

Dr. Alexandra A.-T. WEBER

Address: Eawag, Überlandstrasse 133, 8600 Dübendorf, Switzerland
Email: Alexandra.weber@eawag.ch
Website: [Institutional webpage](#)
Web profiles: [OrcID](#), [Google Scholar](#), [LinkedIn](#), [ResearchGate](#)



Professional appointments

09.2024 – present	Lecturer Department of Environmental Systems Sciences, ETHZ, Zürich, Switzerland
02.2022 – present	Group Leader (Tenure-Track) Department of Aquatic Ecology, Eawag, Dübendorf, Switzerland
02.2021 – 01.2022	Marie Skłodowska-Curie Global Fellow Return phase: Ifremer, Brest, France Collaboration with Dr. Jozée Sarrazin & Dr. Sophie Arnaud-Haond
10.2018 – 01.2021	Marie Skłodowska-Curie Global Fellow Outgoing phase: Museums Victoria, Melbourne, Australia Collaboration with Dr. Timothy D. O'Hara
04.2018 – 09.2018	Endeavour Postdoctoral Research Fellow Museums Victoria, Melbourne, Australia Collaboration with Dr. Timothy D. O'Hara
05.2015 – 02.2018	Postdoctoral researcher Zoological Institute, University of Basel, Switzerland Advisor: Prof. Dr. Walter Salzburger

Education

10.2011 – 01.2015	PhD in Oceanography (IMBE, Aix-Marseille University, Marseille, France). PhD scholarship by the French Ministry of Education, based on excellence criteria. Thesis title: "Ecological and genetic study of the brittle star species complex <i>Ophioderma longicauda</i> : comparative study between brooding and broadcasting lineages". PhD advisor: Dr. Anne Chenuil. Defended on the 16th of January 2015 . Highest distinction: "Très honorable"
09.2009 – 06.2011	Master of Oceanography , Marine Biology and Ecology (Marseille Oceanology Centre, Aix-Marseille University, Marseille, France). Master achieved with GPA 16.5/20, 2 nd best score in year. Highest distinction: "Très bien"
01.2011 – 06.2011	Master project (Department of Genetics & Evolution, University of Geneva, Switzerland). Advisor: Prof. Dr. Jan Pawlowski
09.2006 – 06.2009	Bachelor of Science in Biology (University of Lausanne, Switzerland)

Career breaks

08.2022 – 11.2022	Maternity leave (4 months)
07.2020 – 09.2020	80% reduction of workload (0.2 FTE) due childcare closure during COVID19 pandemic (3 months)
01.2020 – 04.2020	Maternity leave (4 months)

Manuscripts submitted or in revision / preprints

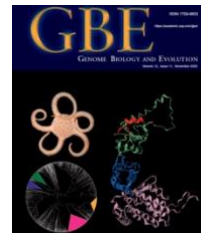
Members of the Weber Lab are highlighted in **bold**.

1. Zając T, Aldridge D, Lopes-Lima M, Zając K, Ondina P, Piria M, Sîrbu I, Geist J, Moorkens E, Prié V, Atasaral S, Collas F, Douda K, Gumpinger C, Ioannis K, Kazić A, Larsen BM, Lipinskaya T, Motte G, Osterling M, Pešić V, Riccardi N, Shevchuk L, Shumka S, Stojanovski S, Stunzenas V, Taskinen J, Thielen F, Timm H, Todorov M, Trichkova T, Urbanič G, **Weber A. A-T**, Wengstrom N, Sousa R. An urgent call for the coordinated monitoring of European freshwater mussels. *In revision in Conservation Letters*.
2. Lebouazda Z, Mezali K, **Weber A. A-T**, Soualili DL, Chenuil A. Phylogeography of the Atlanto-Mediterranean brittle star *Ophioderma longicaudum* (Ophiuroidea, Echinodermata) with new gonad histology and genetic data from Algeria. *In revision in the Zoological Journal of the Linnean Society*.
3. Reichel K, Pohjoismäki J, Astrin J, Böhne A, **Bortoluzzi C**, del Campo J, Ciofi C, Di-Nizo CB, Divakar PK, Greve C, Hampl V, Hilgers L, Laine VN, Leonard JA, Lozano-Fernandez J, Lukić Bilela L, Mazzoni C, McCartney A, Melo-Ferreira J, Monteiro R, Oomen RA, Pavlek M, Pimenta J, Rindos M, Seehausen O, Tarieiev A, Tomasello S, Vinnere Pettersson O, Waterhouse RM, **Weber A. A-T**, Zinenko O, de Guttry C. Addressing key challenges in sample handling for high-quality reference genome generation. *In revision in Molecular Ecology Resources*. [Preprint](#).

