Scientific Program

EViND -*Extracellular Vesicles in Neurodegenerative Diseases*

Monday 13th May 2024

Queensland Brain Institute (QBI), The University of Queensland, St

Lucia, Building 79, Main Auditorium, Level 7

Please download the Abstract Booklet here

Organising Institutions:

Queensland Brain Institute

CJCADR Clem Jones Centre for Ageing Dementia Research

THE UNIVERSITY OF QUEENSLAND AUSTRALIA | Centre for Extracellular Vesicle Nanomedicine

Monday 13th May

8.30am - 9.00am	**Registration** Level 3 Reception
9.00am - 9.05am	**Jürgen Götz - Director of the CJCADR** *Welcome*
9.05am - 9.10am	**Juan Carlos Polanco – EViND Lead Organiser** *Opening and Speaker Introductions*
9.10am - 10.25am	**SESSION 1: Chair – Prof Jürgen Götz, Co-Chair – Dr Esteban Cruz**
9.10am - 9.45am	**Tsuneya Ikezu – Department of Neuroscience, Mayo Clinic Florida, USA** *Neuron-microglia interaction via extracellular vesicles in Alzheimer's disease*
9.45am - 10.20am	**Juan Carlos Polanco - CJCADR QBI The University of Queensland, Australia** *Understanding the role of EVs in Tau pathology – A quest for therapeutic targets*
10.25am - 10.55am	**Morning Tea** *(QBI's Terrace),* **Sponsors' Trade Displays** *(L7 Seminar Room)*
10.55am - 12.55pm	**SESSION 2: Chair – Dr Liyu Chen, Co-Chair – Dr Liviu Bodea**
10.55am - 11.30am	**Lesley Cheng – LIMS La Trobe University, Australia** *It's in the blood: EV miRNA biomarkers associated with neurodegenerative diseases*
11.30am - 12.05pm	**Kenneth Witwer – Johns Hopkins University School of Medicine, USA** *Sources of variability in tissue EV composition: brain region and disease*
12.05pm – 12.30pm	**Joy Wolfram - AIBN The University of Queensland, Australia** *Extracellular vesicles as a new paradigm of therapeutics*
12.30pm – 12.45pm	**Carlos Salomon – UQCCR, The University of Queensland, Australia** *Shaping the Future of Extracellular Vesicle (EV) Research: Establishing the UQ Centre for EV Nanomedicine*
12.45pm – 12.55pm	**Yu-Su Chen – Malvern Panalytical, United Kingdom** *Characterization of EVs with the NanoSight Pro*
12.55pm – 1.55pm	**Lunch** *(QBI's Terrace),* **NanoSight Pro demonstration & Trade Displays** *(L7 Seminar Room)*
1.55pm – 4.10pm	**SESSION 3: Chair – Assoc Prof Joy Wolfram, Co-Chair – Dr Juan Carlos Polanco**
1.55pm - 2.30pm	**Andrew Hill – Institute for Health & Sport, Victoria University, Australia** *Extracellular vesicles and their role in prion-like mechanisms of protein misfolding and propagation*
2.30pm - 3.05pm	**Jason Howitt - Swinburne University, Australia** *The role of EVs in the initiation and progression of Parkinson's disease*
3.05pm – 3.40pm	**Riccardo Natoli – Australian National University, Australia** *A perfect circle: extracellular vesicles in the progression and treatment of retinal degeneration.*
3.40pm - 4.10pm	**Panel Discussion - outstanding questions in the field** *Led by Tsuneya Ikezu and Joy Wolfram*
4.10pm – 4.15pm	**SYMPOSIUM CONCLUSION**
4.15pm –5.15pm	**Afternoon closure event** *Networking at the QBI terrace,* **Sponsors' Trade Displays** *(L7 Seminar Room)*

We extend our sincere gratitude to our for their invaluable contribution to making the EViND Symposium possible!

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ATA SCIENTIFIC instruments

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Characterising Nanoparticles, EVs and exosomes is now quicker, easier and more accurate

Monday 13th May 2024
Queensland Brain Institute (QBI), The University of Queensland, St Lucia

Attend our talk by Dr Yu-Su Chen

Talk Title: Characterisation of EVs with the NanoSight Pro

Abstract: Nanoparticle Tracking Analysis (NTA) has proven to be a valuable and an effective tool for extracellular vesicle (EVs) characterisation. NTA provides visual confirmation and high-resolution particle size and concentration data within minutes allowing the instant assessment of sample stability but also complexity. With the introduction of the new NanoSight Pro, characterisation of EVs is easier and quicker than before.

