**M Sc Molecular Life Sciences**  
**Special qualification** Cell and Molecular Biology  
**Program for fall semester**

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

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<th>KSL Nr.</th>
<th>Eligible for special qualification module CMB (or for general module)</th>
<th>ECTS</th>
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| 2216    | "Omics" - from genomes to metabolomes, Thu 14-16, ICB  
Prof. Dr. C. Largiader, PD Dr. R. Bruggmann | 3    |
| 2222    | Dynamics of cellular contacts: Cell-cell contacts and cell motility, Thu 16-18, ICB  
Prof. B. Engelhardt and others | 3    |
| 3809    | Cellular and molecular immunology, Thu 10-12, ICB  
Prof. M. Bachmann et al. | 3    |
| 4542    | Pathogenesis and evolution of infectious diseases, Fri 14-16, DCBP  
PD Dr. L. Hathaway et al. | 3    |
| 4582    | Molecular Genetics of Model Organism Development (BEFRI), Tue 15-17, UniFR and UniBE  
Prof. B. Suter, Dr. A. Puoti | 3    |
| 4693    | The genetic code, Thu 08-10, weeks 8-14, ICB  
Prof. A. Schneider | 1.5  |
| 412058  | RNA Biology I (every 4th semester), Thu 16-18, DCBP  
Prof. N. Polacek | 3    |
| 412073  | RNA Biology II (every 4th semester), Thu 16-18, DCBP  
Prof. N. Polacek | 3    |
| 435913  | From organelle biochemistry to human disease, Tue 10-12, week 1-7, ICB  
Prof. J-M Nuoffer et al. | 1.5  |
| 473205  | Systems Biology (BEFRI), Tue 15-17, please see CTS for venue!  
Prof. B. Towbin et al. | 3    |

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<th>KSL Nr.</th>
<th>Eligible for general module only</th>
<th>ECTS</th>
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| 1361    | Human genetic history. Weeks 8-14, Wed 13-15 (every 4th semester), Haller Auditorium  
Prof. L. Excoffier | 1.5  |
| 2225    | Laboratory safety. Block course, 3 days, registration in KSL, IPS  
Dr. P. von Ballmoos, Prof. Dr. D. Rentsch | 1.5  |
| 3019    | Principles of nucleic acids, Fri 10-12, weeks 1-7, DCBP  
Prof. R. Häner | 1.5  |
| 3460    | Radicals in Organic Synthesis, Thu 10-12, DCBP  
Dr. F. Dénès | 3    |
| 9256    | Lecture Series on Advanced Microscopy. MIC, Fri 8-10, ANA  
Prof. R. Lyck | 3    |
| 10441   | Advanced plant biology (B), lectures only: Mon 13-15, Thu 9-11, 3 separate blocks, IPS  
Prof. D. Rentsch | 5    |
| 10442   | Mikroskopische Methoden mit Praktikum; Tue 16-17 and 3x Tue 13-16, ICB  
Dr. S. Knüsel | 3    |
| 25469   | Neurogenetics, Tue 13-15, UniFR and UniBE  
Dr. B. Egger | 3    |
| 27240   | Disease & Repair in the CNS, Thu 12-13, ICB  
Prof. V. Enzmann et al. | 1.5  |
| 406196  | Applied MS spectroscopy, Mon 13-15, week 1-7, DCBP  
Prof. S. Schürch | 1.5  |
| 455614  | Functional Ecology (lecture and practical); Dates to be determined, IPS  
Prof. C. Robert, Dr. P. Mateo | 5    |
| 448983  | Supramolecular Chemistry and Applications of Lipids. Fri 10-12, week 8-14, DCBP  
Prof. P. Monnard | 1.5  |
| 478583  | Introduction to Microbial Ecology and Evolution, Mon 13-15, IEE  
Dr. D. Johnson | 2    |
| 485489  | MCID Colloquium: what is pandemic preparedness? Wed 10-12 (8x), DCBP  
PD Dr. Dikman et al. | 2    |
| 485837  | Basic Immunology. Wed 14-16, ICB  
Prof. V. Heusler, Dr. P. Fernandez | 3    |
| 486669  | Critical assessment of scientific data and literature in life sciences; Wed, 16-18, week 8-14, DCBP  
Prof. O. Mühlemann, Dr. S. Nasi | 1.5  |

The special qualification module (SPO-CMB) 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.

N. Polacek / A. Hochuli, 01.07.2024
Additionally, while the students are enrolled in the program, they must follow two hours per week of seminar series of the respective institute according to recommendations made by the prospective MSc supervisor.