

# POPPIO 2018

## Programme

### Wednesday 2 May

18:00- 21:00	<b>Registration</b>
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### Thursday 3 May

08:00	<b>Registration</b>
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09:00	<b>Welcome</b>	Ilse Kranner (Head of the Department of Botany, Univ. Innsbruck) Niek Scheepens (Speaker of the Working Group POPPIO/GfOe) Announcements by the organizers
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09:15- 12:30	<b>Session 1: Seeds, germination, seedling recruitment, seed dispersal</b>
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09:15	<b>Keynote</b> Bente Graae	<b>Windows of opportunity for seedling recruitment in alpine ecosystems</b>
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	<b>Session chair</b>	<b>Katja Tielbörger (University of Tübingen)</b>
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10:00	Vera Margreiter	Germination and survival of alpine species along an altitudinal gradient in the Central Alps
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10:15	Francesco Porro	Germination responses across <i>Saxifraga</i> species suggest different patterns in western and eastern Alps
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10:30	<b>Coffee break</b>
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11:00	Jakob Huber	Effects of moss cover on seedling emergence and establishment of vascular plants in calcareous grassland
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11:15	Sergey Rosbakh	Is it the right place for me? Seed germination requirements explain wetland species distribution at local scale
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11:30	Barbora Lepková	Seed germination after digestion by herbivores
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11:45	Marie Konečná	The evidence for ant hills as diversity enrichment in a sea of temperate pasture
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12:00	Jaroslav Burczyk	Estimating seed and pollen dispersal kernels based on naturally established seedlings of <i>Sorbus torminalis</i> (L.) Crantz
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12:15	Efrat Dener	Dispersal in fragmented habitats
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12:30	<b>Lunch</b>
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14:00- 18:00	<b>Session 2: Global change biology</b>
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14:00	<b>Keynote</b> Sonja Wipf	<b>Alpine plants in a warming climate – from traits to communities</b>
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	<b>Session chair</b>	<b>Camilla Wellstein (Free University of Bozen-Bolzano)</b>
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14:45	Claudia Bergero	Long-term population dynamics of two high-elevation plant species based on photographs of permanent plots on the GLORIA-Mastersite Mt. Schrankogel
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15:00	Rita Tonin	Intraspecific functional trait response to advanced snowmelt suggests increase of growth potential but decrease of seed production in snowbed plants
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15:15	Pierre Liancourt	Mechanistic controls of plant temperature decoupling from a trait perspective at the edge of vascular plant life
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15:30	<b>Coffee break and POSTER SESSION A (posters with even numbers)</b>
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17:00	Maximiliane M. Herberich	Temporal storage effect promotes coexistence of plant functional type across the full range of soil water availability
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17:15	Mialy Razanajatov	Plastic responses in floral traits and in the breeding system of <i>Mimulus guttatus</i> under experimental temperature changes
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17:30	Solveig F. Bucher	Winter is coming: Trade-offs in growth and resistance traits in herbaceous plant species along elevational gradients
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17:45	Franziska M. Willems	Effects of forest management on the phenology of early-flowering understory herbs
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18:00	<b>Enjoy the evening in Innsbruck</b>
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## Friday 4 May

