



KIEL
EVOLUTION
CENTER



EVO
LUNG

Dear Colleagues,

We cordially invite you to our **Symposium on Pathogen Evolution on 20 – 21 July 2017!**

Pathogens show an enormous potential to adapt to their host environment. This includes adaptation to the host immune system and also the used repertoire of antibiotic drugs. Prominent examples are the evolution of distinct infection strategies of *Mycobacterium* pathogens, the causative agent of tuberculosis, or the current spread of multi-drug resistance among infectious bacteria in clinical environments due to either rapid *de novo* evolution or horizontal acquisition of resistance mechanisms. Such rapid evolutionary dynamics are a particular challenge for treatment efficacy, yet they are usually ignored during development of novel therapy.

This symposium is dedicated to a better understanding of the evolutionary mechanisms and consequences of pathogen adaptation. It is hosted by the Kiel Evolution Center, the International Max Planck Research School for Evolutionary Biology, and the Leibniz Science Campus 'Evolutionary Medicine of the Lung' (EvoLUNG).

We are particularly happy to be joined by **Sebastien Gagneux (Swiss TPH, Basel)**, **Morten Sommer (DTU, Lyngby)**, **Jens Rolff (FU Berlin)**, and **Michael Bottery (University of York)**, who will in concert with our local experts showcase an exciting range of distinct yet complementary research approaches, such as evolution experiments; genome characterizations of pathogens in human, animal, and plant populations; functional genetic analyses; or mathematical modeling. In addition, we warmly invite PhD students from the IMPRS Plön and EvoLUNG to present their work in either oral or poster presentations.

If you'd like to join us, please **register at <http://www.kec.uni-kiel.de> by 28 April 2017!**

With best wishes,

The Organizing Committee

Leif Tüffers, Roderich Römhild, Niels Mahrt, Camilo Barbosa, Martina Kapitza, Ashley Norris, and Philipp Dirksen

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