Supplementary sheet for the application to the Lab Rotations for Erasmus Students

Family name	
First name	
Home-University	

Request to Laboratory Classes/Practical Laboratory Skills for Erasmus-Students in Molecular Medicine

Dear Erasmus-Student,

Thank you very much for your application and for your interest in our Master's program in Molecular Medicine. Our Master's program in Molecular Medicine is a consecutive, research-oriented program, which leads to a Master of Science (M. Sc.) degree. It is characterized amongst others by practice orientation with the ambition to qualify future excellent scientists for medical research. The one year curriculum is divided into two main parts, the first concentrating on deepening knowledge and advanced laboratory research training, the second on an individual research project (= Master's thesis).

To study successfully in our program, applicants/prospective students are expected to have already a good deal of lab experience including the theoretical knowledge as well as practical laboratory skills.

To check your competency profile, we need to identify and specify your degree of competency – which helps you likewise to check (with respect to the other requirements) if you fit for our program.

To self-appraise one's own competency level, we use a simple, clear, and accurate description for each competency level following Miller's Pyramid.

Competency Level	Description
Knows	Novice, fact gathering, **theoretical knowledge**
Knows how	**Competence**, Interpretation & Application during Laboratory Classes
Shows	**Performance**, Demonstration of learning under supervision
Does	Expert, **Performance integrated into practice**

Please complete and sign this form (please tick).

THANK YOU

Request to Laboratory Classes/Practical Laboratory Skills for prospective Students in Molecular Medicine

Classification of Competencies/ Specifying competency levels		Knows	Knows how	Shows	Does
Chemistry	Basics for Scientists				
Physics	Basics for Scientists				
Biochemistry	Western Blot				
	Photometric measurements				
	Enzyme kinetics				
	Protein isolation				
	Protein separation				
Molecular Biology	DNA isolation				
	RNA isolation				
	cDNA synthesis				
	reverse transcriptase PCR				
	E. coli plasmide transfection				
	Real Time PCR				
	gel electrophoresis				
Microbiology	bacteria culture				
	typing of bacteria using PCR				
	antibiotic resistance tests				
	Bacterial Cell Culture				
	biofilm preparation				
Human Genetics	Sequencing				
	Ceytogenetics				
	RFLP Analysis				
	microsatellite analysis				
Laboratory Diagnostics	FACS				
	TEM presentation and slide preparation (ultra thin cut)				
	deep sequencing theory				
	laser micro dissection				
	microscopy				
Immunology	PBMC isolation				
	tetramer staining				
	HLA typing				
	FACS, chromium release cytotoxicity assay				
Cell Biology	Basics of cell culture				
	Transfection of eukaryotic cells				
	immunohistochemistry				
Molecular Pathology	mouse dissection				
	fluorescence microscopy				

Other Competencies which are relevant for Molecular Medicine (Immunology, Oncology, Neurosciences, Infection Biology)		Knows	Knows how	Shows	Does

_____ _____

Date **Applicant's signature**

_____

Name and email of the Responsible Person / Academic Body

_____

Date, Signature of the Responsible Person[1] **Stamp of the institution**

[1] **Responsible Person at the Sending Institution / Academic Body**:

an academic (e. g. program coordinator) who has the authority to approve the Request to Laboratory Classes