



## Posters

### P02

#### **A retrospective review of outcomes following endometrial scratch procedure in IVF at Fertility Exeter**

Louisa Manning<sup>1</sup>, Georgios Koussidis<sup>1</sup>, Lisa Joels<sup>1</sup>

<sup>1</sup>Fertility Exeter, Royal Devon & Exeter Hospital, UK

### P03

#### **Bi-directional regulation of miR-125a-3p expression by mural and cumulus granulosa cells of mice pre-ovulatory follicles**

Efrat Har-Paz<sup>1</sup>, Hadas Grossman<sup>1</sup>, Ruth Shalgi<sup>1</sup>

<sup>1</sup>Department of Cell and Developmental Biology, Sackler Faculty of Medicine, Tel Aviv University, Israel

### P04

#### **The function of Histone Variants in female infertility**

Chih-Jen Lin<sup>1</sup>,

<sup>1</sup>MRC Centre for Reproductive Health, University of Edinburgh, UK

### P06

#### **Does Neuromedin B exert a local modulatory effect on ovarian steroidogenesis or cell proliferation?**

Dareen Mattar<sup>1</sup>, Mhairi Laird<sup>1</sup>, Moafaq Samir<sup>1</sup>, Warakorn Cheewasopit<sup>1</sup>, Phil Knight<sup>1</sup>

<sup>1</sup>University of Reading, UK

### P07

#### **Alterations in the vasculature of placental but not endometrial tissue associated with small porcine fetuses compared to their normal-sized littermates**

Claire Stenhouse<sup>1</sup>, Charis Hogg<sup>1</sup>, Xavier Donadeu<sup>1</sup>, Cheryl Ashworth<sup>1</sup>

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### P08

#### **Generation of GFP transgenic cynomolgus monkeys**

Yasunari Seita<sup>1</sup>, Tomonori Tsukiyama<sup>1</sup>, Chizuru Iwatani<sup>1</sup>, Hideaki Tsuchiya<sup>1</sup>, Jun Matsushita<sup>1</sup>, Masatsugu Ema<sup>1</sup>

<sup>1</sup>Shiga University of Medical Science, Japan

### P09

#### **Involvement of MyD88 in B-cell mediated immune response in a mouse model of LPS-induced fetal death**

Susanne Plenagl<sup>1</sup>, Mandy Busse<sup>1</sup>, Desiree Nowak<sup>1</sup>, Anne Schumacher<sup>1</sup>, Ana Claudia Zenclussen<sup>1</sup>

<sup>1</sup>Department of Obstetrics and Gynecology, Medical Faculty, Otto-von-Guericke University, Magdeburg, Germany

### P10

#### **Role of micro-RNAs in Thrombospondin-1 Expression in Bovine Luteal Cells**

Svetlana Farberov<sup>1</sup>, Rina Meidan<sup>1</sup>

<sup>1</sup>The Hebrew University of Jerusalem, Israel

### P11

#### **Effect of Lipopolysaccharide on steroidogenesis and cell migration in the bovine ovary**

Moafaq Samir<sup>1</sup>, Dareen Mattar<sup>1</sup>, Phil Knight<sup>1</sup>

<sup>1</sup>University of Reading, UK

### P12

#### **Investigation of the relationship between HA binding and sperm function tests including sperm DNA damage and chromatin maturity**

Forough Torabi<sup>1</sup>, David Miller<sup>1</sup>

<sup>1</sup>University of Leeds, UK

### P13

#### **Characterisation of extracellular vesicles produced by the Porcine oviductal epithelial cells using size exclusion chromatography**

Nurul Akmal Jamaludin<sup>1</sup>, Shagayegh Basatvat<sup>1</sup>, Wedad Aboussahoud<sup>1</sup>, Sarah Elliott<sup>1</sup>, Stuart Hunt<sup>1</sup>, Ben Peacock<sup>1</sup>, Steven Ebbens<sup>1</sup>, Alireza Fazeli<sup>1</sup>

<sup>1</sup>University of Sheffield, UK

**P14****PI3K/AKT signaling pathway involvement in motility loss associated with prohibitin downregulation in sperm from infertile men**

