

Talks

Friday	
Chair of morning session: Brian Wiegmann Chair of afternoon session: Niklas Wahlberg	
0900-0915	Opening KLAUS-DIETER KLASS (Senckenberg Natural History Collections Dresden, Königsbrücker Landstraße 159, 01109 Dresden, Germany)
0915-0950	From sea to land and into the sky – a look at the evolution of Pancrustacea through transcriptomics ANDREAS ZWICK (Australian National Insect Collection, CSIRO, Canberra, Australia; andreas.zwick@csiro.au) — LUISA TEASDALE (Australian National Insect Collection, CSIRO, Canberra, Australia; luisa.teasdale@csiro.au) — DIANA HARTLEY (Australian National Insect Collection, CSIRO, Canberra, Australia; diana.hartley@csiro.au) — BLANCA PRADO (El Colegio de la Frontera Sur, Unidad Chetumal, Mexico; brp_c@yahoo.com) — CARMEN POZO (El Colegio de la Frontera Sur, Unidad Chetumal, Mexico; cpozo2@gmail.com) — HONG SHEN (Nanjing Agricultural University, College of Life Sciences, Jiangsu, China; hongshenks@hotmail.com)
0950-1010	Selected cases of fossil insects enlightened by Reflectance Transforming Imaging OLIVIER BÉTHOUX (Sorbonne Universités, UPMC Univ Paris 06, MNHN, CNRS, Centre de recherche sur la Paléontologie - Paris (CR2P), Paris, France; Muséum National d'Histoire Naturelle, 57 rue Cuvier, CP38, F-75005, Paris, France)
1010-1040	Diversification inferences from family level phylogenies PETER J MAYHEW (Department of Biology, University of York, YO10 5DD, UK)
1040-1105	Coffee break
1105-1135	Insect Mitochondrial Genomics, their use in phylogenomic and genome-structure studies STEPHEN L. CAMERON (Dept. of Entomology, Purdue University, Indiana, USA)
1135-1150	Building self-updating megaphylogenies using GenBank – a novel, Python-based data pipeline CHANDRA EARL (University of Florida, USA) — ROBERT P. GURALNICK (University of Florida, USA) — AKITO Y. KAWAHARA (University of Florida, USA)
1150-1215	Tackling the insect fauna of Singapore: species discovery and phylogenetic diversity RUDOLF MEIER (Lee Kong Chian Natural History Museum and Department of Biological Sciences, National University of Singapore, Singapore)
1215-1335	Lunch break
1335-1400	Computational biomechanics refines our view on insect head evolution ALEXANDER BLANKE (Department of Animal Physiology, University of Cologne, Zùlpicher Straße 47b, D-50674 Köln; Medical and Biological Engineering Research Group, School of Engineering, University of Hull, Hull HU6 7RX, UK; a.blanke@uni-koeln.de) — PETER J. WATSON (Medical and Biological Engineering Research Group, School of Engineering, University of Hull, Hull HU6 7RX, UK) — RICHARD HOLBREY (Medical and Biological Engineering Research Group, School of Engineering, University of Hull, Hull HU6 7RX, UK) — MICHAEL J. FAGAN (Medical and Biological Engineering Research Group, School of Engineering, University of Hull, Hull HU6 7RX, UK)

1400-1430	<p>The age and ancient biogeography of stoneflies</p> <p>YINGYING CUI (Sorbonne Universités, UPMC Univ Paris 06, MNHN, CNRS, Centre de recherche sur la Paléontologie - Paris (CR2P), Paris, France - Muséum National d'Histoire Naturelle, 57 rue Cuvier, CP38, F-75005, Paris, France; yycui@mnhn.fr) — CYRILLE A. D'HAESE (MECADEV, UMR 7179 CNRS, MNHN, F-75005, Paris, France; dhaese@mnhn.fr) — MICHEL LAURIN (Sorbonne Universités, UPMC Univ Paris 06, MNHN, CNRS, Centre de recherche sur la Paléontologie - Paris (CR2P), Paris, France - Muséum National d'Histoire Naturelle, 57 rue Cuvier, CP38, F-75005, Paris, France; laurin@mnhn.fr) — OLIVIER BÉTHOUX (Sorbonne Universités, UPMC Univ Paris 06, MNHN, CNRS, Centre de recherche sur la Paléontologie - Paris (CR2P), Paris, France - Muséum National d'Histoire Naturelle, 57 rue Cuvier, CP38, F-75005, Paris, France; obethoux@mnhn.fr)</p>
1430-1500	<p>The phylogeny and evolution of stoneflies (Plecoptera): promises and limitations of transcriptomic and traditional data</p> <p>HARALD LETSCH (Department of Botany and Biodiversity Research, University of Vienna, Rennweg 14, 1030 Vienna, Austria) — PAUL FRANDBSEN (Smithsonian Institution, Washington D.C., USA) — SABRINA SIMON, (Wageningen University, Wageningen, Netherlands) — XIN ZHOU (China Agricultural University, Beijing, China) — BENJAMIN WIPFLER (Friedrich-Schiller-Universität Jena, Germany)</p>
