Featured Abstract Session 1	Featured Abstract: Ral GTPases promote metastasis by controlling biogenesis and organotropism of extracellular vesicles ²	Shima Ghoroghi	Université de Strasbourg	Strasbourg, France
12:55- 13:00		Q&A	Roosmarjin Vandenroucke	Ghent University	Ghent, Belgium
13:00- 13:12	Featured Abstract Session 2	Featured Abstract: Towards reference intervals of extracellular vesicles in human plasma by flow cytometry ²	Bo Li	Southern Medical University	Guangzhou, China
13:12- 13:17		Q&A	Roosmarjin Vandenroucke	Ghent University	Ghent, Belgium
13:17- 13:22	15 minute Platinum Sponsor Presentations	Transition into Sponsor Presentations			
13:22- 13:37		Nanoview	George Daaboul	Nanoview	Massachusetts, USA
13:22- 13:37		NanoFCM	Ben Peacock	NanoFCM	Nottingham, England
13:22- 13:37		Particle Metrix- Latest improvements on fluorescent Nanoparticle Tracking Analysis (f-NTA)	Clemens Helmbrecht	Particle Metrix GmbH	Bavaria, Germany
13:37-14:00	BREAK				
14:00- 14:03	Education Day: Session 1: Intro and EV Position Papers	Introduction	Edit Buzas	Semmelweis University	Budapest, Hungary
14:03-14:13		ISEV guidelines on EV studies (MISEV2018) and standardization initiatives	Clotilde Thery	Institut Curie	Paris, France
14:13- 14:23		Flow Cytometry (technique)	John Nolan	Scintillon Institue	California, USA
14:23- 14:33		Urinary Extracellular Vesicles-perspectives and challenges for biomedical research and clinical utilization	Elena Martens-Uzunova/Alicia Llorente	Erasmus MC; Oslo University Hospital	Rotterdam, Netherlands; Oslo, Norway
14:33- 14:48		Q&A	Ken Witwer	The Johns Hopkins University	Maryland, USA
14:48-14:51	Education Day: Session 2: EV Methods and Techniques	Introduction	Alain Brisson	University of Bordeaux	Bordeaux, France
14:51-15:01		Molecular and Functional Heterogeneity of Cancer-derived Extracellular Vesicles	Dolores DiVizio	Cedars-Sinai Medical Center	California, USA
15:01- 15:11		EV separation methods: variable recovery and specificity requires transparency	An Hendrix	Ghent University	Ghent, Belgium
15:11- 15:21		EV Labeling for Flow Cytometry: Methods & Cautions	Xiaomei Yan	Xiamen University	Xiamen, China
15:21- 15:31		EV imaging TEM	Guillaume Van Niel	Institute of Psychiatry and Neurosciences of Paris	Paris, France
15:31- 15:46		Q&A	Alain Brisson	University of Bordeaux	Bordeaux, France
15:46-15:51	Transition into Panels				
15:51- 15:56	Panel 1- EV Heterogeneity	Introduction	Clotilde Thery	Institut Curie	Paris, France
15:56-16:06		Heterogeneity of EV intracellular fate	Aurelio Lorico	Touro University Nevada College of Medicine	Nevada, USA
16:06- 16:16		Clonal cells secrete heterogenous Evs	Suresh Mathivanan	La Trobe University	Melbourne, Australia
16:16- 16:26		Presentation	Jan Lotvall	University of Gothenburg, Sweden	Gothenburg, Sweden
16:26- 16:36		EV Fingerprinting: Resolving extracellular vesicle heterogeneity using multi-parametric flow cytometry	Andries Zijlstra	Vanderbilt University	Tennessee, USA
16:36-17:06		Q&A	Clotilde Thery	Institut Curie	Paris, France
15:51- 15:56	Panel 2- EVs in Liquid Biopsy (Diagnostics/Biomarkers)²	Introduction	Paul Robbins	University of Minnesota	Minnesota, USA
15:56-16:06		Blood based assays for glioma diagnosis and monitoring	Leonora Balaj	Harvard University	Cambridge, USA
16:06- 16:16		Regulatory points in EV-based liquid biopsy – translational implications	Janusz Rak	McGill University	Quebec, Canada
16:16- 16:26		EV-based diagnostics for cardiac conditions	Susmita Sahoo	Cardiology Cardiovascular Research Center Icahn School of Medicine at Mount Sinai	New York, USA
