

21st SFB 680 Seminar Day: Molecular and functional innovations in evolution

Thursday, June 11

- 14:00 Welcome Adress
- 14:15 **Ildiko Somorjai** (St. Andrews, UK)
New and old tails of amphioxus regeneration
- 15:00 **Johannes Berg** (University of Cologne)
Multiple-line inference of adaptive evolution of gene-expression in *S. pombe*
- 15:25 **Peter Heger** (University of Cologne)
The genetic basis of the Cambrian explosion: a bioinformatics approach
- 15:50 Coffee break
- 16:25 **Michael Kuhn** (TU Dresden)
Comparing tissue formation and regeneration across species using tissue specific gene expression patterns
- 17:10 **Jan Grossbach** (University of Cologne)
Detection of epistatic interactions with random forest
- 17:35 **Abdou Khila** (CNRS, Lyon, France)
Understanding adaptive evolution through combining developmental genetics with organismal life history
- 18:20 Dinner

Friday, June 12

- 9:00 **Dario Valenzano** (MPI for Biology of Ageing, Cologne)
Genetics and genomics of lifespan in the short-lived African turquoise killifish
- 9:45 **Angela Hay** (MPI for Plant Breeding Research, Cologne)
Genetic basis of petal number variation
- 10:30 Coffee break
- 11:00 **Wolfgang Werr** (University of Cologne)
The evolution of seed plant stem cell niches, a view from the homeodomain perspective
- 11:25 **Kristen Panfilio** (University of Cologne)
Initial insights from comparative genomics of draft insect genomes
- 11:50 **Ville Mustonen** (Wellcome Trust Sanger Institute)
Using time-resolved genetic data to monitor evolving populations
- 12:35 Concluding remarks
- 13:00 Finish & lunch