1500-1525	<p>Coffee break</p>
1525-1555	<p>Phasmatodea phylogenomics: new insights on the relationships of stick and leaf insects</p> <p>SVEN BRADLER (Georg-August-Universität Göttingen, Göttingen, Germany) — HARALD LETSCH (Division of Tropical Ecology and Animal Biodiversity, Universität Wien, Vienna, Austria) — PAUL FRANDBSEN (Smithsonian Institution, Herndon, VA, USA) — THOMAS R. BUCKLEY (Landcare Research, Auckland, New Zealand) — RYUICHIRO MACHIDA (Institute of Biological Sciences, University of Tsukuba, Nagano, Japan) — SHALIN LIU (Beijing Genomics Institute-Shenzhen, Shenzhen, China) — XIN ZHOU (Beijing Genomics Institute-Shenzhen, Shenzhen, China) — BENJAMIN WIPFLER (Institut für Spezielle Zoologie und Evolutionsbiologie, Jena, Germany) — SABRINA SIMON (Wageningen University, Wageningen, Netherlands)</p>
1555-1625	<p>Phylogeny of Orthoptera: Progress and future directions</p> <p>HOJUN SONG (Department of Entomology, Texas A&M University, USA) — SEUNGGWAN SHIN (Department of Biological Sciences, University of Memphis, USA) — SABRINA SIMON (Wageningen University, Wageningen, Netherlands) — SHANLIN LIU (Beijing Genomic Institute-Shenzhen, China) — GUANLIANG MENG (Beijing Genomic Institute-Shenzhen, China) — 1KITE ORTHOPTERA</p>
1625-1650	<p>Coffee break</p>
1650-1705	<p>Biogeographical patterns and dynamics of diversification of the genus <i>Cardiodactylus</i> (Orthoptera, Gryllidae, Eneopterinae) in Southeast Asia</p> <p>JIAJIA DONG (Muséum national d'Histoire naturelle, Institut de Systématique, Evolution et Biodiversité ISYEB, UMR 7205 CNRS MNHN UPMC EPHE CP 50 (Entomologie), Sorbonne Universités, 75231 Paris Cedex 05, France; College of Life Science, Shaanxi Normal University, Xi'an, Shaanxi, P.R. China) — GAEL J. KERGOAT (INRA – UMR 1062 CBGP (INRA, IRD, CIRAD, Montpellier SupAgro), 755 Avenue du Campus Agropolis, 34988 Montferrier-sur-Lez, France) — NATÁLLIA VICENTE (Universidade Federal de Viçosa, Departamento de Biologia Animal, Av. PH Rolfs s/n. Viçosa, Minas Gerais, Brazil. CEP 36570-900) — CAHYO RAMADI (Division of Zoology, RC–Biology, Cibinong Science Center – LIPI, Jl. Raya Jakarta- Bogor Km. 46, Cibinong, 16911 Indonesia) — SHENQUAN XU (College of Life Science, Shaanxi Normal University, Xi'an, Shaanxi, P.R. China) — TONY ROBILLARD (Muséum national d'Histoire naturelle, Institut de Systématique, Evolution et Biodiversité ISYEB, UMR 7205 CNRS MNHN UPMC EPHE CP 50 (Entomologie), Sorbonne Universités, 75231 Paris Cedex 05, France)</p>
1705-1720	<p>Comparative transcriptomics of New Zealand weta (Orthoptera) offers insight into selection patterns associated with alpine adaptation</p> <p>VICTORIA G TWORT (Lund University, Lund, Sweden) — THOMAS R BUCKLEY (Landcare Research, Auckland, New Zealand) — RICHARD D. NEWCOMB (The New Zealand Institute of Plant and Food Research Ltd, Auckland, New Zealand)</p>

Saturday Chair of morning session: Andreas Zwick Chair of afternoon session: Vasily Grebennikov	
0900-0930	Patterns of origin in Caribbean and Neotropical praying mantises GAVIN J. SVENSON (Cleveland Museum of Natural History, Cleveland, United States of America) — HENRIQUE RODRIGUES (Case Western Reserve University, Cleveland, United States of America) — JULIO RIVERA (Universidad San Ignacio de Loyola, Perú) — SYDNEY BRANNOCH (Case Western Reserve University, Cleveland, United States of America)
0930-1000	Discovering the origins of Blattodea through fossils and phylogeny DOMINIC A. EVANGELISTA (Muséum national d'Histoire naturelle - Paris) — Benjamin Wipfler (Friedrich-Schiller-Universität Jena) — SABRINA SIMON (Wageningen University) — KAREN MEUSEMANN (University of Freiburg) — OLIVIER BETHOUX (Muséum national d'Histoire naturelle) — JES RUST (Bonn Universität) — TORSTEN WAPPLER (Bonn Universität) — JESSICA L. WARE (Rutgers, The State University of New Jersey) — BERNHARD MISOF (Zoological Research Museum Alexander Koenig) — XIN ZHOU (Beijing Genomics Institute) — 1KITE CORE AND 1KITE BLATTODEA GROUP
1000-1015	Neuropeptide precursor sequences provide comprehensive data to elucidate phylogenetic relationships within Blattodea MARCEL BLÄSER (University of Cologne, Zoological Institute, Zuelpicher Straße 47b, 50676 Cologne, Germany) — BERNHARD MISOF (ZFMK, Centre for Molecular Biodiversity Research (ZMB), Adenauerallee 160, 53113 Bonn, Germany) — REINHARD PREDEL (University of Cologne, Zoological Institute, Zuelpicher Straße 47b, 50676 Cologne, Germany)
