

POLISH-FRENCH SYMPOSIUM ON NEW REGULATIONS OF REPRODUCTION: THE ROLE OF ADIPOKINES

PROGRAMME

20/10/2022

08:45-09:00 REGISTRATION

09:00-09:10 WELCOME SPEECH

Magdalena Sajdak (Polish Academy of Sciences Scientific Center in Paris)

Joelle Dupont (INRAE)

Agnieszka Rak (Jagiellonian University in Kraków)

FIRST PANEL

The role of adipokines on fertility regulation at central level: hypothalamus – pituitary

Moderators: Tadeusz Kamiński (University of Warmia and Mazury in Olsztyn)
Anthony Estienne (INRAE)

09:10-09:25 Małgorzata Szczęsna (University of Agriculture in Kraków)
Pregnancy – induced adaptation of central sensitivity to leptin – lesson from large animal model.

09:25-09:40 Laurence Dufourny (INRAE)
How does apelin affect LH levels? An investigation at the level of GnRH and KNDy neurons.

09:40-09:55 Kamil Dobrzyń (University of Warmia and Mazury in Olsztyn)
Adipokines, an important agents in the regulation of HPG axis.

09:55-10:10 DISCUSSION

10:10-10:30 COFFEE BREAK & POSTER SESSION

Małgorzata Kotula-Balak (University of Agriculture in Kraków)
Adipokine signaling in health and disease – studies in human, dog, boar and rodent testes.

Agnieszka Partyka (Wrocław University of Environmental and Life Sciences)

Spermatozoal functions and characteristics – assessment tools in obesity.

Weronika Biernat (University of Agriculture in Kraków)

The roles of leptin and resistin in reproduction and leptin resistance in sheep.

Karolina Pich (Jagiellonian University in Kraków)

Effect of omentin on steroid synthesis in porcine ovarian follicles. In vitro study.

Natalia Respekta (Jagiellonian University in Kraków)

Expression and action of omentin on porcine pituitary cell function.

Ewa Mlyczyńska (Jagiellonian University in Kraków)

Visfatin in the porcine corpus luteum: expression and action on steroid synthesis and angiogenesis.

SECOND PANEL

The role of adipokines on fertility regulation at peripheral: ovary & testis

- Moderators: Wojciech Nizański (Wrocław University of Environmental and Life Sciences)
Pascal Froment (INRAE)
- 10:30-10:45 Cecilia Dall'Aglio (University of Perugia)
Adipokines expression in ewes subjected to the influence of different nutritional level.
- 10:45-11:00 Patrycja Kurowska (Jagiellonian University in Kraków)
Expression and role of spexin in human granulosa cells.
- 11:00-11:15 Anthony Estienne (INRAE)
Chemerin produced locally within the reproductive tract impairs testicular function in roosters.
- 11:15-11:30 Guillaume Bourbon (INRAE) **ONLINE**
The Hepatokine FGF21 increases the human spermatozoa motility.

- 11:30-11:45 Mathilde Daudon (INRAE) **ONLINE**
Fibronectin Type III domain containing 5 (FNDC5) expression in bovine ovary and in vitro effects on bovine granulosa cells proliferation and steroidogenesis.
- 11:45-12:00 DISCUSSION
- 12:00-13:30 LUNCH BREAK
- 13:30-14:00 Invited speaker Sami Dridi (University of Arkansas) **ONLINE**
Role of avian orexin in muscle energy metabolism and hepatic lipogenesis.
- 14:00-14:10 DISCUSSION

THIRD PANEL

The role of adipokines on fertility regulation at peripheral: uterus, placenta, embryo development & pregnancy

- Moderators: Nina Smolińska (University of Warmia and Mazury in Olsztyn)
Joelle Dupont (INRAE)
- 14:10-14:25 Marta Kieżun (University of Warmia and Mazury in Olsztyn)
Adipokines, rising stars in early pregnancy theater.
- 14:25-14:40 Monika Dawid (Jagiellonian University in Kraków)
Visfatin in human placenta cells.
- 14:40-14:55 Marta Hita Hernandez (INRAE-BREED)
Role of adipokines on placental sphingolipid metabolism in maternal obesity.
- 14:55-15:10 Ophélie Bernardi (INRAE) **ONLINE**
Chemerin concentration in albumen and cell number of germinal disc: potential markers of the quality of embryo development for genetic selection in birds.
- 15:10-15:25 DISCUSSION

15:25-15:45

COFFEE BREAK & POSTER SESSION (**ONLINE**)

Marlena Gudelska (University of Warmia and Mazury in Olsztyn)
*The role of chemerin in the uterus of domestic pig (*Sus scrofa domestica* L.) during the oestrus cycle and early pregnancy.*

Grzegorz Kopij (University of Warmia and Mazury in Olsztyn)
*Visfatin impact on the transcriptome luteal cells of domestic pig (*Sus scrofa domestica* L.) during early pregnancy.*

Loise Serra (INRAE)
Effect of endocrine disruptors on adipokine secretion.

Dominika Wachowska (Jagiellonian University in Kraków)
Asprosin – new adipokine in female reproduction.

FOURTH PANEL

Polish-French science possibility and future plan

15:45-17:00

Agnieszka Rak (Jagiellonian University in Kraków)
Joelle Dupont (INRAE)