09:00-12:30	<b>Session 3a: Evolutionary ecology, (epi)genetics and (epi)genomics of adaptation</b>	
09:00	<b>Keynote</b> Yvonne Willi	<b>Geographic range limits and mutational load</b>
	<b>Session chair</b>	<b>Bernhard Schmid (University of Zürich)</b>
09:45	Tobias M. Sandner	Is fluctuating asymmetry a reliable indicator of stress in plants?
10:00	Christian Sailer	Adaptation of outbreeding <i>Arabidopsis</i> spp. to high soil concentrations of trace metal elements
10:15	Filip Kolář	Parallel origin of alpine ecotypes in wild <i>Arabidopsis</i> populations
10:30	<b>Coffee break</b>	
11:00	Marc Stift	Relatively low inbreeding depression in North American <i>Arabidopsis lyrata</i>
11:15	Patrick Meirmans	Estimating migration using genetics: How far have we come?
11:30	Joanna Warmbier	Landscape genomics reveal signatures of local adaptation to climate and resistance to <i>Hymenoscyphus fraxineus</i> in common ash ( <i>Fraxinus excelsior</i> L.)
11:45	Marie Kristine Brandrud	RAD-seq as a genome-wide approach to understand allopolyploid evolution in <i>Dactylorhiza</i> (Orchidaceae)
12:00	Flavia Domizia Nardi	Sexual intraspecific recombination but not de novo origin governs the genesis of new apomictic genotypes in <i>Potentilla puberula</i> (Rosaceae)
12:15	Zuzana Münzbergová	Potential for rapid evolution in a clonal grass under changing climate
12:30	<b>Lunch</b>	
14:00-18:00	<b>Session 4: Interactions: competition, facilitation, allelopathy</b>	
14:00	<b>Keynote</b> Ragan M. Callaway	<b>Studying plant interactions for fundamental insights into the natural world</b>
	<b>Session chair</b>	<b>Harald Auge (Helmholtz-Centre for Environmental Research, Halle)</b>
14:45	Alena Bartušková	Species identity is stronger determinant of plant trait variability than management, year or season in wet meadow
15:00	Anubhav Mohiley	The role of biotic interactions in metal hyperaccumulation in plants
15:15	Jan Lepš	Competition among functional groups stabilizes a grassland community by increasing asynchrony
15:30	<b>Coffee break and POSTER SESSION B (posters with uneven numbers)</b>	
17:00	Agnes Dellinger	Beyond pollination syndromes: disentangling complex vertebrate pollination systems in the genus <i>Meriania</i> (Melastomataceae)
17:15	Gilad Ben Zvi	Reduction in dispersal effectiveness at range margin's populations of <i>Sternbergia clusiana</i> is caused by scarcity of effective disperser
17:30	Oliver Bossdorf	An endophytic fungus affects the growth and environmental tolerance of invasive knotweed
17:45	Sigrid Neuhauser	Plasmodiophorids are abundant in pioneer plants at succession sites
19:00	<b>Conference dinner</b>	

## Saturday 5 May

09:00-10:30	<b>Session 5: Biological invasions</b>	
09:00	<b>Keynote</b> Anna Traveset	How novel interactions with alien species are modifying the structure of native mutualistic networks. Examples from different archipelagos
	<b>Session Chair</b>	<b>Konrad Pagitz (University of Innsbruck)</b>
09:45	Marco R. Brendel	Residence time will tell: temporal dynamics of invader performance revealed by abiotic and biotic dissimilarity
10:00	Maciej Wódkiewicz	Many have failed – may one prevail? Invasion history and specific traits enabling the persistence of <i>Poa annua</i> in the Antarctic
10:15	Anna Florianová	Impact of invasive <i>Impatiens parviflora</i> on native vegetation and factors affecting its spread
10:30	<b>Coffee break</b>	
11:00-12:00	<b>Session 3b: Evolutionary ecology, (epi)genetics and (epi)genomics of adaptation</b>	
	<b>Session chair</b>	<b>Bernhard Schmid (University of Zürich)</b>
11:00	Camilla Wellstein	Cold extrazonal microrefugia in ice-holes harbor a unique genome differentiated from zonal subalpine populations in <i>Vaccinium vitis-idaea</i>
11:15	Bartosz Ulaszewski	Genome-environment associations and spatial genetic structure of European beech ( <i>Fagus sylvatica</i> L.) populations based on ddRAD analysis
11:30	Oyundelger Khurelpurev	Population genetics of <i>Stipa glareosa</i> (Poaceae) along gradients of climate and land use in Mongolia
11:45	Peter Schönswetter	More than an appendix – populations of inner-Alpine steppe species are more divergent (and conservation relevant!) than anticipated
12:00	<b>Farewell, prizes, next meeting announcement</b>	
13:00-18:00	<b>Excursion</b>	
18:00	<b>Arrival in Innsbruck</b>	

# Posters

<b>Seeds, germination, seedling recruitment, seed dispersal</b>		<b>Poster ID</b>
Si-Chong Chen et al.	Seed dispersal trade-offs between ballistic and myrmecochorus phases of diplochory	4
Tomáš Dostálek et al.	Effect of seed herbivore damage on population dynamics of endemic plant species during vegetation succession	9
Finn Rehling et al.	Integrating plant-frugivore interactions into integral projection models	27
Elżbieta Sandurska et al.	Patterns of seed and pollen dispersal explain the spatial genetic structure of naturally established seedlings in three broad-leaved tree species	29
Eva Švambergová et al.	The legacy of initial sowing after 20 years long colonisation of ex-arable land	35

