

Curriculum vitae Rolf Holderegger

Personal details

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Education and positions

2020-2021: acting deputy director WSL
2011-2023: member of WSL Directorate
Since 2011: head of WSL Research Unit Biodiversity and Conservation Biology
Since 2009: adjunct professor at D-USYS ETH Zurich
2006-2010: head of WSL Research Unit Ecological Genetics and Evolution
2001-2005: deputy head of WSL Section Ecological Genetics
1998-1999: postdoc at University of St Andrews, Scotland
1997-1998: research associate at Institute of Systematic Botany, University of Zurich
1993-1997: PhD thesis in conservation biology at Institute of Systematic Botany, University of Zurich
1993-1997/2000-2001: high school teacher (part time) and consultant for conservation management (part time)
1985-1993: studies in biology and diploma in botany at the University of Zurich

Major achievements in research, application, and outreach

Application and outreach. The interface between research, application and outreach is of special relevance to me. Since about ten years I focus my work on the implementation of scientific results in landscape planning and conservation management as well as in communication to politics and the broader public. I spend substantial time in writing articles for professional journals and expert reports. I also serve as an expert for mainly federal and cantonal authorities, but also for environmental consultancies. Currently, I am involved in the planning of the Ecological Infrastructure of Switzerland ÖI (<https://www.oekologische-infrastruktur.ch/>) at the national and the cantonal level or in the evaluation of the Action Plan for the Swiss Biodiversity Strategy. I possess a network of numerous cantonal, national, and international stakeholders and authorities.

I carried out surveys studying how science could best serve the needs of practitioners. For instance, by assessing which information sources are used by practitioners, for which questions Swiss stakeholders urgently need answers and syntheses, or on how scientists could effectively communicate to professionals. In accordance, I am the Lead-PI of the ETH domain's joint initiative "Translational Centre Biodiversity Conservation (Synthesezentrum Biodiversität), an initiative that works in a totally transdisciplinary way.

Biodiversity and conservation biology. I carry out applied and problem-oriented research in contact with international partners, diverse political authorities, other stakeholders, and partners from the private sector. A special focus is on the functionality of restoration and connectivity measures. I also wrote reviews on the ecological and societal effects of landscape fragmentation and on the effects of roads.

I spend much effort in the conservation of the flora and ecosystems of Switzerland. Together with partners from science and the public sector, I performed revisitation studies investigating the changes in plant diversity and its causes. The large monitoring program on the nationally important habitats of Switzerland (WBS) has been developed and is currently co-supervised by me. This large, long-term project financed by the Swiss Agency for the Environment BAFU monitors the effectiveness of the protection of bogs, mires, dry meadows and pastures, riparian ecosystems, and amphibian spawning sites across Switzerland. It uses diverse methods from remote sensing (aerial photographs, satellite data) to field surveys (permanent plots, amphibian surveys, eDNA) and has direct impact on the implementation of conservation policy in Switzerland.

Currently, I foster principles for artificial seeding and planting in restoration projects of Switzerland that are based on scientific evidence and theory.

Conservation and landscape genetics/genomics. To promote research in conservation and landscape genetics/genomics I organized international symposia, edited special issues, delivered keynotes, and contributed review articles on these topics.

Conservation genetics is the application of genetic theory and methods in conservation management. I wrote a textbook on conservation genetics for practitioners to increase the use of genetic approaches in conservation management. I also started a program to effectively implement conservation genetic methods (ready-to-use workflows for eDNA and connectivity assessment) together with BAFU, several cantons, private companies, and environmental consultancies. Currently, I take part in the development of an open-access data bank of genetic resources for Swiss stakeholders.

I pioneered the development of landscape genetics and genomics and, in particular, of environmental association analysis (EAA), a method that identifies genes and genomic regions of adaptive relevance at diverse spatial scales. It uses a variety of traditional (transplantation, common garden, glasshouse, climate chamber) and genomic methods and combines them with environmental data (including remote sensing and LiDAR).

