

# EUBIRECO<sup>2024</sup>

EUREGIO BIODIVERSITY RESEARCH CONFERENCE TYROL  
SOUTH TYROL  
TRENTINO

22. – 23.11. Bozen/Bolzano, Italy



Landesmuseen Südtirol  
Musei provinciali Alto Adige  
Museums provinziail



NATURMUSEUM SÜDTIROL  
MUSEO SCIENZE NATURALI ALTO ADIGE  
MUSEUM NATŔRA SÜDTIROL

BIODIVERSITY CENTER



EUROPAREGION  
EUREGIO  
Tirolo Südtirol Trentino  
Tirolo Alto Adige Trentino



# Tagungsprogramm – Programma del convegno

## Conference program

**Freitag / Venerdì 22.11.2024**

**Tagungsort / Luogo del convegno:**

Haus der Kultur / Casa della Cultura  
„Walther von der Vogelweide“,  
Schlernstr. / via Sciliar 1, Bozen/Bolzano

- 8:00 – 9:00 Anmeldung / Registrazione / Registration
- 9:00 – 9:20 Eröffnung der Tagung / Inaugurazione del convegno / Conference opening
- 9:20 – 10:00 **Keynote: Integrating genetic diversity into biodiversity conservation**  
MARTIN FISCHER; Institute of Integrative Biology, ETH Zürich (CH)

*Session: Biodiversity: recording and monitoring (fungi, animals, plants incl. pollen) 1*

Chair: Chiara Paniccia – Institute for Alpine Environment, Eurac Research, Bolzano

- 10:00 – 10:20 **Five years of Biodiversity Monitoring South Tyrol – report on the first monitoring cycle**  
ULRIKE TAPPEINER; Institute for Alpine Environment, Eurac Research, Bozen (I), Department of Ecology, University of Innsbruck (A)
- 10:20 – 10:40 **Caddisflies (Trichoptera) diversity in South Tyrol: From historical records to new findings**  
FRANCESCA VALLEFUOCO; Institute for Alpine Environment, Eurac Research, Bolzano (I)
- 10:40 – 11:00 **Monitoring of the Alpine Salamander, *Salamandra atra*, in Trentino: a Double Observer approach**  
LUCA RONER; MUSE – Museo delle Scienze, Trento (I)

**11:00 – 11:40** *Coffee break with poster flash-talks 1*

*Session: Biodiversity: recording and monitoring (fungi, animals, plants incl. pollen) 2*

Chair: Peter Huemer – Sammlungs- und Forschungszentrum, Hall i. Tirol

- 11:40 – 12:00 **The City Nature Challenge in Innsbruck – Exploring the Potential of Citizen Science Initiatives to Strengthen Regional Biodiversity Datasets in Museums**  
PETRA SCHATANEK-WIESMAIR & CHRISTIAN ANICH; Sammlungs- und Forschungszentrum, Hall i. Tirol (A)

12:00 – 12:20 **The MonitAnt project: towards a European standardized protocol for red wood ants monitoring**

ELIA NALINI; Institute for Alpine Environment, Eurac Research, Bolzano (I)

12:20 – 12:40 **Developing a standardized monitoring scheme of the I Annex Bird Directive species breeding in South Tyrol: methods and first results**

FRANCESCO CERESA; Museo di Scienze Naturali dell'Alto Adige, Bolzano (I)

12:40 – 13:00 **Large-scale passive acoustic monitoring of birds in an Alpine ecosystem**

JAREK SCANFERLA; Institute for Alpine Environment, Eurac Research, Bolzano (I)

13:00 – 14:30 **Lunch break**

*Session: Biodiversity: recording and monitoring (fungi, animals, plants incl. pollen) 3*

Chair: Mauro Gobbi – MUSE - Museo delle Scienze, Trento

14:30 – 14:50 **Soil fauna on mountaintops: first results from the GLORIA Extended samplings in South Tyrol**

MICHAEL STEINWANDTER; Institute for Alpine Environment, Eurac Research, Bozen (I)

14:50 – 15:10 **Soil biodiversity in protected, near-natural forests**

JULIA SEEBER; Institute for Alpine Environment, Eurac Research, Bozen (I)

15:10 – 15:30 **Long-term study of heavy metal and nitrogen concentrations in moss species *Hylocomium splendens* in South Tyrol**

RENATE ALBER; Biologisches Labor – Landesagentur für Umwelt und Klimaschutz, Leifers (I)

15:30 – 15:50 **Genetic variability of the chestnut blight fungus *Cryphonectria parasitica* in different populations of northern Italy**

SANJA BARIC; Free University of Bozen-Bolzano (I)

