M Sc Molecular Life Sciences

Special qualification Cell and Molecular Biology

Program for spring semester

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

KSL Nr.	Eligible for special qualification module CMB	ECTS
	(or for general module)	
2221	Colloquium on host-pathogen interactions, Fri 16.30-18.30, monthly (year course, begin either in fall or spring semester), ICB Prof. C. Faso et al.	4 (2 sem.)
2226	Membrane biochemistry, Wed 16-18, IBMM PD Dr. M. Lochner et al.	3
4537	Molecular biology of inflammation, Thu 14-16, DCBP Prof. B. Engelhardt et al.	3
4540	Selected topics in clinical immunology, Thu 16-18, ICB Prof. S. von Gunten et al.	3
4544	Molecular pathology, Fri 9-11, Institute of Pathology Prof. E. Vassella et al.	3
11470	Cellular and Genetic Networks (BEFRI), Tue 17-19, UniFR and UniBE Prof. P. Meister, Dr. B. Egger	3
11474	Stem cells and regenerative medicine, Tue 16-17.30, DBMR Prof. V. Enzmann et al.	2
25847 25848 25849	Colloquium in Cell and Developmental Biology, module A and B (each 1.5 ECTS); Retreat module C (1 ECTS) Prof. P. Meister, Dr. B. Egger	1.5 1.5 1
405520	Genomics of microorganisms, Tue 16-18, week 8-14, DCBP	1.5
415819	Cell and gene therapy, Wed 14-16, ICB PD Dr. A. Marti	1.5
430236	Bioenergetics – from archaeal sorcery to human diseases, Tue 10-12, week 1-7, DCBP Prof. Ch. von Ballmoos	1.5
KSL Nr.	Eligible for general module only	ECTS
KSL Nr. 2228	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch.	ECTS 5
KSL Nr. 2228 2806	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al.	ECTS 5 3
KSL Nr. 2228 2806 3456	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker	ECTS 5 3 1.5
KSL Nr. 2228 2806 3456 3457	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein	ECTS 5 3 1.5 1.5
KSL Nr. 2228 2806 3456 3457 27339	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein Beyond genetic inheritance: epigenetic gene regulation, chromatin structure and nuclear organization, Tue 10-12, ICB Prof. P. Meister	ECTS 5 3 1.5 1.5 3
KSL Nr. 2228 2806 3456 3457 27339 406196	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein Beyond genetic inheritance: epigenetic gene regulation, chromatin structure and nuclear organization, Tue 10-12, ICB Prof. P. Meister Applied MS spectroscopy, Thu 13-15, weeks 8-14, DCBP PD S. Schürch	ECTS 5 3 1.5 1.5 3 1.5
KSL Nr. 2228 2806 3456 3457 27339 406196 436479	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein Beyond genetic inheritance: epigenetic gene regulation, chromatin structure and nuclear organization, Tue 10-12, ICB Prof. P. Meister Applied MS spectroscopy, Thu 13-15, weeks 8-14, DCBP PD S. Schürch Solving Current Challenges in Plant-Herbivore Interactions, block course, IPS Prof. M. Erb, Prof. C. Robert	ECTS 5 3 1.5 1.5 3 1.5 5
KSL Nr. 2228 2806 3456 3457 27339 406196 436479 464918	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein Beyond genetic inheritance: epigenetic gene regulation, chromatin structure and nuclear organization, Tue 10-12, ICB Prof. P. Meister Applied MS spectroscopy, Thu 13-15, weeks 8-14, DCBP PD S. Schürch Solving Current Challenges in Plant-Herbivore Interactions, block course, IPS Prof. M. Erb, Prof. C. Robert Numerical Analysis of High Dimensional Data: From Simple Statistics to Multifactorial Data Integration, Mon 15-17, IFIK PD Dr. Alban Ramette	ECTS 5 3 1.5 1.5 3 1.5 5 3
KSL Nr. 2228 2806 3456 3457 27339 406196 436479 464918 468463	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein Beyond genetic inheritance: epigenetic gene regulation, chromatin structure and nuclear organization, Tue 10-12, ICB Prof. P. Meister Applied MS spectroscopy, Thu 13-15, weeks 8-14, DCBP PD S. Schürch Solving Current Challenges in Plant-Herbivore Interactions, block course, IPS Prof. M. Erb, Prof. C. Robert Numerical Analysis of High Dimensional Data: From Simple Statistics to Multifactorial Data Integration, Mon 15-17, IFIK PD Dr. Alban Ramette Enzymes in Catalysis, various weekdays, DCBP Prof. F. Paradisi	ECTS 5 3 1.5 1.5 3 1.5 5 3 1.5
KSL Nr. 2228 2806 3456 3457 27339 406196 436479 464918 468463 468464	Eligible for general module only * Plant metabolism, lectures: Thu 10-12, practicals: Thu 13-17, IPS Profs. U. Feller, J. Fuhrer, D. Rentsch. Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al. Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein Beyond genetic inheritance: epigenetic gene regulation, chromatin structure and nuclear organization, Tue 10-12, ICB Prof. P. Meister Applied MS spectroscopy, Thu 13-15, weeks 8-14, DCBP PD S. Schürch Solving Current Challenges in Plant-Herbivore Interactions, block course, IPS Prof. M. Erb, Prof. C. Robert Numerical Analysis of High Dimensional Data: From Simple Statistics to Multifactorial Data Integration, Mon 15-17, IFIK PD Dr. Alban Ramette Enzymes in Catalysis, various weekdays, DCBP Prof. F. Paradisi Drug Delivery and Drug Targeting, Thu 15-17, week 1-7, DCBP Prof. P. Luciani, Dr. S. Aleandri	ECTS 5 3 1.5 1.5 3 1.5 5 3 1.5 1.5 1.5

The special qualification module (SPQ-CMB) 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.