

iDiv Annual Conference 2022

Day 1 – Monday, 25 April 2022

The iDiv Annual
Conference 2022
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09:00	Welcome by the conference chairs Martina Herrmann, Omer Nevo, Marten Winter		
09:15	Keynote Lecture Claire Fortunel Functional trait differences and the mechanisms structuring diverse communities		
10:00	<i>Coffee Break</i>		
	The evolution of biotic interactions and ecosystem functioning (Chair: Andrea Galman)	The iDiv Barcoding Initiative – part I (iBarc) (Chair: Martin Schlegel)	Frontiers in Methods in Biodiversity Change (Chairs: Juan Carvajal, Daniel Hoss)
10:15	Martha Paola Barajas Barbosa Long-distance and inter-island dispersal drive functional divergence of an oceanic island flora	Luis Daniel Prada-Salcedo Effects of tree composition and soil depth on structure and functionality of belowground microbial communities in temperate European forests	Christine Beemelmanns Chemical communication mechanisms in symbiotic interactions
10:30	Andressa Cabral The pantropical co-variation of frugivore and plant fruit trait syndromes	Theresa Joger-Hickfang Metabarcoding relates biodiversity and land use changes in the Peneda-Gers National Park	Jingyi LI A size-constrained foraging model predicts contrasting foraging patterns in aquatic and terrestrial food webs
10:45	Lucille Chrtien Geographical patterns in seedling metabolome and defence against herbivory	Lisa Hahn Optimization of molecular methods to study beetle diversity in the Leipzig floodplain forest	Benjamin Dechant Intercomparing global foliar trait maps: upscaling approaches and spatial patterns
11:00	Andra Davrinche Large within-tree leaf trait variation: responses to local species richness and soil nutrient availability.	Robert Paxton DNA barcoding and metabarcoding bees at MLU	Dorian NothaaB Modelling species invasion using a metapopulation model with variable mortality and stochastic birth-death processes
11:15	Perttu Anttonen Effects of tree richness, structural variation and leaf traits on herbivory and predation in different local scales in a subtropical BEF experiment	Tesfaye Wubet Individual vs. combined effects of novel insecticides flupyradifurone and sulfoxaflor with the fungicide azoxystrobin on the health and gut microbiota of honey bees	Karin Mora Macroecological dynamics from crowd-sourced plant occurrence data via Flora Incognita
11:30	Axel Touw Mixed responses – how microbes modulate defense responses against root herbivores	Birgit Gemeinholzer Metacoding of plants – Ingenious possibilities with pitfalls	Lonard El-Hokayem Identifying threatened groundwater dependent ecosystems as local biodiversity hotspots in Saxony-Anhalt and globally via remote sensing
12:00	<i>Lunch Break</i>		
	Biodiversity and Ecosystem Functioning (Chairs: Malte Jochum, Sylvia Haider)	Biodiversity and ecosystem services scenarios in the context of climate and land-use change (Chair: Carlos Guerra)	Biodiversity Change (Chairs: Roel van Klink, Kimberly Thompson)