Hong Chen<sup>1</sup>, Ran Ran Chai<sup>1</sup>, Guo Wu Chen<sup>2</sup>, Wai Sum O<sup>3</sup>

<sup>1</sup>Department of Anatomy, Histology & Embryology, Shanghai Medical College, Fudan University, Shanghai, China <sup>2</sup>Shanghai Ji Ai Genetics and IVF Institute, Hospital of Obstetrics & Gynecology, Shanghai Medical College, Fudan University, Shanghai, China <sup>3</sup>School of Biomedical Sciences, The University of Hong Kong, China

**P15****Effect of atrazine on sperm mitochondrial function, acrosome reaction and fertilization competence - the bovine model**

Alisa Komsky-Elbaz<sup>1</sup>, Zvi Roth<sup>1</sup>

<sup>1</sup>Department of Animal Sciences, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Israel

**P16****Effect of pre-in vitro maturation using PACAP on nuclear and cytoplasmic maturation in porcine cumulus-oocyte complexes derived from small follicle**

Kyu-mi Park<sup>1</sup>, Sang Hwan Hyun<sup>1</sup>

<sup>1</sup>Institute for Stem Cell & Regenerative Medicine (ISCRM), Chungbuk National University & Laboratory of Veterinary Embryology and Biotechnology (VETEMBIO), College of Veterinary Medicine, Cheongju, South Korea

**P17****Treatment of GDF8 during in vitro Maturation Increased phosphorylated SMAD2/3 and improved in vitro Fertilized Embryo Developmental Competence**

Junchul David Yoon<sup>1</sup>, Sang-Hwan Hyun<sup>2</sup>

<sup>1</sup>Laboratory of Veterinary Embryology and Biotechnology (VETEMBIO), College of Veterinary Medicine, Chungbuk National University, Cheongju, South Korea <sup>2</sup>Institute for Stem Cell & Regenerative Medicine (ISCRM), Chungbuk National University, Cheongju, South Korea

**P18****Establish of a transgenic neural cell line with an astrocyte-specific inducible CreERT2 system**

Seon-ung Hwang<sup>1, 2</sup>, Junchul David Yoon<sup>1, 2</sup>, Yongquan Han<sup>1, 2</sup>, Kiyoung Eun<sup>3</sup>, Hyunggee Kim<sup>3</sup>, Sang-Hwan Hyun<sup>1, 2</sup>

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**P19****Effect of Lysophosphatidic acid (LPA) on In Vitro Maturation of Porcine Oocytes and Subsequent Embryonic Development after Parthenogenesis and in vitro Fertilization**

Kyu-Jun Kim<sup>1</sup>, Minghui Jin<sup>1</sup>, Sang-Hwan Hyun<sup>1</sup>

<sup>1</sup>Institute for Stem Cell & Regenerative Medicine (ISCRM), Chungbuk National University & Laboratory of Veterinary Embryology and Biotechnology (VETEMBIO), College of Veterinary Medicine, Chungbuk National University, Cheongju, South Korea

**P20****Effects of the chemotherapy drugs cisplatin and doxorubicin on the follicles of the human ovary**

Jin Liu<sup>1</sup>, Federica Lopes<sup>1</sup>, Stephanie Morgan<sup>1</sup>, Lucy Nevin<sup>1</sup>, Evelyn Telfer<sup>1</sup>, Richard A Anderson<sup>1</sup>, Norah Spears<sup>1</sup>

<sup>1</sup>University of Edinburgh, UK

**P21****Impact of a contrasted metabolism on endometrial and peripheral signalling pathways at implantation in dairy cattle**

Audrey Lesage-Padilla<sup>1</sup>, Vincent Mauffre<sup>1</sup>, Niamh Forde<sup>2</sup>, Melanie Poiree<sup>1</sup>, Corinne Giraud-Delville<sup>1</sup>, Caroline Eozenou<sup>1</sup>, Fabienne Constant<sup>1</sup>, Pat Lonergan<sup>2</sup>, Gilles Charpigny<sup>1</sup>, Olivier Sandra<sup>1</sup>

<sup>1</sup>UMR BDR, INRA, ENVA, Universite Paris Saclay, France <sup>2</sup>School of Agriculture and Food Science, University College Dublin, Ireland