Grants, boards, awards

Research grants

EU (2 as co-PI); Swiss National Science Foundation SNF (4 as PI and 4 as co-PI); Innosuisse (1 as co-PI); ETH Zürich and ETH domain (1 as PI and 7 as co-PI); BAFU (6 as PI and 5 as co-PI); WSL competitive grants (4); Polish-Swiss Research Programme (1); Bristol Foundation (4); MAVA-Foundation (1); Splinterfonds (2); Julius Klaus Foundation (3); Novartis Foundation (1); Berthold Suhner Foundation (2); Linsi-Foundation (1); Wolferrmann-Nägeli Foundation (1); Seebachtalstiftung (1); Cantons of Aargau (4), Thurgau (3), Zurich (5), Nidwalden (1), Obwalden (1), Berne (1), Lucerne (1), Appenzell Ausserrhoden (1), Geneva (1); Zug (1), and Uri (1).

Boards

Advisory board for the preservation of arable herbs GISA in Germany (since 2023); member of the scientific board of the Swiss Ornithological Institute (since 2021); project board for the nature conservation concept of the Canton of Glarus (since 2021); project board for the ecological infrastructure of the Canton of Zürich (since 2021); steering board on applied research on river revitalisation in Switzerland (since 2020); IUCN hosted board for the ecological infrastructure of Switzerland (since 2019); steering committee of the Rübél-Foundation (since 2018); organising board of the European Symposium in Conservation Genetics (since 2015); president and vice-president of the Swiss Botanical Society (2015-2019); advisory board for the monitoring of agricultural biodiversity of Switzerland ALL-EMA (since 2011); scientific advisory board OFU of the BAFU (since 2010); co-initiator and steering board of the Genetic Diversity Centre GDC at ETH Zurich (since 2008); advisory board of the Swiss Red List of vascular plants (2010-2016); steering and scientific committees of the Swiss floristic data centre Info Flora (2002-2013); two NCEAS working groups on landscape genetics (Santa Barbara, USA, 2009-2010); crop-wild

relative group of the Swiss Commission for the Preservation of Cultivated Plants SKEK (2008-2009); task force systematics of the Swiss Academy of Sciences SCNAT (2001-2006); community-level political boards on conservation (NDK), landscape development (LEK) and forests (WEP; 1993-2006); president of a local nature conservation organisation (1988-1998).

Editorial boards

Editorial board of Landscape Ecology (2006-2013); editor of outreach journal Infoblatt Landschaft (2010-2013); editorial board of outreach journal FloraCH (since 2015)

Awards:

2008: nature conservation award (5000 CHF)

Teaching

Since 2020: winter school on genomic adaptation to the environment at ETH Zurich

Since 2013: seminar on conservation practice at ETH Zurich

2011-2019: winter school in landscape genetics at ETH Zurich

2009-2010: Worldwide distributed graduate seminar in landscape genetics at NCEAS

Since 2008: excursion on conservation management and landscape planning at ETH Zurich

Since 2007: lecture in conservation genetics at ETH Zurich

2005/2006: lecture on plant population genetics at University of Zurich and Plant Science Centre

2002: lecture and field course on alpine plant biology at University of Zurich

Since 1993: block course on fern biology at ETH Zurich

1993-1998: teaching assistant and excursion leader at University of Zurich

1991-1997, 2000-2001: high school teacher in biology

Publication list Rolf Holderegger

(ISI; reviewed non-ISI; outreach, application, and other articles; books)

