

Module Title: Crop Functional Genomics										
Module I	D/Code: N	PW-041 [780800410]								
1. Content and intended learning outcomes										
Learning content:	 Lecture on organization, function, mapping and sequencing of genes and genomes and the structure and dissection of transcriptomes and proteomes. Lectures are accompanied by homework assignments. These assignments will be discussed in exercise sessions. The module will be completed by a literature seminar on selected current topics of cron functional genomics. 									
Learning	outcomes					Tunctio	nargen	onne	5.	
After a su	ccessful cor	npletion of the course, the students								
- will unde - will com - will be a between - will be a	erstand the prehend the ble to analy genes. ble to read,	basic concepts of Genomics. e complex interactions between genome ze multifactorial crossing schemes and g understand and present original researd	e, transcripto generate gen ch papers an	ome and prot etic linkage n d evaluate th	eome. haps and cale eir content in	culate t n the co	he gene ontext c	etic di of rela	istance ated	
publicatio	ns.									
2. Prerec	luisites									
recommended										
Maximun of studen 3. Study	n number ts program a	llocation								
Study pro	gram				Compuls	orv/ Ele	ctive	Se	mester	
M.Sc. Crop Sciences					E Fo	E Focus MCS			2.	
4. Teach	ing and lea	rning methodes					- 1			
Type of	Interval	Торіс		Language o	f Group	SWS	Workload [h]			
course				instruction	size		Conta time	ect	Self- study	
L	during the semester	Crop functional genomics		English	60	2,0	30,0	30,0 30,0		
T*	during the semester	Solving problems in crop functional	genomics	English	30	2,0	30,0	30,0 30,0		
S*	during the semester	Current topics in crop functional ge	nomics	English	15	2,0 30,0 30		30,0		
5. Course cycle			6. Worklo	oad [h]	7. Durati	7. Duration		8. Credits (ECTS)		
SS 180					1	6,0				
9. Requi	rements fo	r the rewarding of credits (ECTS)								
Types of Assessment Prerequisites for admission to the Ass			sessment	essment		raded Langu es/no (exar		age Weighting ı) factor		
Written exam [780800419]		Successful completion of literature presentation		8	graded	aded Englis		h 100%		
Presentation [780800418]		Regular participation in lecture and exercise sessions			not graded	led English		0%		
Academic	Achieveme	ints				<u> </u>		I		



Module Title: Crop Functional Genomics

Module ID/Code: NPW-041 [780800410]

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

Genomes 4 by T.A. Brown, Garland Science