

## Prof. Amélia Camarinha Silva

### Publication list

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#### 2024

1. Rios-Galicia B, Sáenz JS, Yergaliyev T, Roth C, **Camarinha-Silva A\***, Seifert J\*. 2024. Novel taxonomic and functional diversity of eight bacteria from the upper digestive tract of chicken. *International Journal of Systematic and Evolutionary Microbiology* 74 (1). doi: 10.1099/ijsem.0.006210
2. Brandt A, Hernández-Arriaga A, Yergaliyev T, Nier A, Halilbasic E, Trauner M, **Camarinha-Silva A**, Bergheim I. 2024. Short-term intake of fiber-rich oat bran but not spelt bran flake mix lowers bacterial endotoxin levels and improves health parameters in healthy, normal weight, young to middle-aged women. *Journal of Functional Foods* 112. doi: 10.1016/j.jff.2023.105929
3. Jaeger JW, Brandt A, Gui W, Yergaliyev T, Hernández-Arriaga A, Marutha Muthu M, Edlund K, Elashy A, Molinaro A, Möckel D, Sarges J, Halilbasic E, Trauner M, Kahles F, Rolle-Kampczyk U, Hengstler J, Schneider CV, Lammers T, Marschall HU, Bergen M, **Camarinha-Silva A**, Bergheim I, Trautwein C, Schneider KM. 2024. *JHEP Reports* 100987. doi: 10.1016/j.jhepr.2023.100987

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4. Dahl SA, Seifert J, **Camarinha-Silva A**, Cheng YC, Hernández-Arriaga A, Hudler M, Windisch W, König A. 2023. Microbiota and nutrient portraits of european roe deer (*Capreolus capreolus*) rumen contents in characteristic southern german habitats. *Microbial Ecology* doi: 10.1007/s00248-023-02308-5
5. Rajcic D, Kromm F, Hernandez-Arriaga A, Brandt A, Baumann A, Staltner R, **Camarinha-Silva A**, Bergheim I. 2023. Supplementing L-Citrulline can extend lifespan in *C. elegans* and attenuate the development of aging-related impairments of glucose tolerance and intestinal barrier in mice. *Biomolecules* 13(11), 1579. doi:10.3390/biom13111579
6. Avila Santos AP, Kabiru Nata'ala M, Coelho Kasmanas J, Bartholomäus A, Keller-Costa T, Jurburg SD, Tal T, **Camarinha-Silva A**, Saraiva JP, Carvalho A, Stadler PF, Sanches DS, Rocha U. 2023. The AnimalAssociatedMetagenomeDB reveals a bias towards livestock and developed countries and blind spots in functional-potential studies of animal-associated microbiomes. *Animal Microbiome* doi: 10.1186/s42523-023-00267-3
7. Cabrita ARJ, Guilherme-Fernandes J, Spínola M, Maia MRG, Yergaliyev T, Camarinha-Silva A, Fonseca AJM. 2023. Effects of microalgae as dietary supplement on palatability, digestibility, fecal metabolites, and microbiota in healthy dogs. *Frontiers Veterinary Sciences* 10 doi: 10.3389/fvets.2023.1245790
8. Berghaus D, Haese E, Weishaar R, Sarpong N, Kurz A, Seifert J, Camarinha-Silva A, Bennewitz J, Chillón T, Stefanski V, Rodehutschord M. 2023. Nitrogen and lysine utilization efficiencies, protein turnover, and blood urea concentrations in crossbred grower pigs at marginal dietary lysine concentration. *Journal of Animal Science* skad335 doi: 10.1093/jas/skad335
9. Dahl SA, Seifert J, Camarinha-Silva A, Hernández-Arriaga A, Windisch W, König A. 2023. "Get the best out of what comes in" – adaptation of the microbiota of chamois (*Rupicapra rupicapra*) to seasonal forage availability in the Bavarian Alps. *Frontiers Microbiology* 14 doi: 10.3389/fmicb.2023.1238744

