

5th Dresden Meeting on Insect Phylogeny
September 23–25, 2011

Presenting authors are highlighted in blue

Friday, September 23 (location: "Blockhaus")	
	Chair of morning session: Klaus-Dieter Klass Chair of afternoon session: Niels Peder Kristensen
08:45–08:50	Opening
	Klaus-Dieter Klass
08:50–09:20	<i>"Dating the models: robust temporal estimates of arthropod macroevolutionary events and divergences"</i>
	30 minutes
	Niklas Wahlberg (University of Turku, Department of Biology, Laboratory of Genetics, Finland) [niklas.wahlberg@utu.fi] Christopher W. Wheat (University of Helsinki, Department of Biosciences, Finland) [christopher.wheat@helsinki.fi]
09:20–09:40	<i>"Can phylogenomic studies tell us the evolution of insects?"</i>
	20 minutes
	Sabrina Simon (Stiftung Tierärztliche Hochschule Hannover, ITZ, Ecology & Evolution, Bünteweg 17d, D-30559 Hannover, Germany) [sabrina.simon@ecolevol.de] Heike Hadrys (Stiftung Tierärztliche Hochschule Hannover, ITZ, Ecology & Evolution, Bünteweg 17d, D-30559 Hannover, Germany)
09:40–10:15	<i>"Molecular phylogeny of non-endopterygote Hexapoda"</i>
	35 minutes
	Andreas Zwick (State Museum of Natural History Stuttgart, Entomology, Rosenstein 1, 70191 Stuttgart, Germany) [andreas.zwick@smns-bw.de] Hong Zhao (Smithsonian Institution, PO Box 37012, Washington, DC 20013, U.S.A.) [zhhmails@hotmail.com] Jerome C. Regier (Institute for Bioscience and Biotechnology Research, University of Maryland, 5140 Plant Sciences Bldg, College Park, MD 20742, U.S.A.) [regier@umd.edu]
10:15–10:35	Coffee Break
10:35–10:40	<i>Introduction to embryology session by Ryuichiro Machida</i>
	5 minutes
10:40–10:55	<i>"Embryological features of Protura"</i>
	15 minutes
	Makiko Fukui (Sugadaira Montane Research Center, University of Tsukuba) Ryuichiro Machida (Sugadaira Montane Research Center, University of Tsukuba)
10:55–11:10	<i>"Embryonic development of a springtail, Tomocerus cuspidatus Börner (Collembola, Arthropleona, Tomoceridae), with special reference to entognathy formation"</i>
	15 minutes
	Shigekazu Tomizuka (Sugadaira Montane Research Center, University of Tsukuba) Ryuichiro Machida (Sugadaira Montane Research Center, University of Tsukuba)
11:10–11:25	<i>"Embryonic development of a japygid, Occasjapyx japonicus (Enderlein) (Diplura, Dicellurata)"</i>
	15 minutes
	Kaoru Sekiya (Sugadaira Montane Research Center, University of Tsukuba) Ryuichiro Machida (Sugadaira Montane Research Center, University of Tsukuba)
11:25–11:40	<i>"Egg structure and embryonic development of Zoraptera"</i>
	15 minutes
	Yuta Mashimo (Sugadaira Montane Research Center, University of Tsukuba) Ryuichiro Machida (Sugadaira Montane Research Center, University of Tsukuba)

11:40–11:55	<i>"Embryological features of Dermaptera"</i>
	15 minutes
	Shota Shimizu (Sugadaira Montane Research Center, University of Tsukuba) Ryuichiro Machida (Sugadaira Montane Research Center, University of Tsukuba)
