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PROGRAM

NOVEMBER 12 (THURSDAY)

2:00-2:50 PM	**Check-in**
2:50-3:00 PM	**Opening remarks from Chairs**
3:00-3:40 PM	**EARLY-CAREER SESSION I**
Moderator	**Saravanakumar Murugesan, University of Alabama at Birmingham**
3:00-3:10 PM	Ananth Kumar Kammala, The University of Texas Medical Branch at Galveston *Physiologically based pharmacokinetic modeling of an EV-delivered biologic predicts human target-tissue exposure of exosomal IL-10 in pregnancy*
3:10-3:20 PM	Inna Nikonorova, Rutgers University *In vivo dissection of ciliary EV cargo selection reveals a channel-dependent loading pathway*
3:20-3:30 PM	Bo Ning, Tulane University *Plasmon-coupled fluorescent carbon dot networks reveal rare pancreatic cancer derived extracellular vesicles directly in blood*
3:30-3:40 PM	Federica Zanotti, Albert Einstein College of Medicine *Extracellular vesicle proteomics unmask fundamental metabolic distinctions between quiescent hematopoietic stem cells and their proliferative progenitor populations*
3:40-4:00 PM	**Coffee break**
4:00-4:40 PM	**EARLY-CAREER SESSION II**
Moderator	**Aijun Wang, University of California, Davis** **Robert Raffai, University of California, San Francisco**
4:00-4:10 PM	Yuetong Ding, Heidelberg University Hospital *Circulating Extracellular Vesicle-Bound Cardiac Troponin T in Myocardial Homeostasis and Disease*
4:10-4:20 PM	Maryam Firouzi, University of Oklahoma Health Campus *Turning Tumors Against Themselves: Exosome-Based Antibody Generation for Targeted Drug Delivery*
4:20-4:30 PM	Edgar Gonzalez Kozlova, Icahn School of Medicine at Mount Sinai *Multi-Omic Profiling of Extracellular Vesicles Reveals Circulating Markers of Clinical Benefit and Survival in Metastatic Urothelial Carcinoma*
4:30-4:40 PM	Oh Youn Kim, Harvard T.H. Chan School of Public Health *Development of a Universal Influenza Vaccine Using WW Domain-Activated Extracellular Vesicles*
4:40-5:00 PM	**Coffee break**
5:00-5:50 PM	**OPENING PLENARY LECTURE: David Lyden** Weill Cornell Medicine

Moderator: Ke Cheng, Columbia University
Systemic effects of cancer-associated extracellular vesicles and particles

5:50-6:10 PM **Sponsor talks (Bronze sponsors)**

Kevin Dolan, Particle Metrix
Ceming Wang, Aopia Biosciences
Colbie Chinowsky, ONI
Satoru Nebuya, Sanyo Chemical Industries
Ryan Willingham, BioIVT
Botai Xuan, Izon

6:10-7:30 PM **Reception (Alcohol will be provided)(Sponsored by Bronze Sponsors)**

NOVEMBER 13 (FRIDAY)

8:00-9:00 AM **SESSION 1: EVs ACROSS KINGDOMS**

Moderator Santiago Correa, Columbia University
Sabrina Simoes, Columbia University

8:00-8:20 AM Sichen Zhang
Beijing Hospital, Beijing, China
Female aging and Ovarian Dysfunction

8:20-8:40 AM Jisook Moon
CHA University
Cord blood plasma-derived extracellular vesicles reverse brain aging through central–peripheral metabolic coupling

8:40-9:00 AM Kenneth Dawson
University College Dublin
Condensate corona-nanoparticle extracellular complexes as endogenous biomolecular transfer programmes

9:00-9:45 AM KEYNOTE SPEAKER: Hailing Jin
University of California Riverside
Moderator: Susmita Sahoo, Mount Sinai
Extracellular Vesicle - mediated Cross-kingdom RNA Communication

9:45-10:00 AM Platinum Sponsor presentation
Nyiah Jordan
Lonza
Advancing Cell-Free and Cell-Based Regenerative Therapies Through Exosome and MSC Innovation

10:00-10:10 AM Xin Zhang
Duke University
Plasma extracellular vesicles carry microRNAs associated with 10-year survival of older adults

