

IDC Alpine Biology and Global Change – Spring meeting

14 May 2024, 13:30-18:00, HS A Bot

13:30 Welcome and Introduction

13:35-14:55 Session 1: Application talks (Chair: Edoardo Mandolini)

Alessandro Cuzzari: The ecological role of bioaerosols on glacial habitats

Maud Tissink: Water economics of grassland productivity under future droughts

Roman Schrott: The influence of (historical) forest litter raking to Alpine forest ecosystems in Tyrol

Benedikt Hiebl: Spatio-temporal mapping of evergreen broad-leaved species cover and biodiversity in European forests using deep learning and satellite remote sensing time series

14:55-15:15 *Coffee Break*

15:15-16:40 Session 2 (Chair: Lucia Laorden Camacho)

Carlotta Musso (ST): Water transport efficiency and safety in mountain shrubs

Edoardo Mandolini (ST): Microbial interactions in alpine environments

Sophia Mützel (ST): Microbial biofilms on polymer surfaces: diversity studies in a proglacial lake

Hanna Pritsch (ST): Plankton community composition in mountain lakes and consequences for ecosystem services

Tania Holtzem (ST): Temporal dynamics of *Daphnia* hybridization across peri-alpine lakes

Vitali Razumov (ST): Patterns of taxonomic change and hybrid genome evolution in the *Daphnia longispina* complex

Hans Rund (ST): Relating target fish DNA concentration to community composition analysis in freshwater fish via metabarcoding

Rubén Morón Asensio (FT): Temporal and spatial analysis of bioactive and toxic peptides in a cellular level

16:40-17:00 *Break*

17:00 –17:30 IDC Updates & Outlook

17:30 – 18:00 Scientist and Student Board Meetings

18:15-21:00 Evening event Botanical Garden

Note: Application, full and short talks last 15, 10 and 5 min, respectively. Each talk is followed by a 5 min discussion.