1015-1030	Phylogeny of Isoptera JESSICA L. WARE (Rutgers University, 195 University Ave, Newark, NJ, 07102, USA) — MEGAN WILSON (Rutgers University, 195 University Ave, Newark, NJ, 07102, USA) — DAVID GRIMALDI (American Museum of Natural History, New York, NY, 10024, USA)
1030-1055	Coffee break
1055-1115	Earwigs – their phylogeny and evolution BENJAMIN WIPFLER (Phyletisches Museum, Friedrich Schiller Universität Jena, Vor dem Neutor 1, 07743 Jena, Germany) on behalf of the 1KITE POLYNEOPTERA GROUP
1115-1145	Phylogenomics of the hemipteroid insect orders KEVIN P. JOHNSON (Illinois Natural History Survey, University of Illinois, USA)
1145-1215	Towards the true bug tree of life (Hemiptera: Heteroptera): insights from total evidence and phylogenomic analyses CHRISTIANE WEIRAUCH (Department of Entomology, University of California, Riverside, 900 University Avenue, Riverside, CA 92521, USA)
1215-1335	Lunch break
1335-1405	Our knowledge on the phylogeny of Hymenoptera - a 2017 update RALPH PETERS, LARS KROGMANN, OLIVER NIEHUIS
1405-1420	Paleontological contributions in the age of genomics: relicts, stem lineages, and extinction in ants (Hymenoptera: Formicidae) PHILLIP BARDEN (New Jersey Institute of Technology, USA) — JESSICA WARE (Rutgers University – Newark, USA)
1420-1455	New insights into the phylogeny and evolution of beetles (Coleoptera) DUANE D. MCKENNA (University of Memphis, 3700 Walker Avenue, Memphis, TN USA; dmckenna@memphis.edu) — The 1KITE BEETLE PROJECT CONSORTIUM — The 1K WEEVILS PROJECT CONSORTIUM — The 15K ASIAN LONGHORNED BEETLE GENOME PROJECT CONSORTIUM

1455-1610	<p>Coffee break</p> <p>Poster session</p>
1610-1625	<p>Head morphology of the smallest beetles and the evolution of sporophagy (Coleoptera: Ptiliidae)</p> <p>MARGARITA I. YAVORSKAYA (Institut für Spezielle Zoologie und Evolutionsbiologie, FSU Jena, Jena, Germany; margojavor@gmail.com) — ROLF G. BEUTEL (Institut für Spezielle Zoologie und Evolutionsbiologie, FSU Jena, Jena, Germany; b5bero@uni-jena.de) — ALEXEY A. POLILOV (Department of Entomology, Biological Faculty, Lomonosov Moscow State University, Moscow, Russia; polilov@gmail.com)</p>
1625-1640	<p>Morphological input towards the comprehensive phylogeny of Aleocharinae, a systematic nightmare in rove beetles</p> <p>IGOR ORLOV (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, Copenhagen 2100, Denmark) — DAGMARA ŻYŁA (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, Copenhagen 2100, Denmark) — ALEXEY SOLODOVNIKOV (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, Copenhagen 2100, Denmark)</p>
1640-1655	<p>Towards a natural classification and backbone tree for the rove beetle tribe Xantholinini</p> <p>DAGMARA ŻYŁA (Biosystematics, Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, Copenhagen 2100, Denmark; zyladagmara@gmail.com)</p>
2000-0100 and beyond	<p>Social Evening (in the lecture hall)</p>
	<p>Sunday Chair of morning session: Christiane Weirauch Chair of afternoon session: Rudolf Meier</p>
0900-0930	<p>Phylogeny and patterns of diversification in darkling beetles (Coleoptera, Tenebrionidae)</p> <p>GAEL J. KERGOAT (French National Institute for Agricultural Research, Montpellier, France) — ROLF AALBU (California Academy of Sciences, San Francisco, USA) — PATRICE BOUCHARD (Canadian National Collection of Insects, Ottawa, Canada) — ANNE-LAURE CLAMENS (French National Institute for Agricultural Research, Montpellier, France) — FABIEN L. CONDAMINE (French National Center for Scientific Research, Montpellier, France) — HERVÉ JOURDAN (French Research Institute for Development, Nouméa, New Caledonia) — KOJUN KANDA (Northern Arizona University, Flagstaff, USA) — LAURENT SOLDATI (French National Institute for Agricultural Research, Montpellier, France) — AARON SMITH (Northern Arizona University, Flagstaff, USA)</p>
0930-1000	<p>Phylogeny and evolution of Scarabaeoidea</p> <p>DIRK AHRENS (Zoologisches Forschungsmuseum A. Koenig, Bonn, Germany) — JONAS EBERLE (Zoologisches Forschungsmuseum A. Koenig, Bonn, Germany) — DUANE MCKENNA (Department of Biological Sciences, University of Memphis, Memphis, U.S.A.)</p>