**P23****Analysis of follicle development in a mouse model with increased fertility**

Miranda Stoddart<sup>1</sup>, Panayiota Ploutarchou<sup>1</sup>, Suzannah Williams<sup>1</sup>

<sup>1</sup>Nuffield Department of Obstetrics & Gynaecology, University of Oxford, UK

**P24****Therapeutic Doses of Phosphoramidate Mustard Cause Germ Cell Death in the Prepubertal Mouse Testis**

Siobhan Rice<sup>1</sup>, Ellie Smart<sup>1</sup>, Federica Lopes<sup>1</sup>, Rod Mitchell<sup>1</sup>, Norah Spears<sup>1</sup>

<sup>1</sup>University of Edinburgh, UK

**P27****Targeting lactate metabolism can be a novel therapeutic for the treatment of endometriosis**

Syed Furquan Ahmad<sup>1</sup>, Erin Greaves<sup>1</sup>, Philippa Saunders<sup>1</sup>, Andrew Horne<sup>1</sup>

<sup>1</sup>University of Edinburgh, UK

**P29****Membrane potential contributes to generation of high amplitude [Ca<sup>2+</sup>]<sub>i</sub> oscillations and sperm behaviour in human spermatozoa**

Elis Nitao<sup>1</sup>, Stephen Publicover<sup>1</sup>

<sup>1</sup>University of Birmingham, UK

**P30****Investigating the role of the membrane receptor ADGRD1 in female fertility**

Enrica Bianchi<sup>1</sup>, Gavin James Wright<sup>1</sup>

<sup>1</sup>Wellcome Trust Sanger Institute, Hinxton, Cambridge, UK

**P31****Effect of pHi on regulation of hyperactivated motility in human spermatozoa**

Cosmas Achikanu<sup>1</sup>, Stephen Publicover<sup>1</sup>

<sup>1</sup>University of Birmingham, UK

**P32****Gonadotropins induce expression of versican in porcine oocyte-cumulus extracellular matrix and mural granulosa cells**

Eva Nagyova<sup>1</sup>, Antonietta Salustri<sup>2</sup>, Jaroslav Kalous<sup>1</sup>, Michal Kubelka<sup>1</sup>, Antonella Camaioni<sup>2</sup>

<sup>1</sup>Institute of Animal Physiology and Genetics, Academy of Sciences of the Czech Republic, Libechev, Czech Republic <sup>2</sup>Department of Biomedicine and Prevention, University of Rome Tor Vergata, Rome, Italy

**P33****Determining the effect of extra-villous trophoblast cells on spiral artery remodelling: what is the role of MMP10?**

Ben Sayer<sup>1</sup>, Sandra Ashton<sup>1</sup>, Judith E Cartwright<sup>1</sup> and Guy Whitley<sup>1</sup>

<sup>1</sup>St George's University of London, UK

**P34****Geographical variation in canine testicular environmental chemicals: A possible link with altered reproductive development**

Rebecca Sumner<sup>1</sup>, Phoebe O'Sullivan<sup>1</sup>, Natasha Coley<sup>1</sup>, Andrew Byers<sup>1</sup>, Rachel Moxon<sup>2</sup>, Gary England<sup>1</sup>, Zulin Zhang<sup>3</sup>, Richard Lea<sup>1</sup>

<sup>1</sup>The University of Nottingham, UK <sup>2</sup>National Breeding Center, Guide Dogs for the Blind Association, Bishop's Tachbrook, UK <sup>3</sup>James Hutton Institute, Aberdeen, UK

**P35****Female Reproductive Ageing: When during oogenesis do chromosomes begin to fall apart?**

Randy Ballesteros Mejia<sup>1</sup>, Lisa Lister<sup>1</sup>, Daniel Cooney<sup>1</sup>, Mary Herbert<sup>1</sup>

<sup>1</sup>Newcastle Fertility Centre, Institute of Genetic Medicine, Newcastle University, UK

**P36****Cellular modeling of citrin deficiency using human induced pluripotent stem cell-derived hepatocytes**

Yong-Mahn Han<sup>1</sup>, Yeji Kim<sup>1</sup>, Beom-Hee Lee<sup>2</sup>, Han-Wook Yoo<sup>2</sup>

