

Curriculum vitae (November 2025)

Name (first, last): Jürg Enkerli
Date of birth: 21st March 1963
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EDUCATION AND DIPLOMAS

2021	Workshop Neuroleadership: "Leading with asking questions"
2007	Certified Project Management Associate IPMA level E
1991 - 1997	Ph.D. in Botany (1997), University of Georgia, Athens GA, USA,
1986 - 1991	Diploma as a High School Teacher in Biology (1991), University of Bern
1988 - 1990	Diploma in Biology I (1990), University of Basel
1984 - 1988	Prediploma 1 and 2 in Biology (1988), University of Bern
1979 - 1983	Matura Typus C (1983), Gymnasium Bern Neufeld

PROFESSIONAL CAREER

2017 - present	Deputy head of Molecular Ecology, Agroscope, Zürich
2008 - present	Senior Scientist Molecular Ecology, Agroscope, Zürich
2004 - present	Lecturer, Department of Biology, ETH Zurich
2003 - 2008	Research Scientist, Molecular Ecology, Agroscope, Zürich
2002 - 2003	Research Scientist, Biological Control, Agroscope, Zürich
1999 - 2002	Post Doctoral Scientist with Dr. S. Keller, Agroscope, Zürich,
1997 - 1999	Post Doctoral Scientist with Prof. Th. Boller, Friedrich Miescher Institute, Basel
1991 - 1997	University of Georgia, USA, research assistant with Prof. M. S. Fuller and Prof. S. F. Covert
1990 - 1991	Sandoz Agro AG, Witterswil, research assistant with Dr. E. Mössinger

PROFESSIONAL SERVICES

2018 – present	Steering board member of the section Environmental Mycology within the Swiss Society for Microbiology
2004 -2011	Convenor IOBC/WPRS subgroup "Soil Insect Pests", Working Group "Insect Pathogens and Insect Parasitic nematodes"
Since 2003	Ad hoc Reviewer: Fungal Biology, Fungal Ecology, Molecular Ecology, Applied Soil Ecology, Microbial Ecology, Journal of Invertebrate Pathology, Journal of Medical Mycology, Journal of Pest Science, Sydowia, BioControl, Bioresource Technology, Agricultural and Forest Entomology, Mycologia, BioMed Research International, PLOS one, Biocontrol Science and Technology. Molecular Ecology Resources, BMC Genetics, Journal of Pest Science, Journal of Biotechnology

MEMBER OF SCIENTIFIC ORGANIZATIONS

since 2018	Swiss Society for Microbiology
since 2002	Society for Invertebrate Pathology
since 2002	Schweizerische Gesellschaft für Phytomedizin
since 2001	British Mycological Society

CURRENT AND PREVIOUS PROJECT FUNDING

2023 -2026	Impact of climatic change on the sustainable effect of entomopathogenic fungi in permanent grassland and meadows: Application of fungal dispersion formulation for the control of Scarabaeids in exposed steep slopes (Scarabklar, 36 month, 1 PhD student) Collaboration with Hermann Strasser University Innsbruck Austria, BML; DAFNE 101849
2021-2025	Safeguarding European wild pollinators (Safeguard 48 months, 1 PhD student) Collaboration with Matthias Albrecht, Agroscope H2020-SC5-2018-2019-2020 <i>Climate action, environment, resource efficiency and raw materials</i> (Grant Agreement No. 101003476)
2020-2024	Integrated Pest Management of the invasive Japanese Beetle, <i>Popillia japonica</i> (IPM-POPILLIA, 48 month, 1 PhD student) H2020-SFS-2018-2020 Sustainable Food Security (Grant Agreement No.861852)
2020-2022	Mikrobielle Biodiversität im Boden – Anwendung und Validierung der genetischen Diagnostik zur Erhebung der Biodiversität von mikroskopisch kleinen Organismen in Schweizer Böden (MiDiBo-2, 48 month, Post doctoral fellow) <i>Federal Office for the Environment</i> (Grant Agreement No.: 19.0061.PJ.PZ / D-91173401/988)
2018-2023	Influence of spatial and temporal separation on population structure of the European cockchafer and its main fungal pathogen (MelBeauPop, 60 month, 1 PhD student) <i>Agroscope</i>
2018-2020	Interactions of insect and soil microbial communities with insect pathogenic fungi. (INMIFungi, 24 months Individual Fellowship María del Carmen Fernández Bravo) <i>EU MARIE SKŁODOWSKA-CURIE ACTIONS</i> (Grant Agreement No. 794526)
2015	Fungal entomopathogens as endophytes for improved plant growth. (International Short Visit of Dr. Lara Ramzi Jaber). <i>Swiss Science Foundation</i> (IZKOZ3_161554 / 1)
2012-2016	Innovative biological products for soil pest control (INBIOSOIL 42 months, 1 Ph.D. student). <i>EU FP7 ECO-INNOVATION</i> (Grant Agreement No. 282767)
2012	Potential von Mikrosatelliten Markern für die Unterscheidung exotischer und einheimischer <i>Metarhizium</i> Stämme (1 research assistant) <i>Federal Office for the Environment</i> (FOEN 10.0003.PJ / L392-1501)
2008 – 2011	Alternative control of <i>Verticillium</i> wilt in strawberry production: efficacy of “biofumigation” and “biological soil disinfestation” and impacts on non-target microorganism as indicators of soil quality. Co-applicant with Dr. F. Widmer and Dr. V. Michel, Agroscope, Switzerland (1 Ph.D. student). <i>European Cooperation in Science and Technology</i> (COST Action 863, SBF-Nr. C07.0127)
2007-2011	Molecular tools to monitor entomopathogenic soil fungi for soil quality assessment and conservation biological control (1Ph.D. student). <i>Swiss Science Foundation</i> (SNF 3100A0-114064)
2004-2008	Development of a mycoinsecticide against <i>Helicoverpa armigera</i> in pulses: from the laboratory to the market. Genetic characterization and diversity of <i>M. anisopliae</i> . (1 Postdoctoral Scientist). <i>Indo-Swiss Collaboration in Biotechnology</i> (ISCB BP1)
2003-2006	Genetic diversity of the aphid pathogenic fungus <i>Pandora neoaphidis</i> in different habitats and is implication on biological control. Co-applicant with Dr. S. Keller, Agroscope, Switzerland (1 Ph.D. student).

