

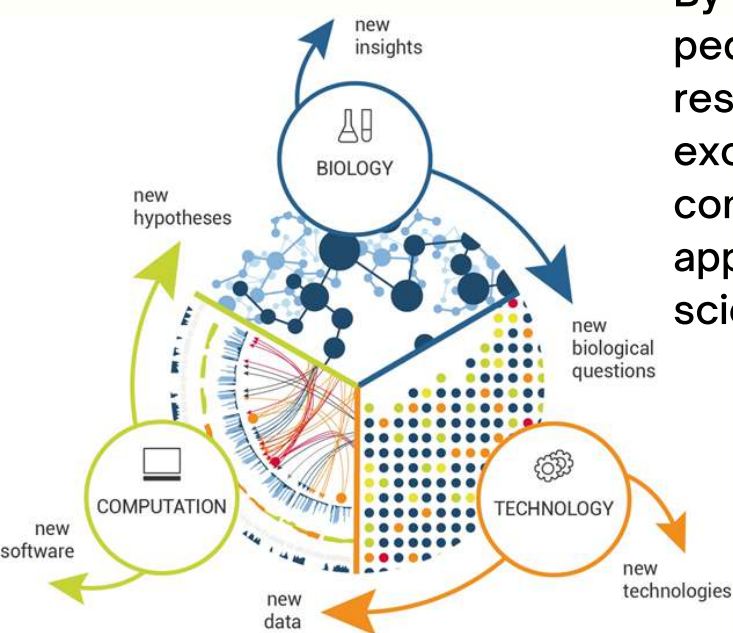
International Master 1

Microbial and Plant Systems Biology

“Systems biology is based on the understanding that the whole is greater than the sum of the parts”.

Dr. N. Baliga, ISB.

By combining fundamental courses, active pedagogical approaches and training through research within our network of laboratories of excellence, students will learn how to combine modelling and experimental approaches in challenging domain of plant sciences and microbiology.



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Program

The pluridisciplinary Master 1 MPSB program is composed of two semesters of study divided into 4 parts for a total of 60 ECTS. It is part of so-called "active" teaching practices, by favouring the dynamic participation of students and encouraging tutoring and training through research in laboratories.

Semester 1	Semester 2	
Fundamentals in Biology	Synthetic Biology	
Fundamentals in Statistics	Genome Engineering	
Teach System Biology Project	Cellular Economics	
Adopt a gene project	Elective	Specialized metabolites
System Biology		How to build a plant?
Workshop on Plant Microbes Interactions	Lab rotations (3 weeks)	
French as a foreign language (optional)	Research Project	
	Research Laboratory Internship (8 weeks)	

Pursuit and skills

International track in France is a 2-year program that combines a Master 1 program for English-speaking students with any of the international M2 programs offered by the Master of Physiology and Integrative Biology track.

At the end of the program, students will be able to :

- Identify and describe current concepts of biology applied to plant and microbial systems.
- Apply a research approach in the study of plant and microbial systems.
- Experiment and practice under laboratory conditions and produce knowledge.
- Analyse, inventory and interpret data and knowledge in order to produce a synthesis and explain it orally and/or in writing. Collaborate and intervene within a group.

Contacts



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<https://www.master-microbial-plant-systems-biology.fr/>