Peer-reviewed publications

27. **Faust E***, **Conrads J***, **Giulio M**, Ciofi C, Natali C, Feulner PGD, **Weber A. A-T**. (2025) Beyond genetic indicators: how reproductive mode and hybridisation challenge freshwater mussel conservation. *Equal contribution. *Molecular Ecology*. [e70066](#).
26. O'Hara TD, Hugall AF, Haines ML, **Weber A. A-T**, Eichsteller A, Brogger MI, Eléaume M, Fujita T, Kongsrud JA, Martinez Arbizu P, Mills S, Olbers J, Paulay G, Ramil F, Samadi S, Sands C, Sellanes Lopez J, Solis-Marin FA, Moussalli A. (2025) Spatiotemporal faunal connectivity across global seafloors. *Nature*. [1-6](#).
25. **Daniels RJ**, Meyer BS, **Giulio M**, **Signorini SG**, Riccardi N, Della Torre C, **Weber A. A-T**. (2024) Benchmarking sample pooling for epigenomics of natural populations. *Molecular Ecology Resources*. [e14021](#).
24. Halstead-Nussloch G, **Signorini SG**, **Giulio M**, Crocetta F, Munari M, Della Torre C, **Weber A. A-T**. (2024) The genome of the rayed Mediterranean limpet *Patella caerulea* (Linnaeus, 1758). *Genome Biology and Evolution*. [evae070](#).
23. Garlovsky MD*, Whittington E*, Albrecht T, Arenas-Castro H, Castillo DM, Keais G, Larson EL, Moyle L, Plakke M, Reifová R, Snook RR, Ålund M and **Weber A. A-T***. (2024) Synthesis and scope of the role of postmating prezygotic isolation in speciation. *Equal contribution. *Cold Spring Harbor Perspectives in Biology*. [a041429](#).
22. **Weber A.A-T**, Stefanoudis P, Zeppilli D, Puccinelli E (2023) Editorial: the 16th Deep-Sea Biology Symposium. *Frontiers in Marine Science*. [10:1328818](#)
21. Puccinelli E, Zeppilli D, Stefanoudis P, Wittische-Helou A, Kermorgant M, Fuchs S, Menot L, Easton EE, **Weber A.A-T**. (2022) Hybrid conferences: opportunities, challenges and ways forward. *Frontiers in Marine Science*. [9:902772](#)

20. **Weber A. A-T**, Rajkov J., Smailus K., Egger B. and Salzburger W. (2021) Speciation dynamics and extent of parallel evolution along a lake-stream environmental contrast in African cichlid fishes. *Science Advances*. [7\(45\):5391](#)
 19. Fraïsse C., Haguénauer A., Gérard K., **Weber A. A-T**, Bierne N. and Chenuil A. (2021) Fine-grained genetic-environment association in an admixed population of mussels in the small isolated Kerguelen Island. *Peer Community Journal*. [1:e10](#)
 18. **Weber A. A-T**, Hugall A. F. and O'Hara T. D. (2020) Convergent evolution and structural adaptation to the deep ocean in the protein folding chaperonin CCT α . *Genome Biology and Evolution*. [12: 1929-1942](#)
 17. Stöhr S., **Weber A. A-T**, Boissin E. and Chenuil A. (2020) Resolving the *Ophioderma longicauda* (Echinodermata: Ophiuroidea) cryptic species complex: five sisters, three of them new. *European Journal of Taxonomy*. [600: 1-37](#)
 16. **Weber A. A-T**, Stöhr S. and Chenuil A. (2019) Species delimitation in the presence of strong incomplete lineage sorting and hybridization: lessons from *Ophioderma* (Ophiuroidea: Echinodermata). *Molecular Phylogenetics and Evolution*. [131: 138-148](#)
 15. Böhne A.*, **Weber A. A-T***, Rajkov J., Reschteinier M., Riss A., Egger B. and Salzburger W. (2019) Repeated evolution versus common ancestry: Sex chromosome evolution in the haplochromine cichlid *Pseudocrenilabrus philander*. *Equal contribution. *Genome Biology and Evolution*. [11:439-458](#)
 14. Gooday A. J., Holzmann M., Goineau A., Kamenskaya O., Melnik V. F., Pearce R. E., **Weber A. A-T** and Pawlowski J. (2018) Xenophyophores (Rhizaria, Foraminifera) from the eastern Clarion Clipperton Zone (eastern equatorial Pacific): the genus *Psammmina*. *Protist*. [169: 926-957](#)
 13. Rajkov J., **Weber A. A-T**, Salzburger W. and Egger B. (2018) Immigrant and extrinsic hybrid inviability contribute to reproductive isolation between lake and river cichlid ecotypes. *Evolution*. [72: 2553-2564](#)
 12. Rajkov J., **Weber A. A-T**, Salzburger W. and Egger B. (2018) Adaptive phenotypic plasticity contributes to divergence between lake and river populations of an East African cichlid fish. *Ecology & Evolution*. [8: 7323-7333](#)
 11. Gooday A. J., Holzmann M., Goineau A., Pearce R. E., Voltski I., **Weber A. A-T** and Pawlowski J. (2018) Five new species and two new genera of xenophyophores (Foraminifera, Rhizaria) from part of the abyssal equatorial Pacific licensed for polymetallic nodule exploration. *Zoological Journal of the Linnean Society*. [183: 723-748](#)
 10. Gooday A. J., Holzmann M., Caille C., Goineau A., Jones D.O.B., Kamenskaya O., Simon-Lledó E., **Weber A. A-T** and Pawlowski J. (2018) New species of the xenophyophore genus *Aschemonella* (Rhizaria: Foraminifera) from areas of the abyssal eastern Pacific licensed for polymetallic nodule exploration. *Zoological Journal of the Linnean Society*. [182: 479-499](#)
 9. **Weber A. A-T**, Abi-Rached L., Galtier N., Bernard A., Tuberosa J., Montoya-Burgos J.I. and Chenuil A. (2017) Positive selection on sperm ion channels in a brooding brittle star: consequence of life-history traits evolution. *Molecular Ecology*. [26: 3744-3759](#)
- Highlighted in the "News and Views" of Molecular Ecology: Hart M.W. and Guerra V. (2017) Finding genes and lineages under selection in speciation. *Molecular Ecology*. [26: 3587-3590](#)



