

Summer semester 2020

Exceptionally, due to the coronavirus pandemic

No contact courses during the lecture time (until July, 18)

= No Methods Modules, no Research Projects with lab work; contact courses will be offered again as soon as possible, possibly during lecture-free time (starting July, 19), if regulations allow us to do so.

We will offer now the following courses:

- Advanced Biochemistry parts 1 & 2
- Seminar parts of many Methods Modules
- Grant Writing Module
- Specialized lectures / seminars (electives)
- Friday Biochemistry Colloquia / Lise Meitner Colloquia

For details please refer to the Course Catalog – <https://www.fu-berlin.de/vv/>

The typical set-up of courses offered will be as follows:

- Commented PDFs, voiced-over PPTs or videos in advance on Blackboard
- Students can study the material and send questions by email to the instructor (up to one day before the regular seminar/lecture)
- Video conference at the scheduled time (regular lecture/seminar or Q/A)
- Expect variations for each specific course
- Each organizer will contact participants (Blackboard) with more specific instructions
- Active participation requirements will be communicated by each course organizer; they may differ for each course and for different parts of a Module
- Exams: Prospective dates and/or formats may change depending on the developments

On the following pages you see the course program as originally planned before the epidemic.

• Distribution of Methods Modules for the Summer Semester 2020

CANCELLED

Last updated: 05th February 2020

✚ The following students are entitled to participate:

- Master students of Biochemistry
- Bachelor students of Biochemistry after successful completion of all basic lab courses
- Diploma students of Biochemie after successful completion of the pre-diploma

Please note:

- ✚ Participation in some modules requires the prior attendance of lectures or other courses.
- ✚ Some methods modules require participation in preliminary meetings which may be long before the start of the lab course. Please check whether this applies in the individual case.
- ✚ When you are unable to attend a methods module, please inform the lecturer(s) immediately.
- ✚ Methods modules with a German title from the Institute of Biology are in German language.

Special note for Master students:

- ✚ Two modules from two different fields have to be completed in the Methods section. The third methods module can be chosen from the third field or, if available, from affine fields.
- ✚ When the Methods section is completed, further methods modules count as electives.
- ✚ A methods module consists of a seminar and a lab course. Usually, there are more spots available in a seminar than in the corresponding lab course. If a seminar is attended only, it counts as a course in the Elective section (Special aspects of the corresponding field).
- ✚ You find a table of methods modules and corresponding fields on the last page of this file.

CANCELLED

**Distribution of Methods Modules (Tombola):
Tuesday, 14.04.20 at 09:00h
Lise-Meitner-Hörsaal, Thielallee 63**

Please also refer to the FU course catalog:

<http://www.fu-berlin.de/vv/en/fb>

Latest update of list of methods modules and calendar:

<http://www.bcp.fu-berlin.de/en/chemie/biochemie/master/Information-for-enrolled-students/>

Methods Modules of Structural Biochemistry

<i>Course No.</i>	<i>1. Appointment</i>	<i>Description</i>
216201 a-c S/P	<p>Part 1: 04.05.2020</p> <p>Part 2: 25.05.2020</p> <p>Part 3: 08.06.2020</p> <p>Final Seminar 12.06.2020</p>	<p>Biomolecular X-ray Crystallography</p> <p>Number of participants: 8</p> <p>Part 1: Wahl, Loll Schedule: 04.05. – 15.05.2020 and 12.06.2020 (final seminar) Location: Takustr. 6, room 323 (Wahl group)</p> <p>Part 2: Feiler, Weiss Important note: Pregnant and breastfeeding women are prohibited from working on the storage ring (Part 2) due to radiation protection regulations. Schedule: 25.05. - 29.05.2020, Meeting point 10:00 am at the gatekeeper Location: Soft Matter and Functional Materials, Electron Storage Ring BESSY II, Albert-Einstein-Str. 15, 12489 Berlin, Adlershof</p> <p>Part 3: Daumke Schedule: 08.06. - 11.06.2020 Location: Max Delbrück Center for Molecular Medicine; Robert-Rössle-Str. 10, 13125 Berlin Buch, <i>Seminar:</i> MDC.C (House 83). Dendrit 2; <i>Practical:</i> House 31.2, Room 0248, Heinemann group (see course catalogue)</p> <p>Final seminar for 216201 a-c Schedule: 12.06.2020 (09:00 – 12:00) Location: Takustr. 6, room 323 (Wahl group)</p>
216202 a, b S/P	08.06.2020	<p>Ewers, Fehse</p> <p>Quantitative Fluorescence Microscopy Schedule: 08.06. – 19.06.2020 (10:00; all-day) Number of participants: 6 Location: Thielallee 63, room 106a (Ewers group)</p>
216211 a, b S/P	14.09.2020	<p>Oschkinat</p> <p>Biological NMR Spectroscopy Schedule: 14.09. – 25.09.2020 Number of participants: 8 Location: Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP); Robert-Rössle-Str. 10, 13125 Berlin Buch, building 81, big seminar room (Ground floor)</p>
216212 a, b S/P	07.09.2020	<p>Oschkinat</p> <p>Biophysical Methods Schedule: 07.09. – 18.09.2020 Number of participants: 16 Location: Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP); Robert-Rössle-Str. 10, 13125 Berlin Buch, building 81, seminar room (Ground floor)</p>