Powered by machine learning algorithms, measurement subjectivity is reduced and automated processing enabled to assure superior Nanoparticle Tracking Analysis. The NanoSight Pro is packed with smart features, providing greater sensitivity in biologicals detection, high reproducibility, and enhanced fluorescence measurements for detecting sample subpopulations.

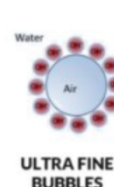### You are invited to attend our lunchtime demo: 1-2pm

The Malvern Panalytical NanoSight Pro is accessible to all levels of user and supports automated processing to remove subjectivity allowing for faster walk-away analysis and more accurate size and concentration data when operating in both Standard (light scatter) mode and in Fluorescent mode. Join us and try it yourself! Samples welcome.

GUEST SPEAKER

Dr Yu-Su Chen, is a Field Application Specialist, at Malvern Panalytical based in the UK. For close to 10 years Dr Chen has provided support and application advice to global biopharmaceutical research as well as manufacturers using a range of orthogonal analytical techniques like NTA, DLS, microcalorimetry and more. Her specialty is in the Pharma and Food sector supporting customers working with exosomes, extracellular vesicles and other drug delivery systems.
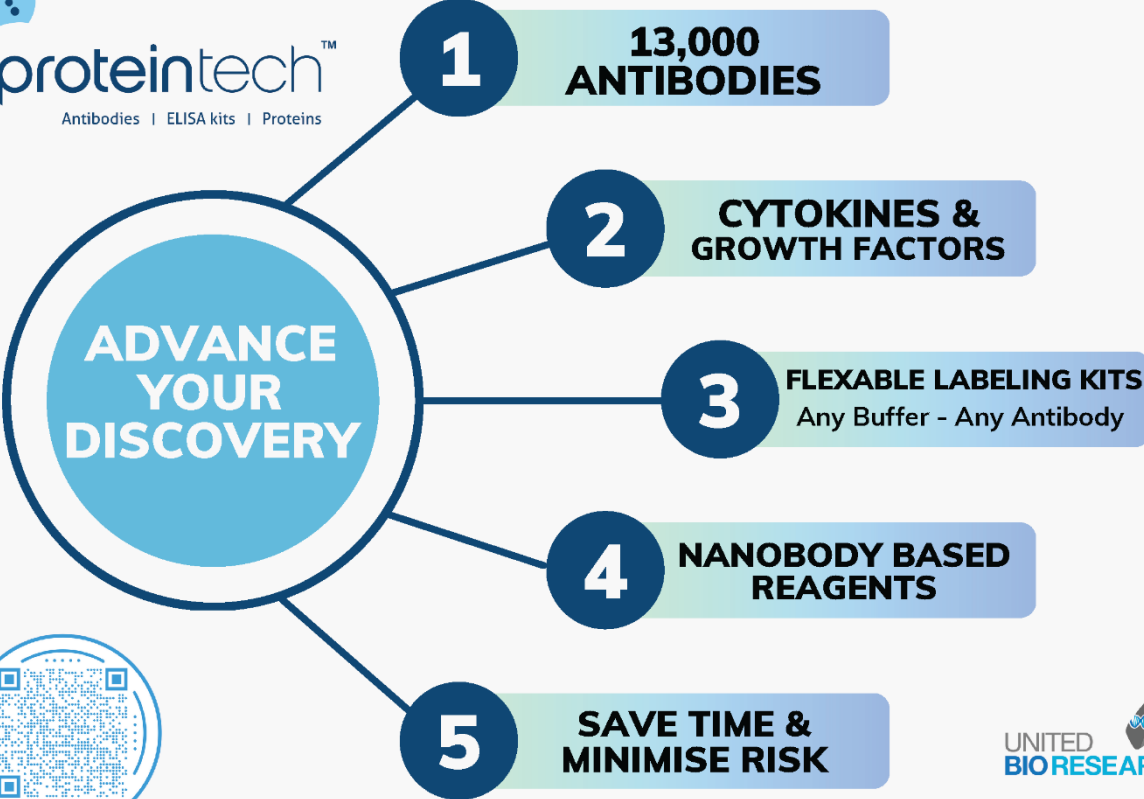
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