

Poster Session 2 - Thursday 7th September

Rutherford Room posters 1-60

Presenting author	Title	Poster number
Songcun Wang	Tim-3 Coordinates Macrophage-Trophoblast Crosstalk via Angiogenic Growth Factors to Promote Pregnancy Maintenance	P2.1
Erica Smith	Exposure of model extravillous trophoblasts to cryopreservation agents decreases cell migration	P2.2
Erica Smith	Heat Shock Protein expression in syncytiotrophoblast and villous endothelial cells in cases of Histologically Confirmed Placenta Accreta Spectrum	P2.3
Saira Shah Nawaz	Aberrant oxidative stress is implicated in early miscarriage in humans with affecting important placental nutrient transporters	P2.4
Khanh Huynh	Sexual dimorphic TGF-beta signaling in the Blood-Brain barrier of growth restricted fetuses in a Guinea Pig model of FGR	P2.5
Marika Charalambous	Placental expression of Delta-like homologue 1 (Dlk1) regulates endothelial cell development and hormone production to modulate fetal growth and maternal fatty acid metabolism	P2.6
Eleanor Doman	Characterization of micro-haemodynamics in the placental intervillous space by integrated experimental and theoretical approaches	P2.7
Tianran Wan	A functional exchange 'shunt' in the umbilical cord: the role of coiling structure in solute and heat transfer	P2.8
Gendie Lash	Extravillous trophoblast cell derived exosomes induce vascular smooth muscle cell apoptosis via a mechanism associated with miR-143-3p	P2.9
Jin Bai	Deep-sequencing Nitroso-proteomes by a Modified SNOSID Proteomics Platform Revealed Novel Roles of Protein Nitrosylation in Uterine Artery Hemodynamics Regulation	P2.10
Mary Spring	A comparison of 2D and 3D imaging tools to quantify structure of the human placenta	P2.11
Nirav Barapatre	From a Single Villous Tree to Whole Placentome – Quantitative Imaging of the Placental Villous Architecture by Micro-CT	P2.12
Toby Jackson	A pipeline for quantitative analysis of high-resolution micro-CT of the vasculature of the fetoplacental cotyledon	P2.13
Carolin Schlieffsteiner	Fetal-derived HDL regulates placental vascular tone preferentially via endothelial hyperpolarization and not exclusively by eNOS	P2.14
Michelle Broekhuizen	Fetoplacental Vascular Reactivity is altered in Fetuses with Congenital Diaphragmatic Hernia	P2.15
Carolyn Salafia	Does reduced placental villous packing density, a marker of decreased numbers of terminal villi, demonstrate effects on cyto- and chemo-kine levels in newborn dried blood spots?	P2.16
Carolyn Salafia	Chronic choriodecidualitis demonstrates multiple and sex-specific effects on cyto- and chemo-kine levels in newborn dried blood spots while chronic villitis does not.	P2.17
Carolyn Salafia	Fetal-placental thrombi in muscularized placental vessels have sex-specific effects on cyto- and chemo-kine levels in newborn dried blood spots.	P2.18
Carolyn Salafia	Fetal vascular malperfusion at the capillary level have significant and sex-specific effects on cyto- and chemo-kine levels in newborn dried blood spots.	P2.19
Dimitrios Amanitis	An ex-vivo macroscopic analysis of the human placental inter-lobular and inter-cotyledon septum and vessels therein from normal pregnancies	P2.20
Hannah Ee Juen Yong	Effects of omega-3 fatty acid supplementation on placental lipid metabolism in vitro	P2.21
Dong Wook Kwak	Lipidomic profiling of preeclamptic placenta according to severe features	P2.22
Stacey J Ellery	The Role of Creatine in Placental Energy Metabolism at Birth: Initial Insights from the Creatine and Pregnancy Outcomes (CPO) Cohort Study of Low-Risk Pregnancy	P2.23
Anders Hagen Jarmund	Dyslipidemia and immunological deviation in diagnosed preeclampsia	P2.24
Grace Mercer	Placental metabolomics to predict preterm birth	P2.25