10:10-10:30 AM **Coffee break**

10:30-11:30 AM	**SESSION 2: CARDIOMETABOLIC & CARDIOVASCULAR DISEASES**
Moderator	Gissette Reyes-Soffer, Columbia University Medical Center Uta Erdbruegger, University of Virginia Health System
10:30-10:50 AM	Saumya Das Harvard University *EVs in cardiometabolic diseases: peeling the layers in complex phenotypes*
10:50-11:10 AM	Naveed Akbar Oxford University, UK *Extracellular Vesicle Dysfunction in Genetic Cardiovascular Disease*
11:10-11:30 AM	Raj Kishore Temple University *Muscle-specific miR-499-5p delivered by small extracellular vesicles impairs endothelial function and ischemic hindlimb recovery in diabetic mice*
11:30-11:40 AM	Gold sponsor presentation Clayton Deighan, VP, Commercial EXOKĒRYX *Accelerate your EV Discoveries with Demeter EVPrep*
11:40-12:00 PM	Lightning Talks Session 1 (from abstract submissions) Chris Topper, Clemson University Xuehao Zhang, The Ohio State University Saravanakumar Murugesan, University of Alabama at Birmingham Yuan Li, Columbia University Amber Thornton, Virginia Tech Qianbei Li, Southern Medical University Frances Laney Raynolds, University of Virginia Luke Schroeder, University of Louisville Guoyi Jiang, University of Toledo
12:00-1:30 PM	Lunch & Poster Session 1 (~50 posters)
1:30-3:00 PM	**SESSION 3: REGENERATIVE MEDICINE& THERAPEUTIC EVS**
Moderator	Ananth Kumar Kammala, The University of Texas Medical Branch Linzhao Cheng, University of Science and Technology of China
1:30-1:50 PM	Camila Hochman-Mendez Texas Heart Institute *Beyond Systemic Delivery: Ex Vivo Organ Platforms for Precision EV Therapeutics*
1:50-2:10 PM	Ya-Wen Chen Icahn School of Medicine at Mount Sinai

	Unveiling Alternate Pathways for SARS-CoV-2 Infection via Extracellular Vesicle-Mediated Transfer of ACE2 and TMPRSS2
2:10-2:30 PM	Ying Mei Medical University of South Carolina *Human Cardiac Organoid-Derived Extracellular Vesicles for Heart Repair*
2:30-2:50 PM	My Mahoney Thomas Jefferson University *Targeting IFNγ Signaling Through EVs in IVIg*
2:50-3:00 PM	Shuhua Bai, Western New England University (Selected from abstracts) *Bioactive-Rich Plant-Derived Nanovesicles for Targeted Therapy of Inflammatory Bowel Disease*
3:00-3:10 PM	Michail Spanos,Harvard Medical School (Selected from abstracts) *Circulating cardiomyocyte-derived extracellular vesicles ("cardiovesicles") capture dynamic myocardial transcriptional responses to ischemic stress during cardiopulmonary bypass*
3:10-3:20 PM	Gold sponsor presentation George Daaboul, Everest Biolabs *Elevating EV research through optimized tools and automation*
3:20-3:40 PM	**Coffee break**
3:40-5:00 PM	**SESSION 4: CANCER EVS**
Moderator	Siyang Zhang, Carnegie Mellon University Hua Wang, University of Illinois at Urbana-Champaign
3:40-4:00 PM	Alissa Weaver Vanderbilt University *Exosomes in HNSCC metastasis*
4:00-4:20 PM	Carlos Salomon Gallo The University of Queensland *Extracellular Vesicles in Ovarian Cancer: From Oncogenic Transformation to Fit-for-Purpose Strategies for Early Detection and Screening*
4:20-4:40 PM	Quanyin Hu University of Wisconsin Madison *Pyroptotic vesicles as personalized cancer therapeutics*
4:40-5:00 PM	Valerie LeBleu Kalluri The University of Texas MD Anderson Cancer Center *Clinical update on engineered exosomes for pancreatic cancer and beyond*
5:00-5:10 PM	Gold sponsor presentation Matthew Ferenczhalmy Secretech *Discover hidden biology with single EV proteomics*

