

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

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Organising Institutions:

Queensland Brain Institute

CJCADR Clem Jones Centre for Ageing Dementia Research



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

Centre for Extracellular Vesicle Nanomedicine

Clem Jones Centre for Ageing and Dementia Research

SCIENTIFIC PROGRAM: *Extracellular Vesicles in Neurodegenerative Diseases -EVIND*

W <https://qbi.uq.edu.au/EViND-2024> | E cjcadradmin@qbi.uq.edu.au / j.polanco@uq.edu.au

Monday 13th May

8.30am - 9.00am	Registration Level 3 Reception
9.00am - 9.05am	Jürgen Götz - Director of the CJCADR <i>Welcome</i>
9.05am - 9.10am	Juan Carlos Polanco – EViND Lead Organiser <i>Opening and Speaker Introductions</i>
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 <i>Neuron-microglia interaction via extracellular vesicles in Alzheimer's disease</i>
9.45am - 10.20am	Juan Carlos Polanco - CJCADR QBI The University of Queensland, Australia <i>Understanding the role of EVs in Tau pathology – A quest for therapeutic targets</i>
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 <i>It's in the blood: EV miRNA biomarkers associated with neurodegenerative diseases</i>
11.30am - 12.05pm	Kenneth Witwer – Johns Hopkins University School of Medicine, USA <i>Sources of variability in tissue EV composition: brain region and disease</i>
12.05pm – 12.30pm	Joy Wolfram - AIBN The University of Queensland, Australia <i>Extracellular vesicles as a new paradigm of therapeutics</i>
12.30pm – 12.45pm	Carlos Salomon – UQCCR, The University of Queensland, Australia <i>Shaping the Future of Extracellular Vesicle (EV) Research: Establishing the UQ Centre for EV Nanomedicine</i>
12.45pm – 12.55pm	Yu-Su Chen – Malvern Panalytical, United Kingdom <i>Characterization of EVs with the NanoSight Pro</i>
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 <i>Extracellular vesicles and their role in prion-like mechanisms of protein misfolding and propagation</i>
2.30pm - 3.05pm	Jason Howitt - Swinburne University, Australia <i>The role of EVs in the initiation and progression of Parkinson's disease</i>
3.05pm – 3.40pm	Riccardo Natoli – Australian National University, Australia <i>A perfect circle: extracellular vesicles in the progression and treatment of retinal degeneration.</i>
3.40pm- 4.10pm	Panel Discussion - outstanding questions in the field <i>Led by Tsuneya Ikezu and Joy Wolfram</i>
4.10pm – 4.15pm	SYMPOSIUM CONCLUSION
4.15pm –5.15pm	Afternoon closure event <i>Networking at the QBI terrace, Sponsors' Trade Displays (L7 Seminar Room)</i>

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



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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**

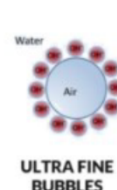
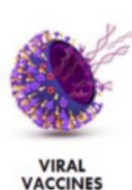
The Malvern Panalytical NanoSight Pro is accessible to all levels of user and supports automated processing to remove subjectivity allowing for faster walk-away analysis and more accurate size and concentration data when operating in both Standard (light scatter) mode and in Fluorescent mode. Join us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