

Curriculum Vitae

Name Dr. Oliver P. Höner, Dr. phil. nat.

Current Position Senior scientist
Co-Director Ngorongoro Hyena Project

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Education

1996 – 2001 Doctorate in Philosophy and Natural Sciences (Dr. phil. nat.), University of Bern, Switzerland, and Max Planck Institute for Behavioural Physiology Seewiesen, Germany. Thesis: “Responses of spotted hyenas *Crocuta crocuta* to long-term changes in herbivore populations in the Ngorongoro Crater, Tanzania”.

1994 Diploma in Natural Sciences (Dipl. Natw. ETH), Swiss Federal Institute of Technology (ETH Zürich), Switzerland. Thesis: “Associations between red colobus and diana monkeys in Tai Nationalpark, Ivory Coast”.

1988 – 1993 Studies in Natural Sciences, Behavioral Biology, ETH Zürich, Switzerland.

Research Experience

Since 2003 Research scientist, Leibniz-IZW.

2023 – 2026 Guest scientist, Institut des Sciences de l'Évolution de Montpellier France.

2002 Postdoctoral research associate, Leibniz Institute for Molecular Pharmacology Berlin, Germany.

1996 – 2001 Doctoral research associate, University of Bern, Switzerland, and Max Planck Institute for Behavioural Physiology (MPIV) Seewiesen, Germany.

1995 – 1996 Scholar of the Deutsche Akademische Austauschdienst (DAAD) for advanced scientific education, MPIV Seewiesen and Ludwig-Maximilians-Universität Munich, Germany.

Funding (selection of recent grants)

2022 – 2027 “DESPOT: The evolution of despotic societies in mammals” funded by German Science Foundation (DFG) and Agence Nationale de la Recherche France (ANR) (882.500 €)

2022 – 2026 “WILDER: Demographische Resilienz von Wildtieren: Wie und weshalb sie sich verändert” funded by German Federal Ministry of Research, Technology and Space (BMFTR) (491.500 €)

2021 – 2025 “EVOWILD: Evolution in wild populations” funded by European Research Council (ERC) (60.000 €)

2020 – 2023 “Does nepotism make populations more or less vulnerable to environmental change?” funded by German Science Foundation (DFG) (332.600 €)

2019 – 2022 “Conserving Northern Tanzania’s Large Carnivores via a Community-driven Approach” funded by IUCN and European Commission SOS – Save Our Species initiative to help human-carnivore coexistence in Africa (240.600 €)

Since 2013 Donations, private donors and foundations (250.000 €)

Professional Activities and Memberships

Since 2022	Member, German Zoological Society
Since 2019	Member and Scientific advisor, Greater Serengeti-Mara Conservation Society
2019	Conference organiser, Wildlife Research and Conservation, Berlin, Germany,
Since 2018	Member and Scientific advisor, Kenya-Tanzania Borderlands Carnivore Conservation Coalition
Since 2007	Member and Red List Authority, IUCN/SSC Hyaena Specialist Group
Since 2006	Scientific advisor, Tanzania Wildlife Research Institute
Since 2005	Reviewer, 22 journals
Since 2001	Member, Swiss Zoological Society
Since 2001	Scientific advisor, Ngorongoro Conservation Area Authority
1996 – 2008	Member, Association for the Study of Animal Behaviour

Honors and Recognitions

2010	Award for outstanding scientific contribution, Leibniz Association
2007	Award for outstanding scientific contribution, Leibniz Association
2004	Poster Prize, 5th International Symposium on Physiology, Behaviour and Conservation of Wildlife, Berlin
1995	Full scholarship, Deutscher Akademischer Austauschdienst (DAAD)

Key publications

Category A

1. Davidian E, Höner OP (2022) Kinship and similarity drive coordination of breeding-group choice in male spotted hyenas. **Biology Letters** 18(12): 20220402.
2. Kappeler P, Benhaiem S, Fichtel C, Fromhage L, Höner OP, Jennions MD, Kaiser S, Krüger O, Schneider JM, Tunj C, van Schaik J, Goymann W (2022) Sex roles and sex ratios in mammals. **Biological Reviews** 98(2).
3. Bonnet T, Morissey MB, de Villemereuil P, [...], Höner OP, [...], Kruuk LEB (2022) Genetic variance in fitness indicates rapid contemporary adaptive evolution in wild animals. **Science** 376: 1012-1016.
4. Davidian E, Wachter B, Heckmann I, Dehnhard M, Hofer H, Höner OP (2021) The interplay between social rank, physiological constraints and investment in courtship in male spotted hyenas. **Functional Ecology** 35: 635-649.
5. Vulllioud C*, Davidian E*, Wachter B, Rousset F, Courtiol A, Höner OP (2019) Social support drives female dominance in the spotted hyaena. **Nature Ecology & Evolution** 3: 71-76.
6. Davidian E, Courtiol A, Wachter B, Hofer H, Höner OP (2016) Why do some males choose to breed at home when most other males disperse? **Science Advances** 2: e1501236.
7. Höner OP, Wachter B, Goller KV, Hofer H, Runyoro V, Thierer D, Fyumagwa RD, Müller T, East ML (2012) The impact of a pathogenic bacterium on a social carnivore population. **Journal of Animal Ecology** 81(1): 36-46.
8. Höner OP, Wachter B, Hofer H, Wilhelm K, Thierer D, Trillmich F, Burke T, East ML (2010) The fitness of dispersing spotted hyaena sons is influenced by maternal social status. **Nature Communications** 1: 60.
9. Höner OP, Wachter B, East ML, Streich WJ, Wilhelm K, Burke T, Hofer H (2007) Female mate-choice drives the evolution of male-biased dispersal in a social mammal. **Nature** 448(7155): 798-801.
10. Höner OP, Wachter B, Hofer H, East ML (2002) The response of spotted hyenas to long-term changes in prey populations: functional response and interspecific kleptoparasitism. **Journal of Animal Ecology** 71(2): 236-246.

Category B

1. Viering K, **Höner O** (im Druck) Entdecke die Löwen. Natur und Tier-Verlag GmbH.
2. Viering K, **Höner O** (2023) Entdecke die Hyänen. Natur und Tier-Verlag GmbH. ISBN: 978-3-86659-516-3.
3. Harms U, Röllig K, **Höner O** (2023) Hyänen und Massai im Ngorongoro-Schutzgebiet. Unterricht Biologie. Friedrich Verlag GmbH. Ausgabe Nr. 499/2024.
4. Davidian E, **Höner O** (2021). A king among queens. *Frontiers in Ecology and the Environment* 19(10): 573.
5. **Höner OP**, Davidian E (2018). Friends over muscles: How female hyenas came to dominate males. Website of Ngorongoro Hyena Project
6. Davidian E, **Höner OP** (2016). Mama's boys are not losers in spotted hyenas! Website of Ngorongoro Hyena Project
7. **Höner OP** (2016). Triplets survived! Website of Ngorongoro Hyena Project
8. **Höner OP** (2013). Die Macht der Alpha-Mütter. *DFG-Magazin Forschung* 1: 16-21
9. **Höner OP**, Wachter B, Runyoro V (2009). Spotted hyenas in the Ngorongoro Crater: Their life in a complex society and their role in one of the world's most fascinating ecosystems. Leaflet
10. **Höner OP**, Wachter B (2007). Spotted hyenas in the Ngorongoro Crater: population dynamics and the impact of a disease outbreak. *Miombo* 30: 10-14 (quarterly newsletter of the Wildlife Conservation Society of Tanzania)