<sup>1</sup>Korea Advanced Institute of Science & Technology (KAIST), Daejeon, South Korea <sup>2</sup>Asan Medical Center, University of Ulsan College of Medicine, Seoul, South Korea

**P37****Disease takes its Toll on reproduction: Toll-like receptors and the bovine corpus luteum**

Annemieke Nicholls<sup>1</sup>, Loren Payne<sup>1</sup>, Robert Robinson<sup>1</sup>, Tracey Coffey<sup>1</sup>, Katie Woad<sup>1</sup>

<sup>1</sup>School of Veterinary Medicine and Science, University of Nottingham, Loughborough, UK

**P38****The impact of the selective progesterone receptor modulator (SPRM), Ulipristal Acetate (UPA) administration upon cell proliferation markers within the human endometrium**

Rebecca Matthews<sup>1</sup>, Alison Murray<sup>1</sup>, Lucy Whitaker<sup>1</sup>, Michael Millar<sup>1</sup>, Moira Nicol<sup>1</sup>, Alistair Williams<sup>1</sup>, Hilary Critchley<sup>1</sup>

<sup>1</sup>MRC Centre for Reproductive Health, University of Edinburgh, UK

**P39****Mouse follicles have a smaller follicular antrum in the absence of oocyte core 1-derived O-glycans at two weeks of age**

Amelia Shard<sup>1</sup>, Suzannah Williams<sup>1</sup>, Panayiota Ploutarchou<sup>1</sup>

<sup>1</sup>Nuffield Department of Obstetrics and Gynaecology, University of Oxford, UK

**P40****SIRT1 regulates low oxygen induced bovine granulosa cell proliferation through interaction with VEGF-AKT-mTOR pathway**

Shogo Shiratsuki<sup>1</sup>, Tomotaka Hara<sup>1</sup>, Koumei Shirasuna<sup>1</sup>, Takehito Kuwayama<sup>1</sup>, Hisataka Iwata<sup>1</sup>

<sup>1</sup>Tokyo University of Agriculture, Atsugi, Japan

**P42****Comparative investigation of lipid peroxidation and antioxidant enzymes in relation to semen quality**

Muhammad Riaz<sup>1</sup>, Zahed Mahmood<sup>1, 2</sup>, Muhammad Usman Qamar Saeed<sup>1, 3</sup>, Muhammad Shahid<sup>1</sup>

<sup>1</sup> Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan <sup>2</sup>Department of Applied Chemistry and Biochemistry, Government College University Faisalabad, Pakistan, <sup>3</sup>Department of Pathology, Civil Hospital, Bahawalpur-Pakistan

**P43****Pup sex and body mass of rats raised in different lactation litter sizes affect ghrelin and peptide-YY concentrations**

Michelle L. Johnson<sup>1, 2</sup>, M. Jill Saffrey<sup>1</sup>, Victoria J. Taylor<sup>1</sup>

<sup>1</sup>The Open University, UK <sup>2</sup>The University of Leeds, UK

**P44****Effect of aflatoxin B1, on sperm vitality, mitochondrial function and acrosome reaction - the bovine model**

Moty Saksier<sup>1</sup>, Alisa Komsky-Elbaz<sup>1</sup>, Zvi Roth<sup>1</sup>

<sup>1</sup>Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Israel

**P45****A Bayesian view of rodent seminal cytokine networks**

Michelle L. Johnson<sup>1</sup>, Tathagata Dasgupta<sup>2</sup>, Nadia Gopichandran<sup>3</sup>, Sarah L. Field<sup>3</sup>, Nicolas M. Orsi<sup>1</sup>

<sup>1</sup>The University of Leeds, UK <sup>2</sup>Harvard Medical School, Boston, USA <sup>3</sup>Ostara Biomedical, Liverpool, UK

**P46****Dynamic changes in expression and DNA methylation of the astrocyte-specific genes Slc1a2 and Lrg1 during development: implications for preterm birth?**

