

Module Name: Project Proposal					
Identification Number	Workload	Credit Points	Term	Offered Every	Duration
MN-BC-PP	180 h	6 CP	3 rd term	all year round	5 weeks
1	Type of lessons Interactive Tutorials, Project work, Scientific talks	Contact times approx. 30 h	Self-Study Times approx. 150 h	Group Size max. 1	
2	Module Objectives and Skills to be Acquired Students who successfully completed this module ... <ul style="list-style-type: none"> • have learned to search the literature, to identify papers with important impact in the field and to extract relevant information in respect to their own research topic • are able to develop a working hypothesis, theory or model that explains a biochemical mechanism and/or biochemical problem which has been studied in a research project • are able to propose reasonable experiments and define expected positive and negative outcomes including control experiments • are able to develop a work plan using different and complementary experimental approaches to prove or disprove their hypothesis • have learned to describe and to critically discuss a state-of-the-art method 				
3	Module Content The Project Proposal Module may be supervised by any member of staff qualified under the University Regulation § 65 HG. The subject of the Project Proposal is developed with the supervising tutor on an individual basis in agreement with the student. It may cover the following areas: <ul style="list-style-type: none"> • Listen to 10 scientific presentations (documentation required) • Review of the results of the passed laboratory module (MN-BC-LM1/2) and definition of the strength and weaknesses of the available results and data • Description of the state-of -the-art research in a specific field by searching the literature and extracting the most important and influential work in the field (include citations) • Definition of new research aims and hypothesis for the Master thesis module • Identification of key methods and technologies that can be applied, including a critical discussion of 1-2 key methods with advantages and disadvantages in a separate essay • Development of a work plan including in detail description and justification of experimental approaches • Suggestion of alternative approaches, identification of pit falls and definition of crucial control experiments • Timed work schedule 				
4	Teaching Methods Interactive tutorials; Guidance to independent research project planning and proposal writing; Training on presentation techniques in written form; literature search; Essay writing				
5	Prerequisites Enrollment in the Master's degree course "Biochemistry and Molecular Medicine"; Successful completion of 2 laboratory project and 2 subject modules				

6	<p>Type of Examination</p> <p>The final examination consists of a written project proposal.</p>
7	<p>Credits Awarded</p> <p>Documented participation in 10 scientific presentations throughout the Master studies Total module mark at least “sufficient” (see appendix of the examination regulations for details).</p>
8	<p>Compatibility with other Curricula</p> <p>None</p>
9	<p>Proportion of Final Grade</p> <p>5 %</p>
10	<p>Module Coordinator</p> <p>Head of the M.Sc. Biochemistry and Molecular Medicine Degree Committee</p>
11	<p>Further Information</p> <p>Compulsory Specialization Module of the Master’s degree course “Biochemistry and Molecular Medicine”.</p> <p>Literature:</p> <p>Will be handed out at the beginning and during the module</p> <p>General time schedule: Throughout the master studies listening to at least 10 scientific presentations, Week 1-3 (Mon.-Fri.): Interactive tutorials, literature search, preparation of the seminar paper; Week 4-5 (Mon.-Fr.): writing seminar paper</p> <p>Introduction to the module/Examination dates: will be arranged in agreement between the student and the supervising tutor.</p>