

# Distribution of Methods Modules for the Winter Semester 2019/20

Last updated: 16<sup>th</sup> July 2019

- ✦ 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.

**Distribution of Methods Modules (Tombola):  
Monday, 14.10.19 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

Course No.	1. Appointment	Description
<b>216201</b> a-c S/P	<p><b>Part 1:</b> 28.10.2019</p> <p><b>Part 2:</b> 11.11.2019</p> <p><b>Part 3:</b> 18.11.2019</p> <p><b>Final Seminar</b> 22.11.2019</p>	<p><b>Biomolecular X-ray Crystallography</b></p> <p><b>Number of participants: 8</b></p> <p><b>Part 1: Wahl, Loll</b> <b>Schedule:</b> 28.10 – 08.11.19 and 22.11.19 (final seminar) <b>Location:</b> Takustr. 6, room 323 (Wahl group)</p> <p><b>Part 2: Feiler, Weiss</b> <b>Important note:</b> Pregnant and breastfeeding women are prohibited from working on the storage ring (Part 2) due to radiation protection regulations. <b>Schedule:</b> 11.11 – 15.11.19, Meeting point 10:00 am at the gatekeeper <b>Location:</b> Soft Matter and Functional Materials, Electron Storage Ring BESSY II, Albert-Einstein-Str. 15, 12489 Berlin, Adlershof</p> <p><b>Part 3: Daumke</b> <b>Schedule:</b> 18.11- 21.11.19 <b>Location:</b> 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><b>Final seminar for 216201 a-c</b> <b>Schedule:</b> 22.11.19 (09:00 – 12:00) <b>Location:</b> Takustr. 6, room 323 (Wahl group)</p>
<b>216202</b> a, b S/P	<b>13.01.2020</b>	<p><b>Ewers, Fehse</b></p> <p><b>Quantitative Fluorescence Microscopy</b> <b>Schedule:</b> 06.01 – 17.01.20 (09:30 – 16:00) <b>Number of participants: 6</b> <b>Location:</b> Thielallee 63, room 106a (Ewers group)</p>
<b>216211</b> a, b S/P	<b>24.02.2020</b>	<p><b>Oschkinat</b></p> <p><b>Biological NMR Spectroscopy</b> <b>Schedule:</b> 24.02 – 06.03.20 <b>Number of participants: 8</b> <b>Location:</b> Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP); Robert-Rössle-Str. 10, 13125 Berlin Buch, building 81, big seminar room (Ground floor)</p>
<b>216212</b> a, b S/P	<b>17.02.2020</b>	<p><b>Oschkinat</b></p> <p><b>Biophysical Methods</b> <b>Schedule:</b> 17.02. – 28.02.20 <b>Number of participants: 16</b> <b>Location:</b> 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

LV-Nr.	1. Appointment	Beschreibung
<b>216301</b> S	<b>Briefing</b> 21.10.2019	<p><b>Böttcher</b></p> <p><b>Structural Characterisation of Supramolecular Architectures by Electron Microscopical Techniques</b> <b>Schedule:</b> 20.01 – 24.01.2020 (09:00 – 18:00) <b>Briefing (mandatory):</b> 21.10.19 (10:00 s.t. – about 11:00) <b>Number of participants: 4</b> <b>Location:</b> Fabeckstr. 36a, room 205 (Research Center of Electron Microscopy)</p>

