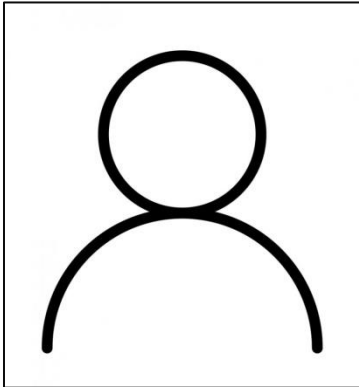


Prof. Zygmunt M. Kowalski, PhD, hab.



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Consultation hours: Monday 11:00-13:00

Research interest:

- Feeding of high yielding cows – prevention of metabolic diseases, especially ketosis
- Feeding of calves – effect of nutrients on development of gastrointestinal tract and immune system
- Methods of evaluation of feeding value

PI in current projects:

1. Prevalence and risk factors of ketosis in Poland
2. Ketone bodies in milk of Polish dairy cows – big data study
3. Effects of feed additives at postnatal period on the growth and development of dairy calves

Research experience:

Visiting Scholar: University of British Columbia, Canada; University of Udine, Italy; The Hebrew University of Jerusalem, Israel, INRA, France

DSc, (Habilitation): 1998

PostDoc

PhD: 1989

MSc: 1981

Professional profiles:

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Research ID:

Mendeley:

Research Gate: https://www.researchgate.net/profile/Zygmunt_Kowalski

Academia:

Google Scholar:

LinkedIn:

List of publications:

- Przybyło M., Clauss M., Ortmann S., Kowalski Z.M., Górka P., 2019. The effect of fructose supplementation on feed intake, nutrient digestibility and digesta retention time in Reeves's muntjac (*Muntiacus reevesi*). *J. Anim. Physiol. Anim. Nutr.*, 103, 1684–1693.
- Kowalski Z.M., Górka P., Micek P., Oprządek J., Barteczko A., Tröscher A., 2019. Does the effect of rumen-protected CLA supplementation in the transition period depend on a parity of dairy cows? *J. Anim. Feed Sci.*, 28, 220-229.
- Flaga J., Korytkowski Ł., Górka P., Kowalski Z.M., 2019. The effect of DHA-rich algae supplementation in milk replacer on performance and selected immune system functions in calves. *J. Dairy Sci.*, 102, 8862-8873.
- Micek P., Kowalski Z.M., Sady M., Oprządek J., Domagała J., Wanat P., 2019. An energy-protein feed additive containing different sources of fat improves feed intake and milk performance of dairy cows in mid-lactation. *J. Dairy Res.*, 86, 55–62.
- Górka P., Śliwiński B., Flaga J., Olszewski J., Nawrocka P., Sobkowiak K., Miltko R., Godlewski M.M., Zabielski R., Kowalski Z.M., 2018. Effect of exogenous butyrate on the gastrointestinal tract of sheep. II. Hydrolytic activity in the rumen and structure and function of the small intestine. *J. Anim. Sci.*, 96(12), 5325-5335.
- Górka P., Śliwiński B., Flaga J., Olszewski J., Wojciechowski M., Krupa K., Godlewski M.M., Zabielski R., Kowalski Z.M., 2018. Effect of exogenous butyrate on the gastrointestinal tract of sheep. I. Structure and function of the rumen, omasum, and abomasum. *J. Anim. Sci.*, 96(12), 5311-5324.
- Górka P., Kowalski Z.M., Zabielski R., Guilloteau P., 2018. Use of butyrate to promote gastrointestinal tract development in calves. *J. Dairy Sci.*, 101, 4785–4800.
- Flaga J., Korytkowski Ł., Górka P., Kowalski Z.M., 2018. Age-related changes in mRNA expression of selected surface receptors in lymphocytes of dairy calves. *Pol. J. Vet. Sci.*, 21, 1, 213-214.
- Belay T.K., Dagnachew B.S., Kowalski Z.M., Ádnøy T., 2017. An attempt at predicting blood β -hydroxybutyrate from Fourier-transform mid-infrared spectra of milk using multivariate mixed models in Polish dairy cattle. *J. Dairy Sci.*, 100, 6312–6326.
- Belay T.K., Svendsen M., Kowalski Z.M., Ádnøy T., 2017. Genetic parameters of blood β -hydroxybutyrate predicted from milk infrared spectra and clinical ketosis, and their associations with milk production traits in Norwegian Red cows. *J. Dairy Sci.*, 100, 6298–6311.
- Górka P., Śliwiński B., Flaga J., Wiczorek J., Godlewski M., Wierchoś E., Zabielski R., Kowalski Z.M., 2017. Effect of butyrate infusion into the rumen on butyrate flow to the duodenum, selected gene expression in the duodenum epithelium and nutrient digestion in sheep. *J. Anim. Sci.*, 95, 2144-2155.
- Górka P., Schurmann B.L., Walpole M.E., Błońska A., Li S., Plaizier J.C., Kowalski Z.M., Penner G.B., 2017. Effect of increasing the proportion of dietary concentrate on gastrointestinal tract measurements and brush border enzyme activity in Holstein steers. *J. Dairy Sci.*, 100, 4539–4551.
- Jawor P., Brzozowska A., Słoniewski K., Kowalski Z. M., Stefaniak T., 2016. Acute chase response in the primiparous dairy cows after repeated percutaneous liver biopsy during the transition period. *Polish J. Vet. Sci.*, 19, 2, 393-399.
- Hadam D., Kański J., Burakowska K., Penner G.B., Kowalski Z.M., Górka P., 2016. Effect of canola meal use as a protein source in a starter mixture on feeding behavior and performance of calves during the weaning transition. *J. Dairy Sci.*, 99, 1247–1252.
- Kowalski Z.M., Górka P., Flaga J., Barteczko A., Burakowska K., Oprządek J., Zabielski R., 2015. Effect of microencapsulated sodium butyrate in close up diet on performance of dairy cows in early lactation period. *J. Dairy Sci.*, 98, 3284-3291.
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- Flaga J., Górka P., Zabielski R., Kowalski Z.M., 2015. Differences in monocarboxylic acid transporter type 1 expression in rumen epithelium of newborn calves due to age and milk or milk replacer feeding. *J. Anim. Physiol. Anim. Nutr. (Berl.)*, 99, 521-530.
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