



#### Contributing institutes

University of Hohenheim – Faculty of Agriculture and Faculty of Natural Sciences:

- Animal Nutrition
- Biological Chemistry and Nutrition
- Environmental and Animal Hygiene
- Genetics, Dept. General Virology
- Microbiology
- Food Microbiology
- Phytomedicine
- Plant Physiology and Biotechnology
- Zoology, Depts. Animal Ecology, Parasitology

University of Stuttgart – Faculty of Management, Economics and Social Sciences

- Food Science, Economy and Politics



For further information please contact our website:  
<http://euroleague-study.org/en/programs/> or  
<https://euroleague.uni-hohenheim.de/>  
or the ELLS coordinator in Hohenheim:

Dr. Gabriele Klumpp

Euroleague for Life Sciences (780)

University of Hohenheim

Wollgrasweg 43

D-70593 Stuttgart

Germany

Phone: +49 711 459 24012

Fax: +49 711 459 24347

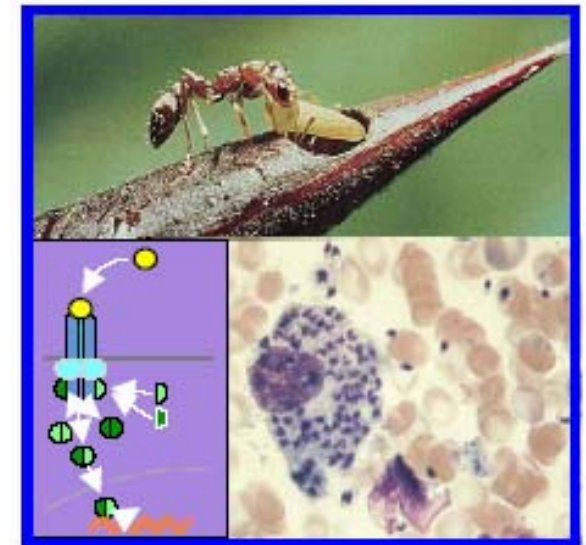
E-Mail : [gabriele.klumpp@uni-hohenheim.de](mailto:gabriele.klumpp@uni-hohenheim.de)

Organised by the

**Euroleague**  
FOR LIFE SCIENCES

## Pathogens, Parasites and their Hosts

Ecology, Molecular Interactions and Evolution of Animals, Plants and their Antagonists



Summer School  
19 July – 6 August, 2010

**Euroleague**  
FOR LIFE SCIENCES

UNIVERSITÄT HOHENHEIM





**Pathogen-host interactions** are a major focus in the work of several institutes at the University of Hohenheim. In a joint initiative of the Faculties of Agricultural Sciences and Natural Sciences, host-pathogen interactions will be the subject of a 3 weeks summer school in July/August 2010.

The summer school will introduce into the ecology, molecular interactions, and evolution of pathogen-host relationships with respect to

**animals,  
plants,  
and microorganisms,**

These topics will be addressed in a series of **lectures,  
laboratory experiments,  
and excursions**

Following an integrative approach, the aim of the summer school will be a comparison of different biological systems, showing both striking similarities and surprising peculiarities.



## Key words:

### How pathogens meet their hosts:

- Behavioural mechanisms
- Chemical and physical recognition
- Life cycles and zoonoses
- Mechanisms of invasion

### Host resistance:

- Host resistance in plants and animals
- Secondary plant compounds
- Innate immunity
- Immunology of inflammation

### How to overcome host defence:

- Immune suppression
- Antigenic variation
- Molecular mimicry
- Toxins

### Coevolution:

- Adaptation between host and pathogen
- Breeding of resistant plants and animals
- Resistance genes in plants and animals
- Multitrophic level interactions

### Organising Research Networks



**Participants:** The course is aimed at students of biology and agricultural sciences or related subjects who have already passed university elementary courses of at least 2 years.

The maximum number of participants is 20.

**Credits:** 6 ECTS

**Location:** University of Hohenheim, 70599 Stuttgart, Germany

**Organiser:** Euroleague for Life Sciences, Office of Hohenheim

**Costs:** 300 EURO for housing and a ticket for public transport. Travel expenses to Hohenheim and food are **not** included.

**Call for applications:** Please use application forms provided under <https://euroleague.uni-hohenheim.de/sommer.html>.

**Deadline for application:** May 15, 2010 or until places are filled.