16:26- 16:36		Diverse non-coding RNAs in diverse extracellular RNA carriers: implications for biomarker research	Esther Nolte-'t Hoen	Universiteit Utrecht	Utrecht, Netherlands

16:36-17:06		Q&A	Paul Robbins	University of Minnesota	Minnesota, USA
Tuesday, July 21					
15:00- 15:03	Plenary Session: EV in Cardiovascular Diseases	Introduction	Dolores DiVizio	Cedars-Sinai Medical Center	California, USA
15:03- 15:28		Deconstructing Regenerative Medicine: From Cells to Exosomes and Defined Factors	Eduardo Marban	Cedars-Sinai Heart Institute	California, USA
15:28- 15:38		Q&A	Susmita Sahoo	Cardiology Cardiovascular Research Center Icahn School of Medicine at Mount Sinai	New York, USA
15:38- 15:50	Featured Abstract Session 3	Featured Abstract: Nuclear proteins are recruited into tumor-derived extracellular vesicles upon expression of tetraspanin Tspan8	Elena Grueso Navarro	University of Freiburg	Breisgau, Germany
15:50- 15:55		Q&A	Susmita Sahoo	Cardiology Cardiovascular Research Center Icahn School of Medicine at Mount Sinai	New York, USA
15:55- 16:55	General Assembly	General Assembly			
16:55- 17:00	10 minute Gold Sponsor Presentations	Transition into Sponsored Presentations			
17:00-17:10		Beckman Coulter			
17:00-17:10		Luminex- Amnis® ImageStream®X Mk II and Amnis® CellStream® for Small Particle Detection	Haley Pugsley	Luminex	Washington, USA
17:00-17:10		Malvern Panalytical- Size and concentration of nanoparticles	Arianna Biesso	Malvern Panalytical	Maryland, USA
17:00-17:10		Myriade- Videodrop : Characterize and Count Nanoparticles in a Single Drop and in Real Time	Philippe Garabedian	Myriade	Paris, France
17:00-17:10		Streck			
17:00-17:10		Lonza			
17:10- 17:30	BREAK				
17:30- 17:33	Education Day: Session 3: Single High Throughput EV analysis	Introduction	Suresh Mathivanan	La Trobe University	Melbourne, Australia
17:33- 17:43		Size and concentration determination of extracellular vesicles with flow cytometry, nanoparticle tracking analysis, and resistive pulse sensing	Edwin van der Pol	Amsterdam University Medical Centers	Amsterdam, Netherlands
17:43- 17:53		Flow Cytometry as a Tool for EV Characterization: Potential or Pitfall?	Joanne Lannigan	University of Virginia	Virginia, USA
17:53- 18:03		Capture Technology	Maria Vales Gomez	Centro Nacional de Biotecnología	Madrid, Spain
18:03- 18:13		Multiplexed In-situ Protein and RNA Analysis of Single Extracellular	Eduardo Reategui	Ohio State University	Columbus, USA
18:13- 18:28		Q&A	Suresh Mathivanan	La Trobe University	Melbourne, Australia
18:28- 18:31	Education Day: Session 4: EV content analysis (-omic technologies)	Introduction	Louise Laurent	UC San Diego	California, USA
18:31- 18:41		Lipidomics	Johan Swinnen	KU Leuven	Leuven, Belgium
18:41- 18:51		Proteomics and Bioinformatic analysis of EV protein content	Suresh Mathivanan	La Trobe University	Melbourne, Australia
18:51- 19:01		EV nucleic acid content	Kendall Van Keuren-Jensen	City of Hope	California, USA
19:01- 19:11		Bioinformatic analysis of EV RNA data	Joel Rozowsky	Yale University	Connecticut, USA
19:11- 19:26		Q&A	Louise Laurent	UC San Diego	California, USA
Wednesday, July 22					
11:00- 11:03	Plenary Session: New Technologies I	Introduction	Marca Wauben	Utrecht University	Utrecht, NL
11:03- 11:28		Contributions of Cryo-Electron Microscopy to the EV field	Alain Brisson	University of Bordeaux	Bordeaux, France
11:28- 11:38		Q&A	Marca Wauben	Utrecht University	Utrecht, Netherlands
11:38- 11:41	Plenary Session: New Technologies II	Introduction	Ken Witwer	The Johns Hopkins University	Maryland, USA
11:41- 12:06		Microfluidics for the Isolation of Extracellular Vesicles	Shannon Stott	Massachusetts General Hospital	Massachusetts, USA