10. Galicia BR, Saéñz JS, Yergaliyev T, Camarinha-Silva A, Seifert J. 2023. Host specific adaptations of *Ligilactobacillus aviarius* to poultry. *Current Research in Microbial Sciences* doi: 10.1016/j.crmicr.2023.100199
11. Galicia BR, Saéñz JS, Yergaliyev T, Camarinha-Silva A\*, Seifert J\*. 2023. Host specific adaptations of *Ligilactobacillus aviarius* to poultry. *Current Research in Microbial Sciences* 5 doi: 10.1016/j.crmicr.2023.100199
12. Brandt A, Kromm F, Hernández-Arriaga A, Sánchez IM, Bozkir HO, Staltner R, Baumann A, Camarinha-Silva A, Heijtz RD, Bergheim I. 2023. Cognitive alterations in old mice are associated with intestinal barrier dysfunction and induced toll-like receptor 2 and 4 signaling in different brain regions. *Cells* 2023, 12, 2153 doi: 10.3390/cells12172153
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14. Amin N, Schwarzkopf S, Tröscher-Mußotter J, Camarinha-Silva A, Dänicke S, Huber K, Frahm J, Seifert J. 2023. Host metabolome and faecal microbiome shows potential interactions impacted by age and weaning times in calves. *Animal Microbiome*. 5. 12. doi: 10.1186/s42523-023-00233-z
15. Lazzari G, Münger A, Eggerschwiler L, Borda-Molina D, Seifert J, Camarinha-Silva A, Schrade S, Zähler M, Zeyer K, Kreuzer M, Dohme-Meier F 2023. Effects of *Acacia mearnsii* added to silages differing in nutrient composition and condensed tannins on ruminal and manure-derived methane emissions of dairy cows. *Journal of Dairy Science* 106 doi: 10.3168/jds.2022-22901
16. Haas V, Rodehutschord M, Camarinha-Silva A, Bennewitz J (2023) Inferring causal structures of gut microbiota diversity and feed efficiency traits in poultry using Bayesian learning and genomic structural equation models. *Journal of Animal Science* doi:10.1093/jas/skad044
17. Lazzari G, Münger A, Heimo D, Seifert J, Camarinha-Silva A, Borda-Molina D, Zähler M, Schrade S, Kreuzer M, Dohme-Meier F (2023) Effects of tanniferous sainfoin and *Acacia mearnsii* extract on urinary N excretion and ammonia volatilization from the slurry of dairy cows. *Animal Feed Science and Technology* 297 doi: 10.1016/j.anifeedsci.2023.115577
18. Ponsuksili S, Hadlich F, Perdomo-Sabogal A, Reyer H, Oster M, Trakooljul N, Iqbal MA, Schmucker S, Stefanski V, Roth C, Camarinha-Silva A, Huber K, Sommerfeld V, Rodehutschord M, Wimmers K. The dynamics of molecular, immune and physiological features of the host and the gut microbiome, and their interactions before and after onset of laying in two hen strains (2023) *Poultry Science* 102256, doi:10.1016/j.psj.2022.102256

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19. Tröscher-Mußotter J, Deusch S, Borda-Molina D, Frahm J, Dänicke S, **Camarinha-Silva A**, Huber K and Seifert J (2022) Cow's microbiome from antepartum to postpartum: A long-term study covering two physiological challenges. *Frontiers in Microbiology* 13:1000750. doi: 10.3389/fmicb.2022.1000750
20. Brandt A, Baumann A, Hernandez-Arriaga A, Jung F, Nier A, Staltner R, Rajcic D, Schmeer C, Witte OW, Wessner B, Franzke B, Wagner K-H, **Camarinha-Silva A**, Bergheim I (2022). Impairments of intestinal arginine and NO metabolisms trigger aging-associated intestinal barrier dysfunction and 'inflammaging'. *Redox Biology* 102528, doi:10.1016/j.redox.2022.102528
21. Roth C, Sims T, Rodehutschord M, Seifert J, **Camarinha-Silva, A**. The active core microbiota of two high-yielding laying hen breeds fed with different levels of calcium and phosphorus (2022) *Frontiers in Physiology*, doi: 10.3389/fphys.2022.951350