Elana Elkin	Exploring toxicant-induced changes in tissue cell type proportions as a mechanism underpinning toxicity in the placenta	P2.26
Ellen Menkhorst	Placental inflammasomes: friend or foe?	P2.27
Fan Zhang	Paradoxical induction of ALOX15/15B by glucocorticoids in human amnion fibroblasts and its implications in parturition	P2.28
Frantisek Staud	Placental tryptophan metabolism in health and disease; From bedside to bench and back	P2.29
Hanna Helene Allerkamp	The ion channels PIEZO1 and TRPV4 impact the endothelial barrier of placentas from normal and preeclamptic pregnancies in vitro	P2.30
Hannah Poisson	Placenta NAD+ depletion: A mechanism through which maternal obesity may drive placenta and fetal programming	P2.31
Junya Kojima	Sirtuin 1 (SIRT1) is a potential therapeutic candidate gene for fetal growth retardation	P2.32
Kenean Getaneh Tlaye	Expression of placental aspirin-metabolizing enzymes in women treated with prophylactic low-dose aspirin and their association with placental functions and senescence-related markers	P2.33
Lachlan Schofield	Elevated soluble prorenin receptor impairs endothelial function in-vitro, promoting a preeclamptic phenotype.	P2.34
Leena Kadam	Maternal obesity and Gestational Diabetes Mellitus (GDM) affect placental Nischarin expression in a sexually dimorphic manner.	P2.35
Leena Kadam	Maternal obesity and GDM affect regulation of placental protein metabolism in a fetal sex-dependent manner.	P2.36
Li-Jun Ling	PAI-1 drives amnion epithelial cell senescence at parturition	P2.37
Lopa Leach	The effect of gestational diabetes on the ability of human umbilical mesenchymal stem cells to influence endothelial permeability	P2.38
Lu-Yao Wang	Downregulation of WTAP-mediated m6A methylation in PRLR facilitates collagen degradation by prolactin in human amnion at parturition	P2.39
Madhavi Harhangi	The endocannabinoid system and its vascular effect in healthy and preeclamptic placentas	P2.41
Maria Lillina Vignola	Mapping regulatory elements at the DLK1 locus involved in the pathogenesis of human fetal growth restriction	P2.42
Meekha George	Interplay between pregnancy associated melanoma cells and placental tissue	P2.43
Meng-die Li	Involvement of ADAMTS4 in membrane rupture at parturition	P2.44
Monika Horvat Mercnik	Activin receptor-like-kinase-2 (ALK2)-Snail pathway drives endothelial to mesenchymal transition (EndoMT) in fetoplacental endothelial cells (fpEC) of early onset preeclampsia (EO-PE)	P2.45
Natasha de Alwis	Upregulation of placental Ski-like proto-oncogene in preterm preeclampsia: potential target for preeclampsia treatment?	P2.46
Padma Murthi	Defective inflammasome signalling in trophoblasts: implications for aberrant trophoblast innate and immune responses in preeclampsia.	P2.47
Precious Ann Fortes	Does Amsterdam Criteria Applied to Term Placentas with Favorable Fetal Outcomes Show Significant Maternal Clinico-pathologic correlation? An Updated Analysis	P2.48
Rebecca Brady	Thyroglobulin antibodies impair fertility and litter parameters and impact fetal survival in a rodent model of Autoimmune Thyroiditis	P2.49
Rona Karahoda	GLUCOSE AND METFORMIN MODULATE THE NLRP3 INFLAMMASOME IN HUMAN PLACENTAL EXPLANTS	P2.50
Sakurako Mishima	Elucidation of blood pressure elevation mechanism mediated by placental (pro)renin receptors in preeclampsia model mice	P2.51
Sol Olivera	Investigation of the placental gene expression of fatty acid regulators as evidence of ectopic fat storage and essential fatty acid transport	P2.52
Tanja Jankovic-Karasoulos	Folic Acid Food Fortification, Maternal Endocrine Status And Gestational Diabetes Mellitus	P2.53
XiaoJia Li	Placentas from women of advanced maternal age (AMA) show increased activation of the unfolded protein response (UPR) but this is not exacerbated in the presence of Fetal Growth Restriction (FGR).	P2.54

