

Module Name Seminar Molecular Plant and Microbial Sciences						
Type of Module ○ Basic Module				Module Code Plant 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	
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, proteome and metabolome 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; Group discussions; Computer exercises; Training on presentation techniques in oral and written form 					
5	Prerequisites (for the Module) Enrollment in the Master's degree course "Master of Science in Plant and Microbial 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, Prof. Dr. T. Hildebrand Prof. Dr. U. Höcker, Prof. Dr. M. Hülskamp, Prof. Dr. S. Kopriva, Dr. T. Maekawa, Dr. I. Saur, Prof. Dr. M. Stetter, Prof. Dr. B. Thomma, Prof. Dr. N. Töpfer, 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_crs_5918620.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). Start of the module: October 22, 2025 at 2:00 p.m., (further information/link will be sent to your Smail-Account); for preparation to the module before this introduction see ILIAS link under literature.