

Program of Studies:	Master Program Bioinformatics
Name of the module:	Special-topic Lecture Biosciences: Advances in Drug Delivery – Prospects for Vaccination
Abbreviation:	B-M-5
Modules:	Advances in Drug Delivery: Prospects for Vaccination
Semester:	1 st -4 th semester, every summer term
Responsible lecturer:	Dr. Birgitta Loretz
Lecturer:	Dr. Brigitta Loretz, Dr. Maike Windbergs
Language:	English
Level of the unit/ Mandatory or not	Graduate course / mandatory elective - Advanced Lectures of Life Sciences
Course type/weekly hours:	Lecture and seminar: 2h (weekly) Tutorial: 1h (weekly)
Total workload:	150 h = 45 h in class and 105 h private study and assignments
Credits:	5
Entrance requirements:	
Aims/Competences to be developed:	Get to know approaches and formulations for drug delivery.
Content:	<ul style="list-style-type: none"> - Basics of Immunology - Methods in Immunology - Vaccines, antigens and adjuvants - Vaccine Formulations - Vaccine Biopharmacy - History Lecture - Case study and question session
Assessment/Exams:	Graded: yes, written exam
Used Media:	key-note speech, assignments, seminar
Literature:	Please see lecture's website