

Module Title: Maize and barley genetics

Module ID/Code: NPW-046 [780800460]

1. Content and intended learning outcomes

content:

Learning | This course aims on getting hands on experience in maize and barley genetics by focusing on molecular aspects of development in these species. Students will get insights into ongoing research topics of the working group by attending lectures and will also work on selected aspects of these projects in lab exercises. They will also learn to self-reliantly prepare oral presentations in english and how to prepare a scientific report and a how to keep a laboratory journal.

Learning outcomes

After a successful completion of the course, the students...

- have an advanced knowledge of methods in genetics and molecular biology.
- comprehend the results of genetic experiments and can present them.
- can plan and execute genetic experiments.
- can interpret the results of genetic experiments.

2. Prerequisites

obligatory	Module "Concepts in Genetics and Genomics"
recommended	Grundlagen molekulargenetischer Praxis (B.Sc.)
Maximum number of students	12 students

3. Study program allocation

Study program	Compulsory/ Elective	Semester
M.Sc. Crop Sciences	E Focus MCS	3.

4. Teaching and learning methodes

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Type of	Interval	Topic		Language of	Group	SWS	Workload [h]	
course				instruction	size		Contact	Self-
							time	study
L	during the	Current topics in maize and barley gen	etics	English	12	1,0	15,0	15,0
	semester							
P*	full-day block	Practical exercises in ongoing research	projects	English	12	5,0	75,0	75,0
(blocked)								
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5. Course cycle	6. Workload [h]	7. Duration	8. Credits (ECTS)	
WS	180	1	6,0	

9. Requirements for the rewarding of credits (ECTS)

Types of Assessment	Prerequisites for admission to the Assessment	Graded yes/no	Language (exam)	Weighting factor
Report [780800469]	Regular participation in practical exercises	graded	English	50%
Presentation [780800468]	Submission of written report	graded	English	50%

Academic Achievements

10. Module coordination

Module coordinator

Prof. Dr. Frank Hochholdinger

Teaching person

Dr. Peng Yu; Prof. Dr. Frank Hochholdinger

Institute/ Department

Agrar-, Forst- und Ernährungswissenschaften

11. Further information