European Cooperation in Science and Technology (COST Action 842, SBF-Nr. C02.0051)

2003-2006 Monitoring soil microbial structures and fungal biological control agents for ecological effect and fate studies used for risk assessment. Co-applicant with Dr. F. Widmer, Agroscope, Switzerland (1 Ph.D. student).
Federal Office for the Environment (FOEN 810.3189.104)

INTERNATIONAL COLLABORATIONS

Prof. Dr. F. Nardi Dept. of Life Sciences, University of Siena, via Aldo Moro 2, 53100 Siena Italy

Dr. L. Ramzi Jaber Laboratory of Biological Control, Department of Plant Pathology, University of Jordan, 11942 Amman, Jordan. Collaboration on endophytism of *Beauveria* spp. and *Metarhizium* spp.

Dr. S. Rehner, Systematic Mycology and Microbiology Laboratory, BARC-W, Beltsville, MD 20705, USA. Collaboration on systematics and genetic diversity of *B. brongniartii*, *B. bassiana*, and *Metarhizium* spp.

Dr. N. Meyling, Department of Plant and Environmental Sciences, Faculty of Life Sciences, University of Copenhagen, Thorvaldsensvej 40, DK-1871 Frederiksberg C. Collaboration on the genetic diversity of *B. bassiana*.

Dr. H. Strasser, Institut für Mikrobiologie, Leopold-Franzens-Universität Innsbruck, Technikerstraße 25, 6020 Innsbruck, Österreich. Collaboration on the efficacy of *B. brongniartii* as biological control agent

SELECTED PUBLICATIONS

Küng N, Boschi S, Widmer F, Enkerli J (2025) Pathogenicity of the Fungus *Beauveria Pseudobassiana* for *Popillia Japonica* Depends on the Developmental Stage of the Insect. *Biological Control* 210: 105887
doi.org/10.1016/j.biocontrol.2025.105887

Pedrazzini C, Rehner SA, Stewart-Smith F, Boschi S, Widmer F, **Enkerli J** (2025). Partial ecological niche partitioning between *Beauveria brongniartii* and *Beauveria pseudobassiana* entomopathogens at *Melolontha melolontha* infested sites. *Journal of Invertebrate Pathology* 211: 108356

Pedrazzini C, Rehner SA, Strasser H, Zemp N, Holderegger R, Widmer F, Enkerli J (2024) Clonal genomic population structure of *Beauveria brongniartii* and *Beauveria pseudobassiana*: Pathogens of the common European cockchafer (*Melolontha melolontha* L.) *Environmental Microbiology*, 26 (4): e166112, DOI: 10.1111/1462-2920.16612

Pedrazzini C, Strasser H, Zemp N, Holderegger R, Widmer F, **Enkerli J** (2023) Spatial and temporal patterns in the population genomics of the European cockchafer *Melolontha melolontha* in the Alpine region. *Environmental Applications*, 16: 1586-1597, doi.org/10.1111/eva.13588

Gschwend F, Hartmann M, Mayerhofer J, Hug A, Enkerli J, Gubler A, Meuli R G, Frey B, Widmer F (2021). Site and land-use associations of soil bacteria and fungi define core and indicative taxa. *FEMS Microbiology Ecology*, 97: 12, doi.org/10.1093/femsec/fiab165

Gschwend F, Hartmann M, Hug A, **Enkerli J**, Gubler A, Frey B, Meuli R G, Widmer F (2021). Long-term stability of soil bacterial and fungal community structures revealed in their abundant and rare fractions. *Molecular Ecology* 30: 4305–4320, doi: 10.1111/mec.16036

Fernández-Bravo M, Gschwend F, Mayerhofer J, Hug A, Widmer F, **Enkerli J** (2021). Land-use type drives soil population structures of the entomopathogenic fungal genus *Metarhizium*. *Microorganisms*, 9: 1380, doi.org/10.3390/microorganisms9071380

Mayerhofer J, Lutz A, Dennert F, Rehner S, Kepler R, Widmer F, **Enkerli J** (2019). A species-specific multiplexed PCR amplicon assay for distinguishing between *Metarhizium pingshaense*, *M. anisopliae*, *M. robertsii*, and *M. brunneum*. *Journal of Invertebrate Pathology* 161: 23-28, doi.org/10.1016/j.jip.2019.01.002

Mayerhofer J, Eckard S, Hartmann H, Grabenweger G, Widmer F, Leuchtmann A, **Enkerli J** (2017). Assessing effects of the entomopathogenic fungus *Metarhizium brunneum* on soil microbial communities in *Agriotes* spp. biological pest control. *FEMS Microbiology Ecology* 93: doi.org/10.1093/femsec/fix117