

Curriculum Vitae *Prof. Dr. Antonis Chatzinotas* (short, August 2026)

Personal information

Name: Antonis Chatzinotas

Birthday: 24.12.1969, Munich/Germany

Nationality: Greek, German

Work address

Helmholtz Centre for Environmental Research – UFZ

Department of Applied Microbial Ecology

Group Microbial Interaction Ecology

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Present position

Since 01/2020	Full Professor Microbial Interaction Ecology, Leipzig University
Since 2011	Tenured Group Leader Microbial Interaction Ecology, Helmholtz Centre for Environmental Research - UFZ, Leipzig/Germany

Postdoctoral positions

2004-2011	Senior researcher, Helmholtz Centre for Environmental Research - UFZ, Leipzig/Germany
1999-2004	Postdoctoral researcher, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Higher Education

1996-2000	PhD (Dr. sci. nat.), Swiss Federal Institute of Technology Zürich (ETH Zürich), Switzerland
1989-1995	Diplom in Biology, Ludwig-Maximilians-University Munich/Germany

Line of research

Prof. Chatzinotas and his group “Microbial Interaction Ecology” at the UFZ are studying the diversity, ecology and functioning of microbial communities and their interactions across different trophic levels (including bacteria, protists, predatory bacteria and viruses) in natural and engineered systems. This research addresses amongst others (i) the response of microbial communities and functions to environmental change and human activities in terrestrial systems, (ii) the diversity and interactions within/between different trophic levels (bacteria-virus-protists), (iii) the evaluation of ecological theories in microbial ecology. To this end, he and his group combine a wide array of experimental set-ups ranging from miniaturized lab experiments to large scale field experiments which are analysed using e.g. isolation of microorganisms/viruses, microscopy, trait-based approaches, genomics, metagenomics/viromics, amplicon sequencing, qPCR, functional assays, stable-isotope probing, metabolite analysis.

Organization of scientific meetings (selection)

Co-Chair & Organizer 17th *International Symposium on Microbial Ecology ISME*, 2018, Leipzig, Germany (> 2200 participants)

Co-Chair & Organizer Symposium “*Microbial Systems Ecology*” at the *FEMS - 5th Congress of European Microbiologists*, 2013, Leipzig, Germany (> 1000 participants)

Memberships and service to the scientific community (selection)

Since 2022: T.E.A.M. mentor for female postdocs in a cross-university programme

Since 2021: Mentor of Master students of the University Leipzig

Since 2015: Elected member of the German Centre for Integrative Biodiversity Research (*iDiv*)

Project review assignments for DFG Emmy Noether Programme, Alexander von Humboldt Stiftung, Deutsche Bundesstiftung Umwelt, Swiss National Science Foundation (SNF), UK Biotechnology and Biological Sciences Research Council (BBSRC), Hungarian Scientific Research Fund (OTKA), Netherlands Organisation for Scientific Research (NWO)

Since > 20 years: teaching (lectures, seminars, lab courses). Main teaching responsibilities since 2018 at Leipzig University include “Modul 11-BIO-204 - Structure, Function and Ecology of Microbial Communities” within the International Master Biodiversity, Ecology and Evolution

Research grants (selection)

07/2025-06/2028	DFG: Live/Dead - Contribution of soil protists to carbon cycles through microbe predation and necromass (1 PhD student funded)
08/2025-07/2027	iDiv: Impacts of land use and climate change on soil viromes, viral lifestyles and nutrient cycling - Flexpool (LuClivir) (1 Postdoc funded)
11/2022-10/2026	EU-HORIZON: RATION-Risk Assessment Innovation for low-risk pesticides (1 Postdoc funded)
07/2020-06/2023	EU-H2020, Marie Skłodowska-Curie Actions Innovative Training Networks 2020: The European Industry - Academia Network for Revising and Advancing the Assessment of the Soil Microbial TOxicity of Pesticides’ — ‘ARISTO’ (1 PhD student funded)
03/2018-01/2020	DFG: The virome of grass land soils under different land use intensity as the driver for microbial community structure and function (KiWion) (Lead PI, plus 2 Co-PIs; 1 Postdoc funded)
10/2017-6/2021	DFG-SFB “AquaDiva”, <u>Subproject Phase II</u> : Phages as vectors and indicators of biological information: consequences for microbial communities and functions (Co-PI; 1 + 1 PhD student funded)
10/2013-6/2017	DFG-SFB “AquaDiva”, <u>Subproject Phase I</u> : Phages as vectors and indicators of biological information in the Earth’s Critical Zone (Co-PI; 1 + 1 PhD student funded)
08/2012-07/2014	DFG-Trilateral: MICROPRED - Microbial predators for biocontrol of bacterial pathogens in WWTP (Lead PI and Coordinator; plus 3 Co-PIs; 1 PhD student funded)

