

Module title					Abbreviation
Aspects of molecular Biotechnology					07-4S1MZ5-102-m01
Module coordinator				Module offered by	
holder of the Chair of Biotechnology			Faculty of Biology		
ECTS Method of grading		od of grading	Only after succ. compl. of module(s)		
5	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate			
Contents					
Fundamental principles of "white" biotechnology, bioreactors, biocatalysis, immobilisation of cells and enzy- mes, production of biomolecules, molecular biology, recombinant DNA technology, protein engineering, biosen- sor design, drug design, drug targeting, molecular diagnostics, recombinant antibodies, hybridoma technology, electromanipulation of cells.					
Intended learning outcomes					
Students will gain an overview of traditional and modern methods in biotechnology and their respective advanta- ges and disadvantages. They will learn to decide what method is most suitable for addressing a particular issue. Students will acquire a knowledge of fundamental methods in biotechnology that will enable them to indepen- dently review relevant literature. In addition, they will become acquainted with - or, where necessary, will be able to independently acquaint themselves with - relevant mechanisms.					
Courses (type, number of weekly contact hours, language — if other than German)					
 Inis module comprises 2 module components. Information on courses will be listed separately for each module component. 07-4S1MZ5-1-102: V (no information on SWS (weekly contact hours) and course language available) 07-4S1MZ5-2-102: S (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) 					
Assessment in this module comprises the assessments in the individual module components as specified be-					
low. Unless stated otherwise, successful completion of the module will require successful completion of all indi- vidual assessments.					
 Assessment in module component o7-4S1MZ5-1-102: Aspects of molecular Biotechnology 3 ECTS, Method of grading: numerical grade written examination (approx. 30 minutes) Assessment in module component o7-4S1MZ5-2-102: Molecular Biotechnology - Seminar 2 ECTS, Method of grading: (not) successfully completed presentation (approx. 15 to 20 minutes) 					
Allocation of places					
Number of places: XX1. Should the number of applications exceed the number of available places, places will be allocated as follows: Places will primarily be allocated to students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits. Should the module be used in other subjects, there will be two quotas: 95% of places will be allocated to students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits and 5% of places (a minimum of one participant in total) will be allocated to students of the Bachelor's degree subject Biologie (Biology) with 60 ECTS credits and to students of the Bachelor's degree subject Biologie (Biology) with 60 ECTS credits and to students of the Bachelor's degree subject Biologie (Biology) with 60 ECTS credits and to students of the Bachelor's degree subject Biology (as well as potentially to students of other 'importing' subjects). Should the number of places available in one quota exceed the number of applications, the remaining places will be allocated to applicants from the other quota. Should there be, within one module component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in a standardised procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respec-					

8 83

UNIVERSITÄT WÜRZBURG

Module description

tive module will be given preferential consideration. A waiting list will be maintained and places re-allocated as they become available. Selection process group 1 (95%): Places will primarily be allocated according to the applicants' previous academic achievements. For this purpose, applicants will be ranked according to the number of ECTS credits they have achieved and their average grade of all assessments taken during their studies or of all module components in the subject of Biologie (Biology) (excluding Chemie (Chemistry), Physik (Physics), Mathematik (Mathematics)) at the time of application. This will be done as follows: First, applicants will be ranked, firstly, according to their average grade weighted according to the number of ECTS credits (qualitative ranking) and, secondly, according to their total number of ECTS credits achieved (quantitative ranking). The applicants' position in a third ranking will be calculated as the sum of these two rankings, and places will be allocated according to this third ranking. Among applicants with the same ranking, places will be allocated according to the qualitative ranking or otherwise by lot. Selection process group 2 (5%): Places will be allocated according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in modules/module components of the Faculty of Biology; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. Should the module be used only in the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits, places will be allocated according to the selection process of group 1. XX2: XX3 places. Places will be allocated by lot.

Additional information

Workload

Teaching cycle

Referred to in LPO I (examination regulations for teaching-degree programmes)

Module appears in

Bachelor' degree (1 major) Biology (2011) Bachelor' degree (1 major) Biology (2010) Master's degree (1 major) Functional Materials (2012)

JMU Würzburg • generated 20.10.2023 • Module data record 114514