



5th EAAP International Symposium on Energy and Protein Metabolism and Nutrition

ISEP 2016

Jablonna – Krakow – Warsaw, POLAND

PROGRAM

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 monogastric 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