Selected relevant publications (total publications^{WoS}: n=117 h-index = 43^{WoS} / 49^{GS})
ResearcherID: D-6232-2013; ORCID ID: orcid.org/0000-0002-0387-9802

1. Pérez-Villanueva, M. E., Jurburg, S. D., Malandain, C., Ghanem, N., **Chatzinotas, A.** (2026). Soil protist diversity enhances prokaryotic diversity, and regulates dominant prokaryotes and the abundance of key nitrogen cycling genes. *Soil Biology and Biochemistry*, 212: 110014.
2. Papadopoulou, K. K., **Chatzinotas, A.**, Diaz-Otero, B. G., Brader, G., Karpouzas, D. G., Ruiz, M. G., ... & Sessitsch, A. (2025). Benefits and challenges of upcoming microbial plant protection applications sustaining planetary health. *Isience*, 28: 113557.
3. Nieto, E. E., Jurburg, S. D., Steinbach, N., Festa, (...), **Chatzinotas, A.** (2024). DNA stable isotope probing reveals the impact of trophic interactions on bioaugmentation of soils with different pollution histories. *Microbiome*, 12(1), 146.
4. Cohen, Y., Johnke, J., Abed-Rabbo, A., Pasternak, Z., **Chatzinotas, A.**, Jurkevitch, E. (2024). Unbalanced predatory communities and a lack of microbial degraders characterize the microbiota of a highly sewage-polluted Eastern-Mediterranean stream. *FEMS Microbiology Ecology*, 100(6), fiae069.
5. Jurburg, S. D., Hom, E. F., **Chatzinotas, A.** (2023). Beyond pathogenesis: Detecting the full spectrum of ecological interactions in the virosphere. *PLoS Biology*, 21(5), e3002109.
6. Jurburg, S. D., Eisenhauer, N., Buscot, F., **Chatzinotas, A.**, ... & Singh, B. K. (2022). Potential of microbiome-based solutions for agrifood systems. *Nature Food*, 3(8), 557-560.
7. Guerra, C. A., Bardgett, R. D., Caon, L., Crowther, T. W., Delgado-Baquerizo, M., (...), **Chatzinotas A.** (...), Eisenhauer, N. (2021). Tracking, targeting, and conserving soil biodiversity. *Science*, 371(6526), 239-241.
8. Karakoç C., Clark A., **Chatzinotas A.** (2020). Diversity and coexistence are influenced by time-dependent species interactions in a predator-prey system. *Ecology Letters* 23: 983-993
9. Cohen Y., Pasternak Z., Johnke J., Abed-Rabbo A., Kushmaro A., **Chatzinotas A.**, Jurkevitch E. (2019). Bacteria and micro-eukaryotes are differentially segregated in sympatric wastewater microhabitats. *Environmental Microbiology* 21: 1757-1770
10. Kuppardt A., Fester T., Härtig C., **Chatzinotas A.** (2018). Rhizosphere protists change metabolite profiles in *Zea mays*. *Frontiers in Microbiology* 9:857
11. Karakoç C., Radchuk V., Harms H., **Chatzinotas A.** (2018). Interactions between predation and disturbances shape prey communities. *Scientific Reports* 8:2968
12. Johnke J., Baron M., Leeuw M., Kushmaro A., Jurkevitch E., Harms H., **Chatzinotas A.** (2017). A generalist protist predator enables coexistence in multitrophic predator-prey systems containing a phage and the bacterial predator *Bdellovibrio*. *Frontiers in Ecology and Evolution* 5:124
13. Saleem M., Fetzer I., Harms H., **Chatzinotas A.** (2016). Trophic complexity in aqueous systems: Bacterial species richness and protistan predation regulate dissolved organic carbon and dissolved total nitrogen removal. *Proceedings of the Royal Society B: Biological Sciences* 283: 20152724
14. Fetzer I., Johst K., Schäwe R., Banitz T., Harms H., **Chatzinotas A.** (2015). The extent of functional redundancy changes as species' roles shift in different environments. *Proceedings of the National Academy of Sciences of the USA* 112: 14888-14893
15. Lentendu G., Wubet T., **Chatzinotas A.**, Wilhelm C., Buscot F., Schlegel M. (2014). Effects of long term differential fertilization on eukaryotic microbial communities in an arable soil: a multiple barcoding approach. *Molecular Ecology* 23: 3341-3355
16. Saleem M., Fetzer I., Harms H., **Chatzinotas A.** (2013). Diversity of protists and bacteria determines predation performance and stability. *The ISME Journal* 7: 1912-1921
17. Saleem M., Fetzer I., Dormann C., Harms H., **Chatzinotas A.** (2012). Predator richness increases the effect of prey diversity on prey yield. *Nature Communications* 3:1305