



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN

FACULTY FOR CHEMISTRY AND PHARMACY
EXAMINATION COMMITTEE



BACHELOR CERTIFICATE

Mr. Jannik Schwab

born on 5 August 1989 in Friedrichshafen

has fulfilled the requirements for the **Bachelor's** program in **Chemistry and Biochemistry** in accordance with § 18 of the examination and study regulations of the Ludwig-Maximilians-Universität München of 22 March 2010 and has received the following grades:

Final grade: good (1.94)

Bachelor's thesis:

Grade 1.30

Structure elucidation of Ecm29 bound proteasomal precursor complexes

The full list of courses and the grades attained in each course as well as the acquired ECTS-credits are to be found in the attached Transcript of Records dated 26 September 2013.

The student has also fulfilled the requirements of § 5 of the German "Chemikalien-Verbotsverordnung".



CHAIRPERSON OF THE
EXAMINATION COMMITTEE
Prof. Dr. Paul Knochel

Munich, 26 September 2013

Grades scale: Up to 1.50 = very good; over 1.50 to 2.50 = good; over 2.50 to 3.50 = satisfactory; over 3.50 to 4.0 = sufficient.
The final grade is calculated as a weighted arithmetic mean of the grades from the graded modules and the module grade is calculated as a weighted arithmetic mean of the grades from the individual examinations.



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FACULTY FOR CHEMISTRY UND PHARMACY
EXAMINATION COMMITTEE



BACHELOR DIPLOMA

Mr. Jannik Schwab

born on 5 August 1989 in Friedrichshafen

satisfied on 26 September 2013 all examination requirements for the Bachelor's Degree in

Chemistry and Biochemistry

Final grade:

good

Having fulfilled the prescribed requirements he is hereby

conferred the Degree

Bachelor of Science (B.Sc.)

Munich, 26 September 2013

DEAN
Prof. Dr. Herbert Mayr



CHAIRPERSON OF THE
EXAMINATION COMMITTEE
Prof. Dr. Paul Knochel



LUDWIG-
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MÜNCHEN

FACULTY FOR CHEMISTRY AND PHARMACY
EXAMINATION COMMITTEE FOR THE DEGREE
PROGRAM CHEMISTRY AND BIOCHEMISTRY



Schwab, Jannik
born on 5 August 1989 in Friedrichshafen
Student ID number: 10357892

Munich, 26 September 2013

Degree program: Chemistry and Biochemistry

Degree: Bachelor of Science

Bachelor certificate of 26 September 2013

Transcript of Records in accordance with § 21 of the examination and study regulations for the Bachelor's program Chemistry and Biochemistry of 22 March 2010.

Course	ECTS	Grade	Status
Module P1: Basic Chemistry	21	2.42	BE
Lecture course General and Inorganic Chemistry 1	6.5	1.7	BE
Exercises for the lecture course General and Inorganic Chemistry 1	1	1.7	BE
Lecture course Organic Chemistry 1	6.5	2.7	BE
Exercises for the lecture course Organic Chemistry 1	1	2.7	BE
Lecture course Physical Chemistry 1	5	3.0	BE
Exercises for the lecture course Physical Chemistry 1	1	3.0	BE
Module P2: Laboratory course General and Inorganic Chemistry	12	1.65	BE
Introduction to experimental chemistry	3	2.7	BE
Introductory chemical laboratory course	9	1.3	BE
Module P3: Propädeutikum	18	2.56	BE
Mathematics for Chemists 1	2	1.7	BE
Exercises for Mathematics for Chemists 1	1	1.7	BE
Introductory physics for chemistry and biochemistry students 1	2	3.0	BE
Tutorial physics for chemistry and biochemistry students 1	1	3.0	BE
Basics in biology	3	3.0	BE
Mathematics for Chemists 2	2	3.0	BE
Exercises for Mathematics for Chemists 2	1	3.0	BE
Introductory physics for chemistry and biochemistry students 2	2	1.7	BE
Tutorial physics for chemistry and biochemistry students 2	1	1.7	BE
Physical laboratory course	3	3.0	BE
Module P4: Inorganic Chemistry 1	6	2.00	BE
Seminar for Inorganic Chemistry laboratory course 1	2		BE
Inorganic Chemistry laboratory course 1	4		BE
Module Exam P4: Inorganic Chemistry 1		2.0	BE
Module P5: Basics of Biochemistry	6	2.00	BE
Lecture course Biochemistry 1	3	2.3	BE
Lecture course Biochemistry 2	2	1.7	BE
Exercises for the lecture course Biochemistry 2	1	1.7	BE
Module P6: Organic Chemistry 1	15	1.65	BE
Lecture course Organic Chemistry 2	6.5	2.0	BE
Exercises for the lecture course Organic Chemistry 2	1	2.0	BE
Organic Chemistry laboratory course 1	7.5	1.3	BE
Module P7: Physical Chemistry 1	12	2.70	BE
Lecture course and exercises for Physical Chemistry 2 (TC1)	3	3.7	BE
Lecture course and exercises for Physical Chemistry 2 (TC2)	3	3.7	BE
Seminar for Physical Chemistry laboratory course 1	2	1.7	BE
Physical Chemistry laboratory course 1	4	1.7	BE



