

Ausgewählte Publikationen im Überblick

- **Müller M.**, Bartsch M., Voges J. Computational nutrition in practice: challenges and opportunities from an early-career perspective. *The Journal of Nutrition*. 2026-02-03;Article 101387.
- Bartsch M., Hemmelrath L., Kerlikowsky F., Bruns A., Burhop M., Nebl J., Greupner T., Strowig T., Lesker T., Amend L., Hahn A., Berkemeyer S., **Müller M.** Gut microbiome mediates associations between dietary quality and metabolic risk in a heterogeneous adult population. *Nutrition & Metabolism*. 2026-01-20;23:13.
- Bartsch M., Kerlikowsky F., Hahn A., Berkemeyer S., Woltemate S., Vital M., **Müller M.** Exploring the relationship between dietary indices, gut microbiota, and health status in healthy, older individuals. *Nutrition and Healthy Aging*. 2025;10:1–13.
- Bartsch M., Vital M., Woltemate S., Bouwman F.G., Berkemeyer S.B., Hahn A., **Müller M.** Microbiota-dependent fiber responses: A proof-of-concept study on short-chain fatty acid production in *Prevotella*- and *Bacteroides*-dominated healthy individuals. *The Journal of Nutrition*. 2025;155(11):3809–3822.
- Romanenko M., Bartsch M., Piven L., Hahn A., **Müller M.** Gut microbiota and circadian disruption in humans: is there a rationale for metabolic disorders? *Chronobiology International*. 2025;42(9):1244–1264.
- Romanenko M., Schuster J., Piven L., Synieok, Dubiley T., Bogomaz L., Hahn A., **Müller M.** Association of diet, lifestyle, and chronotype with metabolic health in Ukrainian adults: a cross-sectional study. *Scientific Reports*. 2024;14(1):5143.
- Huang K.D., **Müller M.**, Sivapornnukul P., Bielecka A.A., Amend L., Tawk C., Lesker T.R., Hahn A., Strowig T. Dietary selective effects manifest in the human gut microbiota from species composition to strain genetic makeup. *Cell Reports*. 2024;43(12):115067.
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- Bruns A., **Müller M.**, Schneider I., Hahn A. Application of a modified Healthy Eating Index (HEI-Flex) to compare the diet quality of flexitarians, vegans and omnivores in Germany. *Nutrients*. 2022;14(15):3038.

- Canfora E.E., Hermes G.D.A., **Müller M.**, et al. Fiber mixture-specific effect on distal colonic fermentation and metabolic health in lean but not in prediabetic men. *Gut Microbes*. 2022;14(1):e2009297.
- Al Masri F., **Müller M.**, Nebl J., Greupner T., Hahn A., Straka D. Quality of life among Syrian refugees in Germany: a cross-sectional pilot study. *Archives of Public Health*. 2021;79:213.
- **Müller M.**, Hermes G.D.A., Canfora E.E., Holst J.J., Zoetendal E.G., Smidt H., Troost F., Schaap F.G., Damink S.O., Jocken J.W.E., Lenaerts K., Masclee A.A.M., Blaak E.E. Effect of wheat bran derived prebiotic supplementation on gastrointestinal transit, gut microbiota, and metabolic health: a randomized controlled trial in healthy adults with a slow gut transit. *Gut Microbes*. 2020;12(1):e1704141.
- **Müller M.**, González Hernández M.A., Goossens G.H., Reijnders D., Holst J.J., Jocken J.W.E., van Eijk H., Canfora E.E., Blaak E.E. Circulating but not faecal short-chain fatty acids are related to insulin sensitivity, lipolysis and GLP-1 concentrations in humans. *Scientific Reports*. 2019;9(1):12515.
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