

International Summer School on Phenotypic Plasticity

Date: 14-18 September 2015

Venue: Greifswald University, Zoology Lab Building, Soldmannstraße 14

The DFG funded **Research Training Group RESPONSE** (Biological Responses to Novel and Changing Environments; www.uni-greifswald.de/response/) organizes a summer school on phenotypic plasticity. We are broadly interested in responses to environmental change, for which phenotypic plasticity is expected to play a pivotal role. The summer school aims at deepening the understanding of the prospects and limitations of phenotypic plasticity to buffer detrimental effects of environmental change.

The programme will include lectures given by renowned experts in the field, a young investigators' meeting providing the opportunity to present their own research project, as well as practical courses to gain hands-on experience. The latter will include a comparison of different methods to calculate phenotypic plasticity and laboratory courses on measuring phenotypic plasticity by means of geometric morphometrics and protein expression (see also next page for details).

The summer school is open to a limited number of external graduate / PhD students. If you would like to participate, please send an email including a short CV and a letter of motivation (no more than half a page) to schoenerm@uni-greifswald.de before 10th August 2015. Participation is free of charge, though we cannot cover travel expenses and accommodation.

Programme

Monday, 14 September

09:00-18:00: Young Investigators' Meeting (15 min presentations of the participants)

Tuesday, 15 September

09:00-10:00: Klaus Fischer, University of Greifswald, Germany:

Adaptive phenotypic plasticity and phenotypic plasticity as an adaptation

10:15-12:00: Robby Stoks, Katholieke Universiteit Leuven, Belgium:

Evolutionary and plastic responses of freshwater invertebrates to climate change: realized patterns and future potential

12:00-13:30: Lunch Break

13:30-15:30: Luis Gimenez & Gabriela Torres, Bangor University, Wales:

Phenotypic links in marine invertebrates: crustaceans as model systems to analyse maternal effects, developmental plasticity, and carry-over effects

16:00-18:00: Fernando Valladares, Museo Nacional de Ciencias Naturales, Spain:

Why do not all plants exhibit maximal phenotypic plasticity?

Wednesday, 16 September

09:00-18:00: Jürgen Kreyling, Sebastien Puechmaille & Fernando Valladares

Approaches to quantify phenotypic plasticity (calculations, indices)

Thursday, 17 September

09:00-18:00: Geometric Morphometrics (theory and lab)

Martin Haase, University of Greifswald, Germany

Friday, 18 September

09:00-18:00: Measuring protein expression (theory and lab)

Klaus Fischer, University of Greifswald, Germany