

M2 - Systems & synthetic biology

- ▶ formation initiale
- ▶ formation continue



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
- Computational Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computational 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
- Computational Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computational 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
- Computational Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computational 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
- Computational Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computational 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
- Computational Inference and Modeling of Biological Networks	2.5 ECTS
- Industrial Biotech and Downstream	2.5 ECTS
- Chips for Molecular Evolution	2.5 ECTS
- Computational 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

Contacts

Responsable : Iona Popescu✉ iona.popescu@univ-evry.fr

Scolarité : Aurélie Dekoninck✉ aurelie.dekoninck@univ-evry.fr 01 64 85 34 13

Vous relevez de la FC si vous avez plus de 2 ans d'interruption d'études après votre parcours initial.

✉ fc@univ-evry.fr 01 69 47 71 01