11:55–12:20	<i>"Recent advances in hexapod comparative embryology and their evidence for phylogenetic reconstruction"</i> <i>and discussion for entire embryology session</i>
	25 minutes
	Ryuichiro Machida (Sugadaira Montane Research Center, University of Tsukuba, 1278-294 Sugadaira Kogen, Ueda, Nagano 386-2204, Japan) [machida@sugadaira.tsukuba.ac.jp]
12:20–13:20	<i>Lunch Break</i>
13:20–13:55	<i>"Phylogeny and evolution of Collembola"</i>
	35 minutes
	Cyrille A. D'Haese (Museum National d'Histoire Naturelle - CNRS, Departement Systematique et Evolution, CP50 Entomologie, 45 rue Buffon, 75005 Paris, France) [dhaese@mnhn.fr]
13:55–14:20	<i>"Recent advances in the biodiversity and phylogeny of the Diplura"</i>
	25 minutes
	Markus Koch (Institute of Evolutionary Biology and Ecology, Univ. Bonn, An der Immenburg 1, 53121 Bonn, Germany) [mkoch@evolution.uni-bonn.de]
14:20–14:50	<i>"The phylogeny of Odonata, with emphasis on Zygoptera"</i>
	30 minutes
	Frank L. Carle (Rutgers University, Dept. of Entomology, USA) [Carle@aesop.rutgers.edu] Michael L. May (Rutgers University, Dept. of Entomology, USA) [May@aesop.rutgers.edu] Karl M. Kjer (Rutgers University, Dept. Ecology, Evolution and Natural Resources, USA) [Kjer@aesop.rutgers.edu]
14:50–15:10	<i>Coffee Break</i>
15:10–15:40	<i>(Phylogeny of Odonata, emphasis on Anisoptera)</i>
	30 minutes
	Bernhard Misof (University of Bonn, Germany)
15:40–16:00	<i>"The phylogeny and age of Libelluloidea (Odonata)"</i>
	20 minutes
	Jessica Lee Ware (Rutgers University, Department of Biology, 206 Boyden Hall, 195 University Avenue, Newark, New Jersey, 07102, USA) [jware42@andromeda.rutgers.edu]
16:00–16:20	<i>"King crickets, raspy crickets & wetas, their wings, their origin (Orthoptera)"</i>
	20 minutes
	Olivier Béthoux (40 rue d'Aveillans, 38770 La Motte d'Aveillans, France) [obethoux@yahoo.fr]
16:20–16:30	<i>Short Break</i>
16:30–17:20	<i>"The phasmatodean tree of life: progress and enigmas"</i>
	40 minutes
	Sven Bradler (Johann-Friedrich-Blumenbach-Institut für Zoologie & Anthropologie, Georg-August-Universität Göttingen, Berliner Straße 28, D-37073 Göttingen, Germany) [sbradle@gwdg.de] Thomas R. Buckley (Landcare Research, Private Bag 92170, Auckland, New Zealand) [buckleyt@landcareresearch.co.nz]

	Saturday, September 24 (location for talks: "Blockhaus") (location for social evening: "Japanisches Palais")
	Chair of morning session: Rolf Georg Beutel Chair of afternoon session: Brian Wiegmann
08:45–09:10	"Mantodean history and phylogeny: a molecular based approach"
	25 minutes
	Gavin J. Svenson (Cleveland Museum of Natural History, 1 Wade Oval Drive, Cleveland OH 44106, United States of America) [gavin.svenson@gmail.com]
09:10–09:45	"Mantodean phylogeny: a morphological approach"
	35 minutes
	Frank Wieland (University of Hamburg, Biocentre Grindel and Zoological Museum, Martin-Luther-King-Platz 3, 20146 Hamburg, Germany) [fwielan@googlemail.com]
09:45–10:05	"Extant miomopterans identified, they are ..."