8. Cahill A. E., De Jode A., Dubois S., Bouzaza Z., Aurelle D., Boissin E., Chabrol O., David R., Egea E., Ledoux J.-B., Mérigot B., **Weber A. A-T** and Chenuil A. (2017) A multispecies approach reveals hot-spots and cold-spots of diversity and connectivity in invertebrate species with contrasting dispersal modes. *Molecular Ecology*. [26: 6563-6577](#)
7. Gooday A. J., Holzmann M., Caille C., Goineau A., Kamenskaya O., **Weber A. A-T**, Jan Pawlowski J. (2017) Giant protists (xenophyophores, Foraminifera) are exceptionally diverse in parts of the abyssal eastern Pacific licensed for polymetallic nodule exploration. *Biological Conservation*. [207: 106-116](#)
6. **Weber A. A-T**, Mérigot B., Valière S. and Chenuil A. (2015) Influence of the larval phase on connectivity: strong differences in the genetic structure of brooders and broadcasters in the *Ophioderma longicauda* species complex. *Molecular Ecology*. [24: 6080-6094](#)
5. **Weber A. A-T**, Stöhr S. and Chenuil A. (2014) Genetic data, reproduction season and reproductive strategy data support the existence of biological species in *Ophioderma longicauda*. *Comptes Rendus Biologies*. [337: 553-560](#)
4. Romiguier J, Gayral P, Ballenghien M, Bernard A, Cahais V, Chenuil A, Chiari Y, Derrat R, Duret L, Faivre N, Loire E, Lourenco JM, Nabholz B, Roux C, Tsagkogeorga G, **Weber A.A-T**, Weinert LA, Belkhir K, Bierne N, Glémin S and Galtier N. (2014). Comparative population genomics in animals uncovers the determinants of genetic diversity. *Nature*. [515, 261-263](#)
3. **Weber A. A-T** and Pawlowski J. (2014) Wide occurrence of SSU rDNA intragenomic polymorphism in Foraminifera and its implications for molecular species identification. *Protist* [165\(5\): 645-661](#)
2. **Weber A. A-T**, Dupont S. and Chenuil A. (2013) Thermotolerance and regeneration in the brittle star species complex *Ophioderma longicauda*: A preliminary study comparing lineages and Mediterranean basins. *Comptes Rendus Biologies* [336: 572-581](#)
1. **Weber A. A-T** and Pawlowski J. (2013) Can abundance of protists be inferred from sequence data: a case study of Foraminifera. *PLoS One* [8\(2\): e56739](#)



Publications for practitioners and the general public

- Buser CN, **Weber A. A-T**, Feulner PGD, Richman S, Fischer MC, Grossen C, Naciri Y, Paczesniak D, Paerli R, Reutimann O, Tschan J, Widmer A & Gugerli F (2025) Types of genetic markers: What can they reveal? (Conservation Genetics Workshop, Infographic 1). Swiss Federal Institute for Forest, Snow and Landscape Research WSL. <https://doi.org/10.55419/wsl:40663>. Also available in [German](#), [French](#) and [Italian](#).
- Buser CN, **Weber A. A-T**, Feulner PGD, Richman S, Fischer MC, Grossen C, Naciri Y, Paczesniak D, Paerli R, Reutimann O, Tschan J, Widmer A & Gugerli F (2025) Concepts of population genetics. (Conservation Genetics Workshop, Infographic 2). Swiss Federal Institute for Forest, Snow and Landscape Research WSL. <https://doi.org/10.55419/wsl:40665>. Also available in [German](#), [French](#) and [Italian](#).
- Buser CN, **Weber A. A-T**, Feulner PGD, Richman S, Fischer MC, Grossen C, Naciri Y, Paczesniak D, Paerli R, Reutimann O, Tschan J, Widmer A & Gugerli F (2025) Conservation genetics in practice: How to plan a project? (Conservation Genetics Workshop, Infographic 3). Swiss Federal Institute for Forest, Snow and Landscape Research WSL. <https://doi.org/10.55419/wsl:40667>. Also available in [German](#), [French](#) and [Italian](#).

