

## Information

### Enrolment is open for

- Professionals in health departments, other health agencies and industry, and health professionals like physicians, microbiologists and epidemiologists
- Public Health experts and Public Health students including PhD, MSc and BSc students

### Prerequisites

Basic knowledge in epidemiology.

### Teaching methods

The course contains lectures, computer classes, individual consultation and two assignments. Teaching language is English.

### Tuition

The tuition of enrolment for the International Summer School is 500/270 Euro. Postgraduate or doctoral students including the participants from developing countries pay the lower fee. The tuition includes instruction, course materials, and the use of computer centre facilities.

### Application

The number of participants is restricted to 30 persons. You are encouraged to bindingly apply as soon as possible including payment of the tuition fee.

### Location

University of Bielefeld

School of Public Health

P.O. Box 10 01 31, Universitätsstr. 25

D-33501 Bielefeld, Germany

## Contact

### Programme Directors

#### Prof. Dr. Alexander Krämer

Professor and Head  
Department of Public Health Medicine  
School of Public Health  
University of Bielefeld  
Germany

#### Dr. Luise Prüfer-Krämer

Institute for Innovation Transfer at the University of  
Bielefeld GmbH (IIT)  
Germany

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### Coordination

#### Mr. Florian Fischer

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Phone: + 49 (0) 521 106 6889

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Application form and further information:

<http://www.uni-bielefeld.de/gesundhw/aq2/summerschoolide/>



## Infectious Disease Epidemiology

Concepts, Methods,  
Mathematical Models, and  
Public Health

### 14<sup>th</sup> International Summer School

September 3-7, 2012

University of Bielefeld



The "International Summer School 2012" is an advanced training course of the Institute for Innovation Transfer at the University of Bielefeld GmbH (IIT) in cooperation with the Faculty of Health Sciences, University of Bielefeld.

Academic Advisor: Prof. Dr. Alexander Krämer  
Supervisory Board: Prof. Dr. h.c. Helmut Steiner (Chairman)

Managing Director: Dipl.-Soz. Ludwig Pleus  
Company Registry HRB 35308, Amtsgericht Bielefeld,  
VAT-Id. DE 176 214836

## Objectives

The International Summer School Programme Infectious Disease Epidemiology (IDE) focusses on statistical and epidemiological methods for controlling predominant health problems of the 21<sup>st</sup> century. Among the structural determinants of infectious diseases are population growth, mobility, urbanization, poverty, climate and environmental change and insufficient health care systems, which will deteriorate further with the financial crisis, political unrest and unforeseen weather events, in many parts of the world. The course will teach specific statistical methods in order to detect, and adequately respond to global and local health problems, e.g. in megacities.

The IDE course will provide a deep understanding of the special IDE concepts and methods. The participants will be enabled to manage an outbreak, to correctly create and interpret surveillance data, and to perform simple mathematical modelling for the spread of IDs as well as to use basic health economic evaluations. In addition they will know how to apply the learned concepts and methods to actual global and local public health challenges.

## Certificate

All participants who successfully complete the programme will be awarded a certificate issued by the School of Public Health, University of Bielefeld, to be used for further qualification in infectious diseases, epidemiology or public health. In addition a certificate for 3 ECTS points is issued on demand.

The IDE programme is certified by the Ärztekammer Westfalen-Lippe for continuing education.

## Programme

- Modern epidemiological methods for infectious diseases
- Outbreak investigation and surveillance
- SPSS for data analysis and basic health statistics
- Mathematical modelling
- Health economical evaluations
- Vaccinations
- Impact of climate and environmental change on infectious diseases
- STIs including HIV/AIDS and viral hepatitis
- Pandemic influenza A (H1/N1)

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## Announcement

Please note that the International Summer School

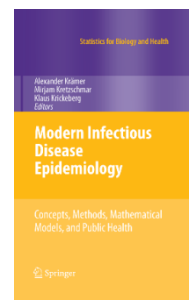
### **Spatial-epidemiological modelling in Megacities: Statistical and spatial analysis for urban health under a changing climate**

September 3-7, 2012

<http://www.uni-bielefeld.de/gesundhw/ag2/summerschoolmc/>

will be offered in parallel as an alternative.

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Modern Infectious Disease Epidemiology – Concepts, Methods, Mathematical Models, and Public Health

Krämer, A; Kretzschmar, M; Krickeberg, K (eds.)  
Springer, 2010, 443 p.  
ISBN 978-0-387-93834-9

## List of lecturers

**Prof. Dr. Alexander Krämer**  
**Dr. Mobarak Hossain Khan**  
**Tanja Wörmann, MPH**

Department of Public Health Medicine  
School of Public Health  
University of Bielefeld, Germany

**Dr. Thomas Finkbeiner**

Centers for Disease Control and Prevention  
Dar-es-Salam, Tanzania

**Stefanie Helmer, M. Sc.**

Bremen Institute for Prevention Research and Social Medicine (BIPS), Germany

**Prof. Dr. Thomas Krafft**

Maastricht University, The Netherlands

**Prof. Dr. Gérard Krause**

Robert Koch Institute, Berlin, Germany

**Dr. Mirjam Kretzschmar**

University Medical Center, Utrecht and Center for Infectious Disease Control, RIVM, The Netherlands

**Prof. Dr. Jürgen Kropp**

Potsdam Institute for Climate Impact Research  
Potsdam, Germany

**Prof. Dr. Tobia Lakes**

Humboldt-Universität zu Berlin, Germany

**PD Dr. Rafael Mikolajczyk**

Bremen Institute for Prevention Research and Social Medicine (BIPS), Germany

**Prof. Dr. Maarten Postma**

University of Groningen, The Netherlands

**Dr. Luise Prüfer-Krämer**

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**Dr. Dr. Timo Ulrichs**

Koch-Metchnikov Forum, Berlin, Germany