

PROGRAM

THURSDAY 20TH NOVEMBER 2014

Registration Open

Room?

7:30 am - 9:00 am

Welcome and Introduction

Bluewater Rooms

9:00 am - 9:05 am

Andrew Hill

Session One - EV Methods and Analysis

Bluewater Rooms

9:00 am - 11:00 am

Chairs: Andrew Hill & Valery Combes

9:00 am

Rebecca Dragovic

Isolation and Characterisation of Placental Syncytiotrophoblast Extracellular Vesicles abs#001

9:35 am

Gavin Reid

Comprehensive Lipidome Profiling of Malignant and Metastatic Colorectal Cancer Cell Derived Exosomes abs#002

10:00 am

Jason Mulvenna

Whats in a vesicle? Measuring protein expression levels in small extracellular vesicles using SWATH mass spectrometry abs#003

10:15 am

Shayne Bellingham

Metabolomic Profiling of Prion Infected Neuronal Cells and Exosomes abs#004

10:30 am

Rebecca Lane

Optimisation of Tunable Resistive Pulse Sensing for Characterisation of Exosomes abs#005

Morning Tea

Room?

11:00 am - 11:30 am

Session Two - Cell Biology of EVs

Bluewater Rooms

11:30 am - 1:00 pm

Chairs: Carlos Salomon & Suresh Mathivanan

11:30 am

Michelle Hill

Novel pathway of extracellular vesicle cargo selection impacts vesicle protein and miRNA content, vesicle internalization and biological function abs#006

11:55 am

Valery Combes

Morphological and molecular aspects of the modulation of endothelial microparticle release abs#007

12:10 pm

Kimberly Mackenzie

Regulation of an iron transporter through direct plasma membrane budding abs#008

12:25 pm

Sharissa Latham

Novel cytoskeletal-membrane interactions regulating vesiculation abs#009

12:40 pm

Penelope Dalla

Cellular uptake and trafficking of P-glycoprotein in breast cancer cells following Microparticle binding abs#010

Lunch and Poster Session

Room?

1:00 pm - 2:00 pm

Session Three - EV's in Infectious Disease

Bluewater Rooms

2:00 pm - 3:30 pm

Chairs: Georges Grau & Yong Song Gho

- 2:00 pm **Alex Loukas**
Carcinogenic liver fluke secretes extracellular vesicles that promote cholangiocytes to adopt a tumorigenic phenotype abs#011
- 2:25 pm **Takashi Kumagai**
Male-female interaction through miRNA contained in the extracellular vesicles secreted from Schistosoma japonicum (parasitic plathelminth) abs#012
- 2:40 pm **Cherie Blenkiron**
Membrane vesicles released from Uropathogenic Escherichia coli transport an RNA cargo abs#013
- 2:55 pm **Amy Cohen**
Microparticle mirna content and fate in the pathogenesis of experimental cerebral malaria abs#014
- 3:10 pm **Natalia Tiberti**
Investigation of the protein content of plasma microparticles released during experimental cerebral malaria abs#015

Afternoon Tea

3:30 pm - 4:00 pm

Room?

Session Four - EVs as Biomarkers

Bluewater Rooms

4:00 pm - 5:45 pm

Chairs: Mary Bebawy & Lesley Cheng

- 4:00 pm **Andreas Moeller**
Cancer-derived exosomes as prognostic marker in Non-Small Cell Lung Cancer abs#016
- 4:25 pm **Takeshi Tomonaga**
Identification of predictive biomarker candidates of colorectal cancer metastasis in serum extracellular vesicles based on membrane quantitative proteomics of cancer tissues abs#017
- 4:40 pm **Renee Stirling Richards**
Human seminal fluid as a source of prostate cancer specific extracellular protein and miRNA biomarkers abs#018
- 4:55 pm **Anna Zinger**
Characterisation of plasma microparticles in multiple sclerosis abs#019
- 5:10 pm **Sabna Rajeev Krishnan**
Multiple Myeloma- Microparticles as novel prognostic markers abs#020
- 5:25 pm **Amy Phillips**
Recent Technical Developments in the Standardized Separation and Measurement of EVs and in the Detection and Measurement of Surface Proteins Using Aptamers abs#21

Welcome Mixer and Posters

6:00 pm - 7:00 pm

Room?