Special Aspects of Structural Biochemistry

<i>LV-Nr.</i>	<i>1. Appointment</i>	<i>Beschreibung</i>
216301 S	Briefing 22.06.2020	<p>Böttcher</p> <p>Structural Characterisation of Supramolecular Architectures by Electron Microscopical Techniques Schedule: 22.06. – 26.06.2020 (09:00 – 18:00) Briefing (mandatory): 27.04.2020 (10:00 s.t. – about 11:00) Number of participants: 4 Location: Fabeckstr. 36a, room 205 (Research Center of Electron Microscopy)</p>

Methods Modules of Molecular Biology

Course No.	1. Appointment	Description
216403 a, b S/P	17.08.2020	Weise, Schröder Protein Analysis and Microsequencing Schedule: 17.08. – 28.08.2020 (09:30 – 17:00) Number of participants: 6 Location: Thielallee 63 annex building (seminar room) and room 005 / 006 (laboratory)
216404 a, b S/P	17.08.2020	Weise Bioanalytical Mass Spectrometry / Proteomic Analysis Schedule: 17.08. – 28.08.2020 (09:00 – 17:00) Number of participants: 4 Location: Thielallee 63, room 008 (seminar room) and room 005 (laboratory)
216405 a,b S/P	20.04.2020	Heyd Alternative Splicing and Protein–RNA Interaction Schedule: 20.04. – 30.04.2020 (09:00, all-day) Number of participants: 6 Location: Takustr. 6, room 121 (Heyd group)
216406 a,b S/P	04.05.2020	Bottanelli Gene editing with CRISPR/Cas 9 for cell biology Schedule: 04.05. – 15.05.2020 (09:15, all-day) Number of participants: 4 Location: Thielallee 63, annex building (seminar room) and room K025/027 (Bottanelli group)
216451 a, b S/P	31.08.2020	Kubick Membrane Protein Expression in Cell-free Systems Prerequisite: Attendance of V/S 216501 a,b in a prior semester. Schedule: 31.08. – 11.09.2020 (all-day) Number of participants: 6 Location: Fraunhofer Institute for Cell Therapy and Immunology (IZI), Bioanalytics and Bioprocesses branch, Am Mühlenberg 13, 14476 Potsdam-Golm 2.WO24
216461 a,b S/P	07.09.2020	Schlesinger Production and Biophysical Analysis of Selected Membrane Proteins (Part 1) Schedule: 07.09. - 18.09.2020 (9:00 – 18:00) Number of participants: 6 Location: Arnimallee 14 (Schlesinger Group), Genetic Biophysic, Department of Physics Interested students, without an official place, can send an e-mail (r.schlesinger@fu-berlin.de) to join a follow-up list. Only together with:
216462 S	21.09.2020	Heberle and staff Production and Biophysical Analysis of Selected Membrane Proteins (Part 2) Schedule: 21.09. – 25.09.2020 (all-day) Number of participants: 6 (for both events the same 6 participants) Location: Arnimallee 14 (Heberle group), Experimental Molecular Biophysics; Department of Physics

