

AAEV 2026

# Annual Meeting

**Nov 12–15, 2026 · NYC Metropolitan Area**

THE WESTIN JERSEY CITY NEWPORT, 479 Washington Blvd, Jersey City, NJ 07310

## Co-Chairs



**Ke Cheng**
Columbia University



**Susmita Sahoo**
Icahn School of Medicine at Mount Sinai

## Keynote Speakers



**David Lyden**
Weill Cornell Medicine



**Hailing Jin**
University of California Riverside



**Michel W.J. Sadelain**
Columbia University

## Editors



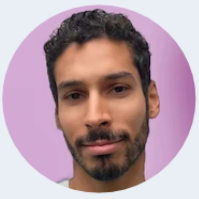
**Sheila Chari**
Cell Stem Cell
Chief Editor



**Rita Strack**
Nature Biomedical Engineering
Chief Editor



**Chiara Pastore**
Nature Nanotechnology
Senior Editor



**Filipe Almeida**
Nature Biomedical Engineering
Senior Editor

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# PROGRAM

## THURSDAY, NOVEMBER 12

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| **2:00–2:50 PM** | **Check-in** |
| **2:50–3:00 PM** | **Opening Remarks by the Co-Chairs** |
| **3:00–3:40 PM** | **EARLY-CAREER SESSION I** |
| **Moderator** | **Saravanakumar Murugesan, University of Alabama at Birmingham**<br>**Xisheng Li, Icahn School of Medicine at Mount Sinai** |
| 3:00–3:10 PM | Ananth Kumar Kammala, The University of Texas Medical Branch at Galveston<br>*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<br>*In vivo dissection of ciliary EV cargo selection reveals a channel-dependent loading pathway* |
| 3:20–3:30 PM | Bo Ning, Tulane University<br>*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<br>*Extracellular vesicle proteomics unmasks fundamental metabolic distinctions between quiescent hematopoietic stem cells and their proliferative progenitor populations* |
| **3:40–4:00 PM** | **Coffee break (sponsored by BioIVT)** |
| **4:00–4:40 PM** | **EARLY-CAREER SESSION II** |
| **Moderator** | **Aijun Wang, University of California, Davis**<br>**Robert Raffai, University of California, San Francisco** |
| 4:00–4:10 PM | Yuetong Ding, Heidelberg University Hospital<br>*Circulating extracellular vesicle-bound cardiac troponin T in myocardial homeostasis and disease* |
| 4:10–4:20 PM | Oh Youn Kim, Harvard T.H. Chan School of Public Health<br>*Development of a universal influenza vaccine using WW domain-activated extracellular vesicles* |
| 4:20–4:30 PM | Edgar Gonzalez Kozlova, Icahn School of Medicine at Mount Sinai<br>*Multi-omic profiling of extracellular vesicles reveals circulating markers of clinical benefit and survival in metastatic urothelial carcinoma* |
| 4:30–4:40 PM | Maryam Firouzi, University of Oklahoma Health Campus<br>*Turning tumors against themselves: Exosome-based antibody generation for targeted drug delivery* |
| **4:40–5:00 PM** | **Coffee break (sponsored by Particle Metrix)** |
| **5:00–5:50 PM** | **OPENING PLENARY LECTURE: David Lyden**<br>**Weill Cornell Medicine**<br>Moderator: Ke Cheng, Columbia University<br>*Systemic effects of cancer-associated extracellular vesicles and particles* |

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| **5:50–6:10 PM** | **Sponsor talks (Bronze sponsors)**<br>**Kevin Dolan, Particle Metrix**<br>**Ceming Wang, Aopia Biosciences**<br>**Colbie Chinowsky, ONI**<br>**Satoru Nebuya, Sanyo Chemical Industries**<br>**Ryan Willingham, BioIVT**<br>**Botai Xuan, Izon** |
| **6:10–7:30 PM** | **Reception (food and alcoholic beverages provided)**<br>**(sponsored by Aopia Biosciences, ONI, Izon)** |