	20 minutes
	Olivier Béthoux (40 rue d'Aveillans, 38770 La Motte d'Aveillans, France) [obethoux@yahoo.fr] Fred D. Stone (University of Hawaii at Hilo, PO Box 1430, Kurtistown, HI 96760, USA) [fred@hawaii.edu]
10:05–10:25	Coffee Break
10:25–11:00	"Basal Heteroptera - radiation in air and litter"
	35 minutes
	Pavel Stys (Department of Zoology, Charles University, Viničná 7, CZ-12844 Praha 2, Czech Republic) [pavelstys@gmail.com]
11:00–11:30	"Infraordinal monophyly and an updated analysis of infraordinal relationships in the Heteroptera"
	30 minutes
	Randall T. Schuh (American Museum of Natural History, New York, New York 10024, USA) [schuh@amnh.org] Christiane Weirauch (University of California at Riverside, Riverside, California, USA) [christiane.weirauch@ucr.edu] Ward C. Wheeler (American Museum of Natural History, New York, New York 10024, USA) [wheeler@amnh.org]
11:30–11:50	"Genes and gestalt: advancing phylogenetics of Dipsocoromorpha and Cimicomorpha (Heteroptera)"
	20 minutes
	Christiane Weirauch (Department of Entomology, University of California, Riverside, 3401 Watkins Drive, Riverside CA 92521, United States of America) [christiane.weirauch@ucr.edu] Randall T. Schuh (American Museum of Natural History, Central Park West, New York, NY, United States of America) [schuh@amnh.org] Dimitri Forero (Department of Entomology, University of California, Riverside, 3401 Watkins Drive, Riverside CA 92521, United States of America) [jdf2@cornell.edu]
11:50–12:05	We make a photo! <i>All speakers and visitors of the meeting are invited to group for a photo in the backyard of the building (opposite to the main entrance); please go there immediately after the end of the last morning talk!</i>
12:05–13:00	Lunch Break
13:00–13:20	"Phylogeny of Psocomorpha: congruence and incongruence between morphology and molecular data"
	20 minutes
	Kazunori Yoshizawa (Hokkaido University, Systematic Entomology, Sapporo, Japan) [psocid@res.agr.hokudai.ac.jp] Kevin P. Johnson (Illinois Natural History Survey, University of Illinois, Champaign, USA) [kjohnson@inhs.uiuc.edu]

13:20–13:40	<i>"Next-generation phylogenomics of Psocodea"</i>
	20 minutes
	Kevin P. Johnson (Illinois Natural History Survey, University of Illinois, 1816 South Oak Street, Champaign, Illinois 61820, USA) [kjohnson@inhs.uiuc.edu] Kimberly K. O. Walden (Department of Entomology, University of Illinois, 505 South Goodwin Avenue, Urbana, Illinois 61801, USA) [k-walden@life.illinois.edu] Hugh M. Robertson (Department of Entomology, University of Illinois, 505 South Goodwin Avenue, Urbana, Illinois 61801, USA) [hughrobe@uiuc.edu]
13:40–14:00	<i>"A timescale for the evolution of lice (Phthiraptera)"</i>
	20 minutes
	Vincent Smith (The Natural History Museum, Cromwell Road, London, SW7 5BD, UK) [vince@vsmith.info]
14:00–14:30	<i>"The Holometabola project and the role of morphology in the age of phylogenomics"</i>
	30 minutes
	Rolf Georg Beutel (Institut für Spezielle Zoologie und Evolutionsbiologie mit Phyletischem Museum, FSU Jena, Erbertstraße 1, 07743 Jena, Germany) [rolf.beutel@uni-jena.de] Frank Hüenefeld (Institut für Spezielle Zoologie und Evolutionsbiologie mit Phyletischem Museum, FSU Jena, Erbertstraße 1, 07743 Jena, Germany) [frank.huenefeld@uni-jena.de] Hans Pohl (Institut für Spezielle Zoologie und Evolutionsbiologie mit Phyletischem Museum, FSU Jena, Erbertstraße 1, 07743 Jena, Germany) [hans.pohl@uni-jena.de] Frank Friedrich (Biozentrum Grindel & Zoologisches Museum, Universität Hamburg, Martin-Luther-King-Platz 3, 20146 Hamburg, Germany) [frank.friedrich@uni-hamburg.de]
