### Program for fall semester

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

<table>
<thead>
<tr>
<th>KSL Nr.</th>
<th>Eligible for special qualification module CMB (or for general module)</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2225</td>
<td>Laboratory safety. Block course, 3 days *, registration in KSL, IPS Dr. P. von Ballmoos, Prof. Dr. D. Rentsch</td>
<td>1.5</td>
</tr>
<tr>
<td>11399</td>
<td>Block Course B. Molecular Genetics of Speciation in Plants (by arrangement) *, registration in KSL Prof. C. Kuhlemeier, Drs. K. Esfeld, A. Amrad</td>
<td>5</td>
</tr>
<tr>
<td>2216</td>
<td>&quot;Omics&quot; - from genomes to metabolomes, Thu 14-16, ICB Prof. Dr. C.R. Largiader, Dr. Rémy Bruggmann</td>
<td>3</td>
</tr>
<tr>
<td>11502</td>
<td>Molecular Life Science Journal Club, Wed 9-10, bi-weekly, DCB Dr. A. Eberle</td>
<td>2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>KSL Nr.</th>
<th>Eligible for general module only</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4582</td>
<td>Molecular Genetics of Model Organism Development (BeFri), Tue 15-17, UniFi and UniBe Prof. B. Suter, Dr. A. Puoti</td>
<td>3</td>
</tr>
<tr>
<td>4592</td>
<td>Neurogenetics (BeFri), Tue 13-15, UniFi and UniBe Dr. B. Egger</td>
<td>3</td>
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<tr>
<td>2222</td>
<td>Dynamics of cellular contacts: Cell-cell contacts and cell motility, Thu 16-18, ICB Profs. B. Engelhardt, J. Stein, et al.</td>
<td>3</td>
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<tr>
<td>6983</td>
<td>The genetic code, Thu 08-10, weeks 8-14, DCB Prof. A. Schneider</td>
<td>1.5</td>
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<tr>
<td>412058</td>
<td>RNA Biology I (every 4th semester), Thu 16-18, DCB Prof. N. Polacek</td>
<td>3</td>
</tr>
<tr>
<td>412073</td>
<td>RNA Biology II (every 4th semester), Thu 16-18, DCB Prof. N. Polacek</td>
<td>3</td>
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<tr>
<td>3019</td>
<td>Principles of nucleic acids, Fri 10-12, weeks 1-7, DCB Prof. R. Häner</td>
<td>1.5</td>
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<tr>
<td>3021</td>
<td>Basic medicinal chemistry - principles of drug action, Fri 10-12, weeks 8-14, DCB Dr. C. Fuhrer</td>
<td>1.5</td>
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<tr>
<td>26795</td>
<td>Chemical biology I (every 4th semester), Fri 13-15, DCB Prof. J.-L. Reymond</td>
<td>3</td>
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<tr>
<td>1361</td>
<td>Human genetic history. Weeks 8-14 Wed 13-15, Haller Auditorium Prof. L. Excoffier</td>
<td>1.5</td>
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<tr>
<td>9256</td>
<td>Lecture Series on Advanced Microscopy. MIC, Fri 8-10, Institute of Anatomy PD Dr. R. Lyck</td>
<td>3</td>
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<tr>
<td>100173</td>
<td>Colloquium in Plant Genetics / Kolloquium in Pflanzengenetik, Mon 10-11, IPS Prof. C. Kuhlemeier</td>
<td>1.5</td>
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<tr>
<td>10451</td>
<td>Colloquium in Plant Transport Physiology, Mon 11-12.30, IPS Prof. D. Rentsch</td>
<td>1.5</td>
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<tr>
<td>10601</td>
<td>Seminar in Stress Physiology, Tue 14-16, IPS Prof. D. Rentsch</td>
<td>1.5</td>
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<tr>
<td>2793</td>
<td>Allgemeine Biologie pathogener Mikroorganismen A: Bakteriologischer Teil, Mon 8-10, Vetsuisse Profs. V. Perreten, P. Kuhnert</td>
<td>3</td>
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<tr>
<td>2794</td>
<td>Allgemeine Biologie pathogener Mikroorganismen, B: Virologischer Teil, Mon 13-15, Vetsuisse Prof. M. Schweizer et al.</td>
<td>3</td>
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<tr>
<td>3809</td>
<td>Cellular and molecular immunology, Thu 10-12, ICB Prof. Ch. Müller and others</td>
<td>3</td>
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<tr>
<td>25455</td>
<td>Mikroskopische Methoden mit Praktikum; Tue 16-17 and 3x Tue 13-16, IZB Dr. M. Brauchle</td>
<td>3</td>
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<tr>
<td>2800</td>
<td>Immunologie II, Wed 14-16, ICB PD Dr. A. Eggel et al.</td>
<td>3</td>
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<tr>
<td>102426</td>
<td>Praktikum zu Immunologie II, Tue/Fri, 4 weeks in Nov/Dec, IZB (not shown on time table). Prof. V. Heussler, PD Dr. A. Marti et al.</td>
<td>2.5</td>
</tr>
<tr>
<td>2804</td>
<td>Medizinische Parasitologie und tropische Parasiten, Tue 8-11, Vetsuisse Profs. B. Lundström-Stadelmann N. Müller, A. Hemphill</td>
<td>3</td>
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<tr>
<td>4542</td>
<td>Pathogenesis and evolution of infectious diseases, Fri 14-16, DCB PD Dr. L. Hathaway et al.</td>
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<tr>
<td>446839</td>
<td>Antibiotic-resistant bacteria and one health: from the plate to the bedside; Wed 14-16, IFIK Prof. Dr. A. Endimiani et al.</td>
<td>3</td>
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</tbody>
</table>
The special qualification module [SPQ-PP] must comprise 15 ECTS points from the learning units shown in bold face. 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.

### Time table for fall semester

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

<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><strong>08.15-09.00</strong></td>
<td><strong>11.15-12.00</strong></td>
<td><strong>16.15-17.00</strong></td>
<td><strong>17.15-18.00</strong></td>
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<tr>
<td><strong>09.15-10.00</strong></td>
<td>Colloquium in Plant Transport Physiology</td>
<td>Colloquium in Plant Nutrition and Ecophysiology</td>
<td>Lecture Series on Advanced Microscopy</td>
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<tr>
<td><strong>10.15-11.00</strong></td>
<td>Colloquium in Plant Genetics</td>
<td>MLS Journal Club</td>
<td>Principles of nucleic acids</td>
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<tr>
<td><strong>13.15-14.00</strong></td>
<td>Allgemeine Biologie pathogener Mikroorganismen A: Bakteriologischer Teil</td>
<td>Neurogenetics</td>
<td>Antibiotic-resistant bacteria and one health: from the plate to the bedside</td>
<td>“Omics”</td>
</tr>
<tr>
<td><strong>14.15-15.00</strong></td>
<td>Seminar in Stress Physiology</td>
<td>Human genetic history</td>
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<tr>
<td><strong>15.15-16.00</strong></td>
<td>Colloquium in Plant Sciences</td>
<td>Molecular genetics of model organism development</td>
<td>Dynamics of cellular contacts</td>
<td>RNA Biology I or II</td>
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<tr>
<td><strong>16.15-17.00</strong></td>
<td>Mikroskopische Methoden</td>
<td>RNA Biology I or II</td>
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