



**BioDivEvo
2014
March 24-27, Dresden**

**15th Annual Meeting of the
Society of Biological Systematics (GfBS)**

**22nd International Symposium
“Biodiversity and Evolutionary Biology”
of the German Botanical Society (DBG)**



Monday, March 24, 2014

open from 16:00	Conference Office	Meeting GfBS Board / GfBS-Vorstand Zellescher Weg 20b, Biologie-Gebäude Raum E33 https://navigator.tu-dresden.de/karten/dresden/geb/bio
Mon. 18:00	Welcome Reception “Alte Mensa” Mommsenstrasse 13, TU Dresden https://navigator.tu-dresden.de/karten/dresden/geb/m13	

Tuesday, March 25, 2014

Venue: Trefftz-Bau, Haus A, Zellescher Weg 16, 01069 Dresden

<https://navigator.tu-dresden.de/karten/dresden/geb/tre>

open from 08:00	Conference Office	
Tue. 09:00 – 09:30	Welcome Address, Dean Prof. Bernhard Ganter, Prof. Uwe Fritz (GfBS), Prof. Christoph Neinhuis (DBG)	
Tue. 09:30 – 10:30	Plenary Talk - Ethnobotany Monique Simmonds, Kew Innovation Unit, Sustainable Uses of Plants Group, Royal Botanic Gardens Kew, Richmond, UK	
Tue. 10:30 – 11:00	Coffee Break	

Tuesday, March 25, 2014	Botany Sessions Biogeography & Molecular Clocks	Zoology Sessions & GfBS Workshop Integrative Taxonomy, Phylogenetics & Systematics (Zoology I)
Tue. 11:00 – 11:30	Key Note, B. Goffinet, Dawn in Bryophyte Genomics: mt Genome Evolution and Phylogenomics of Bryophytes	Key Note, J. W. Wägele; Deep Metazoan Phylogeny: Progress, Doubts, and Mysteries
Tue. 11:30 – 11:45		Haszprunar, Spies; Naming the crown-of-thorns-sea star species in the <i>Acanthaster planci</i> complex
Tue. 11:45 – 12:00	Will, Claßen-Bockhoff; Natural groups in an artificial genus-parallel evolution in <i>Salvia</i> s. l. (Lamiaceae)	Eulitz, Klass, Bohn, Nehring; Sister where are you? The phylogenetic position of the genus <i>Attaphila</i> Wheeler, 1900 (Dictyoptera, Blattodea)
Tue. 12:00 – 12:15	Gebauer, Röser, Hoffmann; Molecular phylogeny of the species-rich <i>Carex</i> L. sect. <i>Racemosae</i> G. Don (Cyperaceae)	Gaviria, Defaye; Comments on the morphology of a new genus of Parastenocarididae (Crustacea: Copepoda: Harpacticoida) and its phylogenetic relationships
Tue. 12:15 – 12:30	Liede-Schumann, Hartmann; Phylogeny of <i>Drosanthemum</i> – a diverse genus of core Ruschioideae (Aizoaceae)	von Döhren; Systematics and Evolution of Nemertea
Tue. 12:30 – 14:00	Lunch	
	Meeting, DBG Section “Biodiversity and Evolutionary Biology” Venue: Biologie, Raum E33, EG, Zellescher Weg 20b, https://navigator.tu-dresden.de/karten/dresden/geb/bio	
Tue. 14:00 – 14:15	Schneider, Hoffmann, Blaner, Winterfeld, Röser; Molecular phylogenetics meets morphology: New insights into classification of the grass subfamily Pooideae (Poaceae)	Curator’s workshop - open to everyone “Access and Benefit Sharing and other legal aspects of material transfer” (GfBS), 2 h Giery; Legal aspects of international specimen transfer – introduction and species protection, Löhne; Access & Benefit Sharing: The concept, its implementation and its relevance for research and collections management Neumann; Bon Voyage ? International exchange of scientific material- legal hurdles and other obstacles Discussion
Tue. 14:15 – 14:30	Veleba, Bureš, Adamec, Šmarda, Lipnerová, Horová; Genome size and genomic GC content evolution in the miniature genome – sized family Lentibulariaceae	
Tue. 14:30 – 14:45	Hartmann, Rosche, Hensen, Mráz, Schaar, Hochheimer, Lachmuth; Variation in Inbreeding Depression between Geocytotypes of highly invasive <i>Centaurea stoebe</i> s. L.	
Tue. 14:45 – 15:00	Ritz, Herklotz; Spontaneous hybrid formation in dogroses: implications for the evolutionary dynamics in a polyploid species complex and its morphology based taxonomy	
Tue. 15:00 – 15:15	Kadereit, Klein; Parallel homoploid and polyploid hybrid speciation in <i>Sempervivum tectorum</i> x <i>S. calcaureum</i> (Crassulaceae)	
Tue. 15:15 – 15:30	Scheriau, Nürk, Koch; Melting gene pools in the <i>Hypericum perforatum</i> complex	
Tue. 15:30 – 15:45	Hodac, Scheben, Hojsgaard, Paun, Hörandl; ITS polymorphisms shed light on hybrid evolution in apomictic plants: a case study from the <i>Ranunculus auricomus</i> complex	
Tue. 15:45 – 16:00	Schneeweiss, Schönswetter; The role of ecogeographic isolation in the diversification of alpine <i>Androsace</i> (Primulaceae)	
Tue. 16:00 – 16:30	Coffee Break	

