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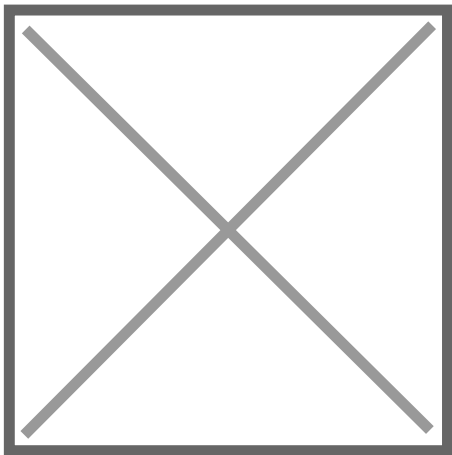
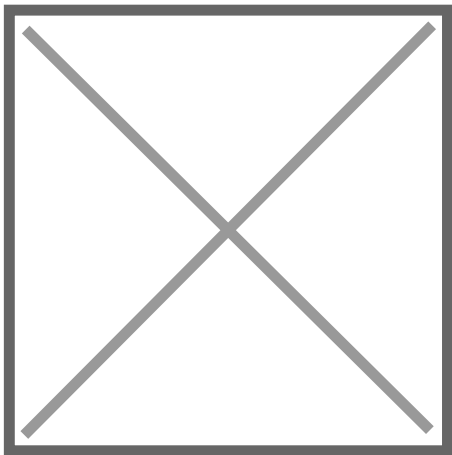
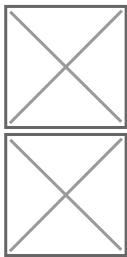
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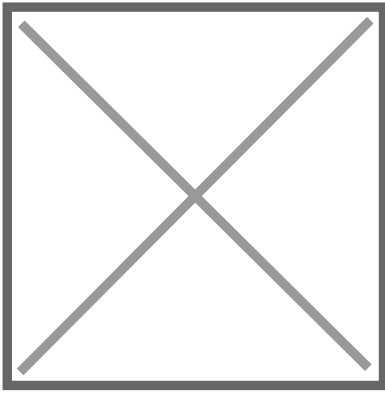
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Add to Compare

M1 International Track, sino-french program



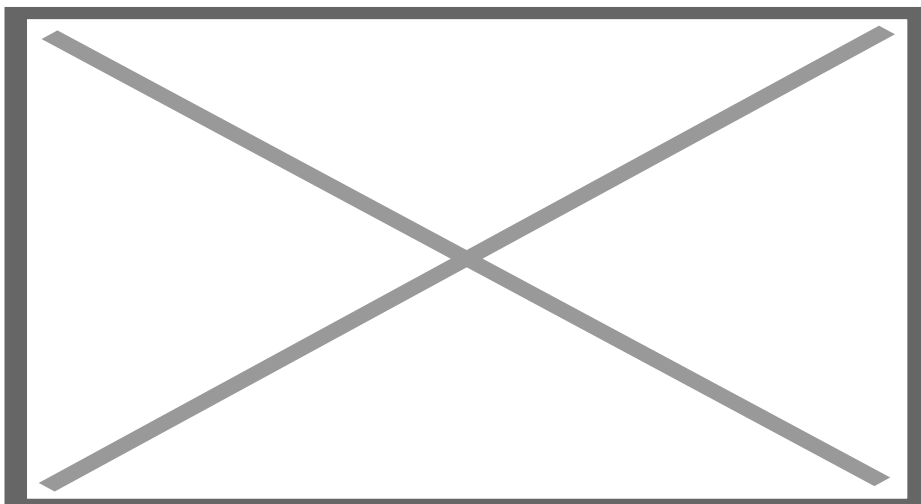
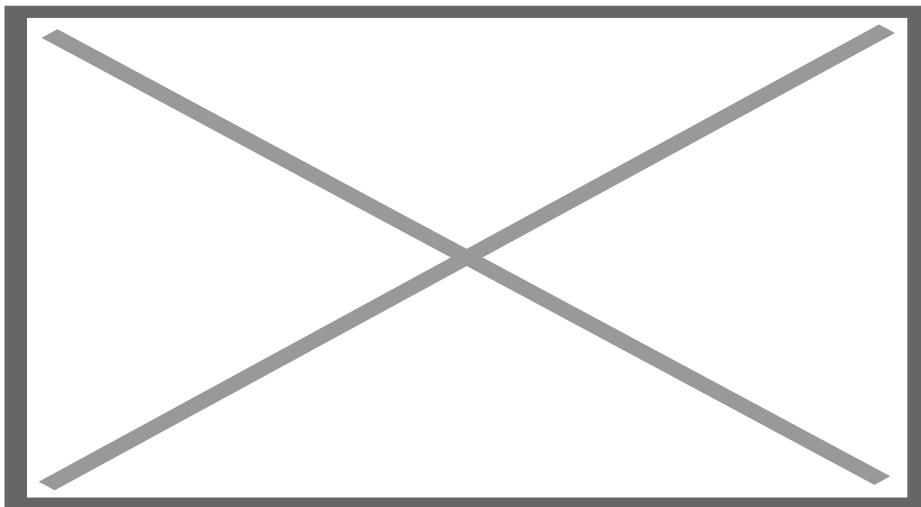