1000-1030	<p>Phylogeny of the Neuropterida</p> <p>ULRIKE ASPÖCK (Natural History Museum Vienna, Department of Entomology, Burgring 7, 1010 Vienna, Austria and University of Vienna, Department of Integrative Zoology, Althanstraße 14, 1090, Vienna, Austria) — HORST ASPÖCK (Institute of Specific Prophylaxis and Tropical Medicine, Medical Parasitology, Medical University of Vienna, Kinderspitalgasse 15, 1090 Vienna, Austria) — SUSANNE RANDOLF (Natural History Museum Vienna, Department of Entomology, Burgring 7, A-1010 Vienna, Austria and University of Vienna, Department of Integrative Zoology, Althanstraße 14, 1090, Vienna, Austria) — DOMINIQUE ZIMMERMANN (Natural History Museum Vienna, Department of Entomology, Burgring 7, A-1010 Vienna, Austria and University of Vienna, Department of Integrative Zoology, Althanstraße 14, 1090, Vienna, Austria) — XINGYUE LIU (Department of Entomology, China Agricultural University, Beijing 100193, China)</p>
1030-1055	<p>Coffee break</p>
1055-1135	<p>Phylogeny and evolutionary phenomena of Strepsiptera</p> <p>HANS POHL (Entomology Group, Institut für Spezielle Zoologie und Evolutionsbiologie mit Phyletischem Museum, Friedrich-Schiller-Universität Jena, Erbertstraße 1, 07743 Jena, Germany) — ROLF G. BEUTEL (Entomology Group, Institut für Spezielle Zoologie und Evolutionsbiologie mit Phyletischem Museum, Friedrich-Schiller-Universität Jena, Erbertstraße 1, 07743 Jena, Germany)</p>

1135-1155	<p>Comparative larval and adult head anatomy of caddisflies with implications on the phylogeny of Trichoptera</p> <p>FRANK FRIEDRICH (Biozentrum Grindel, Universität Hamburg, Martin-Luther-King-Platz 3, 20146 Hamburg, Germany) — MARTIN KUBIAK (Zoologisches Museum, Centrum für Naturkunde, Universität Hamburg, Martin-Luther-King-Platz 3, 20146 Hamburg, Germany)</p>
1155-1225	<p>Phylogeny of Lepidoptera: Progress and update</p> <p>AKITO Y. KAWAHARA (University of Florida, Gainesville, FL USA) — JESSE W. BREINHOLT (RAPiD Genomics, Gainesville, FL USA) — CHANDRA EARL (University of Florida, Gainesville, FL USA) — ALAN LEMMON (Florida State University, Tallahassee, FL USA) — EMILY LEMMON (Florida State University, Tallahassee, FL USA) — LEI XIAO (University of Florida, Gainesville, FL USA)</p>
1225-1345	Lunch break
1345-1410	<p>The priors and posteriors of fossil calibrations: an example from butterflies</p> <p>NIKLAS WAHLBERG (Department of Biology, Lund University, Sweden) — NICOLAS CHAZOT (Department of Biology, Lund University, Sweden) — MARIA HEIKILÄ (Finnish Museum of Natural History, University of Helsinki, Finland)</p>
1410-1430	<p>Phylogeny of Pyraloidea</p> <p>FRANZISKA BAUER (Senckenberg Museum of Zoology Dresden, Königsbrücker Landstr. 159, 01109 Dresden, Germany; franziska.bauer@senckenberg.de) — THÉO LÉGER (Senckenberg Museum of Zoology Dresden, Königsbrücker Landstr. 159, 01109 Dresden, Germany; theo.leger@senckenberg.de) — RICHARD MALLY (University Museum of Bergen, Natural History Collections, Realfagbygget, Allégaten 41, 5007 Bergen, Norway; richard.mally@uib.no) — MATTHIAS NUSS (Senckenberg Museum of Zoology Dresden, Königsbrücker Landstr. 159, 01109 Dresden, Germany; matthias.nuss@senckenberg.de)</p>
1430-1500	<p>In the twilight of Antliophora - the intractable Mecoptera-Problem</p> <p>1 KITE ANTLIOPHORA GROUP</p>
1500-1525	Coffee break
1525-1555	<p>Phylogeny of Diptera</p> <p>BRIAN WIEGMANN</p>
1555-1610	<p>Molecular phylogeny of Miltogramminae (Diptera: Sarcophagidae): implications for classification, systematics and evolution of larval feeding strategies</p> <p>KRZYSZTOF SZPILA (Chair of Ecology and Biogeography, Nicolaus Copernicus University in Toruń, Lwowska 1, PL-87-100 Toruń, Poland) — THOMAS PAPE (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, 2100 Copenhagen, Denmark) — EDYTA DEJA-SIKORA (Department of Environmental Microbiology and Biotechnology, Nicolaus Copernicus University in Toruń, Lwowska 1, PL-87-100 Toruń, Poland) — MARCIN SIKORA (Centre for Modern Interdisciplinary Technologies, Nicolaus Copernicus University in Toruń, Wileńska 4, PL-87-100 Toruń, Poland) — KAMRAN AKBARZADEH (Department of Medical Entomology & Vector Control, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran) — MARCIN PIWCZYŃSKI (Chair of Ecology and Biogeography, Nicolaus Copernicus University in Toruń, Lwowska 1, PL-87-100 Toruń, Poland)</p>