Session Five - EVs in Immunopathology

Bluewater Rooms

9:00 am - 10:30 am

Chairs: Richard Simpson & Laura Vella

- 9:00 am **Georges Grau**
Microparticles as immunomodulators and active players in immunopathology abs#022
- 9:25 am **Kevin Barnham**
Tau nitration modulates α -synuclein secretion through an exosome dependent pathway abs#023
- 9:40 am **Juan Carlos Polanco**
Analysis of TAU Protein in Exosomes and Larger Extracellular Vesicles Isolated from a Mouse Model of Alzheimer's Disease abs#024
- 9:55 am **Shu Wen Wen**
The biodistribution and immune suppressive effects of breast cancer-derived exosomes abs#025
- 10:10 am **Camelia Quek**
Rapid profiling of exosomal small RNA expression in neurodegenerative diseases abs#026

Morning Tea

Room?

10:30 am - 11:00 am

Session Six - EV in Cancer Therapy

Bluewater Rooms

11:00 am - 12:30 pm

Chairs: Michelle Hill & Andreas Moeller

- 11:00 am **Mary Bebawy**
Microparticles as mediators of multidrug resistance and metastatic capacity in cancer abs#027
- 11:25 am **Suresh Mathivanan**
A bubble ride for the oncogenes: Exosomes in the tumor microenvironment abs#028
- 11:50 am **Laura Vella**
Exosomes confer drug resistance in BRAF mutant melanoma abs#029
- 12:05 pm **Stephanie Boukouris**
Exosomes as targeted drug delivery vehicles to treat cancer abs#030
- 12:20 pm **Ariane Roseblade**
New therapeutic strategies for the treatment of cancer multidrug resistance abs#031

Lunch and Poster Session

Room?

12:30 pm - 1:30 pm

Session Seven - EVs in Human Health and Disease

Bluewater Rooms

1:30 pm - 3:00pm

Chairs: Rebecca Dragovic & Shayne Bellingham

- 1:30 pm **Gregory Rice**
Exosomal signalling in complications of pregnancy abs#032
- 1:55 pm **Larry Chamley**
Comparison of the protein cargo of placental macro, micro and nano vesicles abs#033
- 2:10 pm **Lesley Cheng**
Exosomal miRNA biomarkers associated with Alzheimer's disease shows concordance with neuropsychological and neuroimaging assessment abs#034
- 2:25 pm **Carlos Salomon**
Gestational diabetes mellitus is associated with high concentration of placenta-derived exosomes in maternal circulation abs#035
- 2:40 pm **Xavier Sisquella**
Malaria parasites regulate secretion of exosomes carrying distinct cargo abs#036

Afternoon Tea

3:00 pm - 3:30 pm

Room?

Session Eight - Innovations in EV Applications

Bluewater Rooms

3:30 pm - 5:00 pm

Chairs: Michael Michael & Karlheinz Peter

3:30 pm

Yong Song Gho

Bio-inspired exosome-mimetic technology for targeted drug delivery and adjuvant-free vaccine
abs#037

4:05 pm

Karlheinz Peter

Circulating microparticles in cardiovascular disease: Transport vehicles for specifically packaged
microRNA and pro-inflammatory monomeric C-reactive protein abs#038

4:30 pm

David Connor

Effects of Antiplatelet Therapy on Platelet Extracellular Vesicles in Health and Disease abs#039

4:45 pm

Anthony Fedele

Targeting of the lysosomal multipass transmembrane protein heparan acetyl CoA: α -glucosaminide
N-acetyltransferase (HGSNAT) to the exosome abs#040

Closing Remarks

Bluewater Rooms

5:00 pm - 5:05 pm

Andrew Hill

Conference Dinner

7:00 pm - 10:00 pm

Ochre Restaurant

43 Shields Street, Cairns, Queensland