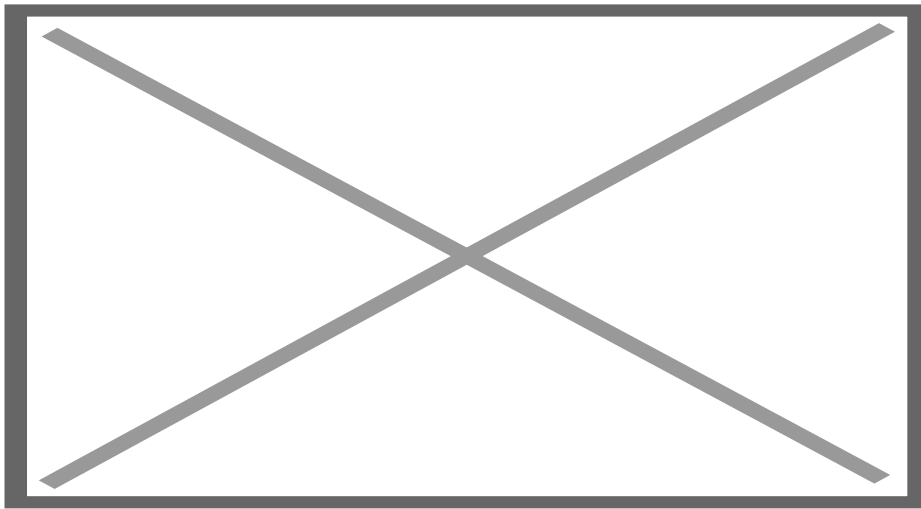
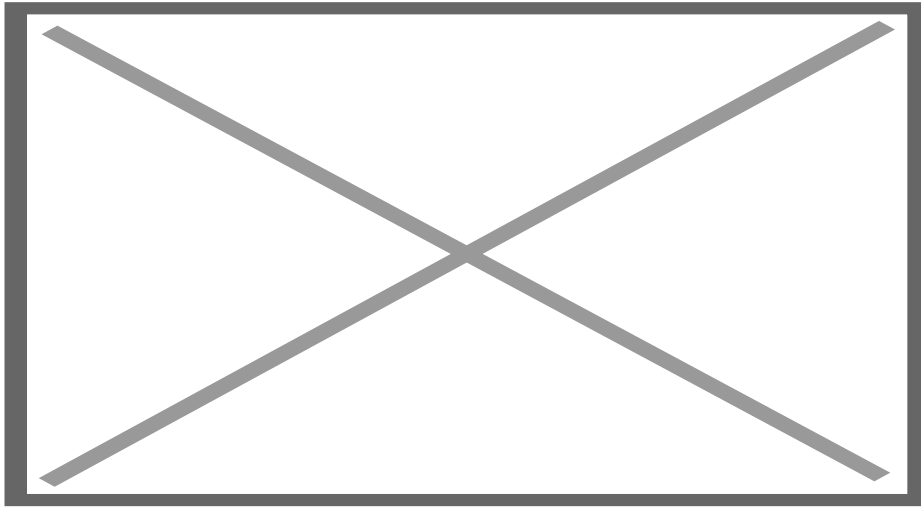
Master's degree
Specialisation Biologie moléculaire et cellulaire
Enrolment type
Full-time academic programmes
Language(s) of instruction
English

