

DAY 1 – Wednesday 14th November		
12.00pm	<i>Registration Opens and Poster Setup</i>	
2.00-2:15pm	<i>Introduction and Welcome (AEV Organising Committee, UTS DVCR)</i>	
Session 1: EV methodology		<i>Room: CB11.00.401</i>
<i>Chair: Lisa Lincz</i>		
2.15pm	Jacky Goetz, INSERM, Institut d'Hématologie et d'Immunologie, France Tracking tumor extracellular vesicles at high spatio-temporal resolution in vivo	<i>abs# 1</i>
2.45pm	Cherie Blenkiron, The University of Auckland, New Zealand Don't reinvent the wheel: Application of extracellular vesicle methodologies across species	<i>abs# 2</i>
3.15pm	Hans van der Voorn High precision isolation of EVs through automation and control of "smart" SEC columns	<i>abs# 3</i>
3.30pm	Rebecca Lane Optimisation of size exclusion chromatography for enrichment and proteomics analysis of extracellular vesicles from clinically relevant samples	<i>abs# 4</i>
3.45pm	Colin Hisey Microfluidic Affinity Separation Chip for Selective Capture and Release of Label-free Extracellular Vesicles	<i>abs# 5</i>
4.00-4:30pm Afternoon Tea Room: CB11.01.100		
Session 2: Apoptosis, airways and inflammation		<i>Room: CB11.00.401</i>
<i>Chair: Cherie Blenkiron</i>		
4.30pm	Phillip Hansbro, The University of Newcastle, Australia Extracellular Vesicles in Respiratory Disease	<i>abs# 6</i>
5.00pm	Sunyoung Ham Breast cancer-derived exosomes alter macrophage polarization via gp130/STAT3 signaling	<i>abs# 7</i>
5.15pm	Yedan Wang MSC exosomes alleviate inflammation and joint degeneration in rat knee osteoarthritis	<i>abs# 8</i>
Lightning Talks		<i>Room: CB11.00.401</i>
5.30-6:00pm	Susannah Hallal Extracellular vesicles from glioblastoma cells stimulate normal astrocytes to acquire an invasive phenotype via p53 inhibition and induction of MYC	<i>abs# 51</i>
	Suchismita Dutta Oxygen tension and low dose aspirin modulates exosomes release and their protein content from placental cells	<i>abs# 52</i>
	Soumyalekshmi Nair Placenta-derived Exosomal miRNAs Can Modulate Skeletal Muscle Insulin Sensitivity, An Effect Enhanced in Gestational Diabetes Mellitus	<i>abs# 53</i>
	Rong Xu Surfaceome of exosomes secreted from the colorectal cancer cell line SW480	<i>abs# 54</i>
	Mona Alharbi Ovarian cancer cell invasiveness is associated with differential expression of proteins within exosomes which facilitate ovarian cancer tumor growth and metastasis in-vivo	<i>abs# 55</i>
	Cathryn Ugalde	

	Loss of ultrastructure ablates exosome-induced acceleration of α -synuclein fibrillization id# 56616	abs# 56
	Candice de Boer Two step isolation procedure for exosome purification from blood	abs# 57
	Amirmohammad Nasiri Kenari Generation and comprehensive characterization of exosome-mimetic nanovesicles as an alternative delivery system to exosomes	abs# 58
	Andrew Lai Automated isolation of extracellular vesicles using high-performance liquid chromatography (HPLC) and multimodal chromatography	abs# 59
	Kevin Howcroft Advancing extracellular RNA (exRNA) communication: Improved isolation and analysis of exRNA carriers and single EV sorting, isolation, and analysis of cargo	abs# 60
18:00-21:30	Welcome Reception & Poster Session Room: CB11.01.100	Welcome Reception Sponsored by UTS