# FRIDAY, NOVEMBER 13

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| **8:00–9:00 AM** | **SESSION 1: EVs ACROSS KINGDOMS** |
| **Moderator** | **Santiago Correa, Columbia University**<br>**Sabrina Simoes, Columbia University** |
| **8:00–8:20 AM** | **Sichen Zhang**<br>**Beijing Hospital, Beijing, China**<br>*Female aging and ovarian dysfunction* |
| **8:20–8:40 AM** | **Jisook Moon**<br>**CHA University**<br>*Cord blood plasma-derived extracellular vesicles reverse brain aging through central–peripheral metabolic coupling* |
| **8:40–9:00 AM** | **Kenneth Dawson**<br>**University College Dublin**<br>*Condensate corona-nanoparticle extracellular complexes as endogenous biomolecular transfer programmes* |
| **9:00–9:45 AM** | **KEYNOTE SPEAKER: Hailing Jin**<br>**University of California, Riverside**<br>Moderator: Susmita Sahoo, Icahn School of Medicine at Mount Sinai<br>*Extracellular vesicle–mediated cross-kingdom RNA communication* |
| **9:45–10:00 AM** | Platinum sponsor presentation<br>**Nyiah Jordan, Lonza**<br>*Advancing cell-free and cell-based regenerative therapies through exosome and MSC innovation* |
| **10:00–10:10 AM** | **Xin Zhang**<br>**Duke University**<br>*Plasma extracellular vesicles carry microRNAs associated with 10-year survival of older adults* |
| **10:10–10:30 AM** | **Coffee break (sponsored by Sanyo Chemical Industries, Aureole)** |
| **10:30–11:30 AM** | **SESSION 2: CARDIOMETABOLIC & CARDIOVASCULAR DISEASES** |
| **Moderator** | **Gissette Reyes-Soffer, Columbia University Medical Center**<br>**Uta Erdbruegger, University of Virginia Health System** |
| **10:30–10:50 AM** | **Saumya Das**<br>**Harvard University**<br>*EVs in cardiometabolic diseases: Peeling the layers in complex phenotypes* |

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| **10:50–11:10 AM** | **Naveed Akbar**<br>**University of Oxford, UK**<br>*Extracellular vesicle dysfunction in genetic cardiovascular disease* |
| **11:10–11:30 AM** | **Raj Kishore**<br>**Temple University**<br>*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**<br>**Clayton Deighan, VP, Commercial, EXOKĒRYX**<br>*Accelerate your EV Discoveries with Demeter EVPrep* |
| **11:40–12:00 PM** | **Lightning Talks Session 1 (from abstract submissions)**<br>**Chris Topper, Clemson University**<br>**Xuehao Zhang, The Ohio State University**<br>**Saravanakumar Murugesan, University of Alabama at Birmingham**<br>**Yuan Li, Columbia University**<br>**Amber Thornton, Virginia Tech**<br>**Frances Laney Raynolds, University of Virginia**<br>**Luke Schroeder, University of Louisville**<br>**Guoyi Jiang, University of Toledo** |
| **12:00–1:30 PM** | **Lunch & Poster Session 1 (~50 posters) (sponsored by Lonza, EXOKĒRYX)** |
| **1:30–3:10 PM** | **SESSION 3: REGENERATIVE MEDICINE & THERAPEUTIC EVs** |
| **Moderator** | **Ananth Kumar Kammala, The University of Texas Medical Branch at Galveston**<br>**Linzhao Cheng, University of Science and Technology of China** |
| **1:30–1:50 PM** | **Camila Hochman-Mendez**<br>**Texas Heart Institute**<br>*Beyond systemic delivery: Ex vivo organ platforms for precision EV therapeutics* |
| **1:50–2:10 PM** | **Ya-Wen Chen**<br>**Icahn School of Medicine at Mount Sinai**<br>*Unveiling alternate pathways for SARS-CoV-2 infection via extracellular vesicle-mediated transfer of ACE2 and TMPRSS2* |
| **2:10–2:30 PM** | **Ying Mei**<br>**Medical University of South Carolina**<br>*Human cardiac organoid-derived extracellular vesicles for heart repair* |
| **2:30–2:50 PM** | **Mỹ G. Mahoney**<br>**Thomas Jefferson University**<br>*Targeting IFNγ signaling through EVs in IVIg* |
| **2:50–3:00 PM** | **Shuhua Bai, Western New England University**<br>*Bioactive-rich plant-derived nanovesicles for targeted therapy of inflammatory bowel disease* |
| **3:00–3:10 PM** | **Michail Spanos, Harvard Medical School**<br>*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<br>**George Daaboul, Everest Biolabs**<br>*Elevating EV research through optimized tools and automation* |
| **3:20–3:40 PM** | **Coffee break (sponsored by Everest Biolabs)** |

