

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	Chair: TBD
9.10 – 9.30	Developing placental xenograft models for therapeutic testing and discovery	Elif Kadife
9.30 – 9.45	Insulin sensitivity in pregnancy is associated with miRNA profile in circulating extracellular vesicles	Lilian Kessling
9.45 – 10.00	Adapting 3D placentoid cultures for human trophoblast stem cells	Teena Gamage
10.00 – 10.15	Targeting the C-type natriuretic peptide system to treat vascular dysfunction in ex vivo preeclamptic models	Bianca Fato
10.15 – 10.30	A novel approach to modelling chronic placental hypoxia/reoxygenation exposure in fetal growth restriction	India Brooker
10.30 – 11.00	<i>Morning tea</i>	
11.00 – 12.15	Session 2 - In vivo / animal-based models	Chair: TBD
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
	Rapid Hot Topics Session #1	Chair: TBD (ECR/Student)
12.20 – 12.25	Thrombospondin-1 (THBS1) - a regulator of angiogenesis in preeclampsia	Stefan Botha
12.25 – 12.30	Placenta exports miRNAs associated with insulin sensitivity in small extracellular vesicles and regulate glucose metabolism in gestational diabetes	Soumyalekshmi Nair
12.30 – 12.35	<i>Rapid Hot Topics #1 Question Time</i>	
12.35 – 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>	Chaired by: Lucy Bartho / Kirsty Pringle Guest panellists include: <i>Tony Perkins, Tu'uhevaha Kaitu'u-Lino, Lisa Akison, Natalie Binder, Teena Gamage, Elliot Neal, and Neville Fields</i>
3.30 – 4.00	<i>Afternoon tea</i>	
4.00 – 5.00	Plenary Session: Maternal control of embryo implantation: understanding the gatekeeper	Guiying Nie Chair: Natalie Hannan
5.30	The Surf Club Mooloolaba	

Friday 1st December 2023

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9.00 – 9.55	Factors and determinants of placental disease	Chair: TBD
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 #2	Chair: TBD (ECR/Student)
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 #2 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: Kirsty Pringle
10.30 – 11.00	<i>Morning tea</i>	
11.00 – 12.00	Session 4 – Clinical Perspectives	Chair: TBD
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>	Chaired by Natasha de Alwis and Lucy Bartho
3.00 – 3.30	<i>Afternoon tea</i>	
3.30 – 4.00	<i>What's in your freezer?</i>	Tony Perkins
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>	