

- 14:00–14:10 Welcome: Michael Lässig
- Session 1** **Chair: Maarten Koornneef**
- 14:10–14:50 **Thomas Mitchell-Olds**, Evolution of complex traits in complex environments
- 14:50–15:30 **Johanna Schmitt**, Mapping local adaptation in *Arabidopsis thaliana*
- 15:30–16:10 **Juliette de Meaux**, Evolution of microRNA824 in *Arabidopsis thaliana*
- 16:10–16:40 Coffee Break**
- 16:40–17:20 **Ralf Sommer**, The nematode *Pristionchus pacificus* as a model system for integrative studies in evolutionary biology and ecology
- 17:20–18:00 **Michael Purugganan**, Adaptation and regulation: Insights from single gene to genome-wide perspectives
- 18:00–18:40 **Britt Koskella**, Evolution of microbes and viruses in plant communities
- 19:00 **Welcome Reception** at the Institute for Genetics

- Session 2** **Chair: Eric von Elert**
- 08:30–09:10 **Miltos Tsiantis**, Towards understanding development and evolution of leaf shape
- 09:10–09:50 **Diethardt Tautz**, Tracing the genetic basis of adaptations in the house mouse
- 09:50–10:30 **Peter Keightley**, Inferring adaptive evolution in the mouse genome
- 10:30–11:00 Coffee Break**
- 11:00–11:40 **John Colbourne**, Duplicating genes allow *Daphnia* populations to thrive in toxic environments
- 11:40–12:20 **Andrew Beckerman**, The molecular ecology of species interactions
- 12:20–14:00 Lunch Break**
- Session 3** **Chair: Thomas Wiehe**
- 14:00–14:40 **Walter Salzburger**, Evolution in Darwin's dreamponds -The adaptive radiations of cichlid fishes in East Africa
- 14:40–15:20 **Hélène Morlon**, Explosive radiation of a bacterial species group
- 15:20–15:50 Coffee Break**
- 15:50–16:30 **Daniel Weinreich**, Adaptation in changing environments: Influence of changing patterns of epistasis in the TEM-1 antibiotic-resistance gene
- 16:30–17:10 **Nitin Baliga**, Environmentally structured evolution of complex biological networks
- 17:10–17:50 **Duncan Greig**, Reproductive isolation in *Saccharomyces*

Chair: Jonathan Howard

- 18:00–19:00 **Ian Thomas Baldwin**, Insect resistance for the long haul: Lessons from a native plant

Session 4 **Chair: Jonathan Howard**

- 08:30–09:10 **David Conway**, Parasite population genomic studies towards development of a blood stage malaria vaccine
- 09:10–09:50 **Michael Boots**, Ecology and epidemiology as drivers of host-parasite coevolutionary dynamics
- 09:50–10:30 **Wayne Potts**, Experimental evolution of viral fitness and virulence: satisfying the red queen
- 10:30–11:00 Coffee Break**
- 11:00–11:40 **Santiago Elena**, Uncertainties in estimating viral fitness
- 11:40–12:20 **Eddie Holmes**, Cross-species transmission and emergence of viruses
- 12:20–13:30 Lunch Break**
- 13:30–14:10 **Bryan Grenfell**, Vaccination and the dynamics of immune escape
- 14:10–14:50 **Andrew Rambaut**, Linking spatial epidemiology with antigenic and genetic evolution of human influenza virus
- 15:00** **Satellite Meeting starts**



Speakers

Links to the speakers' homepages are available on the web site:

www.genetik.uni-koeln.de/spring2012

Organizers

Eric von Elert
Jonathan Howard
Maarten Koorneef,
Michael Lässig
Thomas Wiehe

For further details see:

<http://www.genetik.uni-koeln.de/spring2012>

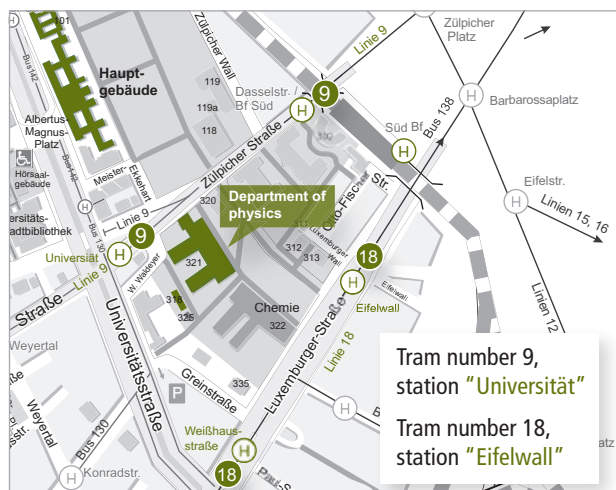
Meeting Office

Christa Stitz
phone: +49 221-470-4309
email: cstitz@uni-koeln.de

Venue

Lecture Hall | Physics Institute
Zülpicher Str. 77 | 50937 Köln

How to get to the meeting by public transport:



Certificate of attendance

Certificates of attendance are issued at the Meeting Office.

Lunch and Dinner

A number of restaurants, pubs and bistros are located up and down Zülpicher Strasse. All these places are within walking distance of 5–10 minutes.

Exhibition

Meeting attendees are invited to visit the exhibition in the foyer of the Physics Institute during the opening times of the meeting.

Sponsors

The organizers appreciate financial support for this meeting by the following institutions:



Deutsche Forschungsgemeinschaft



VERBAND DER
CHEMISCHEN INDUSTRIE e.V.
WIR GESTALTEN ZUKUNFT.



Fritz Thyssen Stiftung
für Wissenschaftsförderung

We thank the following companies for generous financial support:

4titude Deutschland Ltd	New England Biolabs GmbH
Affimetrix UK Ltd.	Nikon GmbH
Amplifa Labortechnik GmbH	Royal Society Publishing
Beckman Coulter GmbH	SERVA Electrophoresis GmbH
Biomol GmbH	Source BioScience
Biozol Diagnostica Vertrieb GmbH	Takara Bio Europe SAS
Paul Craze, Evolution and Ecology	Thermo Scientific
Eurofins MWG GmbH	ZYMO RESEARCH Europe GmbH

We thank Marc Petrasch (info@m-petrasch.de) for organizing the industrial exhibition.

Imprint:

Editor: SFB 680, Institute of Physics, Zülpicher Str. 77, 50937 Cologne
Photography: Henry Rousseau, *The Flamingoes*, dpa Picture-Alliance GmbH
Design: Martina Markus, University of Cologne, February 2012

MOLECULAR ECOLOGY AND EVOLUTION

AN INTERNATIONAL SYMPOSIUM OF SFB 680

SATELLITE MEETING | FEBRUARY 24–25
VIRAL EVOLUTION: FROM GENETICS
TO EPIDEMICS

