



THE UNIVERSITY
of EDINBURGH

MRC

Centre for
Reproductive
Health

Scientific Symposium Targeting Inflammation to Improve Reproductive Health Across the Lifecourse

In collaboration with the Society for Reproductive Investigation and the MRC Centre for Reproductive Health

Wednesday 16th, Thursday 17th & Friday 18th August 2017

John McIntyre Conference Centre, Edinburgh EH16 5AY

PROGRAMME

DAY 1, Wednesday 16th August 2017

12:30 Registration and lunch

13:50 Welcome.

Jeffrey Pollard, Director of the MRC Centre for Reproductive Health, University of Edinburgh, UK

Jane Norman, University of Edinburgh

ENDOMETRIOSIS Chair – Philippa Saunders, University of Edinburgh, UK

14:00 *Endometriosis: An Inflammatory Paradigm.* Robert Taylor, Wake Forest University, USA

14:30 *Endometriosis as wounds undergoing repeated tissue injury and repair: new synthesis and clinical implications.*

Sun-Wei Guo, Fudan University, China

15:00 **Free communication** - Macrophage-Derived Insulin-Like Growth Factor-1 (IGF-1): a Key Player In Endometriosis?

Erin Greaves, University of Edinburgh, UK

15:15 **Free communication** - Characterisation of Uterine Macrophage Populations and Their Role in Endometrial Repair and Remodelling.

Phoebe Kirkwood, University of Edinburgh, UK

15:30 **Free communication** - Peritoneal Macrophage Dynamics In a Mouse Model Of Endometriosis

Chloe Hogg, University of Edinburgh, UK

15:45 *Innovative ways to relieve women from the burden of endometriosis.*

Thomas Zollner, Bayer HealthCare, Germany

16:15 Coffee

PLENARY LECTURE Chair - Sarah Stock, University of Edinburgh, UK

16:45 *How data science can help us improve reproductive health.*

Chris Ponting, University of Edinburgh, UK

17:45 RECEPTION AND POSTERS

19:30 End

19:30 *Speakers and Chairs Dinner, St Trinneans Room, St Leonard's House*



PRETERM LABOUR / MISCARRIAGE / IMPLANTATION Chair - Jane Norman, University of Edinburgh, UK

- 08:30** *Inflammation and Preterm Birth.*
Phillip Bennett, Imperial College London, UK
- 09:00** *Ex-vivo Uterine Environment Therapy - An Experimental Treatment Strategy for Extremely Preterm Infants.*
Yuichiro Miura, Tohoku University, Japan
- 09:30** **Free communication** - *Measuring Simvastatin, Simvastatin Hydroxy Acid and Progesterone in Maternal Serum from a Mouse Model of Preterm Birth.*
Ashley Boyle, University of Edinburgh, UK
- 09:45** **Free communication** - *Nodal Regulates Placental Macrophages in a Mouse Model of Preterm Birth*
Lisa Starr, McGill University, Canada
- 10:00** **Free communication** - *Preeclampsia is Associated with Reduced Endothelial GATA2 - Implications for Endothelial Dysfunction.*
Carole-Anne Whigham, University of Melbourne, Australia
- 10:15** *Targeting inflammation in implantation disorders.*
Eva Dimitriadis, Hudson Institute, Australia
- 10:45** *Coffee*
- 11:15** *Advancing Drug Discovery and Development through Phenotypic Screening.*
Neil Carragher, University of Edinburgh, UK
- 11:45** *Zebra fish as an experimental paradigm to study how inflammation and the immune system drives successful tissue repair.*
Thomas Becker, University of Edinburgh, UK

12:15 *Lunch with posters*

HEAVY MENSTRUAL BLEEDING/FIBROIDS Chair - Hilary Critchley, University of Edinburgh, UK

- 14:00** *Uterine Fibroids 2017.*
Elizabeth Stewart, Mayo Clinic College of Medicine, USA
- 14:30** *Enhancing the resolution of inflammation as a potential therapeutic target in the reproductive system.*
Adriano Rossi, University of Edinburgh, Edinburgh, UK
- 15:00** **Free communication** – *The impact of hypoxia and hypoxia inducible factor on the inflammatory response at menstruation*
Jackie Maybin, University of Edinburgh, UK
- 15:15** **Free communication** - *Administration of Selective Progesterone Receptor Modulator (SPRM) Ulipristal Acetate (UPA) Modifies TGF β Family Members*
Lucy Whitaker, University of Edinburgh, UK
- 15:30** **Free communication** - *A High Throughput Multiplexed Approach to Characterize Intra vs. Inter-Uterine Heterogeneity of Tissue Lysates.*
Evan Chiswick, Massachusetts Institute of Technology, USA
- 15:45** *Drug development in endometriosis: not just a matter of good science.*
Patrick Groothuis, Synthon Biopharmaceuticals B.V. Nijmegen, The Netherlands

16:15 *Coffee*

PLENARY LECTURE Chair – Fiona Denison, University of Edinburgh, UK

- 16:45** *Predicting and preventing pregnancy complications.*
Gordon Smith, University of Cambridge, UK

17:45 *Close*

DAY 3

Friday 18th August 2017 - Tea / Coffee available from 08:00

REPRODUCTIVE CANCER Chair - Margaret Frame, University of Edinburgh, UK

- 08:30** *Improving outcomes in women with ovarian cancer.*
Charlie Gourley, University of Edinburgh, UK
- 09:00** *DigiPico: A new language to interrogate the tumour-host interaction of microscopic residual disease.*
Ahmed Ahmed, University of Oxford, UK
- 09:30** **Free communication** - *A Monocyte Signature for Diagnosis of Breast and Endometrial Cancer*
Stamatina Fragkogianni, University of Edinburgh, UK
- 09:45** **Free communication** - *Metastasis-Associated Macrophages Promote Breast Cancer Metastasis Through Secreting Hepatocyte Growth Factor*
Demi Brownlie, University of Edinburgh, UK
- 10:00** **Free communication** - *Circulating Monocytes Differentiate into Immune Suppressive Precursors of Metastasis-Associated Macrophages at The Metastatic Site in Mouse Models of Breast Cancer*
Takanori Kitamura, University of Edinburgh, UK
- 10:15** *Macrophages: therapeutic targets and diagnostics in women's cancers.*
Jeffrey Pollard, University of Edinburgh, UK
- 10:45** Poster and Oral Prizes
- 11:00** Coffee

PLENARY LECTURE Chair – Andrew Horne, University of Edinburgh, UK

- 11:30** *Translating new treatments for preeclampsia and ectopic pregnancy from preclinical discovery to clinical trials.*
Stephen Tong, University of Melbourne, Australia

PUBLIC ENGAGEMENT EVENT

Chair – Douglas Gibson, University of Edinburgh, UK

- 12:30** *Cervical cancer and how to prevent it - a safari from Scotland to Malawi.*
Heather Cubie and Sarah Howie, University of Edinburgh, UK

13:30 **CLOSING REMARKS AND SANDWICH LUNCH**