Tuesday, March 25, 2014		Session Phylogenomics I
Tue. 16:30 – 16:45	Gramlich, Cosendai, Flatscher, Hörandl; Population genetic structure in alpine willow hybrids (<i>Salix</i> , Salicaceae)	Key Note, Lemmon; Anchored Phylogenomics: Rapidly Expanding Across the Tree of Life
Tue. 16:45 – 17:00	N. Wagner, Wöhrmann, Schubert, Weising; Species boundaries in the <i>Fosterella micrantha</i> group (Bromeliaceae)	
Tue. 17:00 – 17:15	Schubert, Wagner, Wöhrmann, Weising; A first four-locus plastid phylogeny of <i>Pitcairnia</i> (Bromeliaceae)	Key Note, Niehuis; Phylogenomics sheds new Light on the Evolutionary History of Insects – Results from the International 1KITE Project
Tue. 17:15 – 17:30	Gemeinholzer, Gross, Wissemann, Martens; Flower color evolution within the Cichorieae (Asteraceae) – the Flavonoid-3'5'-Hydroxylase	
Tue. 17:30 – 17:45	Schütz, Quandt, Nebel; Systematics of Pelliaceae (Marchantiophyta, Jungermanniopsida) and the new genus <i>Apopellia</i> stat. nov.	Weigert, Purschke, Halanych, Struck, Bleidorn; Illuminating the base of the annelid tree using transcriptomics
Tue. 17:45 – 18:00	Großmann, Bock, Schweikert, Boenigk; Small but manifold – hidden diversity in the heterotrophic golden alga <i>Spumella</i>	Gerth, Gansauge, Weigert, Bleidorn; Phylogenomic analyses of <i>Wolbachia</i> Supergroup relationships
Tue. 18:00 – 18:15	<i>Poster Session</i>	Simon, Sagasser, Brugler, Hadrys, DeSalle, The embryonic transcriptome of the damselfly <i>Ischnura elegans</i> and it's impact for comparative insect genomics
Tue. 18:15 – 20:00		Meeting Young Scientist (GfBS)
Tue. 20:00	Conference Dinner Bernhard-Rensch-Award (GfBS), the award winner is Dr. Alexander Blanke, Laudatio (Prof. Dr. Bernhard Misof) & Short Presentation (Dr. A. Blanke) Venue: "Alte Mensa" Mommsenstrasse 13, TU Dresden https://navigator.tu-dresden.de/karten/dresden/geb/m13	

