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Maternal metabolism and programming: what can non-rodent models tell us?

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Organizers

Christian Wadsack, Assoc. Prof., PhD. Vice-dean of Doctoral Studies. Medical University of Graz, Department of Obstetrics and Gynecology.



Verónica White, Assoc. Inv. Faculty of Medicine, University of Buenos Aires, CEFYBO CONICET. Laboratory of Reproduction and Metabolism.



Summary: Maternal metabolic derangements in pregnancy are a worldwide growing problem and can induce placental and fetal anomalies. Notably, as a result of the disturbed intrauterine environment offspring's metabolism might be compromised and may lead to long-lasting alterations as well. Affected newborns are at increased risk of developing related diseases like obesity, type-2 diabetes or cardiovascular disorders during life. The research in the field has explored and identified that excess of nutrients, a disturbed lipid profile, an altered hormonal milieu together with an imbalance of antioxidant/pro-inflammatory substances are the main stressors and causes of the anomalies observed in placentas, fetuses and offspring. This workshop focusses on the underlying mechanisms of these alterations on the feto-placental axis and offspring. A holistic view of this specific topical problem will be achieved through presentation of different experimental models and including the spatial-temporal axis of pregnancy.

Speakers

Dr. Pascale Chavatte Palmer, DVM, PhD, HDR, French National Institute for Agricultural Research | INRA • Biologie du Développement et Reproduction (BDR) DVM, PhD, HDR, Paris, France

Dr. Christianne Albrecht, PhD, Institute of Biochemistry and Molecular

Medicine. Universität Bern | UniBe, Bern, Switzerland.

Veronique Ferchaud-Roucher, University of Colorado, OB/Gyn Department, Denver, USA

Ilaria Del Gaudio, PhD, Department of Obstetrics and Gynecology, Medical University of Graz, Graz, Austria.

Dolores Busso, PhD, Department of Nutrition, Diabetes and Metabolism, Pontifical Catholic University of Chile, Santiago de Chile, Chile.

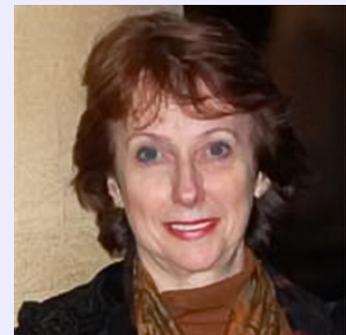
Newborn size: who decides? Mother? Fetus? Placenta?

Organizers

Lopa Leach. School of Life Sciences, Faculty of Medicine, University of Nottingham, Nottingham, United Kingdom.



Carolyn Salafia. Placental Modulation Laboratory. Institute for Basic Research And Placental Analytics LLC, New York, USA



Summary: This workshop will ask 3 experts to each speak to their specialization- cutting edge evidence as to why they think that the mother, the fetus or the placenta dictates the size of the newborn. The audience will quiz them and we will reach a conclusion as to whether there is synthesis of physiology, maternal/fetal genes, parental imprinting in this era of epigenetics. We expect the experts to each present key findings in 15 min, followed by 15 min Q and A.

Workshop confirmed speakers:

Carlos Salomon, University of Queensland, Australia.