12:06- 12:16		Q&A	Ken Witwer	The Johns Hopkins University	Maryland, USA
12:16- 12:28	Featured Abstract Session 4	Featured Abstract: Genetically encoded probes provide insight into extracellular vesicle cargo release in cells	Bhagyashree Joshi	University Medical Center Groningen	Groningen, Netherlands
12:28- 12:33		Q&A	Ken Witwer	The Johns Hopkins University	Maryland, USA
12:33- 12:38	15 minute Platinum Sponsor Presentations	Transition into Sponsor Presentations			
12:38- 12:53		FUJI	Sadamu Ozaki	FUJIFILM	Japan
12:38- 12:53		Rooster Bio- Scale-up in Clinical Translation of Evs	Jon Rowley	RoosterBio	Maryland, USA
12:53-13:15	BREAK				
13:15- 13:18	Education Day: Session 5: EV biology	Introduction	Clotilde Thery	Institut Curie	Paris, France
13:18- 13:28		EV complexity and heterogeneity	Edit Buzas	Semmelweis University	Budapest, Hungary
13:28- 13:38		EV biogenesis and release	Pascale Zimmerman	KU Leuven	Leuven, Belgium
13:38- 13:48		EV uptake and fusion	Dave Carter	Oxford Brookes University	Oxford, United Kingdom
13:48-13:58		EV inter-cellular or -organism communication	Marca Wauben	Utrecht University	Utrecht, Netherlands
13:58- 14:13		Q&A	Clotilde Thery	Institut Curie	Paris, France
14:13- 14:16		Introduction	Benedetta Bussolati	University of Turin	Turin, Italy
14:16- 14:26		EV in vitro models	Irina Nazarenko	Medical Center University of Freiburg	Breisgau, Germany

14:26- 14:36	Education Day: Session 6: EV function in disease and clinical application	Leveraging the exosome-mapping mouse for understanding the functional role of EV signaling	Saumya Das	Harvard University	Massachusetts, USA
14:36- 14:46		EVs in bacterial and non-mammalian diseases	Maria Kaparakis-Liaskos	La Trobe University	Melbourne, Australia
14:46- 14:56		EVs in regeneration	Susmita Sahoo	Cardiology Cardiovascular Research Center Icahn School of Medicine at Mount Sinai	New York, USA
14:56- 15:11		Q&A	Benedetta Bussolati	University of Turin	Turin, Italy
15:11- 15:16		Transition into Panels			
15:16- 15:21	Panel 3- Extracellular RNA	Introduction	Ken Witwer	The Johns Hopkins University	Maryland, USA
15:21- 15:31		Extracellular Vesicles, exRNA and Cancer	Jim Patton	Vanderbilt University	Tennessee, USA
15:31- 15:41		Using pathogens to understand mechanisms and functions of exRNA	Amy Buck	University of Edinburgh	Edinburgh, Scotland
15:41- 15:51		exRNA biomarker discovery	Louise Laurent	UC San Diego	California, USA
15:51- 16:01		Extracellular biogenesis of extravesicular rRNA- and tRNA-derived fragments	Juan Pablo Tosar	Institut Pasteur de Montevideo	Montevideo, Uruguay
16:01- 16:31		Q&A	Ken Witwer	The Johns Hopkins University	Maryland, USA
15:16- 15:21	Panel 4- In vivo approaches to understanding EV function	Introduction	Raghu Kalluri	MD Anderson Cancer Center	Texas, USA
15:21- 15:31		Live tracking of EVs' life cycle in vivo	Guillaume van Niel	Institute of Psychiatry and Neurosciences of Paris	Paris, France
15:31- 15:41		Increased Hematopoietic Extracellular RNAs and Vesicles in the Lung during Allergic Airway Responses	Heather Pua	Vanderbilt University	Tennessee, USA
15:41- 15:51		The Biology and Function of Exosomes in Cancer	Raghu Kalluri	MD Anderson Cancer Center	Texas, USA
15:51- 16:01		Analysing the Regulation of Rab11-Exosome Biogenesis In Vivo	Deborah Goberdhan	University of Oxford	Oxford, United Kingdom
16:01- 16:31		Q&A	Raghu Kalluri	MD Anderson Cancer Center	Texas, USA
16:31- 17:16	Closing Remarks	Closing Remarks			
Thursday, July 23					
11:00-13:00	Current Event Breakout	Emerging Trends in EV Research in HIV, NeuroAIDS & Drug Abuse	Shilpa Buch	University of Nebraska Medical Center	Nebraska, USA