1610-1640	<p>Insect olfactory receptors – origin and evolution</p> <p>CHRISTINE MISSBACH (Max Planck Institute for Chemical Ecology, Dept. of Evolutionary Neuroethology, Jena, Germany) — MICHAEL THOMA (New Zealand Institute for Plant & Food Research, Auckland, New Zealand) — BILL HANSSON (Max Planck Institute for Chemical Ecology, Dept. of Evolutionary Neuroethology, Jena, Germany) — EWALD GROSSE-WILDE (Max Planck Institute for Chemical Ecology, Dept. of Evolutionary Neuroethology, Jena, Germany) — RICHARD D. NEWCOMB (New Zealand Institute for Plant & Food Research, Auckland, New Zealand, School of Biological Sciences, University of Auckland, Auckland, New Zealand)</p>
1640-1650	<p>Closure</p> <p>KLAUS-DIETER KLASS (Senckenberg Natural History Collections Dresden, Königsbrücker Landstraße 159, 01109 Dresden, Germany)</p>

Posters

Position	Presentation
01	<p>A system for the organism automatic identification</p> <p>MING BAI (Key Laboratory of Zoological Systematics and Evolution, Institute of Zoology, Chinese Academy of Sciences, Box 92, Beichen West Road, Chaoyang District, Beijing, 100101, China)</p>
02	<p>Reconstructing ecosystem structures – first record of insects and insect feeding traces for the late Eocene of central Germany</p> <p>CHRISTIAN MÜLLER (Senckenberg Naturhistorische Sammlungen Dresden, Museum für Mineralogie und Geologie, Königsbrücker Landstraße 159, D-01109 Dresden, Germany) — TORSTEN WAPPLER (Hessisches Landesmuseum Darmstadt, Friedensplatz 1, D-64283 Darmstadt, Germany) — LUTZ KUNZMANN (Senckenberg Naturhistorische Sammlungen Dresden, Museum für Mineralogie und Geologie, Königsbrücker Landstraße 159, D-01109 Dresden, Germany)</p>
03	<p>Ovipositor setation in oldest insects (Insecta: Archaeognatha) revealed by SEM and He-ion microscopy</p> <p>NATALIA A. MATUSHKINA (Department of Ecology and Zoology, Institute of Biology and Medicine, Taras Shevchenko National University of Kyiv, vul. Volodymirs'ka, 64, Kyiv UA-01033, Ukraine)</p>
04	<p>Paleozoic nymphal wing pads support dual model of insect wing origins</p> <p>JAKUB PROKOP (Department of Zoology, Charles University, Praha, Czech Republic) — MARTINA PECHAROVÁ (Department of Zoology, Charles University, Praha, Czech Republic) — ANDRÉ NEL (Muséum national d'Histoire naturelle, Sorbonne Universités, Paris, France) — THOMAS HÖRNSCHEMEYER (Senckenberg Gesellschaft für Naturforschung, Frankfurt, Germany) — EWA KRZEMIŃSKA (Institute of Systematics and Evolution of Animals, Polish Academy of Sciences, Kraków, Poland) — WIESŁAW KRZEMIŃSKI (Institute of Biology, Pedagogical University of Kraków, Kraków, Poland) — MICHAEL S. ENGEL (Division of Entomology, Natural History Museum, and Department of Ecology & Evolutionary Biology, University of Kansas, Lawrence, Kansas, USA & Division of Invertebrate Zoology, American Museum of Natural History, New York, USA)</p>
05	<p>Compounding effects of ancient diversification and morphological convergence: A case study based on Pyrgomorphidae (Orthoptera: Caelifera)</p> <p>RICARDO MARIÑO-PÉREZ (Department of Entomology, Texas A&M University, USA) — HOJUN SONG (Department of Entomology, Texas A&M University, USA)</p>
06	<p>Development and gene expression profiling of pleuropodia in the embryos of a locust <i>Schistocerca gregaria</i> (Orthoptera)</p> <p>BARBORA KONOPOVÁ (University of Göttingen, Germany & University of Cambridge, UK; barbora.konopova@biologie.uni-goettingen.de) — ELISA BUCHBERGER (University of Göttingen, Germany) — ALASTAIR CRISP (University of Cambridge, UK)</p>
07	<p>The thorax of Orthoptera: groundplan morphology, phylogeny and implications for the evolution of bioacoustics within Ensifera</p> <p>FANNY LEUBNER (Department of Morphology, Systematics & Evolutionary Biology, J-F-Blumenbach Institute for Zoology & Anthropology, University of Goettingen, Untere Karspüle 2, 37073 Göttingen, Germany) — SVEN BRADLER (Department of Morphology, Systematics & Evolutionary Biology, J-F-Blumenbach Institute for Zoology & Anthropology, University of Goettingen, Untere Karspüle 2, 37073 Göttingen, Germany)</p>