- Jacquet S, Thomas A, **Weber A. A-T** (2025) Les anodontes du Léman, des mollusques à l'agonie? *Le Courrier de la Nature*. [345, 12-14](#).
- Buser C, Bortoluzzi C, Feulner PGD, Fischer MC, Naciri Y, Pärli R, Richman S, **Weber A. A-T**, Widmer A, Gugerli F. (2025) Einführung in die Grundlagen der angewandten Naturschutzgenetik. *N+L Inside*. [1/25, 25-26](#).

Datasets

- **Faust E*, Conrads J*, Giulio M**, Ciofi C, Natali C, Feulner PGD, **Weber, A.A-T** (2025). Beyond genetic indicators: how reproductive mode and hybridization challenge freshwater mussel conservation (Version 1.0). Eawag: Swiss Federal Institute of Aquatic Science and Technology. [ERIC Open Data package](#). *Equal contribution.
- **Faust E*, Conrads J***, Feulner PGD, **Weber A.A-T** (2025). Conservation genomics of *Anodonta* freshwater mussels in Switzerland. Version 1.1. Swiss National Biodiversity Data and Information Centres – infospecies.ch. [Metadata dataset](#) accessed via GBIF.org. *Equal contribution.
- **ERGA council et al (Weber A.A-T and 64 co-authors)**. European Reference Genome Atlas Community - Phase 1 Members - 2020-2023. (2023) [Zenodo dataset](#).

Research Briefing / Letter / Correspondence

- **Weber A.A-T.** and O'Hara T.D. (2025) The deep sea is a globally connected habitat. *Nature. Research briefings*.
- Mazzoni CJ, Ciofi C and Waterhouse R on behalf of **ERGA council**. (2023) Biodiversity: an atlas of European reference genomes. *Nature*. [619, 252](#).
- Verheyen E. et al., (68 authors, including **Weber A.A-T**) (2016) Oil extraction imperils Africa's Great Lakes. *Science*. [354:561-562](#)

Approved projects (total funding: ~2.8M CHF)

04.2025	SNSF MAPS project. Main applicant on the project "Multifaceted approach to understand freshwater mussel decline and resilience in the face of global warming". Other co-applicants: T.A. Zajac and J. Lajtner. Funded by the Swiss National Science Foundation and the Croatian Science Foundation – Multilateral Academic Project. 1,048,340 CHF
03.2025	FOEN project. Co-PI with P. Spaak on the project "Entwicklung eines Verfahrens zur Überwachung der Quaggamuschel in Schweizer Seen". Funded by the Federal Office for the Environment (FOEN) and Eawag. 558,000 CHF
07.2024	Eawag Discretionary Fund. PI of the project "Rolling in the deep: Biology, ecology and adaptation of deep Quagga mussels in Swiss lakes". Funded by Eawag. 200,000 CHF
07.2024	ETH Open Research Data Explore Project. Co-applicant of the project "Promoting Open Research Data Practice for Genetic Diversity (meta)datasets". Main applicant: F. Gugerli. Other co-applicants: P.G.D.

- Feulner, M.C. Fischer, C. Buser, I. Iosifescu Enescu, L. Wotruba. Funded by the ETH Domain. **150,000 CHF**
- 11.2023 **Interreg Alpenrhein-Bodensee-Hochrhein Project.** “Seewandel Climate: Modelling the consequences of climate change and neobiota for Lake Constance”. Large international project involving 6 institutions and 10 PIs across Germany, Austria and Switzerland. Total budget: 5,000,000 EUR. Main applicant and project leader: P. Spaak. Funded by Interreg (EU & CH). PI of the subproject: “How will Quagga mussels develop in a changing lake?” **400,000 EUR**
- 12.2022 **Directorate Fund.** Competitive funding to set up a scientific dive unit at Eawag. Funded by Eawag. **90,000 CHF**
- 10.2022 **Anakom Fund.** Competitive instrument funding to obtain an Agilent 4200 TapeStation. Funded by Eawag. **57,000 CHF**
- 07.2022 **Eawag Discretionary Fund.** Co-PI with P.G.D. Feulner on the project “Establishing a framework for conservation genomics of freshwater biodiversity”. Funded by Eawag. **334,000 CHF**
- 05.2022 **Eawag Tailwind Grant.** PI of the project “Developing Quagga and Zebra mussel rearing for evolutionary and biocontrol studies”. Funded by Eawag. **22,000 CHF**

Fellowships, prizes, awards (total funding: ~400k CHF)

