



Contributing institutes:

Animal Husbandry and Breeding

Animal Nutrition

Biological Chemistry and Nutrition

Environmental and Animal Hygiene

Genetics, Dept. General Virology

Microbiology

Phytomedicine, Dept. Applied Entomology

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:

www.uni-hohenheim.de/euroleague

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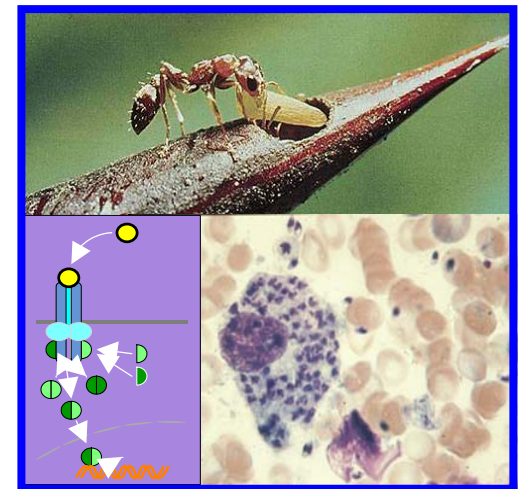
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Organized by the Euro League for Life Sciences



Pathogens, Parasites and their Hosts:

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



Summer School
July 17 – August 4, 2006

University of 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 July 17-August 4, 2006.

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
- Secondary plant compounds
- Innate immunity
- Immunology of inflammation

How to overcome host defence:

- Immune suppression
- Antigenic variation
- Molecular mimikry
- 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 maximal number of participants is 20.

Location: University of Hohenheim, 70599 Stuttgart, Germany

Organizer: Euro League for Life Sciences, Office of Hohenheim

Tuition fee: 250 EURO for housing. Travel expenses and food are *not* included.

Call for applications: Please use application forms provided under <http://www.euroleague-study.org/>. The deadline for application is March 30, 2006 or until places are filled.

