

Teaching unit “non-coding RNAs and epigenetics”

From October, 6th to 10th 2025