- 07.2020 **Micro One World Grant** covering open access publication fees for an article in *Genome Biology and Evolution*. Awarded by the Marie Curie Alumni Association. **1,000 EUR**
- 01.2018 **Marie Skłodowska-Curie Global Fellowship** covering 36 months of research for the project “The molecular drivers of deep-sea adaptation in brittle stars”. Awarded by the European Commission Horizon 2020. **270,000 EUR**
- 11.2017 **Endeavour Research Postdoctoral Fellowship** covering 6 months of research for the project “The molecular drivers of deep-sea adaptation in brittle stars”. Awarded by the Australian Government, Department of Education and Training. **24,000 AUD**
- 09.2017 **Travel Award** covering registration, travel and accommodation for the ESEB conference 2017, awarded by the University of Basel. **900 CHF**
- 04.2016 **Registration Award** covering registration fees for the SMBE conference 2016, awarded by the SMBE. **500 USD**
- 05.2016 **Travel Award** covering travel and accommodation for the SMBE conference 2016, awarded by the University of Basel. **1,100 CHF**
- 07.2015 **Christopher Augur Prize:** special prize of the jury rewarding scientific investment during the PhD. Awarded by the IMBE, Marseille, France
- 07.2012 **ASSEMBLE Fellowship** covering travelling, lodging, sampling and molecular work in Faro and Sagres, Portugal. **2,500 EUR**
- 07.2011 **PhD Scholarship** for 3 years of the French Ministry of Education, based on excellence criteria. **100,000 EUR**

Current and past group members of the Weber Lab

Master student	Julie Conrads (02.2023 – 05.2024)
PhD students	Julie Conrads (09.2024 – ongoing) Silvia Signorini (10.2023 – ongoing). Guest PhD student from the University of Milan.
Postdocs	Dr. Joana L. Santos (04.2024 – ongoing) Dr. Ellika Faust (03.2023 – 03.2025) Dr. Ryan J. Daniels (08.2022 – 10.2023)
Guest researchers	Dr. Anish Kirtane (05.2025 – ongoing) Dr. Chiara Bortoluzzi (10.2024 – 02.2025) Dr. Kavitha Uthnumallian (11.2022 – 03.2024) Silvia Signorini (04.2022 – 05.2022)
Technicians	Silvana Käser (06.2025 – ongoing) Marco Giulio (02.2022 – ongoing) Urs Legster (09.2024 – 07.2025) Max Hofland (10.2023 – 08.2024) Morris Galli (03.2023 – 08.2023)

Supervision and mentoring activities

09.2024 – 11.2024	Block course project supervision: Stefan C.H. Kuster & Sarah Y. Beck (Aquatic Ecology, Eawag, Switzerland)
09.2023 – 11.2023	Block course project supervision: Mathys Bourqui & Timo Siegrist (Aquatic Ecology, Eawag, Switzerland)
11.2019 – 12.2019	Bachelor project supervision: Qianying Zhou (Museums Victoria, Australia)
01.2018 – 03.2018	Master project co-supervision: Aishwarya Ravi (University of Basel, Switzerland)
03.2017 – 04.2017	Bachelor project supervision: Sabrina Gurten and Matthias Baureithel (University of Basel, Switzerland)

Teaching

10.2024	Lecturer for the Aquatic Ecology Block course at ETHZ (701-3437-01L) • Genomics and Conservation • Invasion in Aquatic Ecosystems
01.2018 – 02.2018	Teaching assistant in Speciation Genomics (Cesky Krumlov, Czech Republic) TA in the evomics workshop on “Population and Speciation Genomics” Development of a UNIX tutorial & assisting teaching faculty for bioinformatic practical work (total 126h)
10.2011 – 09.2014	Teaching assistant in Biology (Aix-Marseille University, France) Lecture (L) and practical work (PW) for 3 academic years (total 192h): • Molecular Biology (18h/y PW) • Population Genetics (4h/y L; 10h/y PW) • Zoology (4h/y L; 12h/y PW) • Botany (4h/y L; 12h/y PW)

PhD committees

- 03.2024 – present **Thesis Advisory Committee** (TAC) member for the PhD of Lucy Jimenez (University of Cologne, Germany). Yearly meetings.
- 12.2023 **Aptitude Colloquium Committee** member for the PhD of Giulia Lin (ETH Zürich, Switzerland)

Institutional responsibilities

- 03.2025 – present **Eco representative** in the Eawag IT commission
- 04.2023 – present **Eco representative** for the Eawag seminars
- 01.2023 – present **Coordinator** of the Eawag Tenure-Track cohort
- 01.2023 – present **Scientific manager** of the Eawag scientific dive unit