15:50- 16:10 **Grasslands4Biodiversity (G4B) – How can we protect biodiversity-rich grasslands in the Central Alps?**

JONAS SOMMER; Institute for Alpine Environment, Eurac Research, Bozen (I)

**16:10 – 16:40**

***Coffee break with poster flash-talks 2***

*Session: Ecology, environment & global change 1*

Chair: Camilla Wellstein – Free University of Bozen-Bolzano

16:40 – 17:00 **Rivers Run Through It – Exploring Aquatic Macroinvertebrate Diversity in the Vinschgau/Venosta Valley**

THEA SCHWINGSHACKL; Institute for Alpine Environment, Eurac Research, Bozen (I)

17:00 – 17:20 **A long-term perspective on hypolimnetic dissolved oxygen and surface CO<sub>2</sub>? Case study mountain Lake Tovel**

ULRIKE OBERTEGGER; Fondazione Edmund Mach, San Michele all'Adige (I)

17:20 – 17:40 **Does global change make high-elevation plant communities of the European Alps richer but less unique?**

PAU CARNICERO CAMPMANY; Department of Botany, University of Innsbruck (A)

17:40 – 18:00 **Alpine flora at the extremes: the distribution of plants on mountain peaks**

GIULIA TOMASI; Fondazione Museo Civico di Rovereto (I)

18:00 – 18:20 **Cold-adapted species in the warming Alps: who will survive?**

MAURO GOBBI; MUSE – Museo delle Scienze, Trento (I)

**19:00 – 21:00 *Abendessen – Cena – Dinner*** – Haus der Kultur / Casa della Cultura „Walther von der Vogelweide“, Schlernstr. / via Sciliar 1, Bozen/Bolzano

## Samstag / Sabato 23.11.2024

### Tagungsort / Luogo del convegno:

Naturmuseum Südtirol / Museo di Scienze Naturali dell'Alto Adige  
Bindergasse/via Bottai 1  
Bozen/Bolzano

8:00 – 8:30 Anmeldung / Registrazione / Registration

### *Session: Biodiversity & nature conservation*

Chair: Philipp Kirschner – Department of Botany, University of Innsbruck

- 8:30 – 8:50 **Preliminary Results on the Analysis and Conservation of Natural and Semi-natural Habitats in South Tyrol (LEST Project)**  
CAMILLA WELLSTEIN; Free University of Bozen-Bolzano (I)
- 8:50 – 9:10 **Peatlands in Trentino: an overview based on surveys covering 224 hectares conducted since 2011**  
DANIEL SPITALE; BioMonitoring Team, Tre Ville, TN (I)
- 9:10 – 9:30 **Wolf depredation on livestock in Trentino: an analysis of dynamics and prevention strategies**  
GIULIA BOMBIERI; MUSE – Museo delle Scienze, Trento (I)
- 9:30 – 9:50 **The landscape of fear in cow farms: breeding barn swallows reduce housefly activity in cattle sheds**  
FRANCESCA ROSEO; LIPU, Parma (I); MUSE – Museo delle Scienze, Trento (I)
- 9:50 – 10:10 **Extensive management practices and natural structural elements enhance bat conservation in mountain agricultural landscapes**  
CHIARA PANICCIA; Institute for Alpine Environment, Eurac Research, Bolzano (I)
- 10:10 – 10:30 **Crowded mountains: large-scale and long-term responses of mammals to human outdoor activity in mountainous areas**  
MARCO SALVATORI; MUSE – Museo delle Scienze, Trento (I); Università di Firenze (I)

**10:30 – 11:10**

*Coffee break with poster flash-talks*

### *Session: Systematics & biogeography (taxonomy, phylogenetics & evolution) 1*

Chair: Claudio Varotto – Fondazione Edmund Mach (FEM), San Michele all'Adige

- 11:10 – 11:30 **A few more tiny steps towards a better understanding of the flora of the Euregio region**  
PETER SCHÖNSWETTER; Department of Botany, University of Innsbruck (A)

- 11:30 – 11:50 **Distribution of polyploid plants in the Eastern Alps: a preliminary report**  
TERESA ZENI; Department of Botany, University of Innsbruck (A)
- 11:50 – 12:10 **Cryptic evolution and diversification of the agmatoploid-polyploid species complex *Luzula* sect. *Luzula* (Juncaceae) in the Eastern Alps**  
VALENTIN HEIMER; Institute for Alpine Environment, Eurac Research, Bozen (I); University of Innsbruck (A)
- 12:10 – 12:30 **Genomic Insights into Evolution and Refugial Dynamics of Endemic Vascular Plants in the Southeastern Limestone Alps**  
PHILIPP KIRSCHNER; Free University of Bozen-Bolzano (I); Department of Botany, University of Innsbruck (A)
- 12:30 – 12:50 **Evolution and range formation of the threatened steppe plant *Astragalus exscapus* and its relatives**  
CLEMENS MAYLANDT; Department of Botany, University of Innsbruck (A)