22. Künzel S, Yergaliyev T, Wild KJ, Philippi H, Petursdottir AH, Gunnlaugsdottir H, Reynolds CK, Humphries DJ, **Camarinha-Silva A**, Rodehutschord M (2022) Methane reduction potential of brown seaweeds and their influence on nutrient degradation and microbiota composition in a rumen simulation technique. *Frontiers in Microbiology* 13: doi:10.3389/fmicb.2022.889618
23. Iqbal MA, Reyer H, Oster M, Hadlich F, Trakooljul N, Perdomo-Sabogal A, Schmucker S, Stefanski V, Roth C, **Camarinha-Silva A**, Huber K, Sommerfeld V, Rodehutschord M, Wimmers K, Ponsuksili S (2022) Multi-omics reveals different strategies in the immune and metabolic systems of high-yielding strains of laying hens. *Frontiers in Genetics* 13: doi:10.3389/fgene.2022.858232
24. Haas V, Vollmar S, Preuß S, Rodehutschord M, **Camarinha-Silva A**, Bennewitz J (2022) Composition of the ileum microbiota is a mediator between the host genome and phosphorus utilization and other efficiency traits in Japanese quail (*Coturnix japonica*). *Genetics Selection Evolution* 54:1 20 doi: 10.1186/s12711-022-00697-8

## 2021

25. Tröscher-Mußotter JB, Saenz JS, Grindler S, Meyer J, Kononov SU, Mezger B, Borda-Molina D, Frahm J, Daenicke S, **Camarinha-Silva A**, Huber K, Seifert J (2021) Microbiome clusters disclose physiologic variances in dairy cows challenged by calving and lipopolysaccharides. *mSystems* 6:5 e0085621. doi: 10.1128/mSystems.00856-21
26. Baumann A, Nier A, Hernández-Arriaga A, Brandt A, Lorenzo Pisarello, MJ, Jin CJ, Pilar E, Camarinha-Silva A, Schattenberg JM, Bergheim I (2021). Toll-like receptor 1 as a possible target in non-alcoholic fatty liver disease. *Scientific Reports*, 11(1), 17815. doi:10.1038/s41598-021-97346-9
27. Siegert W, Krieg J, Sommerfeld V, Borda-Molina D, Feuerstein D, **Camarinha-Silva A**, Rodehutschord M (2021). Phytase supplementation effects on amino acid digestibility in broiler chickens are influenced by dietary calcium concentrations but not by acid-binding capacity. *Current Developments in Nutrition* nzab103. doi:10.1093/cdn/nzab103
28. Amin N, Schwarzkopf S, Kinoshita A, Tröscher-Mußotter J, Dänicke S, **Camarinha-Silva A**, Huber K, Frahm J, Seifert J. (2021) Evolution of rumen and oral microbiota in calves is influenced by age and time of weaning. *Animal Microbiome* 3(1):31. doi: 10.1186/s42523-021-00095-3.
29. Baumann A, Hernández-Arriaga A, Brandt A, Sánchez V, Nier A, Jung F, Kehm R, Höhn A, Grune T, Frahm C, Witte OW, **Camarinha-Silva A\***, Bergheim I\* " Microbiota profiling in aging-associated inflammation and liver degeneration *International Journal of Medical Microbiology* 311(4): 151500 doi: 10.1016/j.ijmm.2021.151500
30. Borda-Molina D, Iffland H, Schmid M, Müller R, Schad S, Seifert J, Tetens J, Bessei W, Bennewitz J, **Camarinha-Silva A** (2021) "Gut microbial composition and predicted functions are not associated with feather pecking and antagonistic behavior in laying hens" *Life* 11(3):235. doi:10.3390/life11030235
31. Borda-Molina D, Mátis G, Mackei M, Neogrady Z; Huber K, Seifert J, **Camarinha-Silva A** (2021) "Caeca microbial variation in broiler chickens as a result of dietary combinations using two cereal types, supplementation of crude protein and sodium butyrate" *Frontiers in Microbiology* 11(3453). doi:10.3389/fmicb.2020.617800
32. Künzel S, Borda-Molina D, Zuber T, Hartung J, Siegert W, Feuerstein D, **Camarinha-Silva A**, Rodehutschord M (2021) "Relative phytase efficacy values as affected by response trait including ileal microbiota composition" *Poultry Science* 100(6), 101133. doi:10.1016/j.psj.2021.101133
33. Ponsuksili S, Oster M, Reyer H, Hadlich F, Trakooljul N, Rodehutschord M, **Camarinha-Silva A**, Bennewitz J and Wimmers K (2021) "Genetic regulation and heritability of miRNA and mRNA expression link to phosphorus utilization and gut microbiome" *Open Biology* 11(2):200182. doi:10.1098/rsob.200182