A compléter

A compléter

[Télécharger la fiche détaillée](#)
[Apply Now](#)





Information

- [Overview](#)
- [Application requirements](#)
- [Schedule](#)

Présentation

Skills

The Master program builds **four essential competencies**:

- **Scientific Approach:** design and conduct research projects, develop innovative ideas, and analyze data responsibly.
- **Expertise & Self-Learning:** acquire specialized knowledge, stay up-to-date with research, and master new tools independently.
- **Scientific Communication:** present and discuss results clearly in English or French, using the right tools for reports, presentations, and publications.
- **Professional Skills:** work independently and in teams, interact with diverse partners, plan effectively, and act ethically.

Outcomes: gain a **research-driven mindset**, transferable skills, and international experience to prepare for **PhD programs, research careers, or roles in life sciences and health**.

Objectives

The "International track Sino-French program" combines a Master 1 program for French or Chinese-speaking students with the international M2 BTCTG (Tissue, Cell and Gene Biotherapies) program offered by the Paris-Saclay Master of Molecular and Cell Biology.

The M1 program (1 year) is taught in English language at HUST campus (Wuhan, China) from September to January, and next at the Evry Paris-Saclay campus from February to April-June.

A Bachelor degree (or equivalent cooperative agreement) is required for applying to this M1 Sino-French program.

Following the validation of the first year of Master (M1), students are expected to continue into the M2 BTCTG but are allowed to apply to another Master 2 program.

TO APPLY, STUDENTS MUST BE ABLE TO SPEAK FRENCH LANGUAGE with B1 level minimum (excepted Chinese students taking part of the cooperative agreement with HUST University), and English language with B1 level minimum.

Débouchés

Career prospects

Research officer

Scientific Manager

Biological engineer

Production engineer
Innovation coordinator
Project engineer
Project assistant
PhD candidate
Design engineer
Project Manager
Research officer
Business Manager
Team Manager
Research engineer assistant
Research assistant
R&D engineer
Head of mission / projects
Project manager in biotechnologies, biotherapies or healthcare innovation

Further Study Opportunities

M2 Tissue, Cell and Gene Biotherapies

Calendar

Start of programme (indicative date)

01/09/2026

End of programme (indicative date)

31/08/2027

Admission

Admission Route

Life Sciences

Health sciences

Capacity

Available Places

Target Audience and Entry Requirements

Licence SV

Licence SVT

Bachelor in Life Sciences

Période(s) de candidature

Inception Platform

From 01/01/2026 to 15/06/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

Specific interest for the Master "Cell and Molecular Biology (BMC)", and professional objective

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Certificate of English level.

2nd letter of motivation.

- Specific interest for China and France given that this training will take place in these two countries -
Confirmation of the ability to speak the French and/or Chinese language

Curriculum Vitae.

Proficiency in French language (minimum B1 level) is mandatory for all students (except those from the HUST partner institution).

Additional supporting documents

2nd letter of recommendation (compulsory for candidates who have already been enrolled in higher education in France before).

Recommendation letter

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Supporting documents :

- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Core courses (UE Obligatoires)

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Core courses : Genes, proteins and cells	10	Semestre 1	56.5	28.5	15			



Core courses : Genes, proteins and cells

ECTS : 10

Semester: Semestre 1

Detail

Lecture: 56.5

Practical study : 15

Directed study: 28.5

Language(s) of instruction

Anglais

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Masteriales	2.5	Semestre 1	2	15
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
■								

Masteriales

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 2

Directed study: 15

Tutored project 6

Language(s) of instruction

Anglais

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Core courses :](#)

[Transdisciplinary project](#) 2.5 Semestre 1 2 15

■

Core courses : Transdisciplinary project

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 2

Directed study: 15

Language(s) of instruction

Anglais

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Major 1

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Regulation of gene expression	2.5	Semestre 1	14	9				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Regulation of gene expression