Wednesday, March 26, 2014

Venue: Trefftz-Bau, Haus A, Zellescher Weg 16, 01069 Dresden

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	Session Plant Form & Function	Session Morphology, Development & Evolution (Zoology)
Wed. 09:00 – 09:30	Key Note: K. Niklas; A Biophysical Perspective on Evolutionary Developmental Biology.	Key Note, A. Hejnl; The Mouth, the Anus and the Blastopore: Open Questions About Questionable Openings
Wed. 09:30 – 09:45	Jerominek, Claßen-Bockhoff; Insights into the inside – Anatomical studies of the explosive style movement in Marantaceae	Key Note, A. Gruhl; Evolutionary Developmental Biology of Myxozoa
Wed. 09:45 – 10:00	S. Wagner, Isnard, Rowe, Wanke, Neinhuis ; Growth form shifts in the genus <i>Aristolochia</i>	
Wed. 10:00 – 10:15	Bull-Hereñu, Ronse de Craene, Pérez; The enigmatic development of the androecium of <i>Eucryphia</i> Cav. (Cunoniaceae)	Wanninger, Scherholz, Redl, Todt, Wollesen; Molluscan evodevo: ancestral states and phylogenetic implications
Wed. 10:15 – 10:30	Schüßler, Freitag, Kadereit; Evolution of C4 photosynthesis and diversity of C4 and C3 leaf anatomy in Salsoleae s.s. (Chenopodiaceae / Amaranthaceae)	H. Wägele, Schmitt, Martin, Gregor; Longevity of plastids in sacoglossan sea slugs – what counts in this unique association?
Wed. 10:30 – 10:45	Coffee Break	
Wed. 11:00 – 11:15	Key Note: S. Gorb; Contact Mechanics at the Insect-Plant Interface: How do Insects Stick and How do Plants Prevent This?	Martin, Mayer; Oral innervation in a velvet worm provides insights into the evolution of the ecdysozoan brain
Wed. 11:15 – 11:30		de Sena Oliveira, Lüter, Wolf, Mayer; On the evolutionary changes in the integument of the onychophoran <i>Plicatoperipatus jamaicensis</i> (Peripatidae)
Wed. 11:30 – 11:45	Frenzke, Samain, Symmank, Goetghebeur , Neinhuis, Wanke; Evolution of fruit structures correlates with species richness and transition to epiphytism in <i>Peperomia</i>	Koch; Evolution of life habits in silverfish (Insecta, Zygentoma)
Wed. 11:45 – 12:00	Erbar; The nectary diversity in Brassicaceae: phylogenetic trends	Vegliante, Nuss; Functional morphology of the genitalia of <i>Anania hortulata</i> (Lepidoptera: Crambidae).
Wed. 12:00 – 12:15	Kempe, Lautenschläger, Neinhuis; Reorientation in tilted stems of papaya by differential growth	Tietze, Päckert; Coevolution of plumage pattern and migratory behaviour with range in swifts (Aves: Apodini)
Wed. 12:15 – 12:30	Ajani, Claßen-Bockhoff; Breeding system in andromonoecious <i>Dorema aucheri</i> Boiss. (Apiaceae – Apioideae), endemic to Iran	
Wed. 12:30 – 14:00	Lunch	

