

Module Name Seminar Molecular Plant and Microbial Sciences						
Type of Module ○ Basic Module				Module Code Plant Science Seminar		
Identification Number MN-B-P 2	Workload 180 h	Credit Points 6 CP	Term 1 st term of studying	Offered Every Winter term	Start Winter term only	Duration 1 term
1	Course Types Seminar (incl. Project work)		Contact Time 60 h	Private Study 120 h		Planned Group Size 20 students
2	Module Objectives and Skills to be Acquired Students who successfully completed this module <ul style="list-style-type: none"> • are able to perform phylogenetic and phylogenomic analysis of plants on desktop computers. • have acquired practical skills in the use of common bioinformatical algorithms, computational sequence analysis tools as well as biological databases to study scientific questions in plant and microbial sciences. • can independently carry out small scientific projects related to the topic of the module. • have learned how to present research results in oral and written form and to critically discuss scientific publications related to the topic of the module on a professional level. 					
3	Module Content <ul style="list-style-type: none"> • Phylogenetic analyses of genes and proteins from plants and microbes • Analysis of transcriptome and proteome data sets from plants and microbes • Use of biological databases • Organization of experiments in plant and microbial sciences • Studying, presenting and discussing scientific literature related to the topic of the module • Writing of protocols and/or seminar papers 					
4	Teaching Methods <ul style="list-style-type: none"> • Project work; Seminar; Computer exercises; Training on presentation techniques in oral and written form 					
5	Prerequisites (for the Module) Enrollment in the Master´s degree course "Biological Sciences"; Simultaneous participation in the lecture module "Molecular Plant and Microbial Sciences"					
6	Type of Examination Oral presentation (100 % of the total module mark)					
7	Credits Awarded Regular and active participation; Oral presentation at least "sufficient"					

8	Compatibility with other Curricula None
9	Proportion of Final Grade 7.5 %
10	Module Coordinator Prof. Dr. Gunther Döhlemann, phone 470 1647, e-mail: g.doehlemann@uni-koeln.de
11	Further Information Participating faculty: apl. Prof. Dr. B. Becker, Prof. Dr. M. Bucher, Prof. Dr. J. de Meaux, Prof. Dr. G. Döhlemann, PD Dr. T. Gigolashvili, Prof. Dr. U. Höcker, Prof. Dr. M. Hülkamp, Prof. Dr. S. Kopriva, Dr. T. Maekawa, Dr. M. Stetter, Prof. Dr. B. Thomma, Prof. Dr. A. Zuccaro Literature: <ul style="list-style-type: none">Information about textbooks and other reading material will be given on the ILIAS representation of the course (https://www.ilias.uni-koeln.de/ilias/goto_uk_cat_2815610.html) General time schedule: Weeks 1-14: Seminar/project work and oral presentations (starting at 2:00 p.m. at different dates, more details will be given in the introduction to the module). Introduction to the module: October 11, 2021 at 2:00 p.m., online (further information/link will be sent to your Smail-Account); for preparation to the module before this introduction see ILIAS link under literature.