

Program of Studies:	Master Program Bioinformatics
Name of the module:	Molecular Biotechnology 2
Abbreviation:	B-M-1
Subtitle:	
Modules:	Lecture: Molecular Biotechnology 2
Semester:	2nd Semester, Summer Semester
Responsible lecturer:	Prof. Dr. Rita Bernhardt
Lecturer:	Prof. Dr. Rita Bernhardt, Dr. Frank Hannemann
Language:	German
Level of the unit/ Mandatory or not :	Graduate course / mandatory elective
Course type/weekly hours:	Lecture: 2 h
Total workload:	90 h = 30 h of classes and 60 h private study
Credits:	3
Entrance requirements:	Biochemistry 1 and 2, Molekular Biotechnology 1
Aims/Competences to be developed:	Knowledge of the methods of the genetic mutation of productive organisms
Content:	<ol style="list-style-type: none"> 1. Characteristics of enzymes 2. Enzymes in Organic Chemistry 3. Protein backfolding 4. Mammalian cells in Biotechnology 5. Recombinant yeasts in Biotechnology 6. Techniques of molecular evolution 7. Examples for SDM in Biotechnology 8. Examples for directed evolution in Biotechnology
Assessment/Exams:	Written exam, protocols