

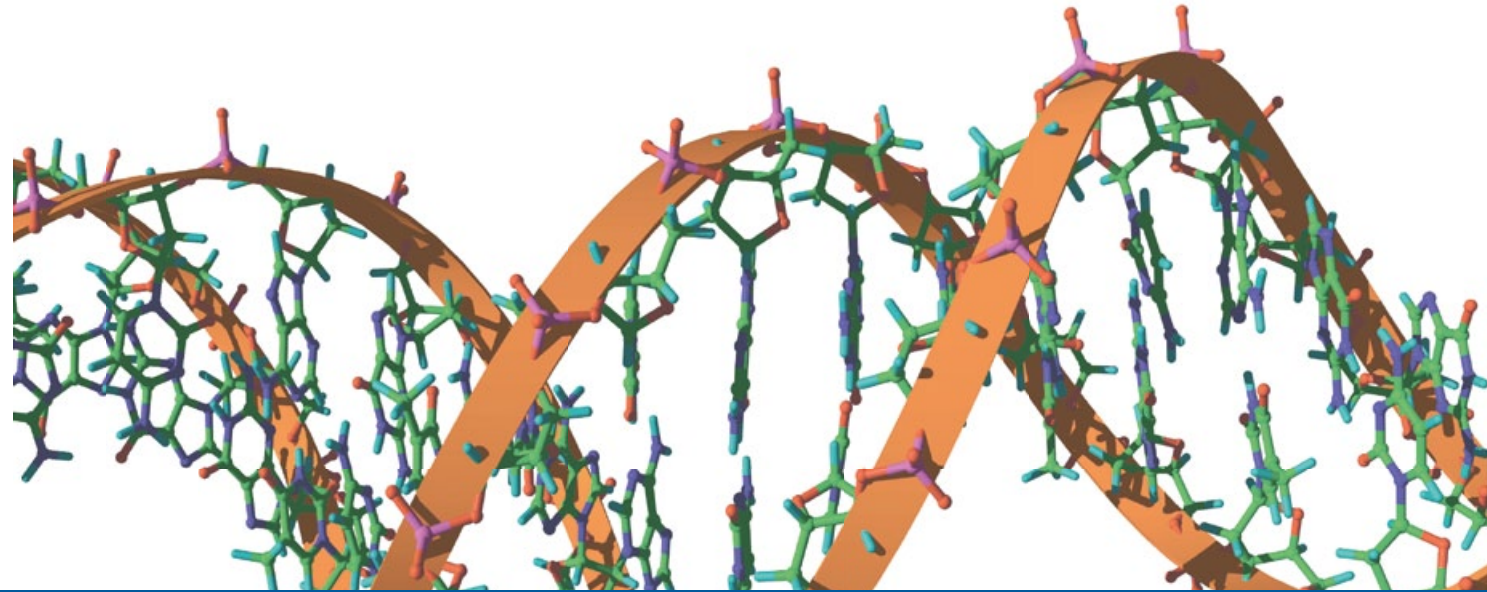
## Registration

The number of participants is restricted to 12.  
Please register via email: [phd-epidemiology@helmholtz-hzi.de](mailto:phd-epidemiology@helmholtz-hzi.de) (Subject: Genetic epidemiology of infectious diseases).

### Deadline for registration: 13th Nov 2016

In case of non-participation, we ask you to inform us immediately so that another student can fill the gap.

University students outside Hannover-Braunschweig can apply for reimbursement of travel expenses (max. 250€ each for max. of 4 students). Please attach a scan of your current matriculation card.



Helmholtz-Zentrum für Infektionsforschung GmbH  
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## Genetic Epidemiology of Infectious Diseases – a Hands-on Workshop

30 November 2016 – 02 December 2016

# Genetic Epidemiology of Infectious Diseases – a Hands-on Workshop

The workshop provides an overview of genetic epidemiology in the context of infectious diseases. Topics covered in the workshop include biological principles of genetics and statistical basics with a special focus on hands-on experience, i.e. sample size estimation, statistical analysis of genetic association studies and epidemiological interpretation of results. Participation in this workshop will enable students to plan and conduct genetic association studies by applying specialized software packages such as plink.

## Learning objectives

- Understand fundamental concepts of genetic epidemiology including biological and statistical aspects
- Comprehend the role of genetics in infectious disease epidemiology
- Understand methodologies applied in epidemiologic genetic studies
- Conduct sample size calculations for genetic association studies
- Conduct genetic association studies based on a single nucleotide polymorphism (SNP) analysis and a genome-wide association approach
- Understand current limitations of genetic studies in infectious disease epidemiology

## Location

Helmholtz Centre for Infection Research  
Inhoffenstr. 7  
38124 Braunschweig  
www.helmholtz-hzi.de

## Lecturer

Kathrin Schuldt, PhD, Robert Koch-Institute

## Scientific Coordination

Dr. med. Stefanie Castell, MSc

## Coordination

Helga Brink  
Phone 0531-6181-3105  
phd-epidemiology@helmholtz-hzi.de  
(Subject: Genetic epidemiology of infectious diseases)

## Tuition

There is no tuition fee.

## Language

The course will be held in English.

## Teaching units

19 TU

## Target audience

A mixed and interdisciplinary audience is welcome, including medical doctors, biologists, and epidemiologists.

## Required knowledge

Basic knowledge of genetics, epidemiology or infectious diseases is required. Knowledge of statistical basics, STATA and R is useful but not necessary.

