

Time	Session	Speaker	Group	Institute	E-Mail
08:45–09:15	<b>Welcome Coffee</b>				
09:15–09:30	<b>Introduction</b>	Blake Matthews, Catherine Graham, Rolf Holderegger			
09:30–09:49	<b>Swiss National Inventories</b>				
	GenDiB - National database of genetic diversity from populations of wild species	Corine Buser	Ecological Genetics	WSL	corine.buser@wsl.ch
	Integrating prokaryotic diversity into aquatic ecology and biodiversity surveys	Helmut Bürgmann	Microbial Ecology	Eawag	helmut.buergmann@eawag.ch
	INSECT - a research initiative on insect community changes in Switzerland	Kurt Bollmann	Conservation Biology	WSL	kurt.bollmann@wsl.ch
	Swiss National Forest Inventory NFI - Data Availability and Cooperation	Fabrizio Cioldi	Scientific Service NFI	WSL	fabrizio.cioldi@wsl.ch
	Swiss National Assessment of Lake Biodiversity and Ecosystem Services	Nadine Fragniere	Aquatic Ecology	Eawag	nadine.fragniere@eawag.ch
09:49–10:11	<b>Innovations in Monitoring</b>				
	Implementation of a high-frequency eDNA sampling to monitor riverine biodiversity in Switzerland	Grace Kotnik	Spatial Dynamics (Altermatt Lab)	Eawag	grace.kotnik@eawag.ch
	Using global Earth observation products to monitor biodiversity and ecosystem resilience in lakes	Ann Scheliga	Remote Sensing	Eawag	ann.scheliga@eawag.ch
	Towards automated vision-based monitoring of insects in high temporal resolution – a pilot project in the Swiss Alps	Anne Kempel	Mountain Ecosystems	WSL	anne.kempel@sif.ch
	Highlighting the sky: Radars for insect biodiversity monitoring	Elske Tielens	Dynamic Macroecology	WSL	Elske.Tielens@wsl.ch
	A framework for a remote sensing based assessment of mountain grassland diversity	Robert Pazur	Spatial Evolutionary Ecology	WSL	robert.pazur@wsl.ch
	A common evidence base for biodiversity monitoring: harmonizing heterogeneous measures into actionable metrics for policy, practice & reporting	Robert McElderry	Forest Health and Biotic Interactions	WSL	robert.mcelderry@wsl.ch
10:11–10:33	<b>Population and Community Ecology</b>				
	Lifting borders: Fine-scale environmental variation promotes taxonomic diversity in a mixed stand of hybridizing white oak species ( <i>Quercus</i> spp.)	Christian Rellstab	Ecological Genetics	WSL	christian.rellstab@wsl.ch
	Automated imaging and machine learning to understand and forecast plankton community dynamics in lakes	Francesco Pomati	Plankton Ecology	Eawag	francesco.pomati@eawag.ch
	Rare species are affected by management in semi-natural Swiss landscapes	Catherine Graham	Spatial Evolutionary Ecology	WSL	catherine.graham@eawag.ch
	Beneath the Surface: Exploring Benthic Macroinvertebrate Communities in Lake Zurich	Julie Conrads	Adaptation and Conservation Genomics (Weber Lab)	Eawag	julie.conrads@eawag.ch
	Dynamic species diversity derived from forest-landscape- and theoretical models	Heike Lischke	Dynamic Macroecology	WSL	heike.lischke@wsl.ch
	Demographic Buffering: a species coexistence mechanism in fluctuating environments?	Xianyu Yang	Forest Diversity and Biodemography	WSL	xianyu.yang@wsl.ch
10:33–11:03	<b>Coffee break</b>				

Time	Session	Speaker	Group	Institute	E-Mail
11:03–11:22	<b>Biodiversity Patterns Across Diverse Taxonomic Groups</b>				
	Heritable endosymbionts: An underappreciated level of biodiversity	Christoph Vorburger	Evolutionary Ecology	Eawag	christoph.vorburger@eawag.ch
	Diversity of migratory fish in Swiss aquatic ecosystems	Jakob Brodersen	River Fish Ecology	Eawag	jakob.brodersen@eawag.ch
	High-frequency eDNA sampling to understand aquatic biodiversity: insights from Chinese rivers and Lakes	Jiang Shan	Spatial Dynamics (Altermatt Lab)	Eawag	shan.jiang@eawag.ch
	Predator-prey networks (bird-insects) along the forest-urban gradient	Marco Basile	Forest Health and Biotic Interactions	WSL	marco.basile@wsl.ch
	Amphipods of Switzerland – Above and below ground, and in the lab	Roman Alther	Spatial Dynamics	Eawag	roman.alther@eawag.ch
11:22–11:44	<b>Elevational Gradients - Diversity Trends</b>				