ISI-articles

- Ferretti M., Fischer C., Gessler A., Graham C., Meusburger K., Abegg M., Bebi P., Bergamini A., Brockerhoff E.G., Brunner I., Bühler C., Conedera M., Cothreau P., D'Odorico P., Duggelin C., Ginzler C., Grendelmeier A., Haeni M., Hagedorn F., Hägeli M., Hegetschweiler K.T., Holderegger R., Krumm F., Gugerli Künzle F., Queloz V., Rigling A., Risch A.C., Rohner B., Rosset C., Scherrer D., Schulz T., Thürig E., Traub B., von Arx G., Waldner P., Wohlgemuth T., Zimmermann N.E., Shackleton R. 2024. Advancing forest inventorying and monitoring. *Annals of Forest Science* 81: 6.
- Pearman P.B., Broennimann O., Aavik T., Albayrak T., Alves P.C., Aravanopoulos F.A., Bertola L.D., Biedrzycka A., Buzan E., Cubric-Curik V., Djan M., Fedorca A., Fuentes-Pardo A.P., Fussi B., Godoy J.A., Gugerli F., Hoban S., Holderegger R., Hvilsom C., Iacolina L., Kalamujic Stroil B., Klinga P., Konopiński M.K., Kopatz A., Laikre L., Lopes-Fernandes M., McMahon B.J., Mergeay J., Neophytou C., Pálsson S., Paz-Vinas I., Posledovich D., Primmer C.R., Raeymaekers J.A.M., Rinkevich B., Rolečková B., Ruňgis D., Schuerz L., Segelbacher G., Sonnenschein K.K., Stefanovic M., Thurffjell H., Träger S., Tsvetkov I.N., Velickovic N., Vergeer P., Vernesi C., Vilà C., Westergren M., Zachos F.E., Guisan A., Bruford M. 2024. Monitoring of species' genetic diversity in Europe varies greatly and overlooks potential climate change impacts. *Nature Ecology and Evolution* 8: 267-281.
- Dauphin B., Rellstab C., Wüest R.O., Karger D.N., Holderegger R., Gugerli G., Manel S. 2023. Re-thinking the environment in landscape genomics. *Trends in Ecology and Evolution* 38: 261-274.
- Pedrazzini C., Strasser H., Zemp N., Holderegger R., Widmer F., Enkerli J. 2023. Spatial and temporal patterns in the population genetic structure of the European cockchafer *Melolontha* in the Alpine region. *Evolutionary Applications* 16: 1586-1597.
- Boch S., Küchler H., Küchler M., Bedolla A., Ecker K.T., Graf U., Holderegger R., Moser T., Bergamini A. 2022. Observer-driven pseudoturnover in vegetation monitoring is context dependent and does not affect ecological inference. *Applied Vegetation Science* 25: e12669.
- Büttner M., Weibel U., Jutzi M., Bergamini A., Holderegger R. 2022. A 150-year-old herbarium and floristic data testify regional species decline. *Biological Conservation* 272: 109609.
- Hepenstrick D., Zemp N., Widmer A., Holderegger R. 2022. Neither connectivity nor genetic diversity matter in the conservation of a rare fern and a moss on insular erratic boulders. *Conservation Genetics* 23:193-209.
- Holderegger R., Spillmann J. 2022. Do revisitation studies overestimate local extinction? *Conservation Science and Practice* 4: e12797.
- Moor H., Bergamini A., Vorburger C., Holderegger R., Bühler C., Egger S., Schmidt B.R. 2022. Bending the curve: simple but massive conservation action leads to landscape-scale recovery of amphibians. *Proceedings of the National Academy of Sciences USA* 119: e2123070119.
- Hepenstrick D., Bergamini A., Webster C., Ginzler C., Holderegger R. 2021. Factors determining bryophyte species richness and community composition on insular siliceous erratic boulders in calcareous landscapes. *Journal of Vegetation Science* 32: e13094.
- Frei S., Holderegger R., Bergamini A. 2021. Thirty years later: how successful was the restoration of a raised bog in the Swiss Plateau? *Mires and Peat* 27: 20.
- Pärli R., Lieberherr E., Holderegger R., Gugerli F., Widmer A., Fischer M.C. 2021. Developing a monitoring program of genetic diversity: What do the stakeholders say? *Conservation Genetics* 22: 673-684.

