



Contributing institutes:

Animal Husbandry and Breeding
Animal Nutrition
Biological Chemistry and Nutrition
Environmental and Animal Hygiene
Genetics, Dept. General Virology
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:
www.euroleague-study.org

or the ELLS Secretariat:

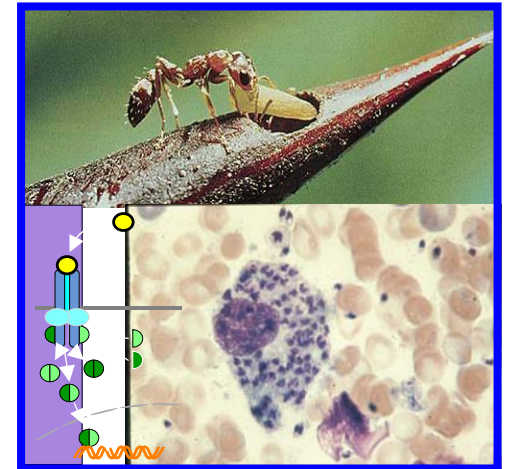
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Organized by the Euroleague for Life Sciences



Pathogens, Parasites and their Hosts

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



Summer School
July 18 – August 5, 2005



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 18-August 5, 2005.

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 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: Euroleague for Life Sciences, Office of Hohenheim

Costs: 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 31, 2005 or until places are filled.

