

Publication record (peer-reviewed, chronological order)

In review

- Balasubramaniam K, Mueller-Klein N, Risely A, Vink T, Clutton-Brock T, Manser M, Sommer S. Impact of animal sociality on microbiome community ecology: insights from wild meerkats in the Kalahari.
- Fähnle J, Wilhelm K, Wiese B, Manser M, Clutton-Brock T, Sommer S, Müller-Klein N. Natural variability of trace-amine associated receptors in wild meerkats.
- Jetter K, Jani K, Wilhelm K, Stehle U, Chamedjeu R, Riedel C, Wilfert L, Schäfer P, Sommer S. Fertilization impacts microbiomes along the grassland trophic chain.
Preprint: <https://biorxiv.org/cgi/content/short/2024.12.06.627205v1>
- Meyer M, Eibner G, Heni AC, Wilhelm K, Sommer S. Changes in biodiversity drive Trypanosoma infections of wildlife in Panama.
- Müller-Klein N, Risely A, Wilhelm K, Riegel V, Manser M, Clutton-Brock T, Santos PSC, Melville DW, Sommer S. Twenty-year co-evolutionary arms race between meerkat MHC and Tuberculosis. *Nature Ecology & Evolution*, in review.
Preprint: <https://doi.org/10.21203/rs.3.rs-4685784/v1>
- Speer K, Viquez Rodríguez L, Frick W, Ibarra A, Simmons N, Dittmar K, Sánchez Calderón R, Preciado R, Medellín R, Tschapka M, Sommer S, Perkins S (2025) Comparative community ecology reveals conserved ectoparasite microbiomes amidst variable host and environment microbiomes. *Ecology and Evolution*.

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- Melville DW, Meyer M, Kümmerle C, Alvarado-Barrantes KA, Wilhelm K, **Sommer S**, Tschapka M, Risely A (2025) Delayed feeding disrupts diurnal oscillations in the gut microbiome of a neotropical bat in captivity. *FEMS*.

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- Böning P, Plewnia A, Virgo J, Adam J, Banowski N, Bleidißel S, Dabbagh N, Dalbeck L, Düssel H, Ellwart S, Feiler L, Ferner V, Fischer M, Gemeinhardt L, Guschal M, Geiger A, Hansbauer H, Hechinger M, Hildwein T, Hirz A, Hoppe M, Jung L, Jurczyk M, Kirst K, Kupfer A, Melville DW, Odenwälder G, Ohloff D, Peters M, Preissler K, Prietzel M, Reinhardt T, Schlüpmann M, Schneider M, Schreiber R, Schulte U, Schulz V, Schweinsberg M, Schwemmer H, **Sommer S**, Steinfartz S, Thein J, Twietmeyer S, Vences M, Vogt-Pokrant F, Wagner N, Wegge J, Ziemek H-P, Veith M, Lötters S (2024) Die Salamanderpest: Charakterisierung, aktuelle Situation in Deutschland, Handlungsempfehlungen. *Zeitschrift für Feldherpetologie*, 31, 1-38.

- Fleischer R, Jones C, Ledezma-Campos P, Czirják GÁ, **Sommer S**, Gillespie TR, Vicente-Santos A (2024) Gut microbial shifts in vampire bats linked to immunity due to changed diet in human disturbed landscapes. *Science of the Total Environment*, 907, 167815. <https://doi.org/10.1016/j.scitotenv.2023.167815>.
- Fleischer R, Eibner GJ, Schwensow NI, Pirzer F, Paraskevopoulou S, Mayer G, Corman VM, Drosten C, Wilhelm K, Heni AC*, **Sommer S***, Schmid DW* (2024) Immunogenetic-pathogen networks shrink in Tome's spiny rat, a generalist rodent inhabiting disturbed landscapes. *Communications Biology*, 7, 169. doi: 10.1038/s42003-024-05870-x. * shared senior authors, contributed equally to the study.
- Fleischer R, Velling M, Peters W, Peterka T, Franke F, Jůnková Vymyslická P, Rehbein S, Heurich M, **Sommer S** (2024) Invasive *Fascioloides magna* infections impact gut microbiota in a definitive host in Europe. *International Journal for Parasitology: Parasites and Wildlife*. <https://doi.org/10.1016/j.ijppaw.2024.101024>
- Leibniz-Forschungsnetzwerk Biodiversität (2024) 10 Must-Knows aus der Biodiversitätsforschung 2024. Thonicke K, Rahner E, Arneth A, Bonn A, Borchard N, Chaudhary A, Darbi M, Dutta T, Eberle U, Eisenhauer N, Farwig N, Flocco CG, Freitag J, Grobe P, Grosch R, Grossart HP, Grosse A, Grützmaker K, Hagemann N, Hansjürgens B, Hartman Scholz A, Hassenrück C, Häuser C, Hickler T, Hölker F, Jacob U, Jähnig S, Jürgens K, Kramer-Schadt S, Kretsch C, Krug C, Lindner JP, Loft L, Mann C, Matzdorf B, Mehring M, Meier R, Meusemann K, Müller D, Nieberg M, Overmann J, Peters RS, Pörtner L, Pradhan P, Prochnow A, Rduch V, Reyer C, Roos C, Scherber C, Scheunemann N, Schroer S, Schuck A, Sioen GB, **Sommer S**, Sommerwerk N, Tanneberger F, Tockner K, van der Voort H, Veenstra T, Verburg P, Voss M, Warner B, Wende W, Wesche K. Potsdam, Deutschland. 72 Seiten. DOI: 10.5281/zenodo.10794362.
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- Olayemi A, Schmid DW, Fleischer R, Wilhelm K, Heni A, Mueller-Klein N, Haikukutu L, Fichet-Calvet E, Günther S, **Sommer S** (2024) MHC-I alleles mediate clearance and antibody response to the zoonotic Lassa virus in *Mastomys* rodent reservoirs. *PLoS Neglected Tropical Diseases*, 18(2), e0011984. <https://doi.org/10.1371/journal.pntd.0011984>.
- Sommer S** (2024) Darmmikrobiom - Mikroplastik und Klimaveränderungen beeinflussen die (mikrobielle) Gesundheit. *Karriere, Köpfe und Konzepte. BIOSpektrum*, 02.24.

Viquez-R L, Henrich M, Riegel V, Bader M, Wilhelm K, Heurich M, **Sommer S** (2024) A Taste of Wilderness: Supplementary feeding of red deer (*Cervus elaphus*) increases individual microbiome diversity but lowers abundance of important gut symbionts. *Animal Microbiome*, 6:28. 10.1186/s42523-024-00315-6.

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