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| **3:40–5:00 PM** | **SESSION 4: CANCER EVs** |
| **Moderator** | **Siyang Zheng, Carnegie Mellon University**<br>**Hua Wang, University of Illinois at Urbana-Champaign** |
| **3:40–4:00 PM** | **Bong Hwan Sung**<br>**Vanderbilt University**<br>*Fibroblast exosomes induce matrix assembly and breast tumor growth and metastasis* |
| **4:00–4:20 PM** | **Carlos Salomon Gallo**<br>**The University of Queensland**<br>*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**<br>**University of Wisconsin–Madison**<br>*Pyroptotic vesicles as personalized cancer therapeutics* |
| **4:40–5:00 PM** | **Valerie LeBleu Kalluri**<br>**The University of Texas MD Anderson Cancer Center**<br>*Clinical update on engineered exosomes for pancreatic cancer and beyond* |
| **5:00–5:10 PM** | Gold sponsor presentation<br>**Matthew Ferenczhalmy, Secretech**<br>*Discover hidden biology with single EV proteomics* |
| **5:10–6:10 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, Nature Biomedical Engineering |
| 5:30–5:40 PM | Filipe Almeida, Nature Biomedical Engineering |
| 5:40-5:50 PM | Chiara Pastore, Nature Nanotechnology |
| 5:50–6:10 PM | Discussion (Sheila Chari, Rita Strack, Chiara Pastore, Filipe Almeida, Ke Cheng) |
| **6:10–7:30 PM** | **Poster Session 1 (refreshments & drinks) (sponsored by BioNavis)** |

# SATURDAY, NOVEMBER 14

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| **8:00–9:00 AM** | **SESSION 5: EVs IN CARDIAC REPAIR** |
| **Moderator** | **Sam Das, Johns Hopkins University**<br>**Jonathan Weerakkody, Yale School of Medicine** |
| **8:00–8:20 AM** | **Philippe Menasché**<br>**University of Paris Descartes**<br>*Cellular secretomes for heart failure: Clinical implementation and challenges* |
| **8:20–8:40 AM** | **Joost Sluijter**<br>**UMC Utrecht**<br>*Extracellular vesicle-based cardiac delivery: Engineering EV biogenesis for enhanced therapeutic loading* |
| **8:40–9:00 AM** | **Robert Gourdie**<br>**Virginia Tech**<br>*Milk-derived nanovesicles for connexin43-targeted cardioprotection and radioprotection* |
| **9:00–9:50 AM** | **KEYNOTE SPEAKER: Michel W.J. Sadelain**<br>**Columbia University**<br>Moderator: Mei He, University of Florida<br>*Novel CAR designs and insights into CAR T cell-mediated toxicities* |

