

## Content Overview

- The context of tropical medicine and international health
- Public health approach to control, community integration
- Biology and ecology of schistosomes, life cycles and the reality in endemic areas
- Microscopy: schistosomes and selected helminths
- Examples of schistosomiasis control programs
- Clinical schistosomiasis
- Schistosome immunology, “beneficial” worms, vaccines
- Serological and parasitological diagnosis in theory and in practice of peripheral health stations
- Drugs, treatment and drug targets
- International policies for research and action
- International policies aiming at biomedical control strategies
- Parasite proteins: molecular modelling, functional molecules
- Plenary Discussions

### Optional

- Individual coaching of participants by the experts

## Learning Objectives

The overall aim of the course is to teach expertise from various disciplines targeting eventually at control of schistosomiasis (*Schistosoma mansoni*, *S. haematobium* and *S. japonicum*).

To achieve this, internationally renowned scientists have agreed to teach and to partly participate also beyond their formal teaching time.

Specifically, this course will place the current biomedical approaches of control into the public health frame and evaluate the benefits of these approaches for the target populations and sustainability of programmes. Clinical schistosomiasis will be discussed with a view on patients in endemic areas.

This implies the bridge from biomedical technology to sustainable community activities, from research to application.

## Learning Objectives cont.

The course intends to synthesise recommendations for future action and will offer to the participants a voluntary and active role in this process.

At the end of the course, participants should be able to:

- Appraise vector biology and schistosome immunology in the context of transmission
- Perform serologic tests
- Critically discuss selected control projects
- Critically evaluate the needs and strategies for integrated schistosomiasis control, including drug-based programmes
- Compare the advantages and limitations of biomedical control tools (serology, chemotherapy, ultrasound examination) versus community-based interventions
- Judge on selected issues of current biomedical research
- Critically discuss with internationally leading scientists

## Learning Methods

The course will be taught by experts’ seminars, discussions and practical work.

Interaction between teachers and participants will follow the model of numerous previous schistosomiasis symposia, organised by the course coordinator and several of the lecturers: during lunch and dinner (not included in course fee), which are offered to be taken together by everyone, teachers will be available for individual requests of participants. Participants are strongly encouraged to make use of these offers.

Evening activities are offered on a voluntary basis and upon request, e.g. research discussions, individual coaching.

## Confirmed Lecturers 2011 (alphabetical):

H.J. Diesfeld (Starnberg, G), M.J. Doenhoff (Nottingham, UK), C. Grevelding (Giessen, G), M.A. Idris (Muscat, Oman), T. Junghanss (Heidelberg, G), M. Kennedy (Glasgow, UK), Y.L. Li (Wuhan, China), J. Richter (Düsseldorf, D), A. Ruppel (Heidelberg, G), S. Schad (Heidelberg, G), J. Utzinger (Basel, CH), J. Wacker (Bruchsal, G)

## Assessment Procedures

Course participants are expected to attend teaching Essay: 4000 words (submission within 2 weeks after the course.)

The topics for this individual work will be identified within the first 2 days of the course, taking into account the personal professional background of students.

## Duration / Accreditation

1 week / 45 hours + 15 after class for assessment  
Full time attendance required.  
Plus optional days.

2 ECTS (tropEd, accreditation in process)  
Optional days not counting towards ECTS

## Target Group / Prerequisites

Public health professionals, project planners and managers, paramedical staff, social scientists, tropEd students, etc. The course is held in English. Fluent English (Reading, Speaking and Writing) is required for the course.

## Course Fee

tropEd students:  
5 days € 500,- / +optional days € 650,-

General Attendance:  
5 days € 750,- / +optional days € 900,-

Unfortunately, the Institute cannot offer any scholarships. A non-refundable registration fee of € 200 is included in the course fee. The course fee covers coursework, printed materials, coffee breaks and a pass for the Heidelberg public transportation system, but it does not include accommodation, insurance or other personal living costs during the stay.

## Registration

Please register as soon as possible as the number of participants is limited. First come, first serve.

Registrations are as such possible as long as seats are still available, but please keep in mind the time you need for travel and visa arrangements.

## Contact

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## Course Coordinator

Prof. Andreas Ruppel

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## Short Courses Programme Coordinator tropEd Coordinator

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## Master of Science in International Health

The MSc. programme begins with a three month Core Module that introduces students to the field of International Health. Students then enter either the fixed set of advanced modules at Heidelberg or choose among a wide range of courses within the tropEd network. A Masters Thesis must also be completed for the MSc. in International Health degree. For more information please contact [MSc\\_IH@uni-heidelberg.de](mailto:MSc_IH@uni-heidelberg.de).

## tropEd

TropEd is a network of over 30 institutions for higher education in international Health. It offers a flexible modular structure and the European-wide recognition of a Masters Degree in International Health. ECTS credits towards the Masters in International Health will be provided for the accredited modules offered at Heidelberg. More information on at [www.tropEd.org](http://www.tropEd.org).

## Short Course in International Health tropEd Advanced Modules 2011

**Reproductive Health Services and HIV/AIDS:  
New Evidence and Strategy**  
January 24 – February 4, 2011

**Financing Health Care – Principles of Insurance**  
February 7 - 18, 2011

**Disease Control: Strategies and Policies**  
February 21 – March 4, 2011

**Leadership and Change Management**  
March 7 – 18, 2011

**Improving the Quality of Healthcare Services**  
March 21 – April 1, 2011

**Consultancy Skills in International Cooperation in Health  
Evaluation of Health Facilities, Projects & Programmes**  
April 4 – 15, 2011  
September 5 – 16, 2011

**Public Health and Disasters**  
May 2 – 13, 2011

**Proposal Writing as a Consultancy Skill**  
May 16 – 20, 2011

**Health and Climate Change:  
Impact and Adaptation Strategies**  
May 23 – June 3, 2011

**Mixed Methods in International Health Research**  
June 20 – July 1, 2011

**Quality Management in International Health**  
July 4 – 15, 2011

**Facility Management**  
July 18 – 29, 2011

**Health and Human Rights**  
September 19 – 30, 2011

**Shistosomiasis Control:  
An Interdisciplinary Approach**  
October 10 – 14, 2011  
(opt. October 9, 15, 16)



UniversityHospital Heidelberg

Institute of  
Public Health

## Schistosomiasis Control: An Interdisciplinary Approach

October 10 – 14, 2011  
*(plus optional days -  
Oct. 9(eve), 15 + 16, 2011)*

