

THEME – Model systems in placental research

Thursday 30th November 2023 – DAY 1

Time	Title	Presenter / Who
6.30 – 7.30	Optional activity: Surf Club Swim/Walk ALL ARE WELCOME!	Lucy Bartho will lead the congregation.
8.00 – 8.50	Registration	
8.50 – 9.10	<i>Welcome + Acknowledgments</i>	
9.10 – 10.30	Session 1 – In vitro, Ex vivo and extracellular vesicle models	Chairs: Olivia Holland/ Ellen Menkhorst
9.10 – 9.30	Developing placental xenograft models for therapeutic testing and discovery	Elif Kadife
9.30 – 9.45	Adapting 3D placentoid cultures for human trophoblast stem cells	Teena Gamage
9.45 – 10.00	Targeting the C-type natriuretic peptide system to treat vascular dysfunction in ex vivo preeclamptic models	Bianca Fato
10.00 – 10.15	A novel approach to modelling chronic placental hypoxia/reoxygenation exposure in fetal growth restriction	India Brooker
10.15 – 10.30	Thrombospondin-1 (THBS1) - a regulator of angiogenesis in preeclampsia	Stefan Botha
10.30 – 11.00	<i>Morning tea</i>	
11.00 – 12.15	Session 2 - In vivo / animal-based models	Chairs: Claire Roberts/Bianca Fato
11.00 – 11.20	Bridging the gap between in vivo and ex vivo studies with computational techniques	Alys Clark
11.20 – 11.40	Using animal models to tease apart how different biochemical markers of thyroid dysfunction increase risk of pregnancy complications	James Cuffe
11.40 – 12.00	<i>Yes mouse pregnancies are different to humans....but can we learn from mice?</i>	Natalie Binder
12.00 – 12.15	The impact of paternal stress on placental development mediated by the sperm epigenome	David Skerrett -Byrne
12.15 – 1.30	Lunch	
1.30 – 3.30	Workshop 1: Elevate your career <i>This workshop will build on what we uncovered at the 2022 ANZPRA Satellite – the need for more career conversations to elevate, continue research excellence and how to ensure positive value and wellbeing. The session is applicable to all, focused on career opportunities and aspirations – we welcome input and curiosity from all stages of career. This session will involve Panel discussions and engagement activity.</i>	Chairs: Lucy Bartho / Kirsty Pringle Guest panellists include: Tony Perkins, Tu'uhevaha Kaitu'u-Lino, Lisa Akison, Natalie Binder, Teena Gamage, Elliott Neal, and Neville Fields
3.30 – 4.00	<i>Afternoon tea</i>	
4.00 – 5.00	Maternal control of embryo implantation: understanding the gatekeeper	Guiying Nie <i>Chair: Natalie Hannan</i>
5.30 onwards	The Surf Club Mooloolaba (The Esplanade, Mooloolaba)	

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Time	Title	Presenter
9.00 – 9.55	Factors and determinants of placental disease	Chairs: Jo James/ Rebecca Brady
9.00 – 9.20	PFAS exposure and its impacts on the placenta and offspring	Jacinta Martin
9.20 – 9.35	Unravelling soluble (pro)renin receptor-mediated endothelial dysfunction	Lachlan Schofield
9.35 – 9.50	Metabolic Convergence: Unravelling Iron Dysregulation in Fetal Growth Restriction due to Mitochondrial and Placental Dysfunction	Veronica Botha
9.50 – 10.05	Rapid Hot Topics Session	Chair: Sarah Steane/Georgia Wong
9.50 – 9.55	Placental-specific ciclesonide to des-ciclesonide conversion is not impacted by gestational age or placental sex	Ashley Meakin
9.55 – 10.00	Identification of Altered Protein Composition in Extracellular Vesicles from Aspirin-Treated Women at High Preeclampsia Risk	Angel Nilesh D'Crus
10.00 – 10.05	<i>Rapid Hot Topics Question Time</i>	
10.10 – 10.30	The how to and the what - from the ANZPRA collaborative award winners (2022)	Josh Fisher and Tess Symington Chair: Sarah Marshall
10.30 – 11.00	<i>Morning tea</i>	
11.00 – 12.00	Session 4 – Clinical Perspectives	Chairs: Georgia Kafer/Tu'uhe Kaitu'u-Lino
11.00 – 11.20	Prediction and prevention of placental dysfunction	Fabricio da Silvia Costa
11.20 – 11.40	Patterns of tobacco and nicotine use in pregnancy and preliminary placental findings	Angela Ratsch
11.40 – 12.00	Sulforaphane in the management of preeclampsia	Neville Fields
12.00 – 1.30	<i>Lunch</i>	
1.00 – 3.00	Workshop 2: Networking with purpose <i>The benefit and importance of networks for our research impact is clear. But how to network is less clear. This workshop will explore the value of networks, but most importantly how to network with a purpose for greatest impact. This session will involve a group discussion and activity.</i>	Chairs: Natasha de Alwis and Dayna Zimmerman
3.00 – 3.30	<i>Afternoon tea</i>	
3.30 – 4.00	<i>What's in your freezer?</i>	<i>Tony Perkins</i>
4.00 – 5.00	Annual General Meeting (all are welcome)	Natalie Hannan, Kirsty Pringle and Sarah Marshall
5.00 onwards	<i>Close – informal drinks (James Squire Pub Mooloolaba Wharf)</i>	