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| **9:50–10:00 AM** | **Anna Fahlgren, Linköping University**<br>*Mechanical loading intensities regulate the release of pro-metastatic extracellular vesicles in osteosarcoma cells* |
| **10:00–10:10 AM** | Gold sponsor presentation<br>**Lucas Saliba, Technical Sales Specialist, EXODUS Bio**<br>*One workflow from early discovery to GMP production: Automated EV isolation by ultrasonic nanofiltration* |
| **10:10–10:30 AM** | **Coffee break (sponsored by Secretech)** |
| **10:30–11:30 AM** | **SESSION 6: EV BIOGENESIS & MEMBRANE DYNAMICS** |
| **Moderator** | **Stephen J. Gould, Johns Hopkins University School of Medicine**<br>**Valerie LeBleu Kalluri, The University of Texas MD Anderson Cancer Center** |
| **10:30–10:50 AM** | **Dylan T. Burnette**<br>**Vanderbilt University**<br>*How cell-like can large extracellular vesicles really be?* |
| **10:50–11:10 AM** | **Sathish Ramakrishnan**<br>**Yale University**<br>*The fusion code of extracellular vesicles* |
| **11:10–11:30 AM** | **Louise Laurent**<br>**University of California, San Diego**<br>*Multi-omic analysis reveals relationships among source cells, extracellular vesicles, and non-vesicular extracellular particles* |
| **11:30–11:40 AM** | Shuo Liu, Columbia University<br>*Inhalable bispecific exosomes coordinate Wnt blockade and checkpoint inhibition in resistant metastatic melanoma* |
| **11:40–12:00 PM** | **Lightning Talks Session 2 (from abstract submissions)**<br>**Justus C. Ndukaife, Vanderbilt University**<br>**Emma Koory, Vanderbilt University**<br>**Paul A. Spezza, Rice University**<br>**Lee Shaashua Berger, Weill Cornell Medicine**<br>**Miguel Quiraltepulido, The Wistar Institute**<br>**Kimberly Luke, Intuitive Biosciences**<br>**Michelle Pleet, National Institutes of Health**<br>**Akiko Searles, Northern California Institute for Research and Education, Inc.** |
| **12:00–1:30 PM** | **Lunch provided & Poster Session 2 (~50 posters) (sponsored by EXODUS Bio, Qiagen)** |
| **1:30–2:50 PM** | **SESSION 7: EV TECHNOLOGIES, MULTI-OMICS & DIAGNOSTICS** |
| **Moderator** | **Carlos Salomon Gallo, The University of Queensland**<br>**Navneet Dogra, Icahn School of Medicine at Mount Sinai** |
| **1:30–1:50 PM** | **Hubert Hang Yin**<br>**Beijing Normal University, China**<br>*Purifying, profiling, probing, and programming: Chemical biology investigations of Extracellular Vesicles* |
| **1:50–2:10 PM** | **Jennifer Jones**<br>**National Institutes of Health**<br>*EV complexity: From single EV studies to EV subset multiomics* |

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| **2:10–2:30 PM** | **Hsueh-Chia Chang**<br>**University of Notre Dame**<br>*Nanocarrier diagnostics: A new charge- and size-based detection platform* |
| **2:30–2:50 PM** | **Christine Happel**<br>**National Institutes of Health**<br>*Translating extracellular vesicles: From exRNA discovery to next-generation therapeutics* |
| **2:50–3:05 PM** | Silver sponsors<br>**Latoya Campbell, Terumo Blood and Cell Technologies**<br>**Krishna Amin, Qiagen**<br>**Rick Huntress, CellBio Scientific** |
| **3:05–3:30 PM** | **Coffee break (sponsored by Terumo Blood and Cell Technologies, CellBio Scientific)** |
| **3:30–4:30 PM** | **SESSION 8: NEURAL EV BIOLOGY & NEURODEGENERATION** |
| **Moderator** | **Navneet Dogra, Icahn School of Medicine at Mount Sinai**<br>**Bartosz Szczesny, The University of Texas Medical Branch at Galveston** |
| **3:30–3:50 PM** | **Andrew Hill**<br>**Victoria University**<br>*Investigating the role of EVs in neurodegenerative diseases* |
| **3:50–4:10 PM** | **Maureen Barr**<br>**Rutgers University**<br>*The fundamental biology of neuronal extracellular vesicles* |
| **4:10–4:30 PM** | **Partha Chandra**<br>**Tulane University**<br>*Extracellular vesicles from human and non-human primates suggest a role in sex-specific HIV-associated neuropathogenesis* |
| **4:30–4:40 PM** | **Silver sponsors**<br>**Duncan Griffith, Hyperion Analytical**<br>**Akash Bhattacharya, Beckman Coulter Life Sciences** |
| **4:40–5:00 PM** | **Awards Announcement (Moderator: Yi Hong, The University of Texas at Arlington)** |
| **5:00–6:00 PM** | **AAEV-ISEV Joint Session (Moderator: Raghu Kalluri) (Sponsored by ISEV)** |
| 5:00–5:20 PM | **Raghu Kalluri**<br>**AAEV President**<br>**The University of Texas Medical Branch**<br>*Engineered EVs and exosomes as eye drop-based therapy for wet age-related macular degeneration* |
| 5:20–5:40 PM | **Benedetta Bussolati**<br>**ISEV President**<br>**University of Turin**<br>*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, Benedetta Bussolati, Susmita Sahoo, Ke Cheng |
| **6:00–7:30 PM** | **Poster Session 2 (refreshments) (sponsored by ISEV)** |

