



Editorial news and events

We have a pleasure to announce that
**the 5th EAAP International Symposium
on Energy and Protein Metabolism and Nutrition**
will be held at the Holiday Inn Hotel in Krakow, Poland on 12–15 September 2016

The International Symposium on Energy and Protein Metabolism and Nutrition (ISEP) was organized for the first time in Rostock-Warnemunde, Germany in 2003. Before that, there were similar symposiums, but dedicated to the metabolism of Energy or Proteins separately. The second Symposium was hosted in Vichy, France and the third one took place in Parma, Italy. We were invited to present the results of our own research on the fourth edition, which was organized by the University of California, Davis, in Sacramento, USA in 2013.

In this year the International Symposium on Energy and Protein Metabolism and Nutrition (ISEP) is organized by The Kielanowski Institute of Animal Physiology and Nutrition Polish Academy of Sciences in Jabłonna, University of Agriculture in Krakow and Warsaw University of Life Sciences – SGGW in Warsaw.

We anticipate about 250 attendees from all over the world interested in energy and protein metabolism, and nutrition of animals. We believe that the precise understanding of these aspects of animal biology is crucial for animal health, sustainable animal production and health of animal products consumers.

Continuing the strategy, the 5th EAAP ISEP will focus on combining basic and applied research, and practical applications.

Interesting lectures given by famous scientists and oral and poster presentations by the participants are planned.

Among lecturers are:

Bailey M., UK – Interaction between immunological system, microflora of the gastrointestinal tract and metabolism

Davis T., USA – Timing of nutrient delivery impacts muscle protein synthesis and lean growth

Hammon H., Germany – Hepatic metabolism of glucose in the adaptation to transition period

Labussiere E., France – Fasting heat production and metabolic body weight in growing animals

Loneragan S.M., USA – Proteomics applied to animal efficiency and meat quality

Millet S., Belgium – Pork production with minimum nitrogen input

Therkildsen M., Denmark – Feeding strategies to manipulate *in vivo* protein turnover and post mortem proteolysis in meat

We will also organize interesting excursions to show Krakow and its neighborhoods (“Wieliczka” salt mine, Arabian horses’ stud in Michałów) and to familiarize the participants with Polish hospitality and delicious cuisine.

PROGRAMME

1. Physiological aspects of protein and energy metabolism and nutrition

- Energy and protein metabolism at different physiological states (pregnancy, suckling and weaning period, aging, diseases/ inflammation)
- Role of microbiota in the energy and protein metabolism in ruminants
- Role of microbiota in energy and protein metabolism in the large intestine of mono gastric animals
- Molecular responses to nutrition
- Nutritional proteomics
- Comparative aspects of the metabolism of cells, tissues and organs in relation to protein and energy
- Immunomodulatory effect of energy and protein metabolism
- Interactions between nutrition and animal health
- Nutrients and energy metabolism under heat stress conditions
- Nano-nutrition

2. Animal product quality and health in the light of protein and energy metabolism and nutrition

- Energy/protein metabolism and quality of animal-sourced foods
- Nutritional methods to improve the dietetic value of meat, eggs and milk
- Muscle metabolism as controlled by nutrition
- Aspects of health and safety of animal products

3. Environmental and animal welfare aspects of protein and energy nutrition

- Animal feeding as a greenhouse gas emission modulator
- Protein and energy metabolism related to (regulation on) nitrogen and mineral release to environment
- Nutrition and welfare of animals

4. Feed sources and feed processing related to energy and protein digestion and metabolism

- Consequences of protein and energy malnutrition (effect of high/low fat diets, high/ low protein diets) for animals
- Feed processing and its effect on energy and protein digestion and metabolism
- Bioactive compounds and their effects on energy and protein digestion and metabolism
- Non-GMO and novel protein sources and their utilization in animal nutrition

5. Methodological aspects of research on protein and energy metabolism and nutrition

- Animal models and techniques for energy/ protein metabolism and nutritional studies
- Role of animals as models for humans

We are looking forward to seeing you at the 5th EAAP ISEP in Krakow, Poland.

For more details visit: <https://isep2016.pl/>



5th EAAP International Symposium
on **Energy** and **Protein Metabolism** and **Nutrition**
ISEP 2016
Jabłonna - Krakow - Warsaw, POLAND