

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 communities: insights from wild meerkats in the Kalahari.
- Carranco AS, Romo D, de Lourdes Torres M, Wilhelm K, Gillingham MAF, Sommer S. Turtle egg microbiome modulates fusariosis fungal infection and hatching success.
- 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.

2025

- 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 Microbiol Ecol*, 101(2). doi: 10.1093/femsec/fiaf012.
- Melville DW, Meyer M, Risely A, Wilhelm K, Baldwin HJ, Badu EK, Nkrumah EE, Oppong SK, Schwensow N, Tschapka M, Vallo P, Corman VM, Drosten C, **Sommer S** (2025) Hibecovirus (genus Betacoronavirus) infection linked to gut microbial dysbiosis in bats. *ISME Communications*, 5(1). <https://doi.org/10.1093/ismeco/ycae154>.
- Meyer M, Eibner G, Heni AC, Wilhelm K, **Sommer S** (2025). Changes in biodiversity drive Trypanosome infections of wildlife in Panama. *One Health*, 21, 101113. <https://doi.org/10.1016/j.onehlt.2025.101113>.
- Müller-Klein N, Risely A, Wilhelm K, Riegel V, Manser M, Clutton-Brock T, Silver L, Santos PSC, Melville DW, **Sommer S** (2025) Twenty-years of Tuberculosis-driven selection shaped the evolution of meerkat MHC. *Nature Ecology & Evolution*. doi: 10.1038/s41559-025-02837-x.
- 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*, 15:e71120. <https://doi.org/10.1002/ece3.71120>.

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- 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.
142. Fleischer R, Jones C, Ledezma-Campos P, Cziráj 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>.
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139. 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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- 123b. Leibniz Research Network Biodiversity (2022) engl version available: 10 Must Knows from Biodiversity Science 2022. Thonicke K, Rahner E, Arneth A, Bartkowski B, Bonn A, Döhler C, Finger R, Freitag J, Grosch R, Grossart H.-P, Grützmaker K, Hartman Scholz A, Häuser C, Hickler T, Hölker F, Jähnig SC, Jeschke J, Kasen R, Kastner T, Kramer-Schadt S, Krug C, Lakner S, Loft L, Matzdorf B, Meakins F, De Meester L, Monaghan MT, Müller D, Overmann J, Quaas M, Radchuk V, Reyer C, Roos C, Scholz I, Schroer S, Sioen GB, **Sommer S**, Sommerwerk N, Tockner K, Turk Z, Warner B, Wätzold F, Wende W, Veenstra T, van der Voort H. Potsdam, Deutschland. 60 pages.
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