

22nd SFB 680 Seminar Day: **Mini-symposium on “Environmental and Biotic Interactions”**

Adaptation of organisms to changing environments is thought to be a major driver of evolution. In this mini-symposium, invited and CRC-affiliated speakers examine factors influencing genetic diversity and ecological fitness across phyla. A broad range of approaches and experimental systems will be described which address the fundamental question of how evolution is shaped by environmental and biotic interactions. Please join us for what promises to be an excellent round of talks and discussion.

Monday, November 9

14:00 Welcome Address

Chair: **Jane Parker**

14:15 **Maude Baldwin** (MPI for Ornithology, Seewiesen)
The evolution of sweet taste perception in a nectar-feeding bird

15:00 **George Coupland** (MIPZ Cologne)
Divergence of annual and perennial life history in the Brassicaceae

15:45 *Coffee break*

Chair: **Juliette de Meaux**

16:15 **Levi Yant** (John Innes Centre, Norwich)
Selective sweep and interspecific gene flow upon serpentine adaptation by *Arabidopsis arenosa*

17:00 **Hartmut Arndt** (University of Cologne)
Chaos and nonlinear dynamics in real-world food webs

17:45 **Jonathan Howard** (University of Cologne and Instituto Gulbenkian de Ciência, Lisbon)
Polymorphism in a resistance system in the wild: scaling problems

18:30 **Dinner (Catered buffet)**

Tuesday, November 10

Chair: **Martin Lercher**

9:00 **Juliette de Meaux** (University of Cologne)
Signatures of polygenic adaptation in the *Arabidopsis* genus

9:45 **Stephane Hacquard** (MIPZ, Cologne)
Survival trade-offs in plant roots during colonization by closely related pathogenic and mutualistic fungi

10:30 *Coffee break*

Tuesday, November 10

Chair: ***Jonathan Howard***

11:00 **Martin Lercher** (Heinrich-Heine-University, Düsseldorf)
Metabolic network adaptation to environmental changes

11:45 **Jane Parker** (CRC, MPIPZ Cologne)
Host-pathogen evolution and local adaptation of plant disease resistance genes

12:30 **Chris Bowler** (ENS, Paris)
Tara oceans: eco-systems biology at planetary scale

13:15 Concluding remarks

13:30 ***Lunch (Light sandwich)***