Viewpoint Room, UQ Wed Nov 5th Coherent SCIENTIFIC		
9.45	WELCOME	
Session 1		
9.55	A/Prof Sam Stehbens, AIBN, UQ The Mechanobiology of Melanoma: Understanding How Tumour Cells Survive Metastasis	
10:20	Dr Christanny Schmidt, AIBN, UQ Cytoskeletal-Golgi Crosstalk During Cellular Migration Through Confined Environments	
10:40	Dr Yuanyuan (Emily) He, Otago Uni TRPV4 Channel Activity is Modulated by the Cytoskeleton and ΔN-TRPV1	
11:00	MORNING TEA	
Keynote	Chair: Prof Alpha Yap	
11:30	Prof Julia Yeomans, University of Oxford Active Matter meets Mechanobiology: evading the decay to equilibrium	
Session 2		
12:20	Dr Dietmar Oelz, UQ Mechanochemical ab-initio Axis Formation in Hydra Spheroids	
12:40	Sponsor Talk: Coherent Scientific High volume nanomechanical mapping of cell cultures using Al driven segmentation	

12:55 LUNCH & POSTERS



14:00 A/Prof Kate Poole, UNSW Force Sensing via Ion Channels in Pancreatic Cancer Cells 14:25 Dr Charles Cox, VCCRI Piezo Channel Auxiliary Subunits in Sensory and Non-sensory Cells 14:50 Dr Zijing Zhou TMEM63 Proteins act as Mechanically Activated Cholesterol Modulated Lipid Scramblases Contributing to Membrane

15:10 AFTERNOON TEA

Mechano-resilience

Session 4

15:40 Prof Kathryn Stok, Uni Melb
 From In Vivo Insights to In Vitro Impact - Reproducibility and Standardisation in Mechanobiology

 16:05 A/Prof Vijay Rajagopal, Uni Melb
 Cellular Digital Twins for Mechanobiology Research

16:30 **CLOSE**

18:30 Conference Dinner

The Greek Club 29 Edmondstone Street South Brisbane QLD 4101

MegnBio2025 Viewpoint Room, UQ Thur Nov 6th

12:45

9.30	WELCOME
Session 1	
9.35	Prof Alvaro Sagasti, UCLA Myosin Activity Regulates Cortical Tension in Epithelial Cells to Promote the Formation and Patterning of Labyrinthine Microridge Protrusions
10:00	Dr Renee Chow, ARMI, Monash Using Zebrafish as a Model to Tackle Calcific Valve Disease
10:25	A/Prof Navid Bavi, UCLA Molecular Mechanism of Prestin-mediated Electromotility
10:45	MORNING TEA
Keynote	
11:15	Prof Edouard Hannezo, IST Robustness of Morphogenesis via Mechano-chemical Feedbacks
Session 2	
12:05	Dr Peter Newman, Garvan May the Highly Resolved Force Be With You
12:25	Dr Sami Al-Izzi, UNSW Capillarity Reveals the Role of Capsid Geometry in HIV Nuclear Translocation

LUNCH & AGM

Viewpoint Room, UQ Thur Nov 6th Journal of Cell Science

Session 3

14:15 A/Prof Yu Suk Choi, UWA

Attachment Issues: The role of tumor microenvironment and adhesion dependency in cancer metastasis

14.40 Prof Michael Samuel, UniSA

Understanding the ECM Structural Characteristics that Promote Tumour Progression and the Mechanisms by Which They Are Established

15:05 Dr Manijeh Khanmohammadi, Baker Institute

Tuning Macrophage Responses Via Matrix Stiffness and Tensile Force

15:25 AFTERNOON TEA

Session 4

15:55 Prof Travis Klein, QUT

Bioreactors for Dynamic Mechanical Stimulation

16:20 Dr Peter Su, UTS

The Interplay of Physical, Chemical and Biological Dynamics in Living Cells

16:45 Prof Sara Baratchi

Dissecting Biomechanical Drivers of CAVD Using Bioengineered Human Valve Models

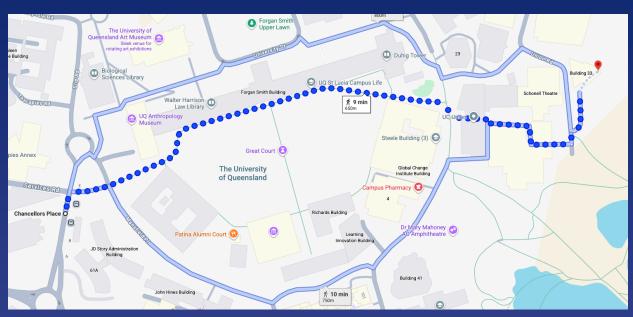
17:10 PRIZES & CLOSE

Acti	ve Matter Symposium	
	Viewpoint Room, UQ	
Fri Nov 7th		
9:00	Alpha Yap & Richard Morris Welcome and Introduction: What is Active Matter (2.0)?	
9:30	Julia Yeomans Stress and shape misalignment in active cell layers	
10:10	Joe Pollard From monolayers to many layers	
10:30	MORNING TEA	
11:00	Mat Simpson Mechanics of tissue growth and deformation	
11:30	Doug Brumley Three-dimensional active transport by ciliary arrays on coral surfaces	
12:00	Ben Fulcher Quantifying the dynamical signatures of life	
12:30	LUNCH	
13:30	Edouard Hannezo Active matter models of collective cell migration	
14:10	Julia Eckert Bridging 2D and 3D: Detecting Nematic Patterns in Tissue Surfaces	
14:30	Alvaro Sagasti Squeezing through the skin: intra-epithelial migration disperses cells through an epithelium	
15:00	CLOSE	

Directions to the Viewpoint Room Building 33, UQ, Saint Lucia

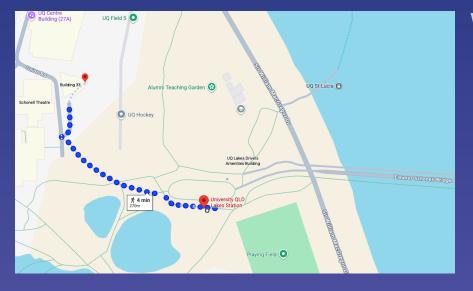
From Brisbane's CBD, the 192, 411, 412 and 66 all head directly to UQ. There are two Bus Terminals on the St Lucia Campus: Chancellor's Place and UQ Lakes.

Walk from Chancellor's Place bus stops



Plan your public transport journey

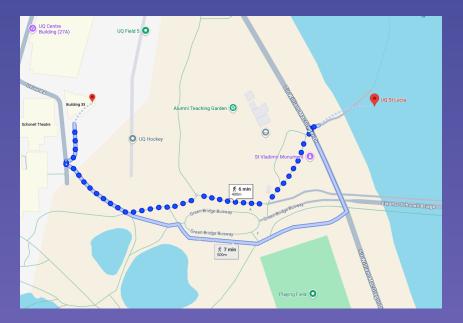




Walk from UQ lakes

Download a UQMaps app





Walk from Citycat Ferry