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| Module number | EM7 |
| Module name | Biocontrol Biotechnology |
| Program of Study | MSc Elective Module |
| Offered | Every year in WS |
| Module coordinator | Prof. Dr. Ralf-Udo Ehlers |
| Module advisor | Prof. Dr. Ralf-Udo Ehlers |
| Courses and teachers | <p>Lectures: Biology of Antagonists (R.-U. Ehlers) Biotechnology in Biological Control (R.-U. Ehlers)</p> <p>Practical Course: Projects in Biological Control (R.-U. Ehlers)</p> |
| Prerequisites | Fundamental knowledge in plant protection, pests and diseases in agriculture and horticulture, zoology, microbiology |
| Language | English |
| Module capacity on campus students | 20 |
| Module capacity off campus students | 5 |
| Course types (classroom/ total workload) | Lecture (15h/45h), lecture (15h/45h), practical course (30 h/90h) |
| Schedule | weekly |
| Grading | Oral exam: 75% (R.-U. Ehlers) Practical report: 25% (R.-U. Ehlers) |
| ID-card | Required for exams |
| European Credit Points | 6 |
| Module objectives | Knowledge in principles of biological control and use in agri- and horticulture, biology and genetics of microbial and invertebrate antagonists, biotechnology of production and storage, use of secondary metabolites and genes for plant protection, practical skills in biocontrol biotechnology |
| Contents | <ul style="list-style-type: none"> ▪ Microbial and macrobial biological biocontrol agents, biology, genetics, mass production, formulation, application, ecology, use of genes from biocontrol agents in transgenic crops, safety, registration ▪ Laboratory work in classic biotechnology, small research project in biological control |
| Taught skills | Professional and methodical responsibility, applying expertise |
| Course materials | In vitro cultures, liquid cultures, living biocontrol agent material |