Biologie-santé

M2 - Systems & synthetic biology

labelisation

Diplôme national de l'Enseignement Supérieur

- formation initiale
- formation continue

Durée : 1 an

Présentation

Consulter la page du Master 2 sur le site de l'Université Paris-Saclay

Programme

Semestre 3

Elective Modules	12.5 ECTS
- Choix 4	
5 option(s) au choix parmi 11	
- Network Systems : Modeling and Analysis	2.5 ECTS
- Statistical Analysis of Large Scale Gene Expression Data	2.5 ECTS
- Cell Factory Design	2.5 ECTS
- Environmental Biotech and Upstream Processing	2.5 ECTS
- Computional Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computional Protein Design	2.5 ECTS
- Design of Experiments and Machine Learning in Synthetic	2.5 ECTS
- Nanobiology	2.5 ECTS
- Rational Protein Engineering	2.5 ECTS
- Choix 1	
5 option(s) au choix parmi 11	
- Network Systems : Modeling and Analysis	2.5 ECTS
- Statistical Analysis of Large Scale Gene Expression Data	2.5 ECTS
- Cell Factory Design	2.5 ECTS
- Environmental Biotech and Upstream Processing	2.5 ECTS
- Computional Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computional Protein Design	2.5 ECTS
- Design of Experiments and Machine Learning in Synthetic	2.5 ECTS
- Nanobiology	2.5 ECTS
- Rational Protein Engineering	2.5 ECTS
- Choix 3	
5 option(s) au choix parmi 11	
- Network Systems : Modeling and Analysis	2.5 ECTS
- Statistical Analysis of Large Scale Gene Expression Data	2.5 ECTS
- Cell Factory Design	2.5 ECTS
- Environmental Biotech and Upstream Processing	2.5 ECTS
- Computional Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computional Protein Design	2.5 ECTS
- Design of Experiments and Machine Learning in Synthetic	2.5 ECTS
- Nanobiology	2.5 ECTS
- Rational Protein Engineering	2.5 ECTS
- Choix 5	
5 option(s) au choix parmi 11	
- Network Systems : Modeling and Analysis	2.5 ECTS
- Statistical Analysis of Large Scale Gene Expression Data	2.5 ECTS
- Cell Factory Design	2.5 ECTS
- Environmental Biotech and Upstream Processing	2.5 ECTS
- Computional Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computional Protein Design	2.5 ECTS
- Design of Experiments and Machine Learning in Synthetic	2.5 ECTS
- Nanobiology	2.5 ECTS
- Rational Protein Engineering	2.5 ECTS
- Choix 2	
5 option(s) au choix parmi 11	
- Network Systems : Modeling and Analysis	2.5 ECTS
- Statistical Analysis of Large Scale Gene Expression Data	2.5 ECTS
- Cell Factory Design	2.5 ECTS
- Environmental Biotech and Upstream Processing	2.5 ECTS
- Computional Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computional Protein Design	2.5 ECTS
- Design of Experiments and Machine Learning in Synthetic	2.5 ECTS
- Nanobiology	2.5 ECTS
- Rational Protein Engineering	2.5 ECTS
Core Modules	17.5 ECTS
- Metabolic Engineering	3.5 ECTS
- Biosafety.Sociological Questions on Synthetic Biology	2 ECTS
- Synthetic Biology Practical Course	5 ECTS
- Biological Parts and Devices	3.5 ECTS
- Genome Engineering	3.5 ECTS

Refresher Courses

- Introduction to Biology
- Introduction to Mathematics and Computer Science for Biology

Semestre 4

Research Internship	30 ECTS
- Research Internship	30 ECTS