National and international committees, panel memberships

- 05.2025 – 06.2025 **Hiring Committee Member** for the research officer in non-arthropod invertebrate position at the Natural History Museum of Geneva, Switzerland.
- 02.2025 – present **Member** of the COST action “Genetic Nature Observation and Action” (GENOA). [CA23121](#). Involvement in WG3: From Genes to Ecosystems.
- 03.2024 – present **Scientific advisor** for the [Global Biodiversity Information Facility \(GBIF\) Switzerland](#)
- 01.2023 – 12.2024 **Representative for Switzerland** in the [European Reference Genome Atlas \(ERGA\)](#) council of country representatives
- 02.2022 – 04.2024 **Member** of the COST action “Conservation of Freshwater Mussels: a Pan-European Approach” (CONFREMU). [CA18239](#). Involvement in WG1: Mussel’s Diversity and WG3: Conservation Biology.
- 01.2022 – present **Member** of the Swiss node of the [European Reference Genome Atlas \(ERGA\)](#)

Diversity, equity, inclusion

- 09.2024 - present **feM-LEAD Mentor** (mentee: Silvana Käser). female Mentoring: Leadership for Equity And Diversity Programme of the 4 research institutes of the ETH Domain.
- 01.2019 – 12.2020 500 Women Scientists Melbourne **Pod Coordinator**.

Practice-oriented courses and seminars

- 06.2025 **WSL, Eawag and ETHZ course: “Angewandte Naturschutzgenetik für die Praxis”**. Co-organizer and speaker. (University of Bern, Bern, Switzerland).
- 03.2024 **Eawag PEAK course V58/24** “Quaggamuschel in der Schweiz – Grundlagen und Weiterentwicklung von Präventions- und Monitoringmassnahmen”, invited speaker (Eawag, Dübendorf, Switzerland)
- 05.2023 **Eawag PEAK course V56/23** “Gebietsfremde Arten in Schweizer Gewässern”, Moderator, speaker and panel member (Eawag, Dübendorf, Switzerland)

05.2023 **Invited speaker**, “Erhaltungsgenomik von Süßwassermuscheln”, Fauch-Austausch Grossmuscheln (Netzwerk Gewässerökologie, Aarau, Switzerland)

Invited seminars

09.2025 “Conservation genomics of *Anodonta* freshwater mussels in Switzerland” (GDC Symposium, Zürich, Switzerland)

07.2025 “Multifaceted approach to understand freshwater mussel decline and resilience in the face of global warming” (LIFE4delta, Umanowice, Poland)

06.2024 “Museomics: The importance of museum collections during the era of biodiversity genomics” (MusNatColl24, Natural History Museum Bern, Switzerland)

05.2024 “Adaptation and conservation genomics in aquatic ecosystems” (Department of Fish Ecology and Evolution, Eawag, Switzerland)

05.2024 “Genomic tools for evolutionary biology and conservation: case studies from freshwater mussels” (Department of Evolutionary Biology and Environmental Studies, University of Zürich, Switzerland)

10.2023 “Genomic tools for evolutionary biology and conservation: case studies from freshwater mussels” (CEEBS seminar Kastanienbaum, Eawag, Switzerland)

06.2023 “Genomics for evolutionary biology and conservation: case studies from freshwater mussels” (Institute of Biology, Neuchâtel, Switzerland)

08.2022 “From biomonitoring to conservation: the multifaceted roles of genomic approaches in ecology” (IntEcol2022 conference, Geneva, Switzerland)

04.2022 “Walking along the speciation continuum: Genomic insights on adaptive divergence across evolutionary timescales in aquatic species” (Online seminar, Department of Organismal Biology, Uppsala, Sweden)

12.2021 “What genomics can teach us about adaptation and speciation” (Department of Aquatic Ecology, Eawag, Switzerland)

11.2021 “Origins and maintenance of biodiversity in a changing world: a genomic perspective” (Department of Ecology and Evolution, University of Lausanne, Switzerland)

03.2021 “Diversification dynamics and (non-)parallel evolution along an ecological gradient in African cichlid fishes” (Online seminar, Evo-Eco-Paleo Lab, University of Lille, France)

11.2020 “Rolling in the deep: adaptive evolution and ecological speciation in abyssal brittle stars” (Online seminar, Department of Ecology and Evolution, University of Lausanne, Switzerland)

Participation to national and international conferences (last 5 years)

05.2025 **FMCS2025**, 14th Freshwater Mollusk Conservation Society Symposium, Ypsilanti, USA. “Conservation genomics of *Anodonta* freshwater mussels in Switzerland” (oral communication)

- 08.2024 **ConservationGenetics2024**, 6th European Conservation Genetics meeting, Lausanne, Switzerland. “Conservation genomics of *Anodonta* freshwater mussels in Switzerland” (oral communication)
- 06.2024 **WBF24**, 3rd World Biodiversity Forum, Davos, Switzerland. “Conservation genomics of *Anodonta* freshwater mussels in Switzerland” (oral communication)
- 05.2024 **MolluscGenomics24**, Establishing state-of-the art mollusc genomics, EMBO Workshop, Namur, Belgium (hybrid conference). “Conservation genomics of *Anodonta* freshwater mussels in Switzerland” (oral communication)
- 02.2022 **Biology22**, the Swiss conference of organismal biology, Basel, Switzerland (hybrid conference). “Giant genomes uncover cryptic speciation in the deep ocean” (oral communication)
- 09.2021 **16DSBS**, The 16th Deep-Sea Biology Symposium, Brest, France (hybrid conference). “Giant genomes uncover ecological speciation in the deep ocean” (oral communication)
- 07.2021 **SMBEv2021**, Society for Molecular Biology and Evolution virtual meeting. “Incipient bathymetric speciation and trans-oceanic connectivity as revealed by giant deep-sea genomes” (online oral communication)
- 06.2021 **Virtual Evolution 2021**, SSE, SSB and ASN virtual conference. “Incipient bathymetric speciation and trans-oceanic connectivity as revealed by giant deep-sea genomes” (online oral communication)

