

■ **Publication list**

Peer reviewed original research papers

Publikationen in referierten Zeitschriften

- [27] Grosse Brinkhaus, A., Bee, G., Schwarm, A., Kreuzer, M., Dohme-Meier, F., **Zeitz, J.O.** Rumen microbial protein synthesis and nitrogen efficiency as affected by tanniferous and non-tanniferous forage legumes incubated individually or together in Rumen Simulation Technique. *J Sci Food Agric*, doi: 10.1002/jsfa.8643 (2017).
- [26] Grosse Brinkhaus, A., Wyss, U., Arrigo, Y., Girard, M., Bee, G., **Zeitz, J.O.**, Kreuzer, M. Dohme-Meier, F. In vitro ruminal fermentation characteristics and utilisable CP supply of sainfoin and birdsfoot trefoil silages and their mixtures with other legumes. *Animal* 11, 580–590 (2017).
- [25] Grandl, T., **Zeitz, J.O.**, Clauss, M., Furger, M., Kreuzer, M., Schwarm, A. Evidence for increasing digestive and metabolic efficiency of energy utilization with age of dairy cattle as determined in two feeding regimes. *Animal* 24, 1–13 (2017).
- [24] Albrecht, A., Herbert, U., Miskel, D., Heinemann, C., Braun, C., Dohlen, S., **Zeitz, J.O.**, Eder, K., Saremi, B. & J. Kreyenschmidt. Effect of methionine supplementation in chicken feed on the quality and shelf life of fresh poultry meat. *Poult Sci* 96, 2853–2861 (2017).
- [23] **Zeitz, J.O.**, Most, E., Eder, K. Effect of dietary conjugated linoleic acid on vitamin A status of lactating rats and their offspring. *J Anim Physiol Anim Nutr.* doi: 10.1111/jpn.12755 (2017).
- [22] Leiber, F., Schenk, I.K., Maeschli, A., Ivemeyer, S., **Zeitz, J.O.**, Moakes, S., Klocke, P., Staehli, P., Notz, C., Walkenhort, M. Implications of feed concentrate reduction in organic grassland-based dairy systems: a long-term on-farm study. *Animal* 11, 2051–2060 (2017).
- [21] **Zeitz, J.O.**, Kaltenböck, S., Most, E., Eder, K. Antioxidant status and expression of inflammatory genes in gut and liver of piglets fed different dietary methionine concentrations. *Journal of Animal Physiology and Animal Nutrition*, doi: 10.1111/jpn.12633 (2017).
- [20] **Zeitz, J.O.**, Most, E., Eder, K. Conjugated linoleic acid influences the metabolism of tocopherol in lactating rats but has little effect on tissue tocopherol concentrations in pups. *Lipids in Health and Disease* 15, 102 (2016).
- [19] **Zeitz, J.O.**, Ineichen, S., Soliva, C.R., Leiber, F., Tschuor, A., Braun, U., Kreuzer, M., Clauss, M. Variability in microbial population and fermentation traits at various sites within the forestomach and along the digestive tract as assessed in goats fed either grass or browse. *Small Ruminant Research* 136, 7–17 (2016).
- [18] Grandl, F., Amelchanka, S., Furger, M., Clauss, M., **Zeitz, J.O.**, Kreuzer, M., Schwarm, A. Biological implications of longevity in dairy cows: 2. Changes in methane emissions and efficiency with age. *J. Dairy Sci.* 99, 1–14 (2016).
- [17] Grandl, F., Luzi, S.P., Furger, M., **Zeitz, J.O.**, Leiber, F., Ortmann, S., Clauss, M., Kreuzer, M., Schwarm, A. Biological implications of longevity in dairy cows: 1. Changes in feed intake, feeding behavior, and digestion with age. *J. Dairy Sci.* 99, 1–15 (2016).

- [16] Henderson, G., Cox, F., Ganesh, S., Jonker, A., Young, W., Global Rumen Census Collaborators*, Janssen, P. Rumen microbial community composition varies with diet and host, but a core microbiome is found across a wide geographical range. *Scientific Reports* 5, 14567, doi: 10.1038/srep14567. [* "(...) and **Johanna Zeitz**"], (2015).
- [15] Zhou, X., **Zeitz, J.O.**, Meile, L., Kreuzer, M., Schwarm, A. Influence of pH and the degree of protonation on the inhibitory effect of fatty acids in the ruminal methanogen *Methanobrevibacter ruminantium* strain M1. *J Appl Microbiol.* 119, doi: 10.1111/jam.12955 (2015).
- [14] **Zeitz, J.O.**, Fennhoff, J., Kluge, H., Stangl, G.I., Eder, K. Effects of dietary fats rich in lauric and myristic acid on performance, intestinal morphology, gut microbes, and meat quality in broilers. *Poultry Science* 00, 1–10, <http://dx.doi.org/10.3382/ps/pev191> (2015).
- [13] **Zeitz, J.O.**, Most, E., Eder, K. Short communication: Effect of conjugated linoleic acid on concentrations of fat-soluble vitamins in milk of lactating ewes. *J. Dairy Sci.* 98, 7328–7334 (2015).
- [12] Zhou, X., Meile, L., Kreuzer, M., **Zeitz, J.O.** The Effect of Saturated Fatty Acids on Methanogenesis and Cell Viability of *Methanobrevibacter ruminantium*. *Archaea*, Article ID 106916, 9 pages, doi.org/10.1155/2013/106916 (2013).
- [11] **Zeitz, J.O.**, Kreuzer, M., Soliva, C.R. *In vitro* methane formation and carbohydrate fermentation by rumen microbes as influenced by selected rumen ciliate species. *European Journal of Protistology* 49, 389–399 (2013).
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- [6] Staerfl, S.M., Amelchanka, S.L., Kälber, T., Soliva, C.R., Kreuzer, M., **Zeitz, J.O.** Effect of feeding dried high-sugar ryegrass ('AberMagic') on methane and urinary nitrogen emissions of primiparous cows. *Livestock Science* 150, 293–301 (2012).
- [5] Staerfl, S.M., Bosshard, C., Graf, C., **Zeitz, J.O.**, Kreuzer, M., Soliva, C. Einfluss von Jahreszeit und Fütterung auf die Methanemissionen aus Schweizer Milchviehgülle. *Agrarforschung Schweiz* 3, 322–329 (2012).

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