<b>Global change biology</b>		<b>Poster ID</b>
Nicola Alessi et al.	Ancient refugia and present-day habitat suitability of Italian broadleaved evergreen relics of the extinct laurel biome	1
Daniela Festi et al.	CALICE: Calibrating Plant Biodiversity in Glacier Ice	10
Stefanie S. Höckendorff et al.	Drivers of long-term population dynamics of plant species along the shore of Lake Constance	16
Jana Knappová & Zuzana Münzbergová	Identity of dominant species affects species richness and species composition of experimental dry grassland communities	17
Nicola Lechner & Katja Tielbörger	Drought impacts on herbaceous plants - separating resistance and resilience mechanisms	22
Lena Nicklas et al.	Alpine biodiversity in Central and South Alps - Quo vadis?	25
Shengman Lyu et al.	Nitrogen fertilization leads to trait divergence and convergence in Tibetan alpine meadows	23
Thomas C. Wagner et al.	Busting the myth: the decline of alpine river plants and the role of habitat availability	37

<b>Evolutionary ecology, (epi)genetics and (epi)genomics of adaptation</b>		<b>Poster ID</b>
Henar Alonso-Marcos et al.	Pollen precedence in sexual <i>Potentilla puberula</i> Krašán and its role as a protective reproductive barrier against apomictic cytotypes	2
Igor Chybicki et al.	Genetic evidence of early biparental inbreeding depression in a dioecious tree <i>Taxus baccata</i>	5
Laura Daco et al.	Molecular genetic variation of <i>Anthyllis vulneraria</i> along altitudinal and latitudinal gradients	7
Christoph Dobeš et al.	The role of reproductive interactions for co-occurrence of sexual and apomictic conspecific cytotypes – a case study on <i>Potentilla puberula</i> Krašán	8
Dario Galanti et al.	Structure, stability and ecological significance of natural epigenetic variation in European <i>Thlaspi arvense</i> populations	11
Bence Gaspar et al.	Trade-offs between growth strategies in managed grasslands: within-species variation in <i>Plantago lanceolata</i>	12
Tomáš Herben & Jitka Klimešová	Morphological constraints in the evolution of clonality	15
Veronika Konečná et al.	Parallel alpine differentiation of <i>Primula elatior</i> in central European mountains	20
Maria Majekova et al.	Are plants in stressful conditions less symmetric? A multi-species approach	24
Renáta Schnablová et al.	Bud preformation of perennial plants in relationship to plant growth phenology	31
Kristýna Šemberová et al.	When two look the same they are not: parallel morphological evolution at phylogenetically and spatially unrelated harebells	32
Martin Weiser et al.	Same size, different outlooks: allometries in herbs and saplings	38
Walter Durka et al.	Hotspots of genetic diversity due to rare sexual reproduction in a dioecious clonal invasive macrophyte species	40

<b>Interactions: competition, facilitation, allelopathy</b>		<b>Poster ID</b>
Stefan Ciaghi et al.	Transcriptomic response in symptomless roots of clubroot infected kohlrabi mirrors resistant plants	6
Hannah Gelaudie et al.	Herbivory induces clonal foraging for nutrient in plants	13
Michal Gruntman et al.	Know thy enemy: shade-avoidance responses and plants' competitive environments	14
Pavčina Knobová & Martin Weiser	Chasing nutrients hotspots belowground: roots and mycorrhizal hyphae	18
Eliška Kutáková et al.	Can plant-soil feedbacks affect second generation of plants? Patterns and mechanisms in two soil types	21
Hanna A. Nomoto	Ecological responses to increased temperatures and novel competitors in alpine plants	26
Maan Rokaya et al.	Trait variations and plant herbivore in <i>Impatiens</i> species	28
Marina Semchenko	The effects of plant genotypic diversity on root exudate production and litter decomposition	33
Susanna Vain et al.	Competition in different <i>Arabidopsis thaliana</i> ecotypes – different patterns in resource capture and resource allocation	36

<b>Biological invasions</b>		<b>Poster ID</b>
Maude E.A. Baudraz et al.	Does climatic niche drive plant traits and demographic processes?	3
Johannes Kollmann et al.	A population approach to restoration - choosing plant species and traits for phytometer	19
Christine S. Sheppard	Performance of, and interactions among, multiple co-occurring plant invaders	34
Mirjam Schipflinger & Konrad Pagitz	Invasive neophytes and their impact on diversity and composition of North Tyrolean flora	30
Zhijie Zhang & Marc van Kleunen	Differences in competitive ability between alien and native, and between common and rare plant species	39

Posters with even ID are presented in POSTER SESSION A (Thursday), posters with uneven ID in POSTER SESSION B (Friday)