



Inside & Out:
Models to study maternal health
and efficacy of therapeutic interventions

Biochemical Society Early Career Life Scientists' Virtual Symposium

16th - 17th June 2021

Late breaking abstracts are accepted for poster communications

Register NOW for free at
www.insideandout2021.com

Wednesday 16th June 2021

Start Finish Details

12:45 13:00 Welcome and introduction

13:00 14:00 Keynote lecture 1

'Can interventions in pregnancy lead to improved lifelong health of the child?'
Prof Lucilla Poston, King's College London

14:00 15:00 Session 1: *In vivo* models of maternal health & disease (1)

14:00 14:15 'Studying postpartum health in a mouse model of gestational diabetes' Dr Lorna Smith, King's College London

14:15 14:30 'Advanced MRI techniques to assess normal and pathological lung development: a pilot study' Carla Avena-Zampieri, King's College London

14:30 14:45 'Butyrate treatment during gestation prevents metabolic anomalies in mothers and fetuses' Florencia Heinecke, Universidad de Buenos Aires

14:45 15:00 'Can sulforaphane improve glucose handling in a mouse model of maternal obesity?' Jessica Morris, King's College London

15:00 15:15 Break

15:15 16:15 Poster session 1

16:15 17:00 Session 2: *In vitro* & *in silico* models of maternal health & disease

16:15 16:30 'How does cAMP/PKA regulate NF- κ B during labour-associated myometrial inflammation?' Jonathan Li, Imperial College London

16:30 16:45 'Exploring the Urinary Steroid Metabolite Profile in Gestational Diabetes: a pilot study' Louisa Samuels, King's College London
Guys and St Thomas's Hospital NHS Trust



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16:45 17:00 'Vitamin D status of pregnant women with obesity in the United Kingdom and its association with pregnancy outcomes' Katarzyna Nowak, King's College London

17:00 17:15 Break

17:15 18:00 Careers panel

'Lessons from past & future'. How to build an academic career: panel discussion

18:00 - Round up and session end



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Thursday 17th June 2021

Start Finish Details

12:00 13:00 Keynote lecture 2

'Reproduction Research Down Under' Laureate Prof Roger Smith, University of Newcastle Australia

13:00 14:00 Bioinformatics workshop on the programming language 'R'

'Maternal health in the *in silico* world: a demo R session' Dr Flavia Flaviani, Guy's and St Thomas' NHS Foundation Trust, King's College London

14:00 14:15 Break

14:15 15:15 Session 3: *In vivo* models of maternal health & disease (2)

14:15 14:30 'Lipidomic profiling of plasma and liver from pregnant mice reveals a selective role for phosphatidylcholine in the provision of LC-PUFAs to the fetus' Risha Amarsi, King's College London

14:30 14:45 'Assessment of the fetal thymus gland: comparing MRI-acquired thymus volumes with 2D ultrasound measurements' Rebecca Myers, King's College London/St George's University of London



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- 14:45 15:00 'Low vitamin B12 status and insulin resistance in the newborn of women with pregestational obesity' Erika Castano-Moreno, Universidad de Chile
- 15:00 15:15 'Offspring exposure to maternal obesity and the impacts of maternal resveratrol supplementation on heart rate variability' Amelia Reynolds, King's College London

15:15 15:30 Promotional talk from Randox Bioscience

15:30 15:35 Break

15:35 16:00 Poster session 2: Flash talks

- 15:35 15:40 'Investigating the effect of diet-induced obesity and symbiotic supplementation on the reproductive status of offspring: a four-arm mouse model' Amber Champion, King's College London
- 15:40 15:45 'Composition of decidual natural killer cells alters over the course of gestation' Emily Whettlock, Imperial College London
- 15:45 15:50 'The offspring of women with pregestational obesity have an impaired function of monocytes and differential hematopoietic progenitors in umbilical cord blood' Macarena Lépez, Pontificia Universidad Católica de Chile
- 15:50 15:55 'Do Bisphenols affect the oviduct epithelial nutrients' secretions?' Vasiliki Papachristofi, University of Hull
- 15:55 16:00 'Epidemiology of pre-existing multimorbidity in pregnant women in the UK in 2018: a cross sectional study using CPRD, SAIL and SMR' Siang Ing Lee, University of Birmingham

16:00 16:15 Break

16:15 17:15 Keynote lecture 3

'Why investing in maternal health after COVID-19 is so important to sustainable population health and prosperity' Prof Mark Hanson, University of Southampton

17:15 17:30 Prizes and closing remarks



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