

Module Name	Module Code
Nutrition and the Immune System	AEF-el840
Module Coordinator	
Prof. Dr. Gerald Rimbach	
Organizer	
Institute of Human Nutrition and Food Science - Molecular Prevention	
Faculty	
Faculty of Agricultural and Nutritional Sciences	
Examination Office	
Faculty of Agricultural and Nutritional Sciences - Examination Office	

ECTS Credits	6
Evaluation	Graded
Duration	ein Semester
Frequency	Takes place every semester
Workload per ECTS Credit	30 hours
Total Workload	180 hours
Contact Time	60 hours
Independent Study	120 hours
Teaching Language	English

Recommended Requirements			
Proficiency in biochemistry, nutrition physiology, anatomy; Basic knowledge in genetics, molecular biology			
Module Courses			
Course Type	Course Name	Compul- sory/Optional	SWS
Seminar	Nutrition and the Immune System	Compulsory	2
Lecture course	Nutrition and the Immune System	Compulsory	2

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Written Examination: Nutrition and the Immune System	Written Examination	Graded	Compulsory	100
Further Information on the Examination(s)				
1.+2. period in summersemester 1.+2. period in wintersemester examiner: Dr. S. Staats QIS: 65501 with number of Examination 65520				

Course Content
Introduction to immunology, immune-modulating nutritional compounds, research models in immunological research, regulation of inflammatory signalling cascades, autoimmune diseases
Learning Outcome
<p>Students get to know basic knowledge of immunology. Students will learn how nutrition and immunology are related and how nutrition derived compounds modulate the immune system. Students will get to know how immunological disorders may be mitigated through a nutritional approach.</p> <p>Students will learn to link newly learned knowledge by independent cooperative work within the seminar appointments. Students will learn to link newly learned knowledge by independent cooperative work within the seminar appointments.</p>
Reading List
Murphy, K: Janeway's Immunobiology, 8th edition, 2011, Taylor&Francis Ltd. Aggarwal BB, Heber D: Immunonutrition, 1st edition, 2014, Crc Pr Inc
Additional Information
Maximum number of participants: 20 Enrollment via open OLAT within workdays Monday through Friday in the 1st week of the 2. audit period of the preceding semester. Following information are 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.

Use	Compulsory / Optional	Semester
Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2013)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2013)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2013)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2013)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2013)	Optional	-
Master, 1-Subject, Dairy Science, (Version 2017)	Optional	-
Master, 1-Subject, Nutritional and Food Science, (Version 2013)	Optional	-
Master, 1-Subject, Nutritional and Consumer Economics, (Version 2017)	Optional	-
Master, 1-Subject, Nutritional and Consumer Economics, (Version 2013)	Optional	-