5:10-6:00 PM	**Panel discussion with editors from Nature and Cell family journals (Chair: Ke Cheng)**
5:10-5:20 PM	Sheila Chari, Cell Stem Cell
5:20-5:30 PM	Rita Strack & Filipe Almeida, Nature Biomedical Engineering
5:30-5:40 PM	Chiara Pastore, Nature Nanotechnology
5:40-6:00 PM	Discussion (Sheila Chari, Rita Strack, Chiara Pastore, Filipe Almeida, Ke Cheng)
6:00-7:30 PM	**Poster session I (refreshments&drinks)**

NOVEMBER 14 (SATURDAY)

8:00-9:00 AM	**SESSION 5: EVs IN CARDIAC REPAIR**
Moderator	**Sam Das, Johns Hopkins University** **Jonathan Weerakkody, Yale School of Medicine**
8:00-8:20 AM	**Philippe Menasché** **University of Paris Descartes** *Cellular Secretomes for Heart Failure : Clinical Implementation and Challenges*
8:20-8:40 AM	**Joost Sluijter** **UMC Utrecht** *Extracellular-vesicle based cardiac delivery; engineering EV Biogenesis for enhanced therapeutic loading*
8:40-9:00 AM	**Robert Gourdie** **Virginia Tech** *Milk-Derived Nanovesicles for Connexin43-Targeted Cardioprotection and Radioprotection*
9:00-9:50 AM	**KEYNOTE SPEAKER: Michel W.J. Sadelain** **Columbia University** Moderator: Mei He, University of Florida *Novel CAR designs and insights into CAR T cell-mediated toxicities*
9:50-10:00 AM	**Anna Fahlgren, Linköping University (Selected from abstracts)** *Mechanical loading intensities regulate the release of pro-metastatic extracellular vesicles in osteosarcoma cells*
10:00-10:10 AM	Gold sponsor presentation **Lucas Saliba, Technical Sales Specialist, EXODUS Bio** *One Workflow from Early Discovery to GMP Production: Automated EV Isolation by Ultrasonic Nanofiltration*
10:10-10:30 AM	**Coffee break**
10:30-11:30 AM	**SESSION 6: EV BIOGENESIS, MEMBRANE DYNAMICS**
Moderator	**Stephen J. Gould, Johns Hopkins University School of Medicine** **Valerie LeBleu Kalluri, The University of Texas MD Anderson Cancer Center**

10:30-10:50 AM	Dylan T. Burnette Vanderbilt University *How Cell-Like Can Large Extracellular Vesicles Really Be?*
10:50-11:10 AM	Sathish Ramakrishnan Yale University *The Fusion Code of Extracellular Vesicles*
11:10-11:30 AM	Louise Laurent University of California San Diego *Multi-omic Analysis Reveals Relationships Among Source Cells, Extracellular Vesicles, and Non-Vesicular Extracellular Particles*
11:30-11:40 AM	Shuo Liu, Columbia University *Inhalable bispecific exosomes coordinate Wnt blockade and checkpoint inhibition in resistant metastatic melanoma*
11:40-12:00 AM	**Lightning Talks Session 2 (from abstract submissions)** Justus C. Ndukaife, Vanderbilt University Emma Koory, Vanderbilt University Paul A. Spezza, Rice University Lee Shaashua Berger, Weill Cornell Medicine Miguel Quiraltepulido, The Wistar Institute Kimberly Luke, Intuitivebio Michelle Pleet, NIH Akiko Searles, NCIRE
12:00-1:30 PM	**Lunch provided & Poster Session 2 (~50 posters)**
1:30-3:10 PM	**SESSION 7: EV TECHNOLOGIES, MULTI-OMICS &DIAGNOSTICS**
Moderator	Carlos Salomon Gallo, The University of Queensland Navneet Dogra, Icahn School of Medicine at Mount Sinai
1:30-1:50 PM	Hubert Hang Yin Beijing Normal University, China *Purifying, Profiling, Probing, and Programming-Chemical Biology Investigations of Extracellular Vesicles*
1:50-2:10 PM	Jennifer Jones NIH *EV Complexity: From Single EV Studies to EV Subset Multiomics*
2:10-2:30 PM	Hsueh-Chia Chang University of Notre Dame *Nanocarrier Diagnostics: A New Charge and Size-Based Detection Platform*
2:30-2:50 PM	Christine Happel NIH *Translating Extracellular Vesicles: From ExRNA Discovery to Next-Generation Therapeutics*
2:50-3:05 PM	Silver sponsors