Scientific reviewing & editorial activities

Review of **31 manuscripts**:

Molecular Ecology (5); *Evolutionary Applications* (4); *Frontiers in Marine Science* (2); *Marine Ecology Progress Series* (2); *Scientific reports* (2); *Comptes Rendus Biologies* (2); *Systematic Biology* (1); *Proceedings of the Royal Society B* (1); *Heredity* (1); *Ecology & Evolution* (1); *Journal of Great Lakes Research* (1); *Marine Biology* (1); *Marine Biodiversity* (1); *BMC Ecology and Evolution* (1); *BMC Genomics* (1); *PeerJ* (1); *Invertebrate Biology* (1); *Evolution & Development* (1); *Proteins: Structure, Function and Bioinformatics* (1); *Continental Shelf Research* (1).

Review of **2 grant proposals** for the following funding agencies:

German Research Foundation (DFG) (1); Natural Sciences and Engineering Research Council of Canada (NSERC) (1).

Review Editor for *Frontiers in Marine Science* (Section: Marine Ecosystem Ecology)

Guest editor in *Frontiers in Marine Science*. Research topic: [16th Deep-Sea Biology Symposium](#)

Outreach activities and media coverage

- 04.2025 **Interviews** for the Swiss National Radio RTS about the [Eawag report](#): “Moule Quagga: concept de monitoring et recommandations sur les mesures de prévention et de protection”. Filmed interview for [RTS Forum](#); radio interviews for [RTS CQFD](#) and [Radios Régionales Romandes](#) (in French).
- 11.2024 **Filmed interviews** for the SRF Einstein scientific documentary “Invasive Quagga-Muscheln: Kollabierende Seen und Millionenschäden”. [Swiss National Television SRF](#). Aired on 19.12.24 (in German). Follow-up interview for [NZZ](#).

09.2024	Extensive media coverage reporting our finding of Quagga mussels in Lake Zürich during a benthic invertebrate survey. SRF1 radio interview ; TeleZüri ; Tagesanzeiger (with interview); NZZ ; 20Minuten ; Watson .
09.2021	Filmed interview in the documentary: “Deep-sea Taxonomy: challenges and prospects”.
01.2020	Filmed interview in the documentary: “ Seamounts coral survey 2018 Episode 3: Life in the matrix ”. Showed at several outreach events.
08.2019	General public talks for the two events ‘National Science Week Launch’ and ‘Science on Show’: “Exploring brittle star genomics to uncover mechanisms of deep-sea adaptation” (Museums Victoria, Melbourne, Australia)
08.2019	Participation in the ‘10s science challenge’ social media event (Museums Victoria, Melbourne, Australia)
11.2018	Blogpost for the seamount corals survey 2018: “ Brittle stars on corals: opportunists or partners? ”
06.2018	General public talk at Museums Victoria Nocturnal Event: “Bioluminescence in the twilight zone” (Museums Victoria, Melbourne, Australia)

Organisation of scientific conferences, seminars and networking events

05.2023 – 01.2024	Organiser of ERGA-CH networking hour at Biology24 (Zürich, Switzerland).
04.2023 – 01.2024	Member of the organising committee of Biology24 (Zürich, Switzerland).
09.2020 – 09.2021	Manager of social media communication and member of the organising committee of the 16 th Deep-Sea Biology Symposium (Brest, France).
07.2018 – 12.2020	Organiser of the biweekly Science Interaction Seminars (Museums Victoria, Melbourne, Australia)
06.2016	Organiser of the Science Day for the Salzburger Lab (Basel, Switzerland)
08.2013	Member of the organising committee of the Petit Pois Déridé conference (Marseilles, France)