Xuelan Li	Integrated management of women with a history of preeclampsia in a subsequent pregnancy: the field experience in Xi'an China	P2.55
Yusmaris Cariaco	Opioid and cannabis exposure adversely affect fetal and placental growth trajectories in a mouse model of drug consumption during pregnancy	P2.56
Zoe Tryfonos	First Trimester Hofbauer Cells from Pregnancies with a Higher Risk of Developing Preeclampsia Display Differences in Cell Surface Marker Expression, Cytokine Secretion and Regulation of Placental Vascular Development Compared to Pregnancies with a Normal Risk	P2.57
Barbara Fuenzalida	Physiological in vitro cellular model mimicking the maternal-fetal interface	P2.58
Masanori Tachikawa	Proteomics-based comparison of transporter expression profiles in BeWo and JEG-3 cells	P2.59
Mai Inagaki	Reuptake system of extracellular vesicles in human trophoblast cell line	P2.60
Matariki Room Posters 61-111		
Masatoshi Tomi	Attenuation of murine placental MDR1 and BCRP functions by their unique protein localization	P2.61
Melanie Young	Hypertension and preeclampsia alter placental thyroid hormone metabolism	P2.62
Talia Seymore	Chronic Inhalation of Titanium Dioxide Nanoparticles Disrupts Placental Glucose Transport and Metabolism in a Sex-Dependent Manner	P2.63
Juan Arroyo	Gestational dependent responses to second hand smoke (SHS) and e-cigarette vapor in mouse pregnancies	P2.64
Byung Soo Kang	Prediction of fetal growth restriction in Asian women using machine learning algorithms.	P2.65
Jiaxuan Deng	Investigating the Role of Nuchal Fold in Predicting Small-for-Gestational-Age at Birth	P2.66
Lizi Zhang	Development of a prediction model for recurrent preeclampsia: a multicenter retrospective cohort study	P2.67
Marie-Eve Brien	Immune change prior to birth in women who developed postpartum preeclampsia	P2.68
Xuelan Li	The abundant levels of peptides in serum from preeclampsia women could be potential biomarkers for early diagnosis	P2.69
Yael Pewzner-Jung	Towards an In-Vivo MRI-Pathology Tool to Decode Placental Abnormalities	P2.70
Kyo Hoon Park	Plasma acute phase proteins in women with preterm premature rupture of membranes: relationship to acute histologic chorioamnionitis, intra-amniotic inflammation, and microbial invasion of amniotic cavity	P2.72
Lisa M. Bebell	Histologic placental findings among people with HIV and people taking PrEP in pregnancy	P2.73
Mariell Ryssdal	Metformin treatment in pregnancy reduces the incidence of maternal infections in women with PCOS	P2.74
Mengdie Li	Tim-3+ decidual Mφs induced Th2 and Treg bias in decidual CD4+T cells and promoted pregnancy maintenance via CD132	P2.75
Michelle Broekhuizen	Immune profile alterations in SARS-CoV-2-infected placentas leading to fetal demise and placentas after COVID-19 vaccination during pregnancy	P2.76
Minji Choi	Characteristics of natural killer cells in umbilical cord blood with fetal growth restriction	P2.77
Monika Horvat Mercnik	A paracrine crosstalk between Hofbauer cells (HBCs) and feto-placental endothelial cells (fpECs) contributes to the endothelial to mesenchymal transition (EndoMT) in early onset preeclampsia (EO PE)	P2.78
Paschalia Pantazi	Sexual dimorphism in placental responses to macrophage extracellular vesicles	P2.79
Ricardo E. Fretes	Macrophage Migration Inhibitory Factor and pro-inflammatory cytokines have a main role in the infection of chorionic villi explants in vitro by Trypanosoma cruzi, the protozoan that cause congenital Chagas disease	P2.80
Ulrike Kemmerling	Porphyromonas gingivalis lysate induces tissue disorganization and proinflammatory response in human placental explants	P2.81

Ulrike Kemmerling	Host-pathogen interaction: Role of Trypanosoma cruzi-derived exovesicles during ex vivo infection of human placental explants	P2.82