Caroline Allen<sup>1</sup>, Jessy Cartier<sup>2</sup>, Amanda Drake<sup>2</sup>

<sup>1</sup>Centre for Reproductive Health, Queens Medical Research Institute, University of Edinburgh, UK <sup>2</sup>Centre for Cardiovascular Science, Queens Medical Research Institute, University of Edinburgh, UK

**P47****Germ cells, from a mouse model of Premature Ovarian Failure, retain the potential to support follicle development when reaggregated with wildtype somatic cells**

Sairah Sheikh<sup>1</sup>, Heidi Kaune<sup>1, 2</sup>, Anna Deleva<sup>1</sup>, Suzannah Williams<sup>1</sup>

<sup>1</sup>University of Oxford, UK <sup>2</sup>Universidad Diego Portales, Santiago, Chile

**P48****Effect of temperature on bovine granulosa cells cultured under low oxygen in the presence or absence of melatonin**

Bayar Zeebaree<sup>1</sup>, Wing Yee Kwong<sup>1</sup>, George Mann<sup>1</sup>, Carlos Gutierrez<sup>1</sup>, Kevin Sinclair<sup>1</sup>

<sup>1</sup>University of Nottingham, UK

**P49****PGF2alpha regulates the expression of genes involved in embryo-maternal interactions in the porcine endometrium and conceptus cells**

Piotr Kaczynski<sup>1</sup>, Monika Baryla<sup>1</sup>, Agnieszka Waclawik<sup>1</sup>

<sup>1</sup>Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Olsztyn, Poland

**P50****Regulation of mitochondrial energetics mediated by ER calcium leak in mouse oocyte maturation**

Banyoon Cheon<sup>1</sup>, Zhong-Wei Wang<sup>1</sup>, Michael Duchon<sup>1</sup>, Gyorgy Szabadkai<sup>1</sup>, John Carroll<sup>2</sup>

<sup>1</sup>University College London, UK <sup>2</sup>Monash University, Melbourne, Australia

**P51****The effect of macrophage colony-stimulating factor (CSF1) on piglet gonad development**

Cheryl Ashworth<sup>1</sup>, Billie Avey<sup>1</sup>, Claire Stenhouse<sup>1</sup>, Kristin Sauter<sup>1</sup>, Lindsey Waddell<sup>1</sup>, Charis Hogg<sup>1</sup>, Zofia Lisowski<sup>1</sup>, David Hume<sup>1</sup>

<sup>1</sup>The Roslin Institute, University of Edinburgh, UK

**P52****Histological categorization of equine ovarian follicles from healthy and diseased mares**

Abdulqader Al Ibrahim<sup>1</sup>, Su Wei Tay<sup>1</sup>, Patrick Pollock<sup>1</sup>, Timothy Parkin<sup>1</sup>, Monika Mihm Carmichael<sup>1</sup>

<sup>1</sup>School of Veterinary Medicine, University of Glasgow, UK

**P53****The effect of dietary protein level on bovine follicular dynamics in beef heifers**

Jennifer Edwards<sup>1</sup>, Nigel Mongan<sup>1</sup>, Catrin Rutland<sup>1</sup>, Viv Perry<sup>1</sup>, Robert Robinson<sup>1</sup>

<sup>1</sup>University of Nottingham, Loughborough, UK

**P54****Inhibition of macrophage colony-stimulating factor-1 (CSF-1) receptor signalling: a novel therapeutic target for tubal ectopic pregnancy**

Robyn Beaty<sup>1</sup>, S Furquan Ahmad<sup>1</sup>, Lisa Campbell<sup>1</sup>, Andrew Horne<sup>1</sup>

<sup>1</sup>MRC Centre of Reproductive Health, Queen's Medical Research Institute, The University of Edinburgh, UK

**P55****Putative role for progesterone in Monodelphis domestica Embryogenesis and Pregnancy**

Yolanda Cruz<sup>1</sup>, Karin Yoshida<sup>1</sup>, Kobi Griffith<sup>1</sup>, Joanna Johnson<sup>1</sup>

<sup>1</sup>Oberlin College, USA

**P56****Male infertility-linked point mutation dramatically reduces the Ca<sup>2+</sup> oscillation-inducing activity of sperm PLC $\zeta$  without affecting its ability to hydrolyse PIP<sub>2</sub>**