DAY 2 – Thursday 15th November		
Session 3: Biogenesis and delivery		Room: CB11.00.401 Session Sponsored by ATA Scientific
Chair: David Greening		
8.30am	Samir El-Andaloussi, Karolinska Institutet, Sweden Engineering of extracellular vesicles	abs# 9
9.00am	Marca Wauben, Utrecht University, The Netherlands Extracellular Vesicles: From Biology to Biomedical Application	abs# 10
9.30am	Jack Taylor Sarco/endoplasmic reticulum ATPase inhibition activates calcium signalling pathways for microvesicle biogenesis	abs# 11
9.45am	Sarah Stewart Defining the EV surface proteome for insights into cargo delivery	abs# 12
10.00am	Harley Robinson RNA motif-guided exosomal microRNA export regulated by lipid raft protein Caveolin-1	abs# 13
10.15-10:45am	Morning Tea Room: CB11.01.100	Morning Tea Sponsored by Beckman Coulter
Session 4: EVs in Cancer1		Room: CB11.00.401 Session Sponsored by DKSH
Chair: Maria Liaskos		
10.45am	Suresh Mathivanan Going through the gut: role of milk extracellular vesicles in cancer progression	abs# 14
11.00am	Kirsty Danielson EV-associated miR-21 and miR-29a as biomarkers for colorectal cancer.	abs# 15
11.15am	Dominic Guanzon Investigating the role of circulating exosome and colorectal tissue derived miRNAs in colorectal cancer progression	abs# 16

11.30am	Alin Rai Exosomes derived from human primary and metastatic colorectal cancer cells contribute to functional heterogeneity of activated fibroblasts by reprogramming their proteome	<i>abs# 17</i>
11.45pm	Helen Jankowski Opening the vault on prostate cancer extracellular vesicles with transcriptomics analysis	<i>abs# 18</i>
12.00pm	Saeideh Ebrahimkhani Deep sequencing of circulating exosomal microRNA allows non-invasive glioblastoma diagnosis	<i>abs# 19</i>
12.15 – 1.00pm	Lunch	
1.00 – 2.15pm	Meet the Experts Session Room: CB11.00.401 (Students, ECRs & Invited speakers)	<i>Session Sponsored by University of Sydney</i>
Session 5: EVs in other diseases 1		<i>Room: CB11.00.401</i>
<i>Chair: Nicholas King</i>		
2.15pm	Maria Liaskos, La Trobe University, Australia Cargo composition and functions of bacterial membrane vesicles	<i>abs# 20</i>
2.45pm	Kira Groen Increased plasma-borne extracellular vesicles in Multiple Sclerosis – Where did they come from?	<i>abs# 21</i>
3.00pm	Ramon Eichenberger Extracellular vesicles from hookworms and their therapeutic potential	<i>abs# 22</i>
3.15pm	Lesley Cheng Temporal distribution of microRNA profiles in pre-clinical and clinical forms of prion disease	<i>abs# 23</i>
3.30-3.45pm	Afternoon Tea Room: CB11.01.100	<i>Morning Tea Sponsored by Beckman Coulter</i>
Session 6: Gestational EVs		<i>Room: CB11.00.401</i>
<i>Chair: Lesley Cheng</i>		
3.45pm	Lois Salamonsen New insights into human embryo implantation: Endometrial extracellular vesicles promote trophoblast functions thus enhancing implantation potential	<i>abs# 24</i>
4.15pm	Nanthini Jayabalan Adipose tissue derived exosomes modulates placenta glucose metabolism in gestational diabetes mellitus	<i>abs# 25</i>
4.30pm	Ramin Khanabdali Extracellular Vesicle Profile of Mesenchymal Stem/Stromal Cells Derived from Early-Term and Late/Post-Term Human Placenta: A Proxy to Understand Placental Ageing	<i>abs# 26</i>
4.45pm	Larry Chamley Discordant interactions of placental microvesicles with leukocytes <i>in vitro</i> and <i>in vivo</i> .	<i>abs# 27</i>
5.00pm	Matthew Kang Heterogeneity and localisation of cell-free fetal DNA in placenta-derived extracellular vesicles	<i>abs# 28</i>
7.00pm	Conference Dinner at Bistrot Gavroche	<i>Dinner sponsored by Lonza</i>