Latoya Campbell, Terumobct
Krishna Amin, Qiagen
Rick Huntress, CellBio Scientific

3:05-3:30 PM Coffee break

3:30-4:30 PM SESSION 8: NEURAL EV BIOLOGY & NEURODEGENERATION

Moderator: Navneet Dogra, Icahn School of Medicine at Mount Sinai; Bartosz Szczesny, The University of Texas Medical Branch

3:30-3:50 PM **Andrew Hill**
Victoria University
Investigating the role of EVs in neurodegenerative diseases

3:50-4:10 PM **Maureen Barr**
Rutgers University
The fundamental biology of neuronal extracellular vesicles

4:10-4:30 PM **Partha Chandra**
Tulane University
Extracellular vesicles from human and non-human primates suggest a role in sex-specific HIV-associated neuropathogenesis.

4:30-4:40 PM Silver sponsor
Nazar Filinov, Hyperion Analytical
Akash Bhattacharya, Beckman

4:40-5:00 PM Award Announcement (Moderator: Yi Hong)

5:00-6:00 PM AAEV-ISEV Joint Session (Moderator: Raghu Kalluri)

5:00-5:20 PM **Raghu Kalluri**
The University of Texas Medical Branch
Engineered EV and Exosomes as eye drop-based therapy for wet age associated macular degeneration.

5:20-5:40 PM **Benedetta Bussolati**
University of Turin
From patient tissues to tumoroids and cell lines: comparative surfaceome and functional profiling of extracellular vesicles in colorectal cancer

5:40-6:00 PM Panel discussion: Raghu Kalluri (AAEV), Benedetta Bussolati (ISEV), Susmita Sahoo, Ke Cheng (Sponsored by ISEV)

6:00-7:30 PM Poster Session II (refreshments)

NOVEMBER 15 (SUNDAY)

8:00-9:00 AM	**SESSION 9: ENGINEERING EVS FOR THERAPEUTIC DELIVERY**
Moderator	Sunila Pradeep, Medical College of Wisconsin Yong Tao, Beijing Chaoyang Hospital
8:00-8:20 AM	Huiping Liu Northwestern University *AI-accelerated engineering of EV-IgG of ultra-high affinity and efficacy*
8:20-8:40 AM	Brian Brown Icahn School of Medicine at Mount Sinai *Do extracellular vesicles play a role in mRNA vaccines?*
8:40-9:00 AM	Quan Lu Harvard University *ARMMed for Targeted Intracellular Delivery*
9:00-9:50 AM	FOUNDER'S AWARD LECTURE: Tony Hu, Tsinghua University Moderator: Raghu Kalluri *Talk: TBD*
9:50-10:10 AM	Young investigator presentation: Ke Huang, TEXAS A&M University
10:10-10:30 AM	Coffee break

10:30-11:30 AM	**SESSION 10: EVS IN IMMUNITY**
Moderator	Yi-Fen Lee, University of Rochester Medical Center Wei Guo, University of Pennsylvania
10:30-10:50 AM	Rupangi Vasavada City of Hope *Patient-derived extracellular vesicles trigger beta-cell death and contribute to type 1 diabetes pathogenicity*
10:50-11:10 AM	Pilar Martin Fernandez Spanish National Center for Cardiovascular Research *Therapeutically targetable T cell-derived EV-miRNA for myocarditis*
11:10-11:30 AM	Yibin Kang Princeton University *Host metadherin coordinates EV-mediated regulation of hepatic lipid metabolism and CD8+ T cell immunity to promote tumor progression*
11:30-11:50 AM	Young investigator presentation, Xiaoping Bao, Purdue University

11:50-12:10 PM	Poster Awards Announcement
12:10-12:20 PM	**Closing remarks**

Venue:

The Westin Jersey City Newport
479 Washington Blvd
Jersey City, NJ 07310

contact@aaev.org
919-561-9480

Parking:

Garage is right next to hotel: 2 Mall Drive East Jersey City, NJ 07310, You can use maps link: https://maps.app.goo.gl/siJDQsfrQBbQShkr6

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