Application form for the Master of Science study program
Biochemistry and Molecular Medicine at the University of Cologne

(Applicants with German bachelor degree)

Please fill in electronically

Personal data (family name, first name):

German bachelor degree / alternative qualification

Name of bachelor study program:

University, city:

Title of bachelor thesis:

Content of bachelor thesis (max. 4 sentences):

Supervisor of bachelor thesis (title, family name, first name, university/institution, city):

***Have you finished your bachelor study program by the date of application?**

☐ **Yes** ☐ **No**

Date of certificate: Overall final grade:

*If you answered the above question with no, please add those modules that are still to be completed and the expected date of examination (month/year)

	Title of the module	**Credits**	**Expected date of completion**
1.			
2.			
3.			

Proof of proficiency in English

☐ native speaker ☐ language of instruction in bachelor program (provide proof) ☐ German Abitur incl. 6 years of English (min. B2)

☐ proficiency certified with ☐ TOEFL ☐ IELTS ☐ TOEIC ☐ Cambridge English Qualifications

Total Score reached

Required 36 credit points (of 180) in biochemical modules including practical content during your bachelor study program

Please fill in module titles and corresponding credit points you achieved in biochemical laboratory modules (please add description or protocol, if possible) or in your bachelor thesis if your thesis has a biochemical focus. Also add internships in biochemical research laboratories when applicable. Subject areas which can be credited are modules in biochemistry, molecular medicine or cell biology which mainly contained experimental laboratory work. Please note that modules or courses in areas like organic/inorganic/physical/pharmaceutical chemistry, physiology, genetics, bio nanotechnology or bioinformatics do not count as biochemical subject areas.

Title of the module	**Type of module** (e.g. practical course, laboratory class, tutorial, thesis internship)	**Expenditure of time** (e.g. 2 h/week for 1 semester or 5 weeks block)	**Credits achieved**
Total amount of credits			0

Experimental prerequisites – Self evaluation

Please critically self-assess your level of experimental expertise. Please list below your experience in areas A-C including the techniques you performed and the time you spent on them.

(A) Molecular biology techniques and model systems (e.g. cell culture), DNA cloning and manipulation (e.g. PCR restriction digest, agarosegel electrophoresis, ligation, concentration determination)

(B) Protein purification and characterization (e.g. SDS-PAGE, concentration determination, Westernblotting, column chromatography of various kinds)

(C) Enzyme kinetics and characterization (e.g. evaluation of kinetic data)

I am particularly interested in...

☐ (A) Protein Biochemistry

☐ (B) Cellular Biochemistry ☐ (C) Medical Biochemistry ☐ (D) Molecular Genetics

☐ (E) Structural Biochemistry ☐ (F) Computational Biology ☐ (G) Plant Sciences