

# 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)

Joëlle 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 Szczęśna (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) **ONLINE**  
*Does apelin interact with GnRH and kisspeptin neuronal populations to modulate the central control of reproduction in male rodents? A neuroanatomical, molecular and functional investigation.*

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

09:55-10:10 DISCUSSION

10:10-10:30

## COFFEE BREAK & POSTER SESSION I

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.*

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

## 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)  
Joëlle 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 Hernández (INRAE-BREED)  
*Role of adiponectin on placental sphingolipid metabolism in maternal obesity.*

- 14:55-15:10 Ophélie Bernardi (INRAE) **ONLINE**  
*Chemerin in egg albumen and cell number of germinal disc: potential biomarkers of the embryo development for genetic selection in birds.*
- 15:10-15:25 DISCUSSION
- 15:25-15:45 COFFEE BREAK & POSTER SESSION II (**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 secretions.*

#### **FOURTH PANEL**

*Polish-French science possibility and future plan*

- 15:45-17:00 Agnieszka Rak (Jagiellonian University in Kraków)  
Joëlle Dupont (INRAE)