Wednesday, March 26, 2014		Session Integrative Taxonomy, Phylogenetics & Systematics (Zoology II)	
Wed. 14:00 – 14:15	Klein, Kadereit; Phylogeny, biogeography and evolution of edaphic association in the European oreophytes <i>Sempervivum</i> and <i>Jovibarba</i> (Crassulaceae)	Key Note, G. Sangster; Integrative Taxonomy and the Nature of Species	
Wed. 14:15 – 14:30	Kondraskov, Schütz, Thiv; Macaronesian island biogeography: inter- and intra- archipelago relationships of laurel forests		
Wed. 14:30 – 14:45	Masson, Lauterbach, G. Kadereit; Following the track of aridification – biogeography and adaptation to drought in <i>Anabasis</i> L. (Chenopodiaceae)	Franke, Schumann, Mayer; Phylogeny and expression of Pax genes in the onychophoran <i>Euperipatoides rowelli</i>	
Wed. 14:45 – 15:00	Tkach, Röser, Hoffmann; Phylogeny and biogeography of the highly diverse genus <i>Pedicularis</i> (Orobanchaceae)	Baer, de Sena Oliveira, Mayer; Slime protein profiling: A non-invasive tool for species identification in Onychophora	
Wed. 15:00 – 15:15	Luebert, Moreira-Muñoz, Dillon; Contrasting two Neotropical radiations in the Asteraceae: <i>Plectocephalus</i> (Cynareae) and the <i>Lucilia</i> -group (Gnaphalieae)	Tippelt, Schwentner, Richter; New insights into spinicaudatan diversity (Crustacea: Branchiopoda) – identification and differentiation of several undescribed <i>Eocyclus</i> species	
Wed. 15:15 – 15:30	Ley, Dauby, Köhler, Wypior, Röser, Hardy; Comparative phylogeography of eight tropical herbs and lianas (Marantaceae) in central African rainforests	Mally, Korycinska, Agassiz, Hodgetts, Nuss; Discovery of a species complex in the <i>Leucinodes</i> genus group damaging Solanaceae fruits in Sub-Saharan Africa and moving in trade (Insecta: Lepidoptera)	
Wed. 15:30 – 15:45	Wölk, Röser; Polyploid evolution, intercontinental biogeographical relations and morphology of the newly described African oat genus <i>Trisetopsis</i> (Poaceae)	Päckert, Martens, Sun; Phylogeography and systematics of Himalayan and Chinese birds - multiple lines of evidence	
Wed. 15:45 – 16:00	Mráz, Barabas, Lengyelová, Turis, Schmotzer, Janišová, Ronikier; Pattern of vascular plant endemism in the Western Carpathians and its relation to geography, environmental factors and taxon traits	Ohl; Should we register and name all species on Earth, and if we should, how can we achieve it?	
Wed 16:00 – 16:30	Coffee Break		
Wed. 16:30 – 16:45	Dillenberger, Kadereit; Evolution of edaphic association in the European high mountain genus <i>Adenostyles</i> Cass.	<i>Poster Session & Coffee Break</i>	
Wed. 16:45 – 17:00	Hoffmann, Gebauer, Röser, Tkach; Evolution of the Arctic Flora		
Wed. 17:00 – 17:15	Appelhans, Jun Wen, W.L. Wagner; A molecular phylogeny and biogeographic analysis of the <i>Euodia</i> alliance (Rutaceae) reveals key innovations for species richness		
Wed. 17:15 – 17:30	Lehnert, Noben, Weigand, Krug, Quandt; Phylogeography of the tree fern genus <i>Sphaeropteris</i> (Cyatheaceae)		
Wed. 17:30 – 17:45	Bartha, Sramkó, Volkova, Surina, Ivanov, Banciu; Transylvanian basin: novel extra – Mediterranean refuge and source of diversity for the temperate herb <i>Erythronium dens-canis</i> (Liliaceae)		
Wed. 17:45 – 18:00	Möller, Huettel, Wöhrmann, Weising; Veni, vidi, vici: genetic bottlenecks and clonal propagation accompanied the introduction of <i>Vinca minor</i> L. (Apocynaceae) to Central Europe		
Wed. 18:00	Meeting of the members GfBS (Mitgliederversammlung) & Postersession		