	Elevation Restructures Plant Traits and Consumer Damage	Carla Behringer	Mountain Ecosystems	WSL	carla.behringer@slf.ch
	Periphyton at the Peaks – Elevational and Seasonal Shifts in Alpine Periphyton	Connor Morang	Foodweb Ecophysiology	Eawag	connor.morang@eawag.ch
	Browning to greening transitions across an elevation gradient in Alpine forests	Harsh Beria	Snow Processes	WSL	Harsh.Beria@slf.ch
	The Shifting Clock of Alpine Streams - Phenological and Food-Web Responses of Aquatic Insects	Giorgia Ercole	Foodweb Ecophysiology	Eawag	giorgia.ercole@eawag.ch
	Novel Consumer Impact on Alpine Grasslands Across Elevational Gradients	Severin Freund	Mountain Ecosystems	WSL	severin.freund@slf.ch
	Variation in hummingbird specialization across mutualistic networks is explained by bill length and ecological context	Elisa Barreto Pereira	Spatial Evolutionary Ecology	WSL	elisa.barreto@wsl.ch
11:44–12:06	<b>Broad Scale Diversity Patterns and Drivers</b>				
	Where does the stream water go? eDNA as a hydrologic tracer	Anish Kirtane	Adaptation & Conservation Genomics	Eawag	anish.kirtane@eawag.ch
	Diminished resilience toward bioclimatic limits of the world's forests revealed by Earth observation	Katharina Runge	Forest Diversity and Biodemography	WSL	katharina.runge@wsl.ch
	Adaptation and dispersal in global species responses to climate change	Thomas Keggin	Theory in Biology, Ecology and Evolution	Eawag	carlos.melian@eawag.ch
	Bergmann's Rule Is Supported for Terrestrial Vertebrates in Environmental Space	Matheus Lima de Araujo	Spatial Evolutionary Ecology	WSL	matheus.lima@wsl.ch
	The Global Human Impact on Biodiversity: A (Very) Large Synthesis	Francois Keck	Spatial Dynamics	Eawag	francois.keck@eawag.ch
	A proposal for a "Biome Biogeography Theory"	Niklaus Zimmermann	Dynamic	WSL	niklaus.zimmermann@wsl.ch
12:06–12:18	<b>Climate Change: Quantifying Effects on Biodiversity and Identifying Mitigation Strategies</b>				
	Effects of warming and aboveground biodiversity loss on soil invertebrates in alpine grasslands	Carole Schöpfer	Mountain Ecosystems	WSL	carole.schoepfer@slf.ch
	Thermophilisation in freshwater and terrestrial communities	Christian Rixen	Mountain Ecosystems	WSL	rixen@slf.ch
	Soil biodiversity under global change	Irene Cordero Herrera	Community Ecology	WSL	Irene.Cordero@wsl.ch
12:18–12:30	<b>End of morning session</b>				
12:30–13:45	<b>Lunch break</b>				

Time	Session	Speaker	Group	Institute	E-Mail
13:45–14:04	<b>Social Sciences</b>				
	Bridging the gap between Biodiversity research and the public/practitioners through interactive solutions.	Johan Früh	Spatial Evolutionary Ecology	WSL	johan.frueh@wsl.ch
	Social-ecological networks and climate scenarios in a Swiss river basin	Jahmaira Archbold	Policy Analysis and Environmental Governance	Eawag	jahmaira.archbold@eawag.ch
	Navigating Trade-Offs: Integrating Biodiversity with Techno-Economic Performance and Stakeholder Preferences for Blue-Green Infrastructure Decisions	Sebastian Schaer	Decision Analysis	Eawag	sebastian.schaer@eawag.ch
	Planning for Biodiversity: Lessons from Swiss Municipal Land-Use Plan Revisions	Stephanie Schwab Cammarano	Regional Economics and Development	WSL	Stephanie.Schwab@wsl.ch
	Bridging Science and Practice: Insights from the Translational Center Biodiversity Conservation	Alanis Camichel	Evolutionary Ecology	Eawag	alanis.camichel@usys.ethz.ch
14:04–14:23	<b>Interactions and Foodwebs</b>				
	Blue green infrastructure and social-ecological networks	Janine Bolliger	Forest Entomology	WSL	janine.bolliger@wsl.ch
	On some ecosystem effects of predators in aquatic ecosystems	Blake Matthews	Eco-Evolutionary Dynamics	Eawag	blake.matthews@eawag.ch
	Biodiversity dynamics with complex genotype-to-phenotype architecture in multilayer networks	Carlos Melian	Theory in Biology, Ecology and Evolution	Eawag	carlos.melian@eawag.ch
