

## ABOUT THE WINTER SCHOOL

The International Winter School “Clinical and Genetic Epidemiology – Strategies to Drive Personalized Medicine” is a training course offered by the Institute for Medical Information Processing, Biometry, and Epidemiology.

Enrolment is open to experts and students in the fields of epidemiology, biostatistics, bioinformatics, medicine and health sciences (Ph.D., MSc and MPH)

### Prerequisites

This course shows new paradigms to understand and treat complex diseases by combining genetics, biology, medicine, and statistics. Therefore, advanced knowledge in at least two of these disciplines is required.

### Tuition fees

Commercial sector - EUR 1000

Academic sector – EUR 600

Students – EUR 400

The tuition includes instruction, course materials, and use of computing centre facilities.

Early bird registration by January 21st, 2019 receives a 20% discount.

LMU students can apply for a partial fee waiver.

### Application

The number of participants is limited to 20 persons. The application deadline is February 18th, 2019.

## CONTACT US

### PROGRAM DIRECTORS

**Prof. Dr. Ulrich Mansmann**  
Institute for Medical Information  
Processing, Biometry, and  
Epidemiology  
(IBE)  
University of Munich

**Prof. Dr. Konstantin Strauch**  
Institute of Genetic Epidemiology  
Helmholtz Zentrum München  
University of Munich

### COORDINATING STAFF

Magda Baer Radermacher  
Monika Darchinger  
phd@ibe.med.uni-muenchen.de

LMU

LUDWIG-  
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UNIVERSITÄT  
MÜNCHEN



# CLINICAL & GENETIC EPIDEMIOLOGY

Winter School

March 18-29, 2019

*Strategies to Drive Personalized  
Medicine*

Institute for Medical Information Processing,  
Biometry, and Epidemiology

University of Munich

## ABOUT CLINICAL AND GENETIC EPIDEMIOLOGY

Revolutionary findings in genomic research constantly provide new insights into disease susceptibility genes. These new discoveries provide the basis for further advances in the field of personalized medicine, which need to be translated into clinical practice. However, the translation from genetic findings into clinical pathways remains difficult.

In this course you will get acquainted with new paradigms in clinical and genetic epidemiology to understand complex diseases and treatment strategies as well as the use and misuse of biomarkers.

### TOPICS INCLUDE:

- CANCER GENOMICS
- PREDICTIVE MEDICINE
- PREDICTION MODELS
- METABOLOMICS
- BIOMARKER DRIVEN CLINICAL TRAILS
- BASIC NGS DATA PROCESSING EXERCISE
- ETHICAL ASPECTS OF CLINICAL & GENETIC EPI
- CLINICAL STUDIES AND TRANSLATIONAL MEDICINE
- STATISTICS FOR HIGH-DIMENSIONAL DATA
- PHARMACOGENOMICS
- HEALTH ECONOMICS
- DATA SHARING

## LECTURERS

**Prof. Dr. HDR Anne-Laure Boulesteix**  
IBE, University of Munich

**Prof. Dr. Ingolf Cascorbi**  
Institute of Clinical and Experimental Pharmacology,  
Christian Albrechts University Kiel

**Dr. Christine Fischer**  
Institute of Human Genetics, University Hospital  
Heidelberg

**Dr. Christian Gieger**  
Research Unit of Molecular Epidemiology,  
Institute of Epidemiology, Helmholtz Zentrum München

**Prof. Dr. Stefan Kääh**  
Department of Medicine I, University of Munich

**Dr. Gabi Kastenmüller**  
Institute of Bioinformatics and Systems Biology,  
Helmholtz Zentrum München

**Prof. Dr. Ulrich Mansmann**  
IBE, University of Munich

**Prof. Dr. Hans-Werner Mewes**  
Department of Genome Oriented Bioinformatics,  
TUM Weihenstephan  
Institute of Bioinformatics and Systems Biology,  
Helmholtz Zentrum München

**Dr. Martina Müller-Nurasyid**  
Institute of Genetic Epidemiology, Helmholtz Zentrum München  
Department of Medicine I, University of Munich

**Aarif Mohamed Nazeer Batcha**  
IBE, University of Munich

**Dr. Anne Quante**  
Department of Obstetrics and Gynecology, TUM

**Dr. Larissa Schwarzkopf**  
Institute of Health Economics and Health Care  
Management, Helmholtz Zentrum München

**Brigitte Strahwald**  
IBE, University of Munich  
cognomedic GmbH, Erlangen

**Prof. Dr. Konstantin Strauch**  
IBE, University of Munich  
Institute of Genetic Epidemiology, Helmholtz Zentrum München



### TEACHING METHODS

The course contains introductory lectures, computer classes, seminars, individual consultation and assignments.

### LANGUAGE

The course will be taught in English.

### CERTIFICATE

All participants who successfully complete the programme will be awarded a Certificate of Participation issued by the IBE, University of Munich. Students can get a certificate of 3 ECTS after completing an assigned presentation.