Methods Modules of Molecular Biomedicine

<i>LV-Nr.</i>	<i>1. Appointment</i>	<i>Description</i>
216601 a,b S/P	20.07.2020	Knaus, Hiepen Cell Biology (advanced course): Signal Transduction Schedule: 20.07. – 31.07.2020 (all-day including seminar, start: 09:00) Number of participants: 6 Location: Thielallee 63, room 205 (Knaus group) and room 005 (laboratory)
216602 a,b S/P	04.05.2020	Freund, Alvaro Benito Molecular Immunology Schedule: 04.05. – 15.05.2020 (all-day) Number of participants: 6 Location: Thielallee 63, room 021 (Freund group)
216611 a,b S/P	Briefing 25.05.2020	Haucke, Krauß, Maritzen, Hessenberger Membrane Traffic and Signaling / Intracellular Membrane Transport in Signal Transduction Schedule: Briefing 25.05.20 (17:00 – 18:00, room A2.16), Course 15.06 – 26.06.20 (09:15 – 18:00) Number of participants: 6 Location: Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP); Robert-Rössle-Str. 10, 13125 Berlin (Buch)
216612 a,b S/P	08.06.2020	Hackenberger Chemical Biology: Protein Synthesis, Labeling and Function Schedule: 08.06. – 19.06.20 (all-day including seminar, start: 09:00) Number of participants: 10 Location: Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP); Robert-Rössle-Str. 10, 13125 Berlin Buch, Building C81, room A 3.16 and C3.04.
216621 a, b S/P	15.06.2020	Stricker Analyzing Musculoskeletal Development in vivo Prerequisite: Attendance of V/S 216701 a,b in a prior semester Schedule: 15.06. – 26.06.2020, all-day (9:00 – approx. 17:00; exact schedule will be communicated on first day) Number of participants: 4 Location: Thieallee 63, room 121 (Stricker group)

Special Aspects of Molecular Biomedicine

<i>LV-Nr.</i>	<i>1. Appointment</i>	<i>Beschreibung</i>
216730 S	28.09.2020	Hiepen, Knaus, Stricker Growth factor signalling interplay with cell mechanics Schedule: 28.09. – 30.09.2020 Number of participants: 5 Location: Thielallee 63, room 205 (Knaus group)

Methods Modules from the Institute of Biology

LV-Nr.	Titel	Spots
23410 a,b,c (V,S,P)	Mechanismen der mikrobiellen Stressanpassung (Antelmann, Klauck)	2
23420 a,b,c (V,S,P)	Molekulare Neurogenetik (Sigrist)	1
23423 a,b (V,S)	Pflanzen Biotechnologie und Gentechnik (Kunze)	2
23425 a,b,c (V,S,P)	Molecular Biology of plants (Leuendorf, Schmülling, Werner, Cortleven)	1
23430 a,b (S,P)	Verhaltensbiologie (Kosubek-Langner, Scharff)	1
23451 a,b,c (V,S,P)	Molekulare Physiologie der pflanzlichen Akklimatisation und Adaption (Baier)	2

Please note: Method modules from the Institute of Biology are counted for the area of affine studies (electives) with a maximum of 10 LP (regardless of the module description)!

METHODS						
Course No	Titel	Lecturer	Strubi	Mobi	Medi	Affi
216201 a-c	Biomolecular X-ray Crystallography	Wahl, Loll, Röwer, Weiss, Heinemann	+			
216202 a,b	Quantitative Fluorescence Microscopy	Ewers, Fehse	+	+	+	
216211 a,b	Biological NMR Spectroscopy	Oschkinat	+			
216212 a,b	Biophysical Methods	Oschkinat	+			
216301a,b	Structural Characterization...by Electron Microscopical Techniques	Böttcher	+			
216402 a,b	Nucleic Acids	Fürste, Schröder		+	+	
216403 a,b	Protein Analysis and Microsequencing	Weise, Schröder		+		
216404 a,b	Bioanalytical Mass Spectrometry / Proteomic Analysis	Weise	+	+		
216405 a,b	Alternative Splicing and Protein-RNA Interaction	Heyd		+	+	
216406 a,b	Gene editing with CRISPR/Cas 9 for cell biology	Bottanelli		+	+	
216451 a,b	Membrane Protein Expression in Cell-free Systems	Kubick		+	+	
216461 a,b	Production and biophysical analysis of selected membrane proteins Part I	Schlesinger	+	+		
216601 a,b	Cell biology (advanced course): Signal Transduction	Knaus, Hiepen		+	+	
216602 a,b	Molecular Immunology	Freund, Alvaro Benito	+		+	
216611 a,b	Membrane Traffic and Signaling	Haucke, Krauß, Maritzen, Hessenberger		+	+	
216612 a,b	Chemical Biology: Protein Synthesis, Labeling and Function	Hackenberger		+	+	
216621 a,b	Analyzing Musculoskeletal Development in vivo	Stricker		+	+	
216730	Growth factor signaling interplay with cell mechanics	Hiepen, Knaus, Reichenbach, Stricker			+	