



Contributing institutes:

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

The participating institutes are members of the Faculty of Agriculture and of the Faculty of Natural Sciences at the University of Hohenheim



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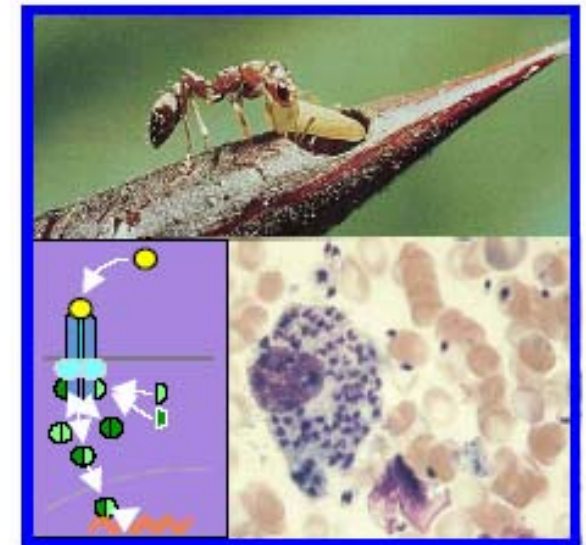
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Organised by the

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 2009.

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



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>. The deadline for application is April 30, 2010 or until places are filled.