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	Session Phylogenomics II	Session Integrative Taxonomy, Phylogenetics & Systematics (Zoology III)
Thu. 09:00 – 09:30	Key Note, J. Leebens-Mack, Resolving Ancient Genome Duplications Across the Angiosperm Phylogeny	Key Note, M. Raupach, Modern Integrative Taxonomy: New Methods, Techniques and Applications
Thu. 09:30 – 09:45		Kindler, Böhme, Corti, Gvoždík, Jablonski, Jandzik, Metallinou, Široký, Fritz; How many species of grass snakes are out there? Phylogeography, gene flow cross contact zones and taxonomy of <i>Natrix natrix</i>
Thu. 09:45 – 10:00	Albach, Mayland-Quellhorst; 454 sequencing of ITS1 in the analysis of polyploid species – Challenges, prospects and lessons	Strutzenberger, Päckert; DNA-barcode-assisted biodiversity assessment of passerine birds on the Qinghai-Tibetan Plateau
Thu. 10:00 – 10:15	Meudt, Mayland-Quellhorst, Albach; Insights into polyploid transcriptomics of non-model plants: An example in <i>Veronica</i> (Plantaginaceae)	
Thu. 10:15 – 10:30	Bernhardt, Willing, Schneeberger, Kilian, Blattner; Phylogenetic analysis of Hordeae (formerly Triticeae): sequence capture of 400 single – copy genes and Illumina sequencing	
Thu. 10:30 – 11:00	Coffee Break	
Thu. 11:00 – 11:15	Brassac, Blattner; Supermatrix or coalescent-based phylogenies? Analysis of next-generation sequenced multilocus data in <i>Hordeum</i> (Poaceae)	<p align="center">Workshop “Scientific literature” - open to everyone</p> <p>Dähne, Kasperek; All Literature on Biology Online!?</p> <p>Supply of literature for biodiversity research in transformation</p> <p>Discussion</p>
Thu. 11:15 – 11:30	Naumann, Salomo, Der, Wafula, Bolin, Maass, Samain, Neinhuis, dePamphilis, Wanke; Single – copy nuclear genes place haustorial Hydnoraceae within Piperales and reveal a Cretaceous origin of multiple parasitic angiosperm lineages	
Thu. 11:30 – 11:45	Wicke, Müller, Quandt, dePamphilis, Schneeweiss; Physical and functional plastome reduction coincides with major shifts of substitution rates and relaxation of purifying selection in photosynthetic and nonphotosynthetic parasitic Orobanchaceae	
Thu. 11:45 – 12:00	Appelhans, Hojsgaard, Pellino, Schmutzer, Scholz, Vogel, Sharbel, Hörandl; Genome evolution and speciation in polyploid complexes: insights from transcriptomics studies in <i>Ranunculus auricomus</i>	
Thu. 12:00 – 12:15	McCann, Schneeweiss, Stuessy, Weiss-Schneeweiss; The impact of reconstruction methods, phylogenetic uncertainty and branch lengths on inferences about dysploidy in <i>Melampodium</i> (Asteraceae)	
Thu. 12:15 – 12:30		
Thu. 12:30 – 14:00	Lunch	

Thursday, March 27, 2014	Session Biogeography & Molecular Clocks (Zoology)	
Thu. 14:00 – 14:15	Moreira-Muñoz; "Plant geography of Chile", written by Karl Reiche	Key Note, Th. Schmitt; Genes in Space and Time: The Molecular Biogeography of Europe
Thu. 14:15 – 14:30	Bouman; Tree diversity and stand dynamics at varying proportion of balsam fir (<i>Abies balsamea</i> L.)	
Thu. 14:30 – 14:45	Nolzen, Albach, Rezk, Shrestha, Kuhnert, Schepker, Ullrich; Phylogeny ploidal variation and antimicrobial activity of <i>Rhododendron</i> (Ericaceae)	Stelbrink, de Bruyn , Albrecht, Hall, von Rintelen; Sulawesi – A biogeographic melting pot No session in parallel
Thu. 14:45 – 15:00	Kunzmann, Dolezych, Wilde, Uhl, Brocke, El Atfy; Innovation in palaeobotany: the Whole-Plant concept	Lüter, Ebeling; Some like it cold - hybridization in Atlantic sister species of Terebratulina (Brachiopoda)
Thu. 15:00 – 15:15		Letsch, Ware; Ancient biogeography and evolution of dragonflies (Odonata: Anisoptera)
Thu. 16:00	Coffee & Plenary Farewell, GfBS Poster Award	

March 10, 2014