14:30–14:50	<i>Coffee Break</i>
14:50–15:25	<i>"Understanding signal from nuclear genes for the Holometabolan phylogeny and placing Strepsiptera"</i>
	35 minutes
	Stuart J. Longhorn (National University of Ireland at Maynooth, Maynooth, Co. Kildare, Rep. of Ireland) [sjl197@hotmail.com] Joseph Hughes (University of Glasgow, Faculty of biomedical and Life Sciences, Graham Kerr Bldg., United Kingdom/ Scotland) [j.hughes@bio.gla.ac.uk] Joan Pons (Institut Mediterrani d'Estudis Avancats, Miquel Marqués, 21, Esporles, Escoles Velles Bldg., Iles Balears, Spain) [jpons@imedea.uib-csic.es] Alfried P. Vogler (The Natural History Museum London/ Imperial College, Cromwell Road, South Kensington, United Kingdom) [apv@nhm.ac.uk]
15:25–15:45	<i>"The first sequenced genome of a twisted-wing parasite (Strepsiptera) and its phylogenetic implications"</i>
	20 minutes
	Oliver Niehuis (Zoological Research Museum Alexander Koenig, Adenauerallee 160, 53113 Bonn, Germany) [o.niehuis.zfmk@uni-bonn.de] The Strepsiptera Genome Sequencing Consortium
15:45–15:55	<i>Short Break</i>

15:55–16:35	"The phylogeny of the Neuropterida: current controversies and challenges"
	40 minutes
	<p>Ulrike Aspöck (Natural History Museum Vienna, Burgring 7, 1010 Vienna, Austria) [ulrike.aspoeck@nhm-wien.ac.at]</p> <p>Elisabeth Haring (Natural History Museum Vienna, Burgring 7, 1010 Vienna, Austria) [elisabeth.haring@nhm-wien.ac.at]</p> <p>Horst Aspöck (Institute of Specific Prophylaxis and Tropical Medicine, Medical Parasitology, Medical University of Vienna, Kinderspitalgasse 15, 1095 Vienna, Austria) [horst.aspoeck@meduniwien.ac.at]</p>
16:35–16:55	"The phylogeny of Neuroptera: evidence from head anatomy"
	20 minutes
	<p>Dominique Zimmermann (Natural History Museum Vienna, Burgring 7, 1010 Vienna, Austria) [dominique.zimmermann@nhm-wien.ac.at]</p> <p>Susanne Randolph (Natural History Museum Vienna, Burgring 7, 1010 Vienna, Austria) [susanne.randolf@nhm-wien.ac.at]</p> <p>Ulrike Aspöck (Natural History Museum Vienna, Burgring 7, 1010 Vienna, Austria) [ulrike.aspoeck@nhm-wien.ac.at]</p>
17:00–18:00	Official poster session <i>Authors of presentations are kindly asked to stay with their posters</i>
18:30–23:00	Social evening <i>Note that this will take place in the "Japanisches Palais", ca. 500 m away from the "Blockhaus"! On Sunday the entire program will take place in the "Japanisches Palais"!</i>

Sunday, September 25 (location: "Japanisches Palais")	
	Chair of morning session: Karl Kjer Chair of afternoon session: Ulrike Aspöck & Niels Peder Kristensen
08:45–09:15	"Molecular systematics of Coleoptera from large-scale DNA data"
	30 minutes
	Alfried P. Vogler (Imperial College London, and Natural History Museum, Cromwell Rd, London SW5 7BD, UK) [apv@nhm.ac.uk] Martin J.T.N. Timmermans (Imperial College London, and Natural History Museum, Cromwell Rd, London SW5 7BD, UK) [m.timmermans@nhm.ac.uk] Chris Barton (Imperial College London, and Natural History Museum, Cromwell Rd, London SW5 7BD, UK) [chris.barton@nhm.ac.uk] Alex Crampton-Platt (Imperial College London, and Natural History Museum, Cromwell Rd, London SW5 7BD, UK) [alexc2@nhm.ac.uk] Alison London (Imperial College London, and Natural History Museum, Cromwell Rd, London SW5 7BD, UK) [a.london@nhm.ac.uk] Julien Haran (University of Orleans, Orleans, France) [julien.haran@etu.univ-orleans.fr] Stephen Dodsworth (Imperial College London, and Natural History Museum, Cromwell Rd, London SW5 7BD, UK) [s.dodsworth@nhm.ac.uk] Ladislav Bocak (Department of Zoology, Faculty of Science, Palacky University, tř. Svobody 26, 771 46 Olomouc, Czech Republic) [lbocak@lycos.com]