Course	ECTS	Grade	Status
Module P8: Biochemistry 1	9	1.83	BE
Methods of Biochemistry 1	1.5	1.7	BE
Biochemistry 3	3	2.7	BE
Biochemistry laboratory course 1	4.5	1.3	BE
Module P9: Spectroscopy	9	1.50	BE
Spectroscopy 1	3.5	1.3	BE
Exercises for Spectroscopy 1	1	1.3	BE
Spectroscopy 2	3.5	1.7	BE
Exercises for Spectroscopy 2	1	1.7	BE
Module P10: Inorganic Chemistry 2	12	1.90	BE
Lecture course Inorganic Chemistry 2	3	2.7	BE
Lecture course Inorganic Chemistry 3	3	2.3	BE
Seminar for Inorganic Chemistry laboratory course 2	2	1.3	BE
Inorganic Chemistry laboratory course 2	4	1.3	BE
	3		BE
Toxicology for Chemists	1.5		BE
Law for Chemists	1.5		BE
Module P12: Specific Supplements	15	2.08	BE
Introduction into Macromolecular Chemistry	3	2.3	BE
Module Introduction to Informatics: Programming and Software-Development	6	1.7	BE
Organic Chemistry 4	3	2.7	BE
Molecular Genetics	3	2.0	BE
Module P13: Bachelor Thesis	12	1.30	BE
Bachelor Thesis	12	1.3	BE
Elective Module WP4: Biochemistry 2	15	1.70	BE
Biochemistry 4	5	1.7	BE
Exercises for Biochemistry 4	1	1.7	BE
Seminar for Biochemical laboratory course 2	1.5	1.7	BE
Biochemical laboratory course 2	7.5	1.7	BE
Elective Module WP1: Inorganic Chemistry 3	15	1.44	BE
Seminar for Inorganic Chemistry laboratory course 3	1.5	1.3	BE
Inorganic Chemistry laboratory course 3	7.5	1.3	BE
Inorganic Chemistry 5	3	2.3	BE
Inorganic Chemistry 4	3	1.0	BE

On 26 September 2013 he has fulfilled the requirements for the Bachelor's program in Chemistry and Biochemistry with the final grade 1.94 (good).

The student has also fulfilled the requirements of §5 of the german "Chemikalien-Verbotsverordnung".

Grades scale:

Up to 1.50 = very good; over 1.50 to 2.50 = good; over 2.50 to 3.50 = satisfactory; over 3.50 to 4.0 = sufficient.

If the module is graded, then the module grade is calculated as a weighted arithmetic mean of the grades from the individual examinations.

(P) = compulsory module, (WP) = required elective module, (BE) = passed



26 September 2013

Head of examination office
Prof. Dr. Paul Knochel