	Microbial Biodiversity and Carbon Use Efficiency in Soils under Nature-Based Solutions: The BIOCUE Project	Jose Schreckinger	Community Ecology	WSL	jose.schreckinger@wsl.ch
	Do interactions between Earthworm species enhance litter-derived carbon transfer into the mineral soil?	Philipp de Jong	Soil Biogeochemistry	WSL	philipp.dejong@wsl.ch
14:23–14:34	<b>Climate change: Quantifying effects on biodiversity and identifying mitigation strategies</b>				
	Climate resilient vegetation for sponge cities: join us!	Lauren Cook	Multifunctional Blue-Green Design	Eawag	lauren.cook@eawag.ch
	The Climate Change and Freshwater Biodiversity (CCFB) Program: Freshwater Ecosystems Under Multiple Stress	Markus Hermann	Evolutionary Ecology	Eawag	markus.hermann@eawag.ch
	Spatiotemporal Modeling of Species Distributions	Michael Nobis	Dynamic Macroecology	WSL	michael.nobis@wsl.ch
14:34–14:56	<b>Genetic diversity - applications from different scales</b>				
	Microorganisms and their mobile genetic elements in glacial meltwater: a dynamic system for gene exchange	Gilda Varliero	Rhizosphere Processes	WSL	gilda.varliero@wsl.ch
	Genetic and Metabolic Diversity of Cyanobacteria from Tintenstrich	Juliana Oliveira	Environmental Chemistry of Biomolecules	Eawag	juliana.oliveira@eawag.ch
	Glaciers retreat, stickleback advance: variation in demographic histories of freshwater stickleback population	Hanna Rosinger	Fish Genomics	Eawag	hanna.rosinger@eawag.ch
	The functional genetic potential of pristine soils	Jessica Cuartero Monino	Rhizosphere Processes	WSL	jessica.cuartero@wsl.ch
	Assessing the impact of chemical pollution on the genetic profile of wild populations	Tiffany Scholier	Systems Biology	Eawag	tiffany.scholier@eawag.ch
	When temperature won't tell you, epigenetics will: sexing Aldabra giant tortoises	Gözde Cilingir	Ecological Genetics	WSL	Goezde.Cilingir@wsl.ch
14:56–15:26	<b>Coffee break</b>				

Time	Session	Speaker	Group	Institute	E-Mail
15:26–15:48	<b>Conservation measures/impacts</b>				
	Genetic Gamble: learning from the return of bearded vultures to the Alps	Celine Kalberer	Ecological Genetics	WSL	celine.kalberer@wsl.ch
	Genome-wide analyses of the Alpine mountain hare <i>Lepus timidus</i> threatened by introgression and climate change	Eloise Nydegger	Ecological Genetics	WSL	eloise.nydegger@wsl.ch
	Evolutionary Conservation Genomics	Philine Feulner	Fish Genomics	Eawag	philine.feulner@eawag.ch
	Following fish movement throughout the large rivers	Jelger Elings	River Fish Ecology	Eawag	jelger.elings@eawag.ch
	Rapid adaptation of Quagga mussels to multiple stressors	Joana L. Santos	Adaptation and Conservation Genomics (Weber Lab)	Eawag	joana.santos@eawag.ch
15:48–16:10	<b>Conservation measures/impacts</b>				
	Chemical pollution impacts on biodiversity: Overcoming disciplinary divides to improve understanding, quantification and mitigation	Ksenia Groh	Bioanalytics	Eawag	ksenia.groh@eawag.ch
	Flood Refugia for Riverine Organisms	Chantal Hischier	River Restoration	Eawag	chantal.hischier@eawag.ch
	Traits trajectories of vascular plants and bryophytes in protected habitats	Noémie Pichon	Ecosystem Dynamics	WSL	noemie.pichon@wsl.ch
	Involving local residents in river restoration projects - A new practice guideline	Matthias Buchecker	Social Sciences in Landscape Research	WSL	matthias.buchecker@wsl.ch
	Green roofs harbor host unique communities with distinct food web dynamics relative to nearby ground-level habitats	Kilian Perrelet	Multifunctional Blue-Green Design / Conservation Biology	Eawag/WSL	kilian.perrelet@eawag.ch
16:10–16:25	Utilizing aquatic environmental DNA to address global biodiversity targets and eDNA integration into NFP82	Florian Altermatt	Spatial Dynamics (Altermatt Lab)	Eawag	florian.altermatt@eawag.ch
	Habitat conservation in Switzerland: developments in the sites of national importance since 2012	Steffen Boch	Ecosystem Dynamics	WSL	steffen.boch@wsl.ch
16:10–16:25	<b>Wrap-up and closing</b>	Martin Ackermann, Catherine Graham, Blake Matthews			
16:25	<b>Apéro</b>				