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Addressing Non-ruminant Nutrition and Digestive Ecology Functions for Sustainable Production and Welfare

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Message from the Guest Editors

Feed costs account for 60-70% of animal production costs, especially for intensively farmed poultry and pigs. Efforts are made to produce high-quality, efficiently used animal diets. With growing global demand, sustainable animal production is urgent to address food security with rising human populations and climate change. Animal feed must be produced sustainably and less competitive with human food.

Optimal nutrition requires optimal digestion, absorption and metabolism. Digestibility predicts nutrient availability. Greater understanding of digestion/absorption through histology, biomarkers and molecular techniques monitoring gut microbiome and metabolism would help improve nutrition.

We welcome research on these aspects of digestion/nutrition in non-ruminants and utilizing novel feedstuffs. This includes molecular techniques and evaluating products from agrifood waste and biotechnology like GM plants, insect meals and microbial proteins.

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Message from the Editor-in-Chief

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