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Physiology of the immune system](#)

2.5

Semestre 1

14

9

Physiology of the immune system

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Genetic of complexes diseases](#)

2.5

Semestre 1

14

9

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Genetic of complexes diseases

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Strategies of Immunotherapies	2.5	Semestre 1	14	9
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Strategies of Immunotherapies

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Cell signaling and communication	2.5	Semestre 1	14	9
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------

Cell signaling and communication

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Advanced neurobiology](#) 2.5 Semestre 1 14 9

Advanced neurobiology

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Core Courses (UE à Choix)

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning courses
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	---------------------------

[French language 1](#) 2.5 Semestre 1 12 12

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning courses
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	---------------------------

■

French language 1

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 12

Directed study: 12

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Chinese](#)

language	2.5	Semestre 1	12	12
1				

■

Chinese language 1

ECTS : 2.5

Semester: Semestre 1

Detail

Lecture: 12

Directed study: 12

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Major 2 (UE obligatoires)

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------

[Animal transgenesis](#)

2.5	Semestre 2	14	9
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Animal transgenesis

ECTS : 2.5
Semester: Semestre 2
Detail
Lecture: 14
Directed study: 9
Language(s) of instruction
Anglais
Remote teaching
non
Prerequisites

Students are expected to have a strong background in molecular biology and physiology, including animal reproduction, cell and organ functions, molecular signaling, RNA, DNA and protein structure and functions... notions of microbiology, vegetal biology and organic chemistry will be required too.

Type of assessment
Evaluation Continue non Intégrale

[Introduction to
biotherapies,
from stem cells
to organoids](#)

2.5	Semestre 2	6	5	12
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Introduction to biotherapies, from stem cells to organoids

ECTS : 2.5

Semester: Semestre 2

Detail

Lecture: 6

Practical study : 12

Directed study: 5

Language(s) of instruction

Anglais

Remote teaching

non

Prerequisites

Basic Cell Biology – Year 3 Undergraduate, Life Sciences Bachelor's Degree

Programme/contents

I – Introduction to Tissue Engineering

From stem cells to organoids: key concepts and fundamental principles.

II – Applications of Tissue Engineering in Regenerative Medicine

Skin models and tissue regeneration strategies.

III – Applications of Organoids

Modeling neurodegenerative diseases and therapeutic perspectives.

Learning objectives

At the end of the unit, the student should be able to analyze and apply the principles and challenges of stem cell- and organoid-based biotherapies in the context of regenerative medicine.

Overall organisation

In-person: Lectures, Tutorials, and Laboratory Sessions

Special teaching arrangements

12h TP

Skills

Acquire fundamental knowledge, apply experimental approaches, analyze scientific data, and collaborate in a team.

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Immuno-pathophysiology	2.5	Semestre 2	14	9				
■								

Immuno-pathophysiology

ECTS : 2.5

Semester: Semestre 2

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Anglais

Remote teaching

non

Prerequisites

Upstream of this course, students should have acquired the basic bases of Immunology, in particular by having followed the unit "Physiology of the Immune System" (UEVE) or another unit of fundamental immunology (M1 and/or Licence-Bachelor). In particular, students should be able to identify the main cells and molecules involved in immune responses. They should also be able to describe the main physiological mechanisms of innate and adaptive immunity.

Type of assessment

Evaluation Continue non Intégrale

Functional (epi)genomics and precision medicine	2.5	Semestre 2	14	9
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Functional (epi)genomics and precision medicine

ECTS : 2.5

Semester: Semestre 2

Detail

Lecture: 14

Directed study: 9

Language(s) of instruction

Anglais

Remote teaching

non

Programme/contents

This course provides a thorough knowledge of genome-wide studies from experimental design to integrative data analysis: Explore genomic variations in both health and disease to understand gene function and regulation of expression at epigenetic and transcriptonal levels, decipher pathogenesis mechanisms, identify therapeutic opportunities and treatments in the context of precision medicine.

