1st Münster Evolution Meeting (MEM) 4th – 6th October 2018, University of Münster

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THURSDAY 4TH OCTOBER 2018

12.00 – 13.00	Registration & Coffee
13.00 – 13.15	Opening remarks by MEM Chair Jürgen Gadau
	Chair: Jürgen Gadau
13.15 – 13.45	Diethard Tautz Max Planck Institute for Evolutionary Biology, Plön Mutual genomic introgression and immune gene evolution in house mice
13.45 – 14.00	Stephan Drukewitz University of Leipzig A dipteran's sucker punch - Evolution of venom in robber flies
14.00 – 14.15	Anne Kupczok Kiel University Rates of mutation and recombination in Siphoviridae phage genome evolution over three decades
14.15 – 14.30	Shuqing Xu University of Münster Low genetic variation is associated with low mutation rate in the giant duckweed
14.30 - 15.00	Coffee break
	Chair: Shuqing Xu
15.00 – 15.30	Erich Bornberg-Bauer University of Münster Emergence of de novo protein coding genes from 'dark genomic matter' - fact or fiction?
15.30 – 15.45	Katrin Hammerschmidt Kiel University Polarization of ancestor relations reveals the order of traits in the evolution of cyanobacterial multicellularity
15.45 – 16.00	Francesco Catania University of Münster The environment: a catalyst for genome re-patterning?
16.00 – 16.15	Michael Hiller Max Planck Institute of Molecular Cell Biology and Genetics, Dresden Less is more: The role of gene losses for adaptive evolution in mammals
16.15 – 16.30	Neel Prabh Max-Planck-Institute for Developmental Biology, Tübingen Deep taxon sampling reveals the evolutionary dynamics of novel gene families in the Pristionchus genome

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16.30 – 16.45	Chen Xie Max Planck Institute for Evolutionary Biology, Plön Recently evolved de novo genes function in distinct biological pathways in mice
16.45 – 17.15	Coffee break
17.15 – 17.30	Welcome address by Vice-Rector Monika Stoll
	Chair: Jürgen Gadau
17.30 – 18.45	Peter Hammerstein Humboldt-Universität zu Berlin The organism as evolved information processor: How genetic, epigenetic and sensory inputs are integrated and why endosymbionts have their own word to say
18.45 – 21.00	1st Poster session (even numbers) & Reception with finger food buffet

Day 1 is hosted by the Evolution Think Tank of the Münster Graduate School of Evolution, funded by



FRIDAY 5TH OCTOBER 2018

Chair: Susann Wicke

09.00 - 09.30	Julia Fischer German Primate Center & Georg-August-University, Göttingen Guinea baboons: a test case for studying the link between social systems, communication and cognition
09.30 - 09.45	Sandra Steiger University of Bayreuth The evolution of family life: why should we care about caring insects
09.45 – 10.00	Claudia Fricke University of Münster Sexual maturation in Drosophila melanogaster males — what is going on in young males?
10.00 – 10.15	Klaudia Witte University of Siegen Mate choice in the public: does distance matter?
10.15 – 10.45	Coffee break
	Chair: Joachim Kurtz
10.45 – 11.15	Ralf Sommer Max-Planck-Institute for Developmental Biology, Tübingen The mechanisms of developmental plasticity: from switch genes and epigenetics to canalization
11.15 – 11.30	Joshua Payne ETH Zürich A comparative analysis of empirical genotype-phenotype maps

