

## Symposium

# ***SEX MATTERS***

A symposium held at the University of Lübeck on October 5, 2009.

Organisation: Walther Traut

<http://www.bioweb.uni-luebeck.de/>

### **Topics of the symposium:**

Why does sex matter? Why is sexual reproduction conserved in higher organisms in spite of the fact that the reproductive costs are considerably higher than e.g. in parthenogenetic reproduction? The determination and regulation of sexual development. Regulation of the sex ratio in populations. The consequences of genetic sex determination for the organisation of the genome. Exploiting genetic sex determination for pest control.

### **Program:**

***Morning session: 10:00 - 13:00 h***

**Chair: Enno Hartmann, Lübeck**

**Hugh Loxdale, MPI Chemical Ecology, Jena, Germany**

'On the roads to asexual freedom: aphid clonality, lifecycle variation and rare sex'

**Thomas D'Souza, Animal Ecology and Evolution, Universität Tübingen, Germany**

'Sex versus asex versus rare sex: The evolutionary consequences of sexual reproduction using the example of planarian flatworms'

**Martin Beye, Institut für Genetik, Universität Düsseldorf, Germany**

'What can honeybees tell us about the evolution of sex determination?'

**Olaf Hiort, Klinik für Kinder- und Jugendmedizin, Universität Lübeck, Germany**

'Hormonal footprinting of human sexual development'

**Afternoon session: 15:00 - 18:00 h**

**Chair: Hugh Loxdale, Jena**

**Horst Hameister, Neu-Ulm, Germany**

'Studying vertebrate sex chromosomes reveals the ancient origin for the enrichment of brain-function genes on the mammalian X chromosome'

**Ken Sahara, Graduate School of Agriculture, Hokkaido University, Sapporo, Japan**

'Z chromosome synteny in Lepidoptera'

**Walther Traut, Institut für Biologie, Zentrum für Medizinische Struktur- und Zellbiologie, Universität Lübeck, Germany**

'Genetic content of sex chromosomes'

**Frantisek Marec, Biology Centre ASCR, Institute of Entomology, Ceske Budejovice, Czech Republic**

'Toward the development of transgenic sexing strains in the codling moth'

**Lectures and discussions will be held in lecture hall V2 (see map!)**

**Guests are welcome!**