

| MODULE 1 | | | | |
|--|----------------------|--------------------|------------|--|
| Course | Responsible teacher | Type of evaluation | | Final mark |
| | | Exam | Validation | |
| Sequence a Genome I | Engel P. | oral 20 min | No | mark of the oral exam |
| Write a Review | Benton R. | - | Yes | 2/3 written review 1/3 participation in class |
| Biotechnology | Poirier Y. | written 1h | No | mark of the written exam |
| CRISPR-Cas9 Genome Editing | van Leeuwen J. | - | Yes | two written reports : arithmetical mean |
| Development of the Nervous System | Braissant O. | oral 15 min | No | mark of the oral exam |
| Molecular Mechanisms of Evolution | Benton R. | written 2h | No | mark of the written exam |
| Plant Functional Genetics | Poirier Y. | written 1h | No | mark of the written exam |
| Data Analysis | Salamin N. | - | Yes | written reports : arithmetical mean |
| Advanced Data Analysis | Salamin N. | - | Yes | written reports : arithmetical mean |
| Case Studies in Bioinformatics | Bergmann S. | - | Yes | mark of the written report |
| Programming for Bioinformatics | Salamin N. | oral 15 min | No | mark of the oral exam |
| Advanced Microbial Genetics | Collier J., Pelet S. | oral 15 min | No | mark of the oral exam |
| Bacterial Genomes and Genome Evolution | van der Meer J. | written 1h | No | mark of the written exam |
| Fungal Virulence and Pathogenicity | Sanglard D. | written 1h | No | mark of the written exam |
| Immunology and Infectious Diseases | Roger T. | written 1h | No | mark of the written exam |
| Plant Interactions with Microbes and Insects | Keel C. | oral 30 min | No | mark of the oral exam |
| Virus-Host Interactions | Gouttenoire J. | written 1h | No | mark of the written exam |

| MODULE 2 | |
|---------------------------|--|
| First Step Project | 1/3 written report 1/3 oral defence 1/3 practical work |

| MODULE 3 | | | | |
|--|-------------------------|--------------------|------------|--|
| Course | Responsible teacher | Type of evaluation | | Final mark |
| | | Exam | Validation | |
| Compulsory courses | | | | |
| Sequence a Genome II | Engel P. | - | Yes | 1/2 oral presentation 1/2 written report |
| Write a Fellowship | Benton R. | - | Yes | 1/3 oral presentation 2/3 written report |
| Optional courses | | | | |
| Epigenetics and Cell Differentiation | Gasser S. | - | Yes | 1/2 oral presentation 1/2 short written essay |
| Epitranscriptomics and RNA Dynamics | Roignant J.-Y. | - | Yes | mark of the written report |
| Genomics, Proteomics and Quantitative Genetics | Franken P. | written 2h | No | mark of the written exam |
| Herbivory : Why is the Earth Green ? | Farmer E. | - | Yes | 1/2 oral presentation 1/2 participation in class |
| Metabolic Signaling Pathways in Health and Disease | Fajas L. | - | Yes | 2/3 oral presentation 1/3 participation in class |
| Plant and Animal Domestication : from History to Molecular Mechanisms | Hardtke C. | - | Yes | 1/2 oral presentation 1/2 leading to paper discussions |
| Scientific Communication - Scientific Hands-on Workshop Module (MSc BEC) | Kaufmann A., Reymond P. | - | Yes | 2/3 conception, implementation and presentation of an activity for the general public 1/3 written essay |
| LTK1 Module : Training in Animal Experimentation | Broillet M.-C. | - | Yes | certificate |
| Supplement : Sequence a Genome | Engel P. | - | Yes | participation (according to rubrics) |
| Advanced Population Genetics | Malaspinas A.-S. | - | Yes | 1/2 oral presentation 1/2 exercises |
| Bioinformatic Algorithms | Dessimoz C. | oral 20 min | No | mark of the oral exam |
| Computational Thinking in BioMedicine | Ciriello G. | - | Yes | mark of the written report |
| Comparative Genomics : from Thousands of Genomes to Single Cells (MSc BEC) | Arguello R. | oral 15 min | No | mark of the oral exam |
| Industrial Bioinformatics | Xenarios I. | - | Yes | mark of the written report |
| Phylogeny and Comparative Methods (MSc BEC) | Salamin N. | - | Yes | mark of the written report |
| Anti-Infective Agents | Sanglard D. | written 2h | No | mark of the written exam |
| Bacterial Virulence and Pathogenesis | Greub G. | written 2h | No | mark of the written exam |
| Chromosome Organization and Dynamics | Gruber S. | - | Yes | 1/2 written report 1/2 participation in class |
| Environmental Microbiology | van der Meer J. | - | Yes | mark of the written report |
| Epidemiology of Human Pathogens | Blanc D. | - | Yes | mark of the oral presentation |
| Microbes as Tools in Experimental Biology | Sanglard D. | - | Yes | 1/2 oral presentation 1/2 participation in class |
| Microbial Cytoskeleton - A Scientific Writing Class | Martin S. | - | Yes | mark of written paper summary |
| Viral Pathogenesis and Emerging Viruses | Ciuffi A. | - | Yes | 1/2 oral presentation and participation in class 1/2 exercises |

| MODULE 4 | |
|----------------------|---|
| Master Thesis | 1/3 written report 1/3 oral defence 1/3 practical research work |

Due to the sanitary evolution related to COVID-19, the study plans may be adapted during the semester as follows:

- possibility to switch from one mode of teaching to another (face-to-face <-> distance, synchronous <-> asynchronous, switch to co-modal teaching where it was not initially planned).
- adaptation of evaluation modalities, without inducing derogations from the Study Regulations (oral <-> written, exam <-> validation, individual work <-> group work, practical work <-> theoretical work, face-to-face evaluation <-> online evaluation, etc.).
- alternative or time-shifted modalities for teachings, internships, practical work, fieldworks and camps that could not take place or teachings that could no longer take place in the form initially planned.

Students are invited to consult this document regularly (Study Plan & Evaluation Procedure)