- Pedrazzini C.L., Strasser H., Holderegger R., Widmer F., Enkerli J. 2021. Development of a SNP-based tool for the identification and discrimination of *Melolontha* and *Melolontha hippocastani*. *Bulletin of the Entomological Society* 11: 511-516.
- Dauphin B., Wüest R.O., Brodbeck S., Zoller S., Fischer M.C., Holderegger R., Gugerli F., Rellstab C. 2020. Disentangling the effects of geographic peripheral and habitat suitability on neutral and adaptive genetic variation in Swiss stone pine. *Molecular Ecology* 29: 1972–1989.
- Jamin A., Peintinger M., Gimmi U., Holderegger R., Bergamini A. 2020. Evidence for a possible extinction debt in Swiss wetland specialist plants. *Ecology and Evolution* 10: 1264-1277.
- Hepenstrick D., Bergamini A., Holderegger R. 2020. The distribution of climbing chalk on climbed boulders and its impact on rock-dwelling ferns and mosses. *Ecology and Evolution* 10: 11362-22371.
- Holderegger R., Schmidt B.R., Grünig C., Meier R., Csencsics D., Gassner M., Rellstab C., Stapfer A. 2020. Ready-to-use workflows for the implementation of genetic tools in conservation management. *Conservation Genetics Resources* 12: 691-700.
- Rellstab C., Zoller S., Sailer C., Tedder A., Gugerli F., Shimizu K.K., Holderegger R., Widmer A., Fischer M.C. 2020. Genomic signatures of convergent adaptation to Alpine environments in three Brassicaceae species. *Molecular Ecology* 29: 4350-4365.
- Boch S., Bedolla A., Ecker K.T., Graf U., Küchler H., Küchler M., Holderegger R., Bergamini A. 2019. Indicator values suggest decreasing habitat quality in Swiss dry grasslands and are robust to relocation error. *Tuexenia* 39: 315-334.
- Boch S., A., Ecker K., Ginzler C., Graf U., Küchler H., Küchler M., Nobis M., Holderegger R., Bergamini A. 2019. Threatened and specialist species suffer from increased wood cover and productivity in Swiss steppes. *Flora* 258: 151444.
- Dähler N.B., Holderegger R., Info Flora, Bergamini A. 2019. Effectiveness of Swiss protected areas in maintaining populations of rare vascular plants. *Journal for Nature Conservation* 52: 125749.
- Fabian Y., Bollmann K., Brang P., Heiri C., Olschewski R., Rigling A., Stofer S., Holderegger R. 2019. How to close the science-practice gap in nature conservation? Information sources used by practitioners. *Biological Conservation* 235: 93-101.
- Holderegger R., Balkenhol N., Bolliger J., Engler J.O., Gugerli F., Hochkirch A., Nowak C., Segelbacher G., Widmer A., Zachos F.E. 2019. Conservation genetics: linking science with practice. *Molecular Ecology* 28: 3848-3856.
- Ortiz-Rodríguez D., Guisan A., Holderegger R., van Strien M.J. 2019. Predicting species occurrences with habitat network models. *Ecology and Evolution* 9: 10457-10471.
- DiLeo M.F., Holderegger R., Wagner H.H. 2018. Contemporary pollen flow as a multiscale process: evidence from the insect-pollinated herb *Pulsatilla vulgaris*. *Journal of Ecology* 106: 2242-2255.
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- Richner N.A., Walter T., Linder P., Holderegger R. 2018. Arable weed seed bank of grassland on former arable fields in mountain regions. *Folia Geobotanica* 53: 49-61.
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- Van Strien M.J., Axhausen K.W., Dubernet I., Guisan A., Grêt-Regamey A., Khiali-Miab A., Ortiz-Rodríguez D.O., Holderegger R. 2018. Models of coupled settlement and habitat networks for biodiversity conservation: conceptual framework, implementation and potential applications. *Frontiers in Ecology and Evolution* 6: 41. (Also published in Van Strien M.J., Axhausen K.W., Dubernet I., Guisan A., Grêt-Regamey A., Khiali-Miab A., Ortiz-Rodríguez D.O., Holderegger R. 2019. Models of coupled settlement and habitat