09:15–09:35	"Phylogeny of Coleoptera: development of new molecular markers"
	20 minutes
	Branka Bruvo Madaric (Molecular Biology Division, Rudjer Boskovic Institute, Zagreb, Croatia) Zeljka Pezer (Molecular Biology Division, Rudjer Boskovic Institute, Zagreb, Croatia) Joan Pons (Molecular Systematics Lab, Mediterranean Institute for Advanced Studies, Esporles, Balearic Islands, Spain) Durdica Ugarkovic (Molecular Biology Division, Rudjer Boskovic Institute, Zagreb, Croatia)
09:35–10:10	"A molecular phylogeny of Cucujoidea (Coleoptera) with emphasis on the Cerylonid Series: Implications for the classification and evolution of cucujoids"
	35 minutes
	James A. Robertson (University of Arizona, Department of Entomology, 1140 E South Campus Dr., 401 Forbes Building, Tucson, AZ, 85721, USA) [erolyid@gmail.com] S. Adam Ślipiński (Australian National Insect Collection, CSIRO Ecosystem Sciences, GPO Box 1700, Canberra, ACT 2601, Australia) [Adam.Slipinski@csiro.au] Kelly B. Miller (University of New Mexico, Department of Biology, 167 Castetter Hall, MSC03 2020, University of New Mexico, Albuquerque, NM 87131-0001, USA) [kbmiller@unm.edu] Michael F. Whiting (Brigham Young University, Department of Biology, 401 Widtsoe Building, Brigham Young University, Provo, UT 84602, USA) [Michael_Whiting@byu.edu] Joseph V. McHugh (University of Georgia, Department of Entomology, 413 Biological Sciences Building, Athens, GA 30602-2603, USA) [mchugh.jv@gmail.com]
10:10–10:45	"Phylogeny and evolution of the phytophagan lineages of Cucujiformia (Coleoptera), with emphasis on weevils"
	35 minutes
	Adriana E. Marvaldi (CONICET, Instituto Argentino de Investigaciones de las Zonas Aridas (IADIZA), Entomología, Av. Ruiz Leal s/n, Pque. Gral. San Martín, C. C. 507, 5500 Mendoza, Argentina) [marvaldi@mendoza-conicet.gov.ar]
10:45–11:05	Coffee Break
11:05–11:25	"Why did extremely long penises evolve several times independently in Criocerinae (Coleoptera, Chrysomelidae)?"
	20 minutes
	Yoko Matsumura , Ryuichiro Machida, Benjamin Wipfler, Rolf G. Beutel, Kazunori Yoshizawa
11:25–11:55	"The hymenopteran Tree of Life – latest results from morphology, molecules and combined analyses"
	30 minutes
	Lars Vilhelmsen (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark) [lbvilhelmsen@snm.ku.dk]

11:55–12:30	"Ground plans of amphiesmenopteran orders reassessed"
	35 minutes
	Niels P. Kristensen (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark) [npkristensen@snm.ku.dk]
12:30–13:30	Lunch Break
13:30–13:50	"Larval trunk morphology in basal amphiesmenopterans and its phylogenetic significance"
	20 minutes
	Steen Dupont (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark)
13:50–14:10	"Acanthopteroctetidae and their importance for understanding the early evolutionary history of Lepidoptera"
	20 minutes
	Jadranka Rota (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, 2100 Copenhagen Ø, Denmark) Niels P. Kristensen (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, 2100 Copenhagen Ø, Denmark)
14:10–14:45	"Molecular phylogeny of Lepidoptera – the basal splits in Ditrysia"
	35 minutes
	Andreas Zwick (State Museum of Natural History Stuttgart, Entomology, Rosenstein 1, 70191 Stuttgart, Germany) [andreas.zwick@smns-bw.de] The Leptree Consortium (www.leptree.net)
14:45–15:15	"Butterfly morphology in an age of phylogenomics – does morphology still has an important role in butterfly phylogenetics?"