**13:00 – 14:30 Lunch break**

**Session: Systematics & biogeography (taxonomy, phylogenetics & evolution) 2**

Chair: Peter Schönswetter – Department of Botany, University of Innsbruck

- 14:30 – 14:50 **Phylogenetic remarks on hexaploid varicoloured fescues in the Southern Alps**  
PETER ENGLMAIER; OECONSULT, Sachverständigenbüro für ökologische Wissenschaften, Wien (A)
- 14:50 – 15:10 **Glacial legacies: Refugial dynamics of the endemic bush cricket *Anonconotus italoaustriacus***  
PHILIPP KIRSCHNER; Naturmuseum Südtirol, Bozen (I); Department of Botany, University of Innsbruck (A)
- 15:10 – 15:30 **Population genomics and invasion history of a Nearctic Leafhopper in Europe *Scaphoideus titanus***  
LAPO RAGIONIERI; Free University of Bozen-Bolzano (I)
- 15:30 – 15:50 **A DNA barcode library of Austrian Geometridae (Lepidoptera) reveals high potential for DNA-based species identification**  
BENJAMIN SCHATTANEK-WIESMAIR; Sammlungs- und Forschungszentrum, Hall i. Tirol (A)
- 15:50 – 16:10 **Disentangling evolutionary relationships within *Euphorbia angulata* (Euphorbiaceae)**  
ALEXANDER ULBRICH; Department of Botany, University of Innsbruck (A)
- 16:10 Ende der Tagung / Fine del convegno / End of the conference

**Abschluss mit Kaffee / Conclusione con caffè / Closure with coffee**

## Samstag / Sabato 23.11.2024

### Tagungsort / Luogo del convegno:

Waaghaus / Casa della Pesa  
Kornplatz / Piazza del Grano 12  
Bozen/Bolzano

8:00 – 8:30 Registration: **Museum of Nature South Tyrol, Bindergasse 1 / via Bottai 1**

### *Session: Biodiversity: recording and monitoring (fungi, animals, plants incl. pollen) 4*

Chair: Renate Alber – Biologisches Labor, Landesagentur für Umwelt und Klimaschutz, Leifers-Laives

8:30 – 8:50 **Airborne pollen biodiversity: changes in 30 years of data at San Michele all'Adige (North Italy)**

FABIANA CRISTOFOLINI; Fondazione Edmund Mach, San Michele all'Adige (I)

8:50 – 9:10 **Tiny but mighty - Pollen of South Tyrol**

MAGDALENA WIDMANN; Biologisches Labor – Landesagentur für Umwelt und Klimaschutz, Leifers (I)

9:10 – 9:30 **The air as a means to assess plant biodiversity in Alpine environments**

FRANZISKA ZEMMER; Fondazione Edmund Mach, San Michele all'Adige (I)

9:30 – 9:50 **AtlasFloraAlpina – towards a first online flora atlas for the entire Alpine arc**

THOMAS WILHALM; Naturmuseum Südtirol, Bozen (I)

9:50 – 10:10 **Introducing „naturamonta“: A New Scientific Journal Dedicated to Biodiversity and related Research In The EUREGIO Tyrol, South Tyrol, Trentino**

CHRISTIAN ANICH; Sammlungs- und Forschungszentrum, Hall i. Tirol (A)

### *Session: Ecology, environment & global change 2*

Chair: Franziska Zemmer – Fondazione Edmund Mach (FEM), San Michele all'Adige

10:10 -10:30 **Carbon Inventory South Tyrol – Quantification of Soil Organic Carbon (SOC) stocks and assessment of their stability for agricultural areas of South Tyrol, Italy**

ALEXANDER SCHÖNAFINGER; Institute for Alpine Environment, Eurac Research, Bozen (I)

**10:30 – 11:10**

***Coffee break with poster flash-talks***

### *Session: Ecology, environment & global change 2*

11:10 – 11:30 **Impact of land management and elevation on composition and structure of alpine flower-visiting arthropod communities**

MARCO CACCIANIGA; Università degli Studi di Milano (I)

