

Prof. Dr. Matthias C. Rillig

Personal Details

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 Inst. for Biology
 Ecology of Plants

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Research Interests

Global change, soil ecology, fungi, soil biodiversity

Academic Training

1997 PhD in Ecology, University of California/ San Diego State University
1992-1993 Non-graduating student. University of Edinburgh (Scotland)
1991 Vordiplom (Biology), Universität Kaiserslautern, Germany.

Professional Experience

2007-present Professor of Ecology, Freie Universität Berlin
2013-present Director, Berlin-Brandenburg Institute of Advanced Biodiversity Research
1999-2007 Assistant and Associate Professor, University of Montana (USA)
1998-1999 Postdoc, Carnegie Institution of Washington, Stanford (USA)

Cooperations with other Institutions and Consultancy in Committees (selected)

Member, DFG (German Research Foundation) Permanent Senate Commission on Fundamental Issues of Biological Diversity (2021-)

Editorial Activities

Editor-in-Chief Pedobiologia (2004-2014), Editorial board Ecology (2008-2021), Editorial Advisory Board Journal of Sustainable Agriculture and Environment (2021-)

Professional Services

Dean, Division (Fachbereich) of Biology/Chemistry/Pharmacy, Freie Universität Berlin (2019-2021); Dean of Research, Division (Fachbereich) of Biology/Chemistry/Pharmacy, Freie Universität Berlin (2015-2019)

Honors, Awards, Nominations, Special Appointments (selected)

Member, Leopoldina – German National Academy of Sciences
Member, Academia Europaea – The Academy of Europe
Fellow, Ecological Society of America
ERC Advanced Grant

Funding Activities (last 5 years, selected)

Speaker, BMBF Project “Bridging in Biodiversity Science” (2016-2021), 10 Million €
ERC Advanced Grant “Gradual Change” (2016-2023), 2.4 Million €
Speaker, BMBF Project “ μ Plastic” (2020-2024), 1.1 Million €
Multiple EU projects, multiple DFG projects (including SFB 973), multiple BMBF projects

Peer-Reviewed Publications (selected)

Chaudhary VB, Aguilar-Trigueros CA, Mansour I, **Rillig MC**. (2022). Fungal dispersal across spatial scales. *Annual Review of Ecology, Evolution, and Systematics* 53:69-85. doi: 10.1146/annurev-ecolsys-012622-021604.

Camenzind T, Weimerhaus P, Lehmann A, Aguilar-Trigueros CA, **Rillig MC**. (2022). Soil fungi invest into asexual sporulation under resource scarcity, but trait spaces of individual isolates are unique. *Environmental Microbiology* 24: 2962-2978.

Yang G, Ryo M, Roy J, Lammel D, Ballhausen MB, Jing X, Zhu X, **Rillig MC**. (2022). Multiple anthropogenic pressures eliminate the effects of soil microbial diversity on ecosystem functions in experimental microcosms. *Nature Communications* 13:4260. doi: 10.1038/s41467-022-31936-7.

Rillig MC, Kim SW, Schäffer A, Sigmund G, Groh K, Wang Z. (2022). About ‘controls’ in pollution-ecology experiments in the Anthropocene. *Environmental Science & Technology* 56:11928–11930.

Rillig MC, Ryo M, Lehmann A. (2021). Classifying human influences on terrestrial ecosystems. *Global Change Biology* 27:2273-2278.

Rillig MC, Lehmann A. (2020). Microplastic in terrestrial ecosystems. *Science* 368:1430-1431.

Pinek L, Mansour I, Lakovic M, Ryo M, **Rillig MC**. (2020). Rate of environmental change across scales in ecology. *Biological Reviews* 95:1798-1811.

Ryo M, Aguilar-Trigueros CA, Pinek L, Muller LAH, **Rillig MC**. (2019). Basic principles of temporal dynamics. *Trends in Ecology & Evolution* 34:723-733.

Bielcik M, Aguilar-Trigueros CA, Lakovic M, Jeltsch F, **Rillig MC**. (2019). The role of active movement in fungal ecology and community assembly. *Movement Ecology* 7:36. doi: 10.1186/s40462-019-0180-6.

Rillig MC, Ryo M, Lehmann A, Aguilar-Trigueros CA, Buchert S, Wulf A, Iwasaki A, Roy J, Yang G. (2019). The role of multiple global change factors in driving soil functions and microbial biodiversity. *Science* 366: 886-890.