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35. Rajčić D, Baumann A, Hernández-Arriaga A, Brandt A, Nier A, Jin CJ, Sanchez V, Jung F, **Camarinha-Silva A**, Bergheim I (2021) "Citrulline supplementation attenuates the development of non-alcoholic steatohepatitis in female mice through mechanisms involving intestinal arginase" *Redox Biology* 41:101879. doi:10.1016/j.redox.2021.101879

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38. Borda-Molina D, Roth C, Hernández-Arriaga A, Rissi D, Vollmar S, Rodehutschord M, Bennewitz J, **Camarinha-Silva A**. (2020) "Effects on the Ileal Microbiota of Phosphorus and Calcium Utilization, Bird Performance, and Gender in Japanese Quail" *Animals* 10, 885. doi: 10.3390/ani10050885
39. Vollmar S, Wellmann R, Borda-Molina D, Rodehutschord M, **Camarinha-Silva A** and Bennewitz J (2020). "The Gut Microbial Architecture of Efficiency Traits in the Domestic Poultry Model Species Japanese Quail (*Coturnix japonica*) Assessed by Mixed Linear Models" *G3: Genes, Genomes, Genetics*. doi: 10.1534/g3.120.401424
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41. Weishaar R, Wellmann R, **Camarinha-Silva A**, Rodehutschord M, Bennewitz J (2020) "Selecting the hologenome to breed for an improved feed efficiency in pigs-A novel selection index" *Journal of Animal Breeding and Genetics* 137:14-22. doi: 10.1111/jbg.12447

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43. Künzel S, Borda-Molina D, Kraft R, Sommerfeld V, Kühn I, **Camarinha Silva A**, Rodehutschord M (2019) "Impact of coccidiostat and phytase supplementation on gut microbiota composition and phytate degradation in broiler chickens" *Animal Microbiome* 2:1. doi: 10.1186/s42523-019-0006-2
44. Brandt A, Hernández-Arriaga A, Kehm R, Sánchez V, Jin CJ, Nier A, Baumann A, **Camarinha-Silva A** and Bergheim I (2019). "Metformin attenuates the onset of non-alcoholic fatty liver disease and affects intestinal microbiota and barrier in small intestine." *Scientific Reports* 9(1): 6668. doi:10.1038/s41598-019-43228-0
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54. **Camarinha-Silva A**<sup>\*</sup>, Maushammer M<sup>\*</sup>, Wellmann R, Vital M, Preuss S, Bennewitz J. (2017). Host genome influence on gut microbial composition and microbial prediction of complex traits in pigs. *Genetics* 206(3): 1637. doi: 10.1534/genetics.117.200782
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56. Duarte M, Nielsen A, **Camarinha-Silva A**, Vilchez-Vargas R, Bruls T, Wos-Oxley ML, Jauregui R, Pieper DH. (2017) Functional soil metagenomics: elucidation of polycyclic aromatic hydrocarbon degradation potential following 12 years of in situ bioremediation. *Environmental Microbiology* 19(8):2992-3011. doi: 10.1111/1462-2920.13756

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#### Later than 2014

64. **Camarinha-Silva, A**, Chaves, D, Jáuregui, R, Schaumburg, F, Becker K, Wos-Oxley, ML, Pieper, DH. (2014) Comparing the anterior nares bacterial community of two discrete human populations using Illumina amplicon sequencing. *Environmental Microbiology* 16: 2939-2952. doi: 10.1111/1462-2920.12362
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#### Book chapter

1. **Camarinha-Silva A.**, Fricke W.F. (2018) Molecular Microbiome Analysis. In: Haller D. (eds) *The Gut Microbiome in Health and Disease*. Springer, Cham

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