08	<p>The female postabdomen of <i>Cyphoderris monstrosa</i> (Orthoptera-Prophalangopsidae): morphology & homology hypotheses</p> <p>MANDY SCHRÖTER (Senckenberg Natural History Collections Dresden, Königsbrücker Landstraße 159, 01109 Dresden, Germany; mandy.schroeter@senckenberg.de) — KLAUS-DIETER KLASS (Senckenberg Natural History Collections Dresden, Königsbrücker Landstraße 159, 01109 Dresden, Germany)</p>
09	<p>Phylogenetic implications of the morphology of antennae and antennal sensilla in <i>Puto superbus</i> (Leonardi, 1907) and <i>Ceroputo pilosellae</i> Šulc, 1898</p> <p>MAŁGORZATA KALANDYK-KOŁODZIEJCZYK (Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia, Bankowa 9, 40-007 Katowice, Poland) — ANNA MICHALIK (Department of</p>

	Developmental Biology and Morphology of Invertebrates, Institute of Zoology, Jagiellonian University, Gronostajowa 9, 30-387 Kraków, Poland) — JOLANTA BROŻEK (Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia, Bankowa 9, 40-007 Katowice, Poland)
10	Symbiotic microorganisms of archaeococoids – phylogenetic implications ANNA MICHALIK (Department of Developmental Biology & Morphology of Invertebrates, Institute of Zoology and Biomedical Science, Jagiellonian University, Krakow, Poland; a.michalik@uj.edu.pl) — KATARZYNA MICHALIK (Department of Developmental Biology & Morphology of Invertebrates, Institute of Zoology and Biomedical Science, Jagiellonian University, Krakow, Poland) — MALGORZATA KALANDYK-KOŁODZIEJCZYK (Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia, Katowice, Poland) — TERESA SZKLARZEWICZ (Department of Developmental Biology & Morphology of Invertebrates, Institute of Zoology and Biomedical Science, Jagiellonian University, Krakow, Poland)
11	Millipede assassin bugs in action: amazing defense strategy of <i>Ectrichodia</i> (Hemiptera: Reduviidae) CHRISTIANE BRAMER (Georg-August-Universität, Johann-Friedrich-Blumenbach-Institut, Untere Karspüle 2, Germany) — THOMAS SCHMITT (University of Würzburg, Department of Animal Ecology and Tropical Biology, Biocenter - Am Hubland, Germany)
12	The first evaluation of karyotype and nuclear DNA content of Enicocephalidae DAVID SADÍLEK (Department of Zoology, Faculty of Science, Charles University, Prague, Czech Republic) — TOMÁŠ URFUS (Department of Botany, Faculty of Science, Charles University, Prague, Czech Republic) — FRANTIŠEK ŠTÁHLAVSKÝ (Department of Zoology, Faculty of Science, Charles University, Prague, Czech Republic) — JITKA VILÍMOVÁ (Department of Zoology, Faculty of Science, Charles University, Prague, Czech Republic)
13	First evidence of sexual dimorphism in external scent efferent system of metathoracic scent glands in Heteroptera JITKA VILÍMOVÁ (Department of Zoology, Charles University, Prague, Czech Republic; vilim@natur.cuni.cz) — PETR JANŠTA (Department of Zoology, Charles University, Prague, Czech Republic; janstapetr@gmail.com) — JOHN E. MCPHERSON (Department of Zoology, Southern Illinois University, Carbondale, USA; mcperson@zoology.siu.edu)
14	Hidden treasures within? The use and performance of head anatomical characters for the reconstruction of endopterygote phylogeny DOMINIQUE ZIMMERMANN (Natural History Museum Vienna, Burgring 7, 1010 Vienna, Austria; dominique.zimmermann@nhm-wien.ac.at)
15	Drivers of diversification in the Hymenoptera TOMMI NYMAN (Department of Environmental and Biological Sciences, University of Eastern Finland) — RENSKE E. ONSTEIN (Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam) — DANIELE SILVESTRO (Department of Biological and Environmental Sciences, University of Gothenburg) — SASKIA WUTKE (Department of Environmental and Biological Sciences, University of Eastern Finland) — ANDREAS TAAGER (Senckenberg German Entomological Institute Müncheberg) — NIKLAS WAHLBERG (Biological Museum, Lund University) — STEPHAN M. BLANK (Senckenberg German Entomological Institute Müncheberg) — TOBIAS MALM (Department of Zoology, Swedish Museum of Natural History)