Fieldwork experience

06.2022 – present	Sampling targeting native (e.g. <i>Anodonta</i> sp., <i>Unio</i> sp.) and invasive (e.g. quagga and zebra mussels; Asian clam) freshwater bivalves across various localities in Switzerland, Germany and France. Shallow-water sampling by snorkelling or SCUBA diving. Deep-water sampling by dredging from Eawag boats or the R/V Kormoran (ISF, LUBW, Germany).
11.2018 – 12.2018	Deep-Sea Research cruise IN2018_V06 on R/V Investigator (CSIRO, Australia). Assessment of the status and recovery of deep-sea coral communities on seamounts in iconic Australian marine reserves (Southern Ocean). (4 weeks)
07.2016 – 08.2016	Experiment monitoring and sampling in Zambia targeting the cichlid fishes
11.2015 – 12.2015	<i>Astatotilapia burtoni</i> and <i>Pseudocrenilabrus philander</i> . (Total: 13 weeks)
07.2015 – 08.2015	
02.2015 – 03.2015	Deep-Sea Research cruise ABYSSLINE 02 on R/V Thompson (National Oceanography Centre, UK). Assessment of the foraminiferal biodiversity baseline in the polymetallic nodule mining area of the Clarion-Clipperton Zone (Pacific Ocean). (6 weeks)

2011-2014 **Sampling** targeting the brittle star *Ophioderma longicauda*. Sampling by snorkelling or SCUBA diving in various locations (Greece; Portugal; Tunisia; Canary Islands; Madeira). (6 weeks)

Further qualifications & training

07.2025	Workshop “LIFE Academy: Practical approaches to freshwater mussel restoration” , Nature Education Center, Umianowice, Poland
02.2024 – 03.2024	CAS “Leadership in Science” – Basic module, FHNW, Windisch, Switzerland
04.2023 – 08.2023	Course “Scientific diving: theory and practice” , Eawag, Dübendorf, Switzerland
05.2022	Course “Project Management: Methodology & Tools” , Eawag, Dübendorf, Switzerland
05.2022	‘Fix the leaking pipeline’ course “Leadership and how to succeed in the scientific community” , ETHZ, Zürich, Switzerland
06.2019	SMBE satellite workshop/meeting on Speciation , Tjärnö, Sweden (participation on a competitive basis)
06.2019	Summer School on Networks and Evolution , Roscoff, France (participation on a competitive basis)
03.2018	PADI Advanced Open Water diver certification , Bohol, Philippines
02.2018	Winter School WGS Assembly and Annotation , Monte-Verità, Switzerland
11.2017	Workshop “Leading a research group” , Basel, Switzerland
02.2017	Winter school Bioinformatics for Adaptation Genomics , Weggis, Switzerland
02.2016	Women in science workshop , “No excellence without diversity: promoting gender equality in ecology and evolutionary biology”. Lausanne, Switzerland
01.2016	Workshop on Population and Speciation Genomics , Cesky Krumlov, Czech Republic (participation on a competitive basis)
2011-2014	Courses on teaching skills : Learning with projects; group working; communication; conflicts management; tutelage; posture and voice; integration of foreign students; evaluation. Marseille, France
09.2008	CEDIP/ANMP* diver certification , Le Brusc, France

Memberships in scientific societies

Freshwater Mollusc Conservation Society, Society for Molecular Biology and Evolution, European Society for Evolutionary Biology, Society for the Study of Evolution, Swiss Systematics Society, FemWiss (Swiss Association for Women in Research), Deep-Sea Biology Society.

Languages

French	First language
English	Fluent (TOEFL certificate; working language since 2011)
German	Working knowledge (C1 certificate)

Main collaborators (past and present)

Prof. Marina Piria	University of Zegreb, Zagreb, Croatia
Prof. Jasna Lajtner	University of Zegreb, Zagreb, Croatia
Prof. Tadeusz A. Zając	Polish Academy of Science, Kraków, Poland
Prof. Dr. Jukka Jokela	Eawag & ETHZ, Dübendorf, Switzerland
Dr. Corine Buser-Schöbel	WSL, Birmensdorf, Switzerland
Dr. Felix Gugerli Künzle	WSL, Birmensdorf, Switzerland
Dr. Anita Narwani	Eawag, Dübendorf, Switzerland
PD Dr. Piet Spaak	Eawag, Dübendorf, Switzerland
Dr. Philine G.D. Feulner	Eawag, Kastanienbaum, Switzerland
Dr. Britta Meyer	Max Planck Institute, Plön, Germany
Dr. Yale Passamanek	US Bureau of Reclamation, Washington, USA
Prof. Dr. Kevin Kocot	University of Alabama, Tuscaloosa, USA
Prof. Dr. Camilla Della Torre	University of Milan, Milan, Italy
Dr. Timothy D. O'Hara	Museums Victoria, Melbourne, Australia
Dr. Adnan Moussalli	Museums Victoria, Melbourne, Australia
Dr. Sophie Arnaud-Haond	Ifremer, Sète, France
Dr. Jozée Sarrazin	Ifremer, Brest, France
Prof. Dr. Walter Salzburger	University of Basel, Basel, Switzerland
Dr. Anne Chenuil	IMBE, CNRS, Marseille, France
Dr. Sabine Stöhr	Swedish Museum of Natural History, Stockholm, Sweden
Dr. Andrew J. Gooday	National Oceanography Centre, Southampton, United-Kingdom
Prof. Dr. Jan Pawlowski	University of Geneva, Geneva, Switzerland