# SUNDAY, NOVEMBER 15

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| **8:00–9:00 AM** | **SESSION 9: ENGINEERING EVs FOR THERAPEUTIC DELIVERY** |
| **Moderator** | **Sunila Pradeep, Medical College of Wisconsin**<br>**Yong Tao, Beijing Chaoyang Hospital** |
| **8:00–8:20 AM** | **Huiping Liu**<br>**Northwestern University**<br>*AI-accelerated engineering of EV-IgG of ultra-high affinity and efficacy* |
| **8:20–8:40 AM** | **Navneet Dogra**<br>**Icahn School of Medicine at Mount Sinai**<br>*Do extracellular vesicles play a role in mRNA vaccines?* |
| **8:40–9:00 AM** | **Quan Lu**<br>**Harvard University**<br>*ARMMed for Targeted Intracellular Delivery* |
| **9:00–9:50 AM** | **FOUNDER'S AWARD LECTURE: Tony Hu, Tsinghua University**<br>Moderator: Raghu Kalluri<br>*Life in a bubble - Engineered EV for precision medicine* |
| **9:50–10:10 AM** | **Young Investigator Presentation: Ke Huang, Texas A&M University** |
| **10:10–10:30 AM** | **Coffee break (sponsored by Hyperion Analytical, Beckman Coulter Life Sciences)** |
| **10:30–11:30 AM** | **SESSION 10: EVs IN IMMUNITY** |
| **Moderator** | **Yi-Fen Lee, University of Rochester Medical Center**<br>**Wei Guo, University of Pennsylvania** |
| **10:30–10:50 AM** | **Rupangi Vasavada**<br>**City of Hope**<br>*Patient-derived extracellular vesicles trigger beta-cell death and contribute to type 1 diabetes pathogenicity* |
| **10:50–11:10 AM** | **Pilar Martin Fernandez**<br>**Spanish National Center for Cardiovascular Research**<br>*Therapeutically targetable T cell-derived EV-miRNA for myocarditis* |
| **11:10–11:20 AM** | **Dong-Bing Cheng**<br>**Wuhan University of Technology**<br>*Immune-vesicle-enveloped hypoxia-gated poly-norcantharidin nanograins reprogram glioblastoma immunity* |
| **11:20–11:40 AM** | **Leonidas A Phylactou**<br>**The Cyprus Institute of Neurology & Genetics**<br>*Standardizing extracellular vesicle analytical workflows for biomarker discovery and therapeutic development* |
| **11:40–12:00 PM** | **Young Investigator Presentation, Xiaoping Bao, Purdue University** |
| **12:00–12:20 PM** | Poster Awards Announcement |
| **12:20–12:30 PM** | **Closing remarks** |