16	A comprehensive phylogeny of green lacewings (Neuroptera) using Bayesian inference, with emphasis on morphological evolution LAURA BREITKREUZ (University of Kansas, Department of Ecology and Evolutionary Biology, Biodiversity Institute and Natural History Museum, 1501 Crestline Drive, Suite 140, Lawrence, KS 66045, USA, l.breitkreuz@gmail.com) — SHAUN WINTERTON (California State Collection of Arthropods, California Department of Food & Agriculture, 3294 Meadowview Rd. Sacramento, CA 95832-1148, USA) — MICHAEL ENGEL (University of Kansas, Department of Ecology and Evolutionary Biology, Biodiversity Institute and Natural History Museum, 1501 Crestline Drive, Suite 140, Lawrence, KS 66045, USA)
17	Resolving a biogeographically controversial generic assignment – testing the case of Chilean – South African disjunct hydrophilid genus <i>Cylorygmus</i> (Coleoptera: Hydrophilidae: Cylominae) MATTHIAS SEIDEL (Department of Zoology, Faculty of Science, Charles University, Viničná 7, CZ-123 83 Praha 2, Czech Republic; Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9 – Horní Počernice, Czech Republic) — EMMANUEL ARRIAGA-VARELA (Department of Zoology, Faculty of Science, Charles University, Viničná 7, CZ-123 83 Praha 2, Czech Republic; Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9 – Horní Počernice, Czech Republic) — VÍT ŠÝKORA (Department of Zoology, Faculty of Science, Charles University, Viničná 7, CZ-123 83 Praha 2, Czech

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18	High diversity of <i>Cetiocyon</i> beetles (Coleoptera: Hydrophilidae) along the altitudinal gradient of Mt. Wilhelm, New Guinea WOJCIECH T. SZCZEPAŃSKI (Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia, Bankowa 9, 40–007 Katowice, Poland; wszczepanski@us.edu.pl) — DOMINIK VONDRÁČEK (Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9, Czech Republic; dominik.vondracek@gmail.com) — MATTHIAS SEIDEL (Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9, Czech Republic; matthias.seidel@natur.cuni.cz) — CARL WARDHAUGH (Scion, the New Zealand Forest Research Institute, 55 Sala Street, Rotorua, New Zealand; carl.wardhaugh@gmail.com) — MARTIN FIKÁČEK (Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9, Czech Republic; mfikacek@gmail.com)
19	Preliminary phylogenetic insights into the megadiverse group of terrestrial hydrophilid beetles (Hydrophilidae: Sphaeridiinae: Megasternini) EMMANUEL ARRIAGA-VARELA (Department of Zoology, Faculty of Sciences, Charles University in Prague, Viničná 7, CZ-128 43 Praha 2, Czech Republic; Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9; arriagavarelae@natur.cuni.cz) — MATTHIAS SEIDEL (Department of Zoology, Faculty of Sciences, Charles University in Prague, Viničná 7, CZ-128 43 Praha 2, Czech Republic; Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9; matthias.seidel@natur.cuni.cz) — MARTIN FIKÁČEK (Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9, Czech Republic; Department of Zoology, Faculty of Sciences, Charles University in Prague, Viničná 7, CZ-128 43 Praha 2, Czech Republic; mfikacek@gmail.com)
20	Stream life on a shaky island: analysis of the evolutionary history and speciation processes of New Zealand stream-inhabiting beetles VÍT SÝKORA (Faculty of Science, Charles University in Prague, Albertov 6, 128 43 Praha 2, Czech Republic; e-mail: sykoravi@natur.cuni.cz) — CRYSTAL A. MAIER (Gantz Family Collections Center, Field Museum of National History, 1400 South Lake Shore Drive, Chicago, IL 60605, USA) — RICHARD A.B. LESCHEN (Landcare Research, New Zealand Arthropod Collection, Private Bag 92170, Auckland 1142, New Zealand) — MARTIN FIKÁČEK (Department of Entomology, National Museum, Cirkusová 1740, CZ-19300 Praha 9, Czech Republic) — MATTHIAS SEIDEL (Faculty of Science, Charles University in Prague, Albertov 6, 128 43 Praha 2, Czech Republic)
21	The phylogeny and evolution of host plant use of the flea beetle genus <i>Psylliodes</i> Latreille (Coleoptera: Chrysomelidae: Galerucinae) MATILDA GIKONYO (Max-Planck Institute for Chemical Ecology, Jena, Germany) — HEIKO VOGEL (Max-Planck Institute for Chemical Ecology, Jena, Germany) — KONSTANTIN NADEIN (Senckenberg German Entomological Institute, Müncheberg, Germany) — MAURIZIO BIONDI (University of L'Aquila, L'Aquila, Italy) — FRANZISKA BERAN (Max-Planck Institute for Chemical Ecology, Jena, Germany)
