

WSL Biodiversity Research Day

3 October 2024 - Englersaal

Time	Topic	Speaker	Unit	Group	
13:00 - 13:05	Welcome	WSL Biodiversity Center			
13:05 - 13:30	Novel monitoring techniques	Jana Mittelstrass	Forest Health and Biotic Interactions	Phytopathology	Getting snapshots of fungal communities through monitoring of forest pathogens in the air
		Franziska Richter	Biodiversity and Conservation Biology	Conservation Biology	Can eDNA sampling of European pine forests inform about fungal conservation?
		Martina Lüthi	Land Change Science	Ecosystems and Landscape Evolution	Genetic and robotic technologies for pest detection
		Flurin Leugger	Land Change Science	Ecosystems and Landscape Evolution	Rapid field-based eDNA detections of a threatened and elusive species in Congo
		Q&A			
13:30 - 13:55	Ecosystem functions and services	Xingguo Han	Forest Soils and Biogeochemistry	Rhizosphere Processes	Importance of fungal diversity and network complexity in predicting soil multifunctionality across European biomes
		Arthur Gessler	Forest Dynamics	Ecosystem Ecology	Can biodiversity reduce forests' drought resistance?"
		Bastiaan Drost	Forest Health and Biotic Interactions	Forest Entomology	Effects of diversity and warming on leaf litter decomposition in mesocosms
		Félix Fracchia	Biodiversity and Conservation Biology	Ecological Genetics	Do fungal communities contribute to drought adaptation in beech ?
		Q&A			

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13:55 - 14:20	Mapping and understanding biodiversity	Elena Plekhanova	Land Change Science	Dynamic Macroecology	A quest to map global biomes from space
		Wenna Ding	Land Change Science	Dynamic Macroecology	Origin and assembly of the alpine biodiversity in the Northern Hemisphere
		Victor Boussange	Land Change Science	Dynamic Macroecology	A deep species-area relationship model to map the sensitivity of species richness to habitat size
		Andri Baltensweiler	Forest Resources and Management	GIS	Soil properties improve SDMs of macrofungi
		Q&A			
14:20 - 14:45	Trophic and network ecology	Merin Reji Chacko	Land Change Science	Ecosystems and Landscape Evolution	Decreases in the robustness of regional food webs to sequential species extinctions following habitat loss
		Anne Kempel	Alpine Environment and Natural Hazards	Mountain ecosystems	The Bug-Network: A global network to assess the impact of plant consumers on plant communities and ecosystem functioning
		Jan Vigués Jorba	Biodiversity and Conservation Biology	Conservation Biology	Effects of structural and physiological forest attributes on biodiversity, multi-trophic interactions and ecosystem functions across vertical forest layers
		Julien Leon Bota	Alpine Environment and Natural Hazards	Mountain ecosystems	Transplanting into the Future: Climate Change and its Impact on Plant-Herbivore Interactions in Mountain Ecosystems
		Q&A			
14:45 - 15:15	Coffee break				

Time	Topic	Speaker	Unit	Group	
15:15 - 15:37	Forest biodiversity and conservation	Martina Hobi	Forest Resources and Management	Stand Dynamics and Silviculture	Diversity in Swiss Forest Reserves over time
		Eugenie Paul limoges	Forest Dynamics	Ecosystem Ecology	Managing forests towards biodiversity or net zero goals? A Swiss case study
		Lisella Concetta	Alpine Environment and Natural Hazards	Mountain ecosystems	Bark beetle infestations in Swiss mountain forests: Challenges and opportunities for forest biodiversity potentiali and protective function
		Q&A			
15:37 - 16:02	Ecosystem functions and services	Katalin Csilléry	Biodiversity and Conservation Biology	Evolutionary genetics	From citizen science to distributed expeiments: a novel approach to inform assisted migration decisions in forestry
		Benno A. Augustinus	Forest Health and Biotic Interactions	Swiss Forest Protection (WSS)	Implications of high urban tree species richness and diversity for host availability of invasive forest pests
		Francesca Cerroti	Forest Health and Biotic Interactions	Forest Entomology	Temporal dynamics of ecosystem functioning in water-filled tree holes (WTH)
		Shuo Zong	Land Change Science	Ecosystems and Landscape Evolution	Estimation of river wildness with Artificial Intelligence, Remote Sensing and Citizen Science
		Q&A			
16:02 - 16:27	Environmental change and conservation	Michael Zehnder	Alpine Environment and Natural Hazards	Mountain ecosystems	Snow height sensors reveal phenological advance in alpine grasslands
		Esther Elizabeth Dale	Biodiversity and Conservation Biology	Spatial evolutionary ecology	Management intensity effects on plant diversity in Swiss semi-natural grasslands

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		Irene Cordero Herrera	Community Ecology	Plant-Animal Interactions	Soil biodiversity under human-induced perturbations
		Rea Pärli	Biodiversity and Conservation Biology		From Research to Reality: Introducing the Translational Centre for Biodiversity Conservation
		Q&A			
16:27 - 16:52	Monitoring and conservation	Ariel Bergamini	Biodiversity and Conservation Biology	Ecosystems Dynamics	Monitoring the effectiveness of habitat conservation in Switzerland: What happened in the last 12 years?
		Nicolas Roth	Forest Health and Biotic Interactions	Forest Entomology	Monitoring saproxylic beetles and fungi in Swiss forest reserves
		Stephanie Schwab Cammarano	Land Change Science	Land-use systems	Biodiversity in land-use planning: current results from Swiss case studies
		Nicola Van Kopenhagen	Forest Health and Biotic Interactions	Forest Entomology	Impacts of different streetlight characteristics on the abundance of flight-active and ground-dwelling arthropods
		Q&A			
16:52 - 17:00	Wrap-up				
17:00	Apéro				