	30 minutes
	Thomas J. Simonsen (Department of Entomology, the Natural History Museum, Cromwell Road, London, UK) [thoms@nhm.ac.uk] Rienk de Jong (Department of Terrestrial Zoology, Naturalis, Darwinweg 2, Leiden, The Netherlands) [jong@naturalis.nl] Maria Heikkilä (Department of Entomology, Finnish Museum of Natural History, Pohjoinen Rautatiekatu, Helsinki, Finland) Lauri Kaila (Department of Entomology, Finnish Museum of Natural History, Pohjoinen Rautatiekatu, Helsinki, Finland)
15:15–15:35	Coffee Break
15:35–16:10	"Phylogeny of Trichoptera"
	35 minutes
	Karl Kjer (Rutgers University, Dept of Ecology, Evolution, and Natural Resources, 14 College Farm Rd, New Brunswick, NJ 08904, U.S.A.) [kjer@aesop.rutgers.edu] Ralph Holzenthal (The University of Minnesota, Dept. of Entomology, 1980 Folwel Dr. 219 Hodson Hall, St. Paul. MN 55108, U.S.A.) [holze001@umn.edu] Jessica Thomas (Royal Holloway, University of London, School of Biological Sciences, Egham, TW20 0EX, United Kingdom) [jessicaathomas@gmail.com] Elizabeth Scott (Rutgers University, Dept of Ecology, Evolution, and Natural Resources, 14 College Farm Rd, New Brunswick, NJ 08904, U.S.A.) [escott@amnh.org] Paul Frandsen (Rutgers University, Dept of Ecology, Evolution, and Natural Resources, 14 College Farm Rd, New Brunswick, NJ 08904, U.S.A.) [paulfrandsen@gmail.com] Xin Zhou (Beijing Genomics Institute (BGI), Beishan Industrial Zone, Beishan Road, Yantian District, Shenzhen, Guangdong Province, People's Republic of China) [xinzhou@genomics.org.cn]
16:10–16:40	"The FLYTREE of Life: New perspectives on the evolutionary history of flies"
	30 minutes
	Brian M. Wiegmann (North Carolina State University, Department of Entomology, Raleigh, NC 27695, USA) [bwiegman@ncsu.edu] The FLYTREE Consortium [http://www.inhs.illinois.edu/research/FLYTREE/]

16:40–16:50	Short Break
16:50–17:10	"Recovering the evolution of flies: contributions from phylogenomics"
	20 minutes
	Michelle Trautwein (North Carolina State University, Raleigh, NC 27695, USA) [mdtrautw@ncsu.edu] Brian M. Wiegmann (North Carolina State University, Raleigh, NC 27695, USA) [bwiegman@ncsu.edu]
17:10–17:40	"Diptera phylogeny from exemplar-based morphology across the order"
	30 minutes
	Thomas Pape (Natural History Museum of Denmark, University of Copenhagen, Universitetsparken 15, 2100 Copenhagen Ø, Denmark) [tpape@snm.ku.dk] Christine L. Lambkin (Queensland Museum, PO Box 3300, South Brisbane, Queensland 4101, Australia) [christine.lambkin@qm.qld.gov.au] Bradley J. Sinclair (Canadian National Collection of Insects & Ottawa Plant Laboratory - Entomology, Ottawa, ON K1A 0C6, Canada) [bradley.sinclair@inspection.gc.ca] Greg W. Courtney (Department of Entomology, Iowa State University, Ames, Iowa 50011-3222, USA) [gwcourt@iastate.edu] Jeffrey H. Skevington (Canadian National Collection of Insects, Arachnids and Nematodes, Agriculture and Agri-Food Canada, Ottawa, ON K1A 0C6, Canada) [skevingtonj@agr.gc.ca] Rudolf Meier (Department of Biological Sciences, National University of Singapore, Singapore 117543, Singapore) [dbsmr@nus.edu.sg] David K. Yeates (CSIRO Ecosystem Sciences, Canberra ACT 2601, Australia) [david.yeates@csiro.au] Vladimir Blagoderov (Department of Entomology, Natural History Museum, London SW7 5BD, United Kingdom) [vlab@nhm.ac.uk] Brian M. Wiegmann (Department of Entomology, North Carolina State University, Raleigh, North Carolina 27695, USA) [bwiegman@ncsu.edu]
17:40–17:50	Closure
	Klaus-Dieter Klass