- 11:30 – 11:50 **Evaluating the impact of grassland management on wild bee communities along an elevational gradient**  
LISA OBWEGS; University of Innsbruck (A)
- 11:50 – 12:10 **Assessing the impact of habitat and landscape heterogeneity on mountain bird communities**  
MATTEO ANDERLE; Institute for Alpine Environment, Eurac Research, Bolzano (I)
- 12:10 – 12:30 **Functional diversity of alpine dragonfly communities: The interplay between thermal adaptations and habitat requirements**  
FELIX PUFF; University of Vienna (A); Institute for Alpine Environment, Eurac Research, Bozen (I)
- 12:30 – 12:50 **Insect community simplification across land-use and elevational gradients deliver conservation insights from South Tyrol**  
ELIA GUARIENTO; Institute for Alpine Environment, Eurac Research, Bozen (I)

*13:00 – 14:30 Lunch break*

*Session: Ecology, environment & global change 3*

Chair: Christian Anich – Sammlungs- und Forschungszentrum, Hall i. Tirol

- 14:30 – 14:50 **Chironomid microbiome: new insights for cold adapted species from DNA metabarcoding analysis**  
VALERIA LENCIONI; MUSE – Museo delle Scienze, Trento (I)
- 14:50 – 15:10 **Rock glaciers as climate refuge: Preserving aquatic biodiversity in the face of glacier loss in the Eastern Italian Alps**  
MAGDALENA VANEK; Institute for Alpine Environment, Eurac Research, Bozen (I)
- 15:10 – 15:30 **Drivers and patterns of arthropod colonization of recently deglaciated terrains in the Dolomites (North-eastern Italian Alps)**  
IVAN PETRI; MUSE – Museo delle Scienze, Trento (I); University of Milan (I)
- 15:30 – 15:50 **Climate-driven shifts in the population dynamics of the invasive tiger mosquito (*Aedes albopictus*) in the European Alpine region**  
MARHARYTA BLAHA; Università di Trento (I)
- 15:50 – 16:10 **The nematode community of the spruce bark beetle in South Tyrol**  
VERONIKA RAU; Free University of Bozen-Bolzano (I)
- 16:10 Ende der Tagung / Fine del convegno / End of the conference

*Abschluss mit Kaffee / Conclusione con caffè / Closure with coffee*



For reasons of clarity, only **the names of the speakers** and their affiliations are listed here. The names of the co-authors are reported in the abstract book.

Aus Gründen der Übersicht werden hier **nur die Namen der Vortragenden** und deren Affiliationen angeführt. Die Namen der Co-Autorenschaft sind dem Tagungsband zu entnehmen.

Per motivi di chiarezza, qui sono elencati **solo i nomi dei relatori** e le loro affiliazioni. I nomi dei coautori sono riportati nel volume degli abstract.

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## Poster presentations

**Freitag / Venerdì 22.11.2024**

**Tagungsort / Luogo del convegno:**

Haus der Kultur / Casa della Cultura „Walther von der Vogelweide“,  
Schlernstr. / via Sciliar 1  
Bozen/Bolzano

**11:00 – 11:40**

**Poster flash-talks 1 – with Coffee break**

**16:10 – 16:40**

**Poster flash-talks 2 – with Coffee break**

*Session: Biodiversity: recording and monitoring (fungi, animals, plants incl. pollen)*

**Biodiversa+ Habitat Pilot: Finding a shared method for mapping and monitoring grasslands and wetlands using Remote Sensing data**

ALBIN BJÄRHALL; Institute for Alpine Environment, Eurac Research, Bozen (I)

**Diversity of stink bugs and their egg parasitoids in South Tyrol**

SARA BORTOLINI; Laimburg Research Centre, Vadena/Pfatten (I)

**Biodiversa+: a European Biodiversity Partnership for a transnational network of harmonized biodiversity monitoring schemes**

MICHELE BRESADOLA; Institute for Alpine Environment, Eurac Research, Bozen (I)

**Unraveling the biology of the invasive apricot aphid (*Myzus mumecola*)**

MARTA CHIGNOLA; Free University of Bozen-Bolzano (I)

**Remarkable bryophyte discoveries in the area of the “Alter See” natural monument in the Lienz Dolomites (East Tyrol, Austria)**

FELIX FALTNER; Revital Integrative Naturraumplanung GmbH, Nußdorf-Debant (Osttirol) (A)

**Species Distribution Modeling for Farmland Birds in South Tyrol Using Remote Sensing Data**

LENA JOSEPHINA JÄGER; Institute for Earth Observation, Eurac Research, Bozen (I)

**Monitoring invertebrates included in the Habitats Directive in South Tyrol: First results and future strategies**

AUDREY MARSY; Institute for Alpine Environment, Eurac Research, Bozen (I)

