**M Sc Molecular Life Sciences**

**Special qualification Neuro- and Developmental Biology**

Program for spring semester

-> Please always check CTS (KSL) for details and actual dates!

### KSL Nr. | Eligible for special qualification module NDB (or for general module) | ECTS
---|---|---
25847 | Colloquium in Cell and Developmental Biology, module A and B (each 1.5 ECTS). Retreat module C (1 ECTS). | 1.5
25848 | Prof. P. Meister, Dr. B. Egger | 1.5
25849 | | 1
415819 | Cell and gene therapy, Wed 14-16, IZB | 1.5
PD Dr. A. Marti | | 1
11502 | Molecular Life Sciences Journal Club, Wed 9-10, biweekly, DCB | 2
Dr. A. Eberle | | 2 sem.
11474 | Stem cells and regenerative medicine, Tue 16-17.30 | 2
Prof. V. Enzmann et al. | | 2
2217 | "*"Omics": Practical introduction to genomics and transcriptomics, block course during the summer break (end of June); Registration by email to lecturer Prof. C. Largiadèr | 2.5

### KSL Nr. | Eligible for general module only | ECTS
---|---|---
2221 | Colloquium on Host-Pathogen Interactions, Fri 16.30-18.30, monthly, IZB | 4
Prof. I. Roditi | | 2 sem.
405520 | Genomics of microorganisms, Tue 16-18, week 8-14, DCB | 1.5
Prof. N. Polacek | | 2 sem.
2226 | Membrane biochemistry, Wed 16-18, IBMM | 3
Prof. R.-P. Charles et al. | | 3
2228 | Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS | 5
Profs. J. Fuhrer, D. Rentsch | | 5
2806 | Molecular Parasitology, Fri 11-13, IZB | 3
Prof. I. Roditi et al | | 3
3456 | Advanced medicinal chemistry - from target to drug, Fri 10-12, DCB | 1.5
PD J. Hunziker | | 1.5
3457 | Nucleic acid analogues, DCB, see CTS for schedule | 1.5
Dr. M. Hollenstein | | 1.5
406196 | Applied MS spectroscopy, Thu 13-15, DCB | 1.5
Prof. S. Schürch | | 1.5
9577 | Lipid biology, a major research target of the post-genomic era, Tue 16-18, DCB | 1.5
Prof. A. Stocker | | 1.5
4537 | Molecular biology of inflammation, Thu 14-16, DCB | 3
Prof. B. Engelhardt et al. | | 3
4540 | Selected topics in clinical immunology, Thu 16-18, IZB | 3
Prof. S. von Gunten | | 3
4544 | Molecular pathology, Fri 9-11, Institute of Pathology | 3
Prof. E. Vassella | | 3
8172 | Molecular plant ecology, Mon 9-10, IPS | 2.5
Prof. C. Kuhlemeier | | 2.5
27340 | Disease & Repair in the CNS, Thu 12-13, IZB | 1.5
Profs. V. Enzmann, H.R. Widmer | | 1.5
27339 | Beyond genetic inheritance: epigenetic gene regulation, chromatin structure and nuclear organization, Tue 10-12, IZB | 3
Prof. P. Meister | | 3
464918 | Numerical Analysis of High Dimensional Data: From Simple Statistics to Multifactorial Data Integration, see CTS for details | 3
PD Dr. Alban Ramette | | 3

The special qualification module (SPQ-NDB) must comprise 15 ECTS points from the learning units shown in boldface.

For the general module (GEN), additional credits can be accumulated from master courses of all five specialisations. This module may also contain up to 10 ECTS points in learning units from the BSc programs in Biology, Biochemistry and Molecular Biology, or Chemistry and Molecular Sciences. If a learning unit is not already programmed in KSL, students should ask the head of studies for approval. On request, learning units from outside institutions and other programs (e.g. UNIFR or the Swiss Institute for Bioinformatics) may also be included.

The total number of credits of both modules must be at least 30 ECTS points.

Additionally, while the students are enrolled in the program, they must follow two hours per week of seminar series according to recommendations made by the prospective MSc supervisor.

* Please note that space restrictions may apply to lab courses.

N. Polacek / A. Hochuli, 13.02.2020
# Time table for spring semester

*Learning units shown in turquoise blue qualify for the SPQ-NDB*

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>08.15-09.00</td>
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<td>Lipid biology</td>
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<td>09.15-10.00</td>
<td>Molecular plant ecology</td>
<td>MLS Journal Club</td>
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<td>Molecular pathology</td>
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<td>10.15-11.00</td>
<td>Beyond genetic inheritance</td>
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<td>Plant metabolism (lectures)</td>
<td>Advanced medicinal chemistry – From target to drug Nucleic acid analogues</td>
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<td>11.15-12.00</td>
<td>Cell Biology Seminars</td>
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<td>Molecular parasitology</td>
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<td>12.15-13.00</td>
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<td>Cell Biology Progress Reports</td>
<td>Disease &amp; Repair in the CNS</td>
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<td>13.15-14.00</td>
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<td>Applied MS spectroscopy</td>
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<td>14.15-15.00</td>
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<td>Cell and gene therapy</td>
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<td>Molecular biology of inflammation</td>
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<td>15.15-16.00</td>
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<tr>
<td>16.15-17.00</td>
<td>Stem cells and regenerative medicine</td>
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