Ulrike Kemmerling	Toxoplasma gondii infection induces RAGE receptor expression in a human placental explant model	P2.83
Kang Chen	Transplacental immunoglobulin D protects infants from food allergy	P2.84
Bothidah Thach	HtrA4 is required for differentiation of human trophoblast stem cells into syncytiotrophoblast	P2.85
Chie-Pein Chen	Trophoblast HtrA4 expression is involved in the development of placenta accreta spectrum	P2.86
Francesca Soncin	VGLL1 is required for maintenance of the trophoblast-specific program in human placenta	P2.87
Gina McNeill	Low oxygen drives expansion of the extravillous trophoblast progenitor pool and blunts extravillous trophoblast maturation	P2.88
Guy Whitley	Trophoblast derived factors stimulates the release of MMP10 and HB-EGF by endothelial cells	P2.89
Dr. Helen Jones	NOTCH1 SNP in Individuals with CHD is Associated with Impaired Invasion in a Model of Extravillous Trophoblast	P2.90
Madeline Keenen	Transcriptional specialization of nuclei in the giant, multinucleated syncytiotrophoblast cell	P2.91
Meagan Esbin	Arrayed CRISPR screening to identify regulators of trophoblast differentiation and fusion in high-throughput	P2.92
Min Zhao	Placental extracellular vesicles could have a therapeutic potential on ovarian cancer by unique miRNAs presented in placental extracellular vesicles	P2.93
Beatrice Anna Brugger	THE ROLE OF GLUTAMITC OXALOACETIC TRANSAMINASE IN PLACENTAS OF PREGNANCIES COMPLICATED WITH IUGR	P2.94
Cherry Sun	Third-trimester side-population trophoblasts can be differentiated to mature trophoblast lineages and show reduced growth in FGR.	P2.95
Vivien Michaelis	New insights on transfer and toxicity mechanisms of essential and toxic metals across an in vitro model of human villous trophoblasts	P2.96
Adam Stevens	Evidence for recent hominid evolutionary pressure on the mural trophoblast	P2.97
Xin Yu	The mechanisms of regulation between glucose metabolism and syncytialization in human placental trophoblast cells	P2.98
Qian Chen	Systematic characterisation of urine small extracellular vesicles from normal pregnancy and early-onset preeclampsia.	P2.100
Zhirong Guo	Plasma proteomics identify biomarkers and pathogenesis of placenta accreta spectrum disorders.	P2.101
Annemarie Mulders	Associations between first-trimester utero-placental vascular development and maternal serum biomarkers of placental development: the Rotterdam Periconception cohort	P2.102
Signe Haaland Buer	Distinct immunological development throughout pregnancies complicated with preeclampsia, gestational hypertension, and chronic hypertension	P2.103
Jonas Zaugg	Obesity in pregnancy disturbs the expression of iron homeostasis genes in the placenta and fetus in association with reduced placental iron accumulation and fetal growth restriction	P2.104
Wenting Cao	A microfluidic-supported model for the study of placental transfer mechanisms	P2.105
Lu Liu	Accumulation of CXCR3- KLRG1+ CD8+ T cells in decidualized endometrium: pathogen-specific defense to protect the embryo?	P2.106
Paulina Fuentes Zacarías	Ex-vivo human placental perfusion as a model for evaluating placental transfer of PETN to prevent Intrauterine Growth Restriction	P2.107
Anna Kluivers	Placental transfer and metabolism of betamethasone in healthy and preeclamptic human placentas	P2.108
Sophie Piesse	Early-onset preeclamptic extracellular vesicles elevate maternal arterial blood pressure and cardiac output during pregnancy and postpartum in spontaneously hypertensive rats.	P2.109
Minglian Su	Higher Long-term Blood Pressure in Women with Recurrent Preeclampsia than Who with Single Episode of Preeclampsia	P2.110
Sien Yee Lau	Placental extracellular vesicles provide transient protection against cardiovascular disease development in rodents	P2.111