## Methods Modules of Molecular Biology

<i>Course No.</i>	<i>1. Appointment</i>	<i>Description</i>
<b>216401</b> a, b S/P	<b>04.11.2019</b>	<b>Freund, Alvaro-Benito</b> <b>Protein Engineering</b> <b>Schedule:</b> 04.11 – 15.11.19 <b>Number of participants: 6</b> <b>Location:</b> Thielallee 63, room 021, (Freund group)
<b>216402</b> a, b S/P	<b>16.03.2020</b>	<b>Fürste, Schröder</b> <b>Nucleic Acids (Synthesis, Ribozymes, invitro Selection)</b> <b>Schedule:</b> 16.03. – 27.03.2020 (09:00, all-day) <b>Number of participants: 6</b> <b>Location:</b> Thielallee 63, room 321 (seminar room) and room 005 / 006 (laboratory)
<b>216403</b> a, b S/P	<b>02.12.2019</b>	<b>Weise, Schröder</b> <b>Protein Analysis and Microsequencing</b> <b>Schedule:</b> 02.12. – 13.12.19 (09:30 – 17:00) <b>Number of participants: 6</b> <b>Location:</b> Thielallee 63, room 321 (seminar room) and room 005 / 006 (laboratory)
<b>216404</b> a, b S/P	<b>02.12.2019</b>	<b>Weise</b> <b>Bioanalytical Mass Spectrometry / Proteomic Analysis</b> <b>Schedule:</b> 02.12. – 13.12.19 18 (09:00 – 17:00) <b>Number of participants: 4</b> <b>Location:</b> Thielallee 63, room 321 (seminar room) and room 315 (laboratory)
<b>216405</b> a,b S/P	<b>04.11.2019</b>	<b>Heyd</b> <b>Alternative Splicing and Protein–RNA Interaction</b> <b>Schedule:</b> 04.11. – 15.11.19 (09:00, all-day) <b>Number of participants: 6</b> <b>Location:</b> Takustr. 6, room 121 (Heyd group)
<b>216406</b> a,b S/P	<b>16.03.2020</b>	<b>Bottanelli</b> <b>Gene editing with CRISPR/Cas 9 for cell biology</b> <b>Schedule:</b> 16.03. – 27.03.20 (09:15, all-day) <b>Number of participants: 4</b> <b>Location:</b> Thielallee 63, annex building (seminar room) and room K025/027 (Bottanelli group)
<b>216421</b> a,b S/P	<b>13.01.2020</b>	<b>Chekulaeva</b> <b>Ribosome Profiling</b> <b>Schedule:</b> 13.01. – 24.01.20 (10:00, all-day) <b>Number of participants: 6</b> <b>Location:</b> Max Delbrück Center for Molecular Medicine; Hannoversche Straße 28, 10115 Berlin, room 1.08
<b>216423</b> a,b S/P	<b>18.11.2019</b>	<b>Mayer</b> <b>Quantitative Transcriptomics</b> <b>Schedule:</b> 18.11. – 29.11.2019 (09:30, all day) <b>Number of participants: 5</b> <b>Location:</b> Max Planck Institute for Molecular Genetics, Ihnstraße 63, 14195 Berlin, tower 2, room 0.2.02
<b>216451</b> a, b S/P	<b>13.01.2020</b>	<b>Kubick</b> <b>Membrane Protein Expression in Cell-free Systems</b> <b>Prerequisite:</b> Attendance of V/S 216501 a,b in a prior semester. <b>Schedule:</b> 13.01. – 24.01.20 (all-day) <b>Number of participants: 6</b> <b>Location:</b> Fraunhofer Institute for Cell Therapy and Immunology (IZI), Bioanalytics and Bioprocesses branch, Am Mühlentberg 13, 14476 Potsdam-Golm 2.WO24

216461 a,b S/P	09.03.2020	<b>Schlesinger</b> <b>Production and Biophysical Analysis of Selected Membrane Proteins (Part 1)</b> <b>Schedule:</b> 09.03. – 20.03.20 (9:00 – 18:00) <b>Number of participants: 6</b> <b>Location:</b> 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.  <i>Only together with:</i>
216462 S	23.03.2020	<b>Heberle and staff</b> <b>Production and Biophysical Analysis of Selected Membrane Proteins (Part 2)</b> <b>Schedule:</b> 23.03. – 27.03.20 (all-day) <b>Number of participants: 6</b> (for both events the same 6 participants) <b>Location:</b> Arnimallee 14 (Heberle group), Experimental Molecular Biophysics; Department of Physics
216541 a,b S/P	Briefing 08.01.2020	<b>Mankertz</b> <b>Methods in Molecular Virology</b> <b>Schedule:</b> 20.01. – 31.01.20 (all-day including seminar, start: 09:00) <b>Number of participants: 8</b> <b>Location:</b> Robert-Koch-Institute; Seestraße 10, 13353 Berlin

