COURSE DETAIL

BASIC PARASITOLOGY

Country
Denmark

Host Institution
University of Copenhagen

Program(s)
University of Copenhagen

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Biological Sciences

UCEAP Course Number
137

UCEAP Course Suffix

UCEAP Official Title
BASIC PARASITOLOGY

UCEAP Transcript Title
BASIC PARASITOLOGY

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description
The course gives an introduction to the biology of parasitism, and the interactions between parasites and their hosts. The focus is on fundamental concepts in parasitology, for example the definition of parasitism as a life form, adaptations to parasitism, host exploitation strategies, and fitness effects of parasitism on host individuals and populations. Those concepts are supported by hands-on experimental work on host-parasite models in the laboratory in combination with research-based lectures. In addition, examples of the distribution and importance of parasites in wildlife populations are provided, and the potential commercial applications of using parasite models are explored and discussed. The aim of the course is to provide students with a broad introduction to animal parasites and how they interact with their hosts. Students gain practical experience working with experimental host-parasite models in the laboratory. Morphological adaptations to parasitism and variation in life-cycles are presented. Factors affecting host and parasite fitness, and parasite distribution within and among hosts are demonstrated experimentally, and their applications in real-life situations are discussed. A concrete example of how knowledge on fundamental parasite biology was turned into the production of a medicinal product is presented.

Language(s) of Instruction
English

Host Institution Course Number
NPLK15000U

Host Institution Course Title
BASIC PARASITOLOGY

Host Institution Course Details

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Plant and Environmental Sciences

Course Last Reviewed

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