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- Milanesi P., Breiner F.T., Puopolo F., Holderegger R. 2017. European human-dominated landscapes provide ample space for the recolonization of large carnivore populations under future land change scenarios. *Ecography* 40: 1359-1368.
- Milanesi P., Holderegger R., Bollmann K., Gugerli F., Zellwegger F. 2017. Three-dimensional habitat structure and landscape genetics: a step forward in estimating functional connectivity. *Ecology* 98: 393-402.
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- Richner N., Holderegger R., Linder P., Walter T. 2017. Dramatic decline in the Swiss arable flora since the 1920s. *Agriculture, Ecosystems and Environment* 241: 179-192.
- Csencsics D., Holderegger R. 2016. Origin of natural regeneration of black poplar (*Populus nigra* L.) and co-occurrence with hybrid poplar offspring. *Flora* 222: 20-26.
- Milanesi P., Holderegger R., Caniglia R., Fabbri E., Randi E. 2016. Different habitat suitability models yield different least-cost path distances for landscape genetic analysis. *Basic and Applied Ecology* 17: 61-71.
- DiLeo M.L., Graf R., Holderegger R., Rico Y., Wagner H.H. 2015. Development of highly polymorphic microsatellite markers in *Pulsatilla vulgaris* (L.) Mill. (Ranunculaceae) using next generation sequencing. *Applications in Plant Sciences* 3: 1500031.
- Keller D, Holderegger R., Van Strien M., Bolliger J. 2015. How to make landscape genetics beneficial for conservation management? *Conservation Genetics* 16: 503-512.
- Le Lay G., Angelone S., Holderegger R., Flory C., Bolliger J. 2015. Increasing pond density to maintain a patchy habitat network of the European treefrog (*Hyla arborea*). *Journal of Herpetology* 49: 217-221.
- Rellstab C., Gugerli F., Eckert A.J., Hancock A.M., Holderegger R. 2015. A practical guide to environmental association analysis in landscape genomics. *Molecular Ecology* 24: 4348-4370.
- Richner N., Holderegger R., Linder P., Walter T. 2015. Reviewing change in the arable flora of Europe: a meta-analysis. *Weed Research* 55: 1-13.
- Van Strien M.J., Holderegger R., Van Heck H.J. 2015. Isolation-by-distance in landscapes: considerations for landscape genetics. *Heredity* 114: 27-37.
- Aavik T., Bosshard D., Edwards P., Holderegger R., Billeter R. 2014. Genetische Vielfalt in Wildpflanzen-Samenmischungen. *Agrarforschung Schweiz* 5: 20-27. (Also in French)
- Aavik T., Bosshard D., Edwards P.J., Holderegger R., Billeter R. 2014. Fitness in naturally occurring and restored populations of the grassland plant *Lychnis flos-cuculi* in a Swiss agricultural landscape. *Restoration Ecology* 22: 98-106.
- Aavik T., Holderegger R., Bolliger J. 2014. The structural and functional connectivity of the grassland plant *Lychnis flos-cuculi*. *Heredity* 112: 471-478.
- Buehler D., Holderegger R., Brodbeck S., Schyder E., Gugerli F. 2014. Validation of outlier loci through replication in independent data sets: a test on *Arabis alpina*. *Ecology and Evolution* 4: 4296-4306.
- Manel S., Holderegger 2014. Reply to Kershaw and Rosenbaum. *Trends in Ecology and Evolution* 29: 70-71.

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- Van Strien M.J., Keller D., Holderegger R., Ghazoul J., Kienast F., Bolliger J. 2014. Landscape genetics as a tool for conservation planning: predicting the effects of landscape change on gene flow. *Ecological Applications* 24: 327-339.
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- Buehler D., Poncet B.N., Holderegger R., Manel S., Taberlet P., Gugerli F. 2013. An outlier locus relevant in habitat-mediated selection in an alpine plant across independent regional replicates. *Evolutionary Ecology* 27: 285-300.
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- Herrmann M., Holderegger R., Van Strien M.J. 2013. Influence of parameter settings in automated scoring of AFLPs on population genetic analysis. *Molecular Ecology Resources* 13: 128-134.
- Keller D., Holderegger R. 2013. Damsel flies use different movement strategies for short- and long-distance dispersal. *Insect Conservation and Diversity* 6: 590-597.
- Keller D., Holderegger R., Van Strien M. 2013. Spatial scale affects landscape genetic analysis of a wetland grasshopper. *Molecular Ecology* 22: 2467-2482.
- Keller D., van Strien M., Herrmann M., Bolliger J., Edwards, P.J., Ghazoul J., Holderegger R. 2013. Is functional connectivity in common grasshopper species affected by fragmentation in an agricultural landscape? *Agriculture, Ecosystems and Environment* 175: 39-46.
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- Manel S., Holderegger R. 2013. Ten years of landscape genetics. *Trends in Ecology and Evolution* 28: 614-621.
- Seymour M., Räsänen K., Holderegger R., Kristjansson B. 2013. Connectivity in a pond system influences migration and genetic structure in threespine stickleback. *Ecology and Evolution* 3: 492-502.
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