

**08 S 81 BRIDGE Colloquium on „Functional Molecular Infection Epidemiology“**  
**Start: 13.04.2011 End: 13.07.2011**  
**Location: Lecture hall, Institute of Microbiology and Epizootics,**  
**Philippstr. 13 (Haus 4), 10115 Berlin**

**Functional Molecular Infection Epidemiology (FMIE)** is an emerging area of medicine that entails the study of pathogen genes and genomes in the context of their functional association with the host niches (adhesion, invasion, adaptation) and the complex interactions they trigger within the host immune system (cell signalling, apoptosis) to culminate in varied outcomes of the infection. This can also be defined as the correlation of genetic variations in a pathogen or its respective host with a unique function that is important for disease severity, disease progression, or host susceptibility to a particular pathogen. Functional epidemiology implies not only descriptive host-pathogen genomic associations, but rather the interplay between pathogen and host genomic variations to functionally demonstrate the role of the genetic variations during infection. Therefore, a special colloquium based on this theme will be initiated in Berlin within the framework of the International Research Training Group (GRK1673 “BRIDGE”) in the summer semester 2011, where invited scientists, both national and international, will give lectures and hold discussions with graduate students based on their research including pathogens of interest that still cause a problem to world public health planning. This colloquium is open to all, but particularly to doctoral students of DRS, GRK1673, SFB852 and ZIBI graduate school.