DAY 3 – Friday 16th November		
8:30am	UTS Data Arena Tour (Limited tickets)	Room: CB11.02.101
Session 7: EVs in Cancer 2		Room: CB11.00.401
Chair: Laura Vella		
9.00am	Takahiro Ochiya , National Cancer Centre Research Institute, Japan exRNA as a novel diagnostic and therapeutic target for cancer	abs# 29
9.30am	Mary Bebawy A Personalised Approach to Managing Drug Resistance and Treatment Failure in Myeloma	abs# 30
9.45am	Aikaterini Emmanouilidi Oncogenic and non-malignant pancreatic exosome cargo reveal distinct expression of oncogenic and prognostic factors involved in tumour invasion and metastasis	abs# 31
10.00am	Tanbir Najrana Mechanical force differentially regulates EV-miRNAs in lung epithelial cell	abs# 32
10.15am	Andreas Moller , QIMR Berghofer Medical Research Institute, Australia A multi-protein exosome signature prognosticates patient outcome in Non-Small Cell Lung Cancer.	abs# 33
10.45–11.10am Morning Tea Room: CB11.01.100		Morning Tea sponsored by Merck
Session 8: EVs in other diseases 2		Room: CB11.00.401 Session Sponsored by GE
Chair: Andreas Moller		
11.10am	Theoharis Panaretakis , Karolinska Institutet, Sweden Molecular Profiling of Plasma or Bone marrow-derived extracellular vesicles for Predicting Therapy Response	abs# 34
11.40am	Georges Grau Modulation of brain endothelial cell extracellular vesicles by Plasmodium falciparum: relevance to cerebral malaria	abs# 35
11.55am	Benjamin Sealy The role of extracellular vesicles in the modulation of endothelial junctions in an <i>in vitro</i> model of cerebral malaria	abs# 36
12.10pm	Caroline Reddel Enhanced fibrinolysis and altered extracellular vesicles after remote ischaemic preconditioning in non-diabetic coronary artery disease patients	abs# 37
12.25-1:25pm Lunch Room: CB11.01.100		Lunch sponsored by System Biosciences
Session 9: EVs as therapeutics		Room: CB11.00.401
Chair: Mark Bleackley		
1:25pm	Bernd Giebel , Universitätsklinikum Essen (AÖR), Germany Mesenchymal stem cell-derived extracellular vesicles: a potential new tool in regenerative medicine	abs# 38
1.55pm	Nicholas King Microvesicles produced by flavivirus-infected endothelium are antiviral and effectively immunise against flavivirus infection	abs# 39
2.10pm	Muhammad Waqas Highly efficient, safe and scalable RNA drug delivery by red blood cell derived extracellular vesicles	abs# 40

2.25pm	Bogdan Mateescu Origin, biogenesis and bio-distribution of milk-borne extracellular microRNAs	<i>abs# 41</i>
2.40-3:00pm	Afternoon Tea <i>Room: CB11.01.100</i>	<i>Afternoon Tea sponsored by Merck</i>
Session 10: Novel functions for EVs		<i>Room: CB11.00.401</i>
<i>Chair: Andrew Hill</i>		
3:00pm	Sai Kiang Lim , <i>Agency for Science, Technology and Research, Singapore</i> Defining MSC small EVs by their membrane lipids	<i>abs# 42</i>
3.30pm	Juan Carlos Polanco Unravelling How Exosomes Induce and Propagate Tau Pathology	<i>abs# 43</i>
3.45pm	Bruce Warren Platelet adhesion and aggregation with formation of MVB	<i>abs# 44</i>
4.00pm	Awards and Close	