Module Name		Module Code				
Molecular Biology Approaches for Animal Nutrition and Physiology			agrarAEF861-01a			
Module Coordinat	tor		I			
Prof. Dr. Siegfried	Wolffram					
Organizer						
Institute of Animal	Nutrition and Physiolo	ogy - Nutritional Physiology a	nd Biochemistry			
Faculty						
Faculty of Agricultu	Iral and Nutritional Sc	iences				
Examination Offic	e					
Faculty of Agricultu	ral and Nutritional Sc	iences - Examination Office				
ECTS Credits		6				
Evaluation		Graded				
Duration		one semester				
Frequency		Only takes place during winter semesters				
Workload per ECTS Credit		30 hours				
Total Workload		180 hours				
Contact Time		60 hours				
Independent Study		120 hours				
Teaching Language		English				
Recommended R	equirements	•				
Basic knowledge ir	n molecular biology, c	ell biology including animal n	utrition, biochemistry and phy	/siology.		
Module Courses						
Course Type	Course Name		Compulsory/Optional	SWS		
Lecture	Advanced Moleo research	cular Biology Approaches in	Compulsory	2		
Internship	Advanced Moleo research	cular Biology Techniques in	Compulsory	2		
Prerequisits for A	dmission to the Exa	mination(s)				
Regular attandance	e of Internship course	are necessary				
Date: 02. 07. 2019		Kiel University	Page	1/3		

Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Written Examination: Molecular Biology Approaches for Animal Nutrition and Physiology	Written Examination	Graded	Compulsory	100
Further Information on the Examination	(s)			
1. +2. Period in winter semester 1. Period in summer semester The admission requirement for the examina written examination 100% Examiner Dr. Burdeos/Prof Dr Wolffram QIS: 68700 mit PNR68710	ation is a proof of the	passed interns	ship protocol	
Course Content				
following experimental techniques and its t preparation, cytotoxicity and proliferation as and RNA analyses.). Biochemistry (Protein technology, western blot technology and er	ssay) and Molecular extraction, purification	biology (PCR s	ystem and techr	ology, DNA
Learning Outcome				
Learning Outcome On completion of the module, students will molecular and cell biology, biochemistry, p importance of molecular and cell biology in bioactivity and mechanism involve in a cert familiar with the structure of biomolecules a able to complete basic laboratory tasks rele Additional outcomes: Students will learn how to assess and inter	hysiology and nutritic cluding biochemistry tain functional metabo and concepts of enzy evant to animal nutrit	n. Students will experimental te blites in animal mology. Furthe ion and physiol	l be able to desc echniques in ass nutrition. They v rmore, students	ribe the sessing the vill also be
On completion of the module, students will molecular and cell biology, biochemistry, p importance of molecular and cell biology in bioactivity and mechanism involve in a cert familiar with the structure of biomolecules a able to complete basic laboratory tasks rele Additional outcomes:	hysiology and nutritic cluding biochemistry tain functional metabo and concepts of enzy evant to animal nutrit	n. Students will experimental te blites in animal mology. Furthe ion and physiol	l be able to desc echniques in ass nutrition. They v rmore, students	ribe the sessing the vill also be
On completion of the module, students will molecular and cell biology, biochemistry, p importance of molecular and cell biology in bioactivity and mechanism involve in a cert familiar with the structure of biomolecules a able to complete basic laboratory tasks rele Additional outcomes: Students will learn how to assess and inter	hysiology and nutritic cluding biochemistry tain functional metabo and concepts of enzy evant to animal nutrit	n. Students will experimental te olites in animal mology. Furthe ion and physiol ce.	I be able to desc echniques in ass nutrition. They v rmore, students ogy.	cribe the cessing the vill also be should be

Maximum number of participants: 12 Enrollment by OLAT within workdays Monday through Friday in the 1nd week of the 2. audit period of the preceding semester. Following information is necessary: matriculation number last name first name striven degree study program stu-Email The allocation of the places takes place in the 2nd week of the 2. audit period of the preceding semester. Acceptance of the place by students only through participation at the first day of the course. Students without a place can get a place at the first day of the course by move-up procedure.

Date: 02. 07. 2019 Kiel University	Kiel University		
Use	Compulsory / Optional	Semester	
Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2017)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2021)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2017)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2021)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2017)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2021)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2021)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2017)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2017)	Optional	-	
Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2021)	Optional	-	
Master, 1-Subject, Dairy Science, (Version 2017)	Optional	-	
Master, 1-Subject, Dairy Science, (Version 2021)	Optional	-	
Master, 1-Subject, Environmental Management, (Version 2020)	Optional	-	
Master, 1-Subject, Nutritional and Food Science, (Version 2021)	Optional	-	

Master, 1-Subject, Nutritional and Food Science, (Version 2017)	Optional	-
Master, 1-Subject, Nutritional and Consumer Economics, (Version 2017)	Optional	-
Master, 1-Subject, Nutritional and Consumer Economics, (Version 2021)	Optional	-