**A survey of larval parasitoids of *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae) in semi-natural habitats and ecotones in South Tyrol**

MARTINA MELCHIORI; Laimburg Research Centre, Vadena/Pfatten (I)

**DNA barcoding of minor fish fauna in South Tyrol**

MASSIMO MORPURGO; Museo di Scienze Naturali dell'Alto Adige, Bolzano (I)

**Orthopterological highlights from the Biodiversity Monitoring South Tyrol**

EMANUELE REPETTO; Institute for Alpine Environment, Eurac Research, Bozen (I)

**On the composition of the apple's Sooty Blotch's pathobiome**

FILIPPO REY; Free University of Bozen-Bolzano (I)

**Advancing biomonitoring through automated image and sound recognition: two European pilot studies**

JAREK SCANFERLA; Institute for Alpine Environment, Eurac Research, Bozen (I)

**South Tyrol's bat guardians: Citizen science for Barbastelle bat conservation in settlements**

HANNA STEIGLEDER; Institute for Alpine Environment, Eurac Research, Bozen (I)

**Samstag / Sabato 23.11.2024**

**Tagungsort / Luogo del convegno:**

Naturmuseum Südtirol / Museo di Scienze Naturali dell'Alto Adige  
Bindergasse/via Bottai 1,  
Bozen/Bolzano

**10:30 – 11:10**

***Poster flash-talks– with Coffee break***

***Session: Biodiversity & nature conservation***

**Morphological and DNA metabarcoding approaches to identify reliable metrics for the assessment of trout farming-related effects on biological water quality in Alpine rivers**

ANDREA CHEMELLO; Fondazione Edmund Mach, San Michele all'Adige (I)

***Session: Systematics & biogeography (taxonomy, phylogenetics & evolution)***

**Factors influencing intraspecific variation in wing morphology in high-elevation specialist birds**

FRANCESCO CERESA; Museo di Scienze Naturali dell'Alto Adige, Bolzano (I)

**A bibliometric analysis to discuss taxonomic bias in studies of Italian fauna**

EMANUELE MICCOLIS; University of Padua (I); University of Palermo (I)

**The freshwater jellyfish *Craspedacusta sowerbii* species complex (Cnidaria, Olindiidae) in Italy: distribution and genetic lineages**

MASSIMO MORPURGO; Museo di Scienze Naturali dell'Alto Adige, Bolzano (I)

**Tagungsort / Luogo del convegno:**

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Bozen/Bolzano

**10:30 – 11:10**

**Poster flash-talks– with Coffee break**

*Session: Ecology, environment & global change*

**High temperature thresholds for membranes, proteins, photosystem II, and whole leaf tissues in different mountain species**

CLARA BERTEL; Universität Innsbruck, Department of Botany (A)

**Alien species in Lake Garda**

CRISTINA CAPPELLETTI; Fondazione Edmund Mach, San Michele all'Adige (I)

**Trait space occupancy of ants, butterflies, carabid beetles, grasshoppers and vascular plants along elevation in Val Mazia - Matschertal**

VERONIKA FONTANA; Institute for Alpine Environment, Eurac Research, Bozen (I)

**Is better living upward or downward? Spatial segregation of water shrews *Neomys fodiens* and *Neomys milleri* in South Tyrol**

EVA LADURNER; Naturmuseum Südtirol, Bozen (I)

**Research on CLIMATE and ECOLOGY at the MUSE – Science Museum of Trento**

VALERIA LENCIONI; MUSE – Museo delle Scienze, Trento (I)

**The new MUSE biotope: ecological survey for the study of aquatic biodiversity**

FRANCESCA PAOLI; MUSE – Museo delle Scienze, Trento (I)

**Impact of land-use intensity on spider communities: A study on the taxonomic resolution effect**

JULIA PLUNGER; Institute for Alpine Environment, Eurac Research, Bozen (I)

**Do dissolved heavy metals enter the food webs of Alpine streams?**

MONICA TOLOTTI; Fondazione Edmund Mach, San Michele all'Adige (I)

**Effects of global warming on the alpine vegetation of four peaks in the Texel Group, South Tyrol, as part of the GLORIA project**

FRIEDERIKE WESTRICH; Department of Botany, University of Innsbruck (A)

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**Only the first authors** and their affiliations are listed here, the co-authors are reported in the abstract book.

Hier sind **nur die Erstautor\*innen** mit deren Affiliationen angeführt, die Co-Autorenschaft ist dem Tagungsband zu entnehmen.

Qui sono **elencati solo i primi autori** e le loro affiliazioni; i nomi dei coautori sono riportati nel volume degli abstract.

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