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11.30 – 11.45	Gregor Bucher Georg August University Göttingen The cellular and genetic mechanisms of central complex diversification
11.45 – 12.00	Nico Posnien Georg August University Göttingen Context dependent regulatory divergence in closely related <i>Drosophila</i> species
12.00 – 12.15	Gregor Rolshausen Senckenberg Biodiversity and Climate Research Centre, Frankfurt am Main Evolutionary rates for evolutionary space. Perspectives on trait evolution
12.15 – 13.30	Lunch break (self-catering)
	Chair: Francesco Catania
13.30 – 14.00	Hinrich Schulenburg Kiel University Evolutionary ecology meets the antibiotic crisis: Can we control pathogen adaptation?
14.00 – 14.15	Christian Kost University of Osnabrück Synergistic coevolution speeds up molecular evolution
14.15 – 14.30	Leonardo Oña University of Osnabrück The role of ecological factors on the evolution of microbial individuality
14.30 – 14.45	Joachim Kurtz University of Münster Host-parasite coevolution and the evolution of immunological specificity
Cancelled	Carolin Wendling GEOMAR Helmholtz-Centre for Ocean Research Kiel Different ways to resistance — coevolution of bacteria and temperate phages along the parasitism mutualism continuum
14.45 – 15.30	Coffee break
	Chair: Erich Bornberg-Bauer
15.30 – 16.00	Judith Korb University of Freiburg Why can termite queens live so long?
16.00 – 16.15	Susanne Foitzik Johannes Gutenberg University of Mainz Immune challenge alters expression of more genes in fertile ant workers and causes a drastic reduction in gut microbiome diversity
16.15 – 16.30	Lukas Schrader University of Münster Genome evolution and speciation of inquiline social parasites in leaf-cutting ants
16.30 – 16.45	Jos Kramer University of Zürich The other facets of family life and their role in the evolution of animal sociality

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16.45 – 17.15	Wolfgang Stephan Natural History Museum, Berlin Population genetics of rapid evolutionary adaptation
17.15 – 17.30	Stefan Laurent Max Planck Institute for Plant Breeding, Köln An experimental test of the genomic consequences of local adaptation in deer mice
17.30 - 18.00	Evolution in Germany
18.00 - 20.00	2 nd Postersession (odd numbers) with beer and snacks

SATURDAY 6TH OCTOBER 2018

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	Chair: Claudia Fricke
09.00 – 09.30	Susanne Renner University of Munich (LMU) Will aDNA from herbarium collections and a pharaonic tomb reveal who domesticated the watermelon?
09.30 - 09.45	Susann Wicke University of Münster Nutritional specialization and host-related diversification in parasitic plants
09.45 – 10.00	Stefan Abrahamczyk University of Bonn Floral key innovations triggered the evolution of the Malagasy Impatiens (Balsaminaceae) clade
Cancelled	Harald Letsch University of Vienna Evolution of the minute seed weevils (Ceutorhynchinae, Curculionidae, Coleoptera) the impact of Earth's climate changes and host plant associations
10.15 – 10.45	Coffee break Chair: Ulrich Krohs
10.45 – 11.15	Axel Meyer University of Konstanz Agouti-related peptide 2 drives convergent evolution of stripe patterns across cichlid fish radiations
11.15 – 11.30	Thomas Schmitt Julius-Maximilians-Universität Würzburg Studying the evolution of cuticular hydrocarbons in insects: a model for a complex trait
11.30 – 11.45	Oliver Niehuis University of Freiburg Evolutionary history of the Hymenoptera

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11.45 – 12.00	Liliya Doronina University of Münster Retrotransposon-based phylogeny in the era of genomics
12.00 – 12.15	Johannes Steidle University of Hohenheim Speciation in the Hohenheim park? Ecological separation in a population of the jewel wasp Nasonia vitripennis (Hymenoptera: Pteromalidae)
12.15 - 13.30	Lunch break (self-catering)
	Chair: Jürgen Gadau
13.30 – 14.00	Katja Nowick Freie Universität Berlin Evolution of transcription factor networks in primate brains
14.00 – 14.15	Ulrich Krohs University of Münster Explaining evolution: Models go first
14.15 – 14.30	Panagiotis Provataris Zoological Research Museum Alexander Koenig, Bonn Comparative analyses suggest reduced DNA methylation levels in Holometabola
14.30 – 14.45	Robert Peuß Stowers Institute for Medical Research, Kansas City Approaching "Old Friends" with a new model: How pathogen diversity shaped the adaptation of Astyanax mexicanus to the cave
14.45 – 15.00	Camilo Barbosa Kiel University Antibiotic combination efficacy (ACE) networks in Pseudomonas aeruginosa
15.00 – 15.30	Coffee break
15.30 – 15.45	Maryam Keshavarz Max Planck Institute for Evolutionary Biology, Plön Existence of a major control locus for basic behavioral traits
15.45 – 16.00	Jürgen Gadau University of Münster The evolution of social niches in ants
16.00 – 16.15	Farewell and closing of the conference