## Methods Modules of Molecular Biomedicine

LV-Nr.	1. Appointment	Description
216601 a,b S/P	02.03.2020	<b>Knaus, Hiepen</b> <b>Cell Biology (advanced course): Signal Transduction</b> <b>Schedule:</b> 02.03. – 13.03.2020 (all-day including seminar, start: 09:00) <b>Number of participants: 6</b> <b>Location:</b> Thielallee 63, room 205 (Knaus group) and room 005 (laboratory)
216613 a, b S/P	09.03.2020	<b>Schülein, Haucke</b> <b>Molecular Pharmacology and Cellular Signal Transduction</b> <b>Schedule:</b> 09.03. – 20.03.20 (9:00 – 17:00) <b>Number of participants: 12</b> <b>Location:</b> Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP); Robert-Rössle-Str.10, 13125 Berlin Buch
216621 a, b S/P	04.11.2019	<b>Stricker</b> <b>Analyzing Musculoskeletal Development in vivo</b> <b>Prerequisite:</b> Attendance of V/S 216701 a,b in a prior semester <b>Schedule:</b> 04.11. – 15.11.19, all-day (9:00 – approx. 17:00; exact schedule will be communicated on first day) <b>Number of participants: 4</b> <b>Location:</b> Thieallee 63, room 121 (Stricker group)
216623 a, b S/P	18.11.2019	<b>Schulz</b> <b>Functional Genomics with CRISPR</b> <b>Schedule:</b> 18.11. – 29.11.2019 (start: 09:00) <b>Number of participants: 6</b> <b>Location:</b> Max Planck Institute for Molecular Genetics, Ihnestraße 63, 14195 Berlin; 2.212.1 (Schulz lab)

## Special Aspects of Molecular Biomedicine

LV-Nr.	1. Appointment	Beschreibung
<b>216730 S</b>	<b>15.10.2019</b>	<b>Hiepen, Knaus, Reichenbach , Stricker</b> <b>Growth factor signalling interplay with cell mechanics</b> <b>Schedule: 15.10. – 17.10.19</b> <b>Number of participants: 5</b> <b>Location: Thielallee 63, room 205 (Knaus group)</b>

## Methods Modules from the Institute of Biology

LV-Nr.	Titel	Spots
23305 a,b,c (V,S,P)	MOD Current and Classic Topics in Evolution and Ecology II (Charlotte Rafaluk-Mohr )	2
23412 a,b (V,S)	MOD Methoden der funktionellen Genomforschung von Mikroorganismen (Haike Antelmann)	4
23420 a,b,c (V,S,P)	MOD Molekulare Neurogenetik (Stephan Sigrist, Atefeh Pooryasin)	1
23421 a,b,c,d (V,S,P,Ü)	MOD Molekulare Pflanzengenetik (Reinhard Kunze Valentin Hammoudi)	2
23422 a,b,c,d (V,S,P,Ü)	MOD Methoden der Pflanzenmolekularbiologie (Reinhard Kunze, Thomas Schmülling, Jan Leuendorf, Valentin Hammoudi)	1
23432 a,b (V,S)	The mammalian brain: structure, function and plasticity (Ursula Koch)	1

**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)!**

<b>METHODS</b>						
<b>Course No</b>	<b>Titel</b>	<b>Lecturer</b>	<b>Strubi</b>	<b>Mobi</b>	<b>Medi</b>	<b>Affi</b>
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	+			
216401 a,b	Protein Engineering	Freund, Alvaro-Benito		+	+	
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		+	+	
216421 a,b	Ribosome Profiling / Methods to Monitor Translation	Chekulaeva		+		
216423 a, b	Quantitative Transcriptomics	Mayer		+	+	
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	+	+		
216541	Methods in Molecular Virology	Mankertz		+	+	
216601 a,b	Cell biology (advanced course): Signal Transduction	Knaus, Hiepen		+	+	
216613 a,b	Molecular Pharmacology and Cellular Signal Transduction	Schüle, Haucke	+	+	+	
216621 a,b	Analyzing Musculoskeletal Development in vivo	Stricker		+	+	
216623 a, b	Functional Genomics with CRISPR	Schulz		+	+	
216730	Growth factor signaling interplay with cell mechanics	Hiepen, Knaus, Reichenbach, Stricker			+	