12:45	Vernika Ceballos Nnez Plant traits and Biodiversity Ecosystem Functioning	Carlos Guerra Global hotspots for soil nature conservation	Stephanie Jurburg Disturbance and recovery: a synthesis of microbial community reassembly following disturbance across realms
13:00	Malte Jochum EcoStressWeb – Investigating joint impacts of climate and biodiversity change on multitrophic interactions and ecosystem functioning	Rmy Beugnon Vegetation diversity buffers macroclimate fluctuations and extremes	Roel van Klink Global changes in insect biodiversity?
13:15	Nico Eisenhauer Biotic Interactions as Mediators of Context-Dependent Biodiversity-Ecosystem Functioning Relationships	Samuel Kwakye Analysis of insect concentrations using radars: Weather radar echoes classification	Lina Luttgert Repeated habitat mapping data reveal gains and losses of plant species
13:30	Wentao Yu The effect of pairwise tree-tree interactions on forest ecosystem functioning	Marie Sunnemann Drivers of soil multifunctionality in terrestrial ecosystems	Shane Blowes Integrating biodiversity change across scales reveals the prevalence of homogenisation
13:45	Beate Michalzik Triple-funneling of trees? Intra-canopy preferential flow of water and elements induced by tree canopies	Franziska Taubert Impact of management, environment and climate change on productivity and the proportion of herbs in grasslands: a simulation study across Germany	Jordis Terlau A trait-based approach to thermal niches: linking movement and metabolism to predict thermal tolerances of terrestrial invertebrates
14:00	Thomas Hornick Dinner is served! – Exploring the nutritional value of diverse pollen for soil foodwebs	Qicheng Bei Metagenomic analysis of soil microbiomes responses to climate and land use change during the summers 2014–2019	Chris Barratt Life on the edge: assessing intraspecific vulnerability to global change by integrating environmental, ecological and molecular data
14:15	<i>Coffee Break</i>		
14:30	Poster Sessions 60'		
15:30	<i>Coffee Break</i>		
	Interactive Sessions		
15:45	The iDiv Barcoding Initiative – part II – discussion (iBarc) (Chairs: Martin Schlegel, Martina Herrmann, Nicole van Dam) <i>Speakers:</i> Jule Freudenthal: Deep molecular characterization of eukaryotic microorganism diversity and community composition in the canopy region using a metatranscriptomics approach (micDiv II) Kenneth Dumack: From the taxonomic assignment via metabarcoding to the exploration of functioning, Stephanie Jurburg: CoMiDa: a community microbiome database	R Game (Chairs: Diana Bowler, Corey Callaghan) <i>Speakers:</i> Jens Kattge: The 'rtry' R package for preprocessing plant trait data Oskar Hagen: R package gen3sis Corey Callaghan: Creating html plots in R Matthias Greni: (targets) the R workflow engine to help your analyses be reproducible Steffen Ehrmann: Using checkmate to set bugs checkmate Guillaume Patoine: R package purrr Minghua Shen: Litsearchr Alban Sagouis: Renv Diana Bowler: inlabru	Interactive lecture for diversity and inclusion (Chair: Judith Rakowski) CHANGE OF PROGRAMME The session Priority Biodiversity Change Drivers for iDiv will take place on 26 April at 16:00
19:00	Social Event – Science Slam		

