Please always check KSL for details and actual dates!

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**M Sc Molecular Life Sciences**

**Special qualification Microbiology/Immunology**

**Program for spring semester**

The special qualification module (SPQ-MI) 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 (admin.mls@lists.unibe.ch). 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, 24.03.17

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<table>
<thead>
<tr>
<th>KSL Nr.</th>
<th>Eligible for special qualification module MI (or for general module)</th>
<th>ECTS</th>
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<tbody>
<tr>
<td>2221</td>
<td>Colloquium on Host-Pathogen Interactions, Fri 16.30-18.30, IZB Prof. I. Roditi</td>
<td>4</td>
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<td>4537</td>
<td>Molecular biology of inflammation, Thu 14-16, DCB Prof. B. Engelhardt et al.</td>
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<td>4540</td>
<td>Selected topics in clinical immunology, Thu 16-18, IZB Prof. S. von Gunten et al.</td>
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<td>4541</td>
<td>* Practical course in microbiological and immunological diagnostics, Block course (primarily for students starting the MSc program), limited to 6 participants each during the summer break * Prof. B. Gottstein, P. Kuhnert, N. Müller, R. Zanoni, Dr. F. Suter</td>
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<td>4544</td>
<td>Molecular pathology, Fri 9-11, Institute of Pathology Prof. E. Vassella</td>
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<td>2226</td>
<td>Membrane biochemistry, Wed 16-18, IBMM Prof. M. Hediger et al.</td>
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<td>415819</td>
<td>Cell and gene therapy, Wed 14-16, IZB PD Dr. A. Marti</td>
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<td>11474</td>
<td>Stem cells and regenerative medicine, Tue 16-17.30 PD V. Enzmann et al.</td>
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<td>Genomics of microorganisms, Tue 16-18, DCB Prof. N. Polacek</td>
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<th>KSL Nr.</th>
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<tr>
<td>2217</td>
<td>* &quot;Omics&quot;: Practical introduction to genomics and transcriptomics, block course during the summer break (end of June); Registration by email to lecturer Prof. C. Largiadèr</td>
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<td>9577</td>
<td>Lipid biology, a major research target of the post-genomic era, Tue 16-18, DCB Prof. A. Stocker</td>
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<td>2798</td>
<td>Human medical microbiology and infectiology, Thu 10.30-12.15. DCB Dr. F. Suter-Riniker</td>
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<tr>
<td>2802</td>
<td>Clinical microbiology of animal and zoonotic infectious agents. A. Bacteria, Mon 8-10, Vetsuisse faculty Profs V. Perreten, A. Burnens</td>
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<tr>
<td>2803</td>
<td>Clinical microbiology of animal and zoonotic infectious agents. B. Viruses, Mon 13-15, Vetsuisse PD Dr. M. Schweizer et al.</td>
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<td>2806</td>
<td>Molecular Parasitology, Fri 11-13, IZB Profs. I. Roditi et al.</td>
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<td>Advanced medicinal chemistry - from target to drug, Fri 10-12, DCB PD J. Hunziker</td>
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<td>Nucleic acid analogues, Fri 10-12, DCB Dr. P. Küpfer, Dr. M. Hollanstein</td>
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<td>Molecular Life Sciences Journal Club, Thu 9-10, bi-weekly, IZB Dr. A. Eberle</td>
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<td>27340</td>
<td>Disease &amp; Repair in the CNS, Thu 12-13, IZB Prof. H.R. Widmer, PD V. Enzmann</td>
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<td>407145</td>
<td>Clinical Chemistry and Laboratory Medicine- An Introduction, Mon 13-15, DCB Dr. C. Fuhrer</td>
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<td>430236</td>
<td>Bioenergetics – from archaeal sorcery to human diseases, Tue 10-12, week 1-7, DCB Prof. Ch. Von Ballmoos</td>
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Time table for spring semester

*Learning units shown in dark blue qualify for the module SPQ-MI*

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<th>Monday</th>
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<td>08.15-</td>
<td>Clinical microbiology of animal and zoonotic infectious agents. A.</td>
<td>Lipid biology</td>
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<td>12.30-13.30 Cell biology progress reports</td>
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<td>Clinical Chemistry and Laboratory Medicine-</td>
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