

Curriculum vitae of Markus Fischer by 9 March 2022

Nationality Swiss and German
Affiliation *Institute of Plant Sciences, University of Bern*



Fields of Expertise

Causes and consequences of biodiversity change; conservation science, terrestrial ecology; global change ecology; mountain ecology, nature's contributions to people incl. ecosystem services; role of biodiversity in sustainability;

Broadly experienced in IPBES and fully familiar with its work programme; ample experience in interdisciplinary teams and with working in science-society and science-policy interfaces; all of the above in national, regional and global projects and platforms

Employment

Since 2007 Full Professor of Plant Ecology, Institute of Plant Sciences, University of Bern and (since 2010) Director of the Botanical Garden of the University of Bern
2012-2019 Director, Institute of Plant Sciences, University of Bern
Since 2012 Guest researcher, Senckenberg Biodiversity and Climate Institute, Frankfurt, Germany
2008-2011, 2021-23 Head, Biology Department, University of Bern
2007-2012 Guest Professor at the University of Potsdam, Germany
2003-2007 Full Professor of Botany and Community Ecology, Institute of Biochemistry and Biology, and Director of the Botanical Garden, University of Potsdam
1996-2003 Main Assistant, Institute of Environmental Sciences, Univ. of Zurich, Switzerland
1993-1996 Research Associate, Botanical Institute, University of Basel, Switzerland
1990 Research Associate, University of Maryland, College Park, U.S.A.

Education

1982-1989 Studies and MSc Diploma in Physics, Technical University Munich, Germany
1990-1992 Studies and BSc in Biology, University of Basel, Switzerland
1993-1996 PhD in Botany, Institute of Botany, University of Basel, Switzerland 2008-2001
Venia legendi in Environmental Sciences, University of Zurich; Switzerland

Services and Awards

Since 2018 Member, IPBES Multidisciplinary Expert Panel
2015-2018 Co-chair, IPBES Regional assessment on biodiversity and ecosystem services for Europe and Central Asia (ECA), and host of ECA technical support unit
Since 2012 Member of Swiss Delegation to founding meeting in Panama and at IPBES plenaries
Member of IPBES expert groups on IPBES conceptual framework, scoping of regional, global and transformative change IPBES assessments; member management committees of IPBES global and transformative-change assessments and of IPBES-IPCC workshop
Co-organised 5 IPBES-related author meetings and workshops
>15 presentations at various IPBES-related meetings and workshops
Since 2020 Member, Advisory Council on Global Environmental Change of the German Federal Government (WBGU)
Since 2018 Member, Sustainability Research Initiative, Swiss Academy of Sciences
2017 Co-chair of Future Earth committee of the Swiss Academy of Natural Sciences
2017-2021 Highly Cited Researcher
Since 2015 Chair, Global Mountain Biodiversity Assessment
Since 2015 Chair, Senate committee on Biodiversity of the German Science Foundation DFG
Since 2013 Scientific head, Alpine Botanical Garden Schynige Platte, Switzerland
2012-2020 Member, National Research Council, Swiss National Science Foundation
Since 2011 Science-Policy Forum Biodiversity, Swiss Academy of Natural Sciences (Member Steering Committee, President 2011-2019)
2009-2011 President, Swiss Botanical Society
Since 2006 Speaker, Exploratories for Long-term and Large-scale Biodiversity Research
1998 John L. Harper Young Investigator's Prize, British Ecological Society

Teaching and Mentoring

- > 60 supervised diploma/masters and PhD students; 6 Fischer lab alumni are now professors
- Courses taught: plant ecology, population biology, community ecology, conservation biology, role of biodiversity for earth systems, experimental design and statistical analysis for ecologists, scientific writing practice, conservation and population genetics, general botany, systematic botany, including practicals, tutorials, and field courses.
- ~200 lectures at conferences and universities

Selected current research projects

2022-2025	Translocations of flora and fauna for conservation and restoration: ecological, evolutionary, and socio-economic impacts at multiple scales. Biodiversa+, European Union.
2021-2029	Kilimanjaro as an integrated Social-Ecological System (Synthesis project) German Research Foundation DFG.
2018-2022	Mountain biodiversity and the Sustainable Development Goals: Knowledge for synergistic action. Swiss National Science Foundation and Swiss Development Agency
2015-2025	Global mountain biodiversity assessment Swiss National Science Foundation, Swiss Academy of Sciences
2012-2025	Ex-situ conservation and reintroduction of highly endangered plant species. Swiss Federal Office of the Environment; University of Bern.
2006-2026	Large-scale and long-term exploratories for functional biodiversity research. Priority program, German Research Foundation DFG, speaker)

Memberships

Society for Ecology, Society for Conservation Biology, Swiss Botanical Society (President 2009-2011),
Forum Biodiversity of the Swiss Academy of Sciences (President 2011-2019)

Research impact statistics

Google Scholar statistics, accessed 8 March 2022: Sum of the times cited: 33260 (h index: 88), Highly Cited Researcher 2017-2021

Ten relevant publications. For full list of publications see:

https://scholar.google.com/citations?hl=en&user=IXhKkcAAAAAJ&view_op=list_works&sortby=pubdate

- Masao et al. in press. Stakeholder perspectives on nature, people, and sustainability at Mount Kilimanjaro. *People and Nature*
- Neyret et al. 2021. Assessing the impact of grassland management on landscape multifunctionality. *Ecosystem Services* 52, 101366
- Pörtner et al. 2021 IPBES-IPCC co-sponsored workshop report on biodiversity and climate change. IPBES, IPCC,
- Torre-Marin et al. 2021, Kiteme et al. 2021, Breu et al. 2021. Towards sustainable futures for nature and people (3 reports on Madre de Dios, Peru; Mt. Kenya–Ewaso Ng'iro North, Kenya; and Laos)
- Fischer et al. 2020. Flagship report: Rethinking Land in the Anthropocene. Advisory Council on Global Environmental Change of the German Government (WBGU), Berlin.
- Fischer et al. 2018 (summary for policy makers) and Rounsevell et al. (Full report): The regional assessment report on biodiversity and ecosystem services for Europe and Central Asia. IPBES.
- Payne et al. 2020. Mountain Biodiversity Is Central to Sustainable Development in Mountains and Beyond. *One Earth* 3:530-533.
- Felipe-Lucia M. et al. 2020. Land-use intensity alters networks between biodiversity, ecosystem functions, and services. *Proceedings of the National Academy of Sciences* 117: 28140-28149.
- Seibold et al. 2019. Arthropod decline in grasslands and forests is associated with landscape-level drivers. *Nature* 574 (7780), 671-674
- Diaz S et al. 2015. The IPBES Conceptual Framework — connecting nature and people. *Current Opinion in Environmental Sustainability*: 1–16