22	Phylogenetic relationships of the genera of Passalini (Coleoptera: Passalidae) inferred from morphological and molecular data LARRY JIMÉNEZ-FERBANS (Facultad de Ciencias Básicas, Grupo de Investigación Evolución, Sistemática y Ecología Molecular, Universidad del Magdalena, Carrera 32 No 22 – 08, Santa Marta, Colombia, P.C. 470004) — PEDRO REYES-CASTILLO (Red de Biodiversidad y Sistemática, Instituto de Ecología, A.C., Carretera antigua a Coatepec 351, El Haya, Xalapa 91070, Veracruz, México) — DOLORES GONZÁLEZ (Red de Biodiversidad y Sistemática, Instituto de Ecología, A.C., Carretera antigua a Coatepec 351, El Haya, Xalapa 91070, Veracruz, México)
23	Unravelling the phylogeny of Crambinae, Heliiothelinae and Scopariinae (Lepidoptera: Pyraloidea) THÉO LÉGER (Senckenberg Museum of Zoology, Königsbrücker Landstrasse 159, 01109 Dresden, Germany and Muséum d'histoire naturelle de Genève, Route de Malagnou 1, 1208 Genève, Switzerland; theo.leger@outlook.com) — MATTHIAS NUSS (Senckenberg Museum of Zoology, Königsbrücker Landstrasse 159, 01109 Dresden, Germany) — BERNARD LANDRY (Muséum d'histoire naturelle de Genève, Route de Malagnou 1, 1208 Genève, Switzerland)
24	Molecular systematics of the subfamily Ennominae (Lepidoptera: Geometridae) LEIDYS MURILLO-RAMOS (Department of Biology, Lund University, Sweden and Department of Biology, Universidad de Sucre, Colombia; leidys.murillo@biol.lu.se, leidys.murillo@unisucre.edu.co) — HAMID GHANAVI (Department of Biology, Lund University, Sweden, hamid.ghanavi@biol.lu.se) — GUNNAR BREHM (University of Jena, Germany, gunnar.brehm@uni-jena.de) — PASI SIHVONEN (University of Helsinki, Finland,

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25	Molecular phylogeny and biogeography of the genus <i>Tanytarsus</i> van der Wulp (Diptera: Chironomidae) XIAOLONG LIN (Department of Natural History, NTNU University Museum, Norwegian University of Science and Technology, NO-7491, Trondheim, Norway) — ELISABETH STUR (Department of Natural History, NTNU University Museum, Norwegian University of Science and Technology, NO-7491, Trondheim, Norway) — TORBJØRN EKREM (Department of Natural History, NTNU University Museum, Norwegian University of Science and Technology, NO-7491, Trondheim, Norway)
26	Phylogenetics and systematics of the Iberian flightless dance flies unveils overlooked diversity ANA RITA GONÇALVES (Computational Biology & Population Genomics Group, cE3c – Centre for Ecology, Evolution and Environmental Changes, Universidade de Lisboa, Portugal) — EDUARDO MARABUTO (Computational Biology & Population Genomics Group, cE3c – Centre for Ecology, Evolution and Environmental Changes, Universidade de Lisboa, Portugal) — RUI ANDRADE (Rua Calouste Gulbenkian 237 4H3, Porto, Portugal) — PATRICK GROOTAERT (Entomology, Royal Belgian Institute of Natural Sciences, Vautier street 29, 1000 Brussels, Belgium) — OCTÁVIO S. PAULO (Computational Biology & Population Genomics Group, cE3c – Centre for Ecology, Evolution and Environmental Changes, Universidade de Lisboa, Portugal)
27	Intraspecific molecular diversity in Miltogramminae (Diptera: Sarcophagidae) DOMINIKA WYBORSKA (Chair of Ecology and Biogeography, Nicolaus Copernicus University, Lwowska 1, 87-100 Toruń, Poland; dominika.wyborska@wp.pl) — MARCIN PIWCZYŃSKI (Chair of Ecology and Biogeography, Nicolaus Copernicus University, Lwowska 1, 87-100 Toruń, Poland) — KRZYSZTOF SZPILA (Chair of Ecology and Biogeography, Nicolaus Copernicus University, Lwowska 1, 87-100 Toruń, Poland)
28	Venom evolution, composition and diversity of the Asilidae STEPHAN DRUKEWITZ (University of Leipzig, Institute of Biology, molecular systematics and animal evolution, Talstraße 33, 04275 Leipzig, Germany) — NICO FUHRMANN (Max-Planck-Institut für Evolutionsbiologie, August-Thienemann-Str. 2, 24306 Plön, Germany) — BJÖRN M. VON REUMONT (University of Leipzig, Institute of Biology, molecular systematics and animal evolution, Talstraße 33, 04275 Leipzig, Germany)
29 <i>likely to be cancel-led</i>	Venomomics of remipede (pan)crustaceans: illuminating the biological role of diverse and novel toxin peptides BJÖRN M. VON REUMONT (Institute for Biology, University of Leipzig & Department of Life Sciences, Natural History Museum)