

Module Title: Molecular Crop Science Project 2											
Module ID/Code: NPW-039 [780800390]											
1. Content and intended learning outcomes											
Learning For the profile (Schwerpunkt) Molecular Crop Science, two projects are obligatory. Students work in one of the associated labs on a small research project. The content of the individual research projects are as diverse as the research subjects of the participating groups, which include Plant Breeding, Molecular Biology of the Rhizosphere, Molecular Phytomedicine, Crop Functional Genomics, Crop Bioinformatics, Chemical Signalling, Plant Nutrition and Molecular Biotechnology. Independent of the chosen project the course will provide key information about concepts in molecular analysis of crops which includes basic knowledge of tools and experimental strategies used in molecular crop sciences. The research project will be regularly discussed with the supervisor and the outcome presented in oral form in a research seminar of the supervising lab and a minisymposium of all project students at the end of the semester. A written report needs to be completed in accordance with research documentation practices of the hosting lab.											
Learning outcomes											
After a successful completion of the course, the students - project planning and management. - lab work and organisation. - scientific writing. - critical reading. - scientific communication and oral presentation of results.											
2. Prerequisites											
obligatory		Crop Physiology, Crop Breeding Research, Data Analysis and Visualization at least one lab class, e.g. Molecular Crop Physiology, Applied Bioinformatics									
recommended											
Maximum of studen											
3. Study program allocation											
Study pro	gram						Compulsory/ Elective Ser			emester	
M.Sc. Crop Sciences							C Focus MCS 3.				3.
4. Teaching and learning methodes											
Type of course	Interval		Торіс			Language of instruction		SWS	Workload [h] Contact Self- time study		
P* (blocked)	full-day block		to be choosen from offered projects	projects		English		2,0	30,0	D	130,0
S (blocked)	full-day bl	ock	Presentation and discussion of result	S	English		30	1,0	15,0 5,0		5,0
5. Course cycle 6. Wo				6. Worklo	ad [h]		7. Durati	7. Duration 8		8. Credits (ECTS)	
WS 180						1 6,0					
-			he rewarding of credits (ECTS)			1		1		1	
Types of A	Assessmen	t Pi	Prerequisites for admission to the Assessment			ye	Graded Lang yes/no (exa		n) fao		ighting tor
none							not graded Englis		h		
Academic Achievements											
Computeria	سمير مأرم أكمر مري		t Develop to the second sector								

Completion of lab project, Report on lab project



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## 10. Module coordination

Module coordinator

Prof. Dr. Heiko Schoof

## **Teaching person**

Prof. Dr. Andreas Meyer; Prof. Dr. Peter Dörmann; Prof. Dr. Claudia Knief; Prof. Dr. Florian Grundler; Prof. Dr. Frank Hochholdinger; Prof. Dr. Gabriel Schaaf; Prof. Dr. Heiko Schoof

## Institute/ Department

Agrar-, Forst- und Ernährungswissenschaften, Biologie

11. Further information