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Day 2 – Tuesday, 26 April 2022

09:15	Keynote talk Zeynaur Khan Exploiting plant and insect biodiversity for developing sustainable crop protection strategies for Africa and beyond		
10:00	Coffee Break		
	Complexity (Chairs: Renske Onstein, Saneesh Cherapurath Soman, Demetra Rakosy)	Molecular Biodiversity and Adaptation (Chairs: Luis Daniel Prada-Salcedo, Stefanie Döll)	Complex mechanisms in a complex world (Chairs: Sreetama Bhadra, Paola Barajas)
10:15	Ulrich Brose Biotic filtering by species' interactions constrains food-web variability across spatial and abiotic gradients	Jana Ebersbach Macroevolutionary patterns of chemodiversity across the seed plant tree of life	Till J. Deilmann Habitat matters: Patterns in phenology and functional traits of herbaceous plant species from Botanical Gardens and natural habitats
10:30	Adriana Alzate Understanding the relationship between dispersal and range size	Kaitlyn Blatt-Janmaat An eco-metabonomic investigation of <i>Radula complanata</i> populations from Germany, Sweden, and Canada	Taylor Dotson Biodiversity Democracy? Populism, Technocracy, and the Problem of Expertise
10:45	Alexandra Werner Multiple specialised fisheries in food web networks: how do they influence each other?	Jennifer Gabriel The effect of intraspecific chemical diversity on plant performance and plant-herbivore-microbe interactions in White clover	Saneesh Cherapurath Soman Removal of a dominant C4 Genus and fire increases palatable grass in Mesic-savanna grasslands.
11:00	Friederike Wölke Neutral and adaptive processes in the distribution and evolution of angiosperm fruit sizes	Alexandra Weyrich Wildlife Epigenetics	Pablo Castro Sánchez-Bermejo Tree phenotypic integration promotes intra-individual trait variation in a subtropical forest
11:15	Hendrik Müller Reproductive diversity and the evolution of terrestrial-lisation in amphibians	Kristian Peters iESTIMATE chemical traits in plants	Leonardo Bassi Increase in above- and below-ground defence traits reduces monoculture yield decline.
11:30	Samuel Fischer Connecting individual-based models with empirical data to study the emergence of species-rich forests	Laura Méndez Cuéllar Genetic signatures of megafauna extinctions on palms with big fruits in Madagascar	Jose Valdez Spider-slugs, super-glued frogs, and vertebrate-eating insects: the overlooked world around us
12:00	Lunch Break		
	Drivers of Global Biodiversity Change (Chair: Carsten Meyer)	Biodiversity & Society (Chairs: Andrea Perino, Miguel Fernandez)	Patterns & Drivers in the Anthropocene (Chairs: HyeJin Kim, Alexandra Werner)
12:45	Josiane Segar Eutrophication-dependent roles of herbivory in European forests: faunal catalyst of N time bomb or conservation actor?	Victor Cazalis Using models to prioritise reassessment of Data Deficient species	Matthias Grenié A barrier to global plant invasion ecology: gaps in trait availability for alien species
13:00	Caterina Barrasso A global assessment of data uncertainties in available land-use and land-cover time-series	Kevin Rozario The more the merrier?! The role of forest biodiversity on mental health and well-being. An experimental, multicentric field study.	Florian Schnabel Impacts of the 2018–2019 drought: cumulative tree growth and stress responses around Leipzig
13:15	Steffen Ehrmann The LUCKINet land-use time-series (LUTS)	Veronika Liebelt Hedonic analysis of biodiverse urban green: a survey-based cased study of 22 German cities	Rico Fischer Accelerated forest fragmentation leads to critical increase in tropical forest edge area
13:30	Maximilian Lange Mapping land-use intensity of grasslands in Germany with machine learning and Sentinel-2 time series	Anna Holzner Wildlife on the edge: Effects of oil palm agriculture on forest-dependent primates in Malaysia	Guillaume Patoine Drivers and trends of global soil microbial carbon over two decades
13:45	Ana Carolina Antunes Global environmental drivers of abundance-mass scaling across belowground invertebrate communities	Isha Dube Love of Variety and the Long-Term Welfare Effects of Trade in Open-access Renewable Resources	Andrea Cortegoso Galmán Darwin's Naturalization Conundrum rEvisited (DANCE)
14:00	Diego Brizuela Torres Deforestation dynamics in relation to socio-economic explanatory factors across the Amazon biome, 1990–2020	Hanna Schenk The economics of evolutionary overexploitation	Sonja Knapp What drives the establishment of plant species within urban environments? Interactions of functional traits with native status and ecosystem novelty
14:15	Coffee Break		
14:30 60'	Poster Sessions		
15:30 30'	Plenary: Award Ceremony		
	Interactive Sessions		
16:00	Priority Biodiversity Change Drivers for iDiv – World Café – Integrating perspectives on change drivers of question-oriented data users and data-oriented producers (Hosted by the Macroecology and Society Group)	Crash course high-level policy – How to navigate the world of “distinguished delegates” (Chair: Andrea Perino)	The future of biodiversity monitoring in Europe (Chair: Jessi Junker)
	Child and Nature CANCELLED (Chair: Katja Liebal) Speakers: Daniel Haun: Minding the origins of human behavior Karri Neldner: Studying children's attitudes towards humans and non-human animals Katja Liebal: Cultural diversity of children's attitudes towards animals		

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