

Module number	EM 8 (start in WS 2012/13)
Module name	Functional genomics of plant pathogens and plant animal pests
Program of Study	MSc elective module
Offered	Once a year, winter semester
Module coordinator	Prof. Dr. Daguang Cai
Module advisor	Prof. Dr. Daguang Cai
Courses and teachers	Lecture: Genome Analysis of Phytopathogens (D. Cai by Dr. Tim Thureau) Practical course: Functional Genomics in Phytopathogen Research (D. Cai by Dr. Tim Thureau)
Prerequisites	Advanced understanding of Phytopathology, Genetics and gene techniques. Basic knowledge of structure and function of genome and basic tools for genome analysis.
Language	English
Module capacity on campus students	20, Registration starts one week before lecture beginning at the secretary' s office of the Institute for Phytopathology, CAU, Hermann-Rodewald-Str. 9, 3 th floor, room 321
Module capacity off campus students	5
Course types (classroom/total workload)	Lecture (30 h /90 h), practical course (30 h/90 h)
Schedule	Weekly and block course
Grading	Oral exam: 75% Thureau Practical report: 25% Thureau
ID-card	Required for exams
European Credit Points	6
Module Objectives	Advanced knowledge of functional genomics of plant pathogens and plant animal pests and its application for plant protection
Contents	<ul style="list-style-type: none"> ▪ Genome of plant pathogens and plant animal pests ▪ Functional genome analysis ▪ Sequencing and sequence annotation ▪ Databases and database-based genome analysis ▪ Genome knowledge-based molecular diagnosis ▪ Characterization of a/virulence factors ▪ Molecular plant-parasite interaction
Taught skills	Professional expertise and technical skills, key qualifications
Course materials	Printed content outlines, lecture-related review articles and textbooks. Course materials are available online.