Learning objectives

- Enumerate and differentiate large-scale sequencing technology driven-approaches at different levels, i.e. genomics, transcriptomics, epigenetic landscapes.
- Determine which technology to use among a broad spectrum of functional genomics methods to address specific biological questions
- Precise the main classification methods œfor patient stratification and identification of co-regulated genes
- Interpret results of large-scale experimental datasets in a scientifically stringent manner
- Critically examine research publications dealing with functional genomics
- Understand how to identify altered signaling pathways, biological process and biomarkers from genes list by functional annotation tools,
- Specify the advantages of single-cell approaches regarding the dynamic of transcriptome, tissue complexity or polyclonal sample content.

Overall organisation

présentiel, CM, TD

Type of assessment

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
English language 2	2.5	Semestre 2	12	12					
■									

English language 2

ECTS : 2.5

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 12

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Scientific Project](#)

2.5 Semestre 2 4

■

Scientific Project

ECTS : 2.5

Semester: Semestre 2

Detail

Lecture: 4

Tutored project 60

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

None

Type of assessment

Evaluation Continue non Intégrale

[Internship](#)

7.5 Semestre 2 4

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning course
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	--------------------------

■

Internship

ECTS : 7.5

Semester: Semestre 2

Detail

Lecture: 4

Tutored project 3

Language(s) of instruction

Anglais

Remote teaching

non

Prerequisites

None

Type of assessment

Evaluation Continue non Intégrale

Major 2 (UE à Choix)

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning course
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	--------------------------

[French](#)

[language](#) 2.5

[2](#)

■

Semestre
2

12

12

French language 2

ECTS : 2.5

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 12

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Chinese](#)

[language](#) 2.5

[2](#)

Semestre
2

12

12

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

■

Chinese language 2

ECTS : 2.5

Semester: Semestre 2

Detail

Lecture: 12

Directed study: 12

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Teaching Location(s)

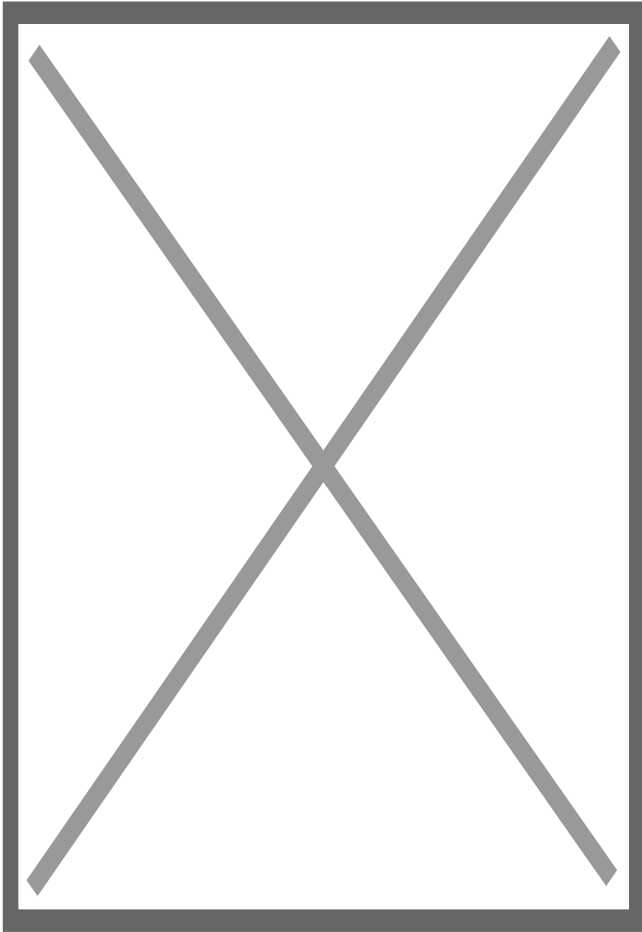
EVRY

Academic Partner(s)

Huazhong University of Science and Technology (HUST), Wuhan, Chine

Training campus

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Evry

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[Voir](#)
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Sylvain FISSON**

<http://www.universite-paris-saclay.fr/formation/master/biologie-moleculaire-et-cellulaire/m1-international-track-sino-french-program>