Michail Nomikos<sup>1</sup>, Panagiotis Stamatiadis<sup>1</sup>, Jessica Sanders<sup>1</sup>, Brian Lewis Calver<sup>1</sup>, Morgan Lofty<sup>1</sup>, Luke Buntwal<sup>1</sup>, Karl Swann<sup>1</sup>, Francis Anthony Lai<sup>1</sup>

<sup>1</sup>Cardiff University, UK

**P57****Antigen unmasking improves visualisation efficacy of phospholipase C zeta (PLC $\zeta$ ) in mammalian sperm to enable diagnostic applicability for evaluating PLC $\zeta$ -dependent human oocyte activation deficiency**

Dr Junaid Kashir<sup>1,2,3</sup>, Luke Buntwal<sup>1</sup>, Michail Nomikos<sup>1</sup>, Brian Calver<sup>1</sup>, Panagiotis Stamatiadis<sup>1</sup>, Peter Ashley<sup>4</sup>, David Sanders<sup>4</sup>, Paul Knaggs<sup>4</sup>, Adnan Bunkheila<sup>4</sup>, Karl Swann<sup>1</sup>, Francis Anthony Lai<sup>1</sup>

<sup>1</sup>Cardiff University, UK <sup>2</sup>Alfaisal University, Riyadh, Saudi Arabia <sup>3</sup>King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia <sup>4</sup>Wales Fertility Institute, University Hospital Wales, UK

**P58****The effect of transforming growth factor B on luteal angiogenesis and function in vitro**

Robert Thompson<sup>1</sup>, Kathryn Woad<sup>1</sup>, Robert Robinson<sup>1</sup>

<sup>1</sup>University of Nottingham, Loughborough, UK

**P59****Insight into the molecular mechanisms underlying enhanced gonadotropin hormone receptor activity in polycystic ovarian syndrome**

Lisa Owens<sup>1</sup>, Avi Lerner<sup>1</sup>, George Christopoulos<sup>1</sup>, Maneshka Liyanage<sup>1</sup>, Rumana Islam<sup>1</sup>, Stuart Lavery<sup>1</sup>, Vicky Tsui<sup>1</sup>, Kate Hardy<sup>1</sup>, Stephen Franks<sup>1</sup>, Aylin Hanyaloglu<sup>1</sup>

**P60****Effect of In Vitro Fertilization (IVF) and Embryo Culture Duration on mouse development and postnatal health**

Ms Anan Aljahdali<sup>1</sup>, Ili Raja Khalif<sup>1</sup>, Miguel A. Velazquez<sup>2</sup>, Bhav Sheth<sup>1</sup>, Neil R. Smyth<sup>1</sup>, Tom Fleming<sup>1</sup>

<sup>1</sup>University of Southampton, UK <sup>2</sup>Newcastle University, UK

**P61****Altered expression of genes affecting oestrogen metabolism and action in granulosa-lutein cells of women with PCOS**

Melanie Coates<sup>1</sup>, Avigdor Lerner<sup>1</sup>, Georgios Christopoulos<sup>1</sup>, Maneshka Liyanage<sup>1</sup>, Stuart Lavery<sup>1</sup>, Victoria Tsui<sup>1</sup>, Kate Hardy<sup>1</sup>, Stephen Franks<sup>1</sup>, Kate Hardy<sup>1</sup>

<sup>1</sup>Imperial College London, UK

**P63****Preantral follicle development in cultured reagggregated neonatal ovaries**

Belinda Lo<sup>1</sup>, Ms Sairah Sheikh<sup>1</sup>, Suzannah Williams<sup>1</sup>

<sup>1</sup>University of Oxford, UK

**P64****First evidence of a menstruating rodent: the spiny mouse (Acomys cahirinus)**

Nadia Bellofiore<sup>1</sup>, Stacey Ellery<sup>1, 2</sup>, Jared Mamrot<sup>1, 2</sup>, David Walker<sup>1</sup>, Peter Temple-Smith<sup>1, 2</sup>, Hayley Dickinson<sup>1, 2</sup>

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Please note that the following posters were withdrawn from the Programme. P01, P05, P22, P25 P26, P28, P62.