

Contributing institutes:

Animal Husbandry and Breeding

Animal Nutrition

Animal Production in the Tropics and Subtropics

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

Life Science Center

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



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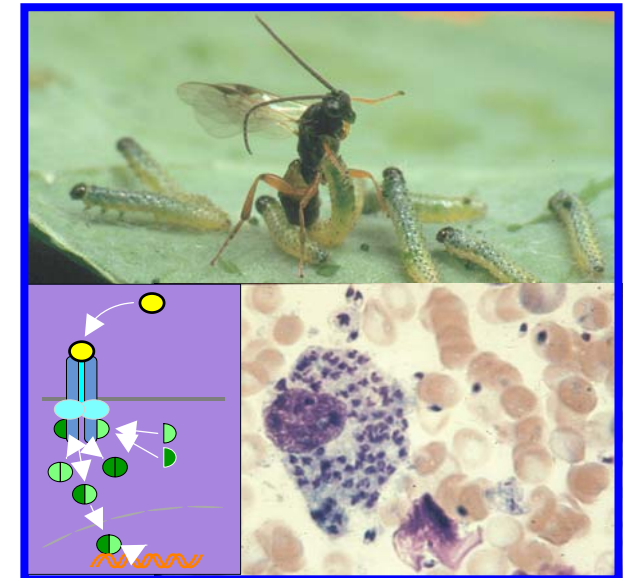
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Pathogens, Parasites and their Hosts -

Ecology, molecular interactions and evolution



Summer School July 19 – August 6, 2004

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 week summer school July 19 - August 6, 2004.

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

- animals,**
- plants,**
- and microorganisms,**

These topics will be addressed in

- 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
- Inflammation

How to overcome host defence

- Immune suppression
- Antigenic variation
- Molecular mimicry
- Toxins

Coevolution

- Adaptation between host and pathogen
- Resistance genes in plants and animals
- Breeding for resistance 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, Stuttgart, Germany

Organiser: Euro League for Life Sciences, Office of Hohenheim

Tuition fee: 250 EURO (incl. housing) or 50 EURO (excl. housing) for all expenses that are directly related to the summer school. Travel expenses and food are *not* included. The possibility to obtain scholarships for the summer school should be discussed with the International Relation Officers of the local universities.

Credits: 6 ECTS

Language: English

Call for applications: Please use application forms provided under <http://www.euroleague-study.org/>. The deadline for application is April 30, 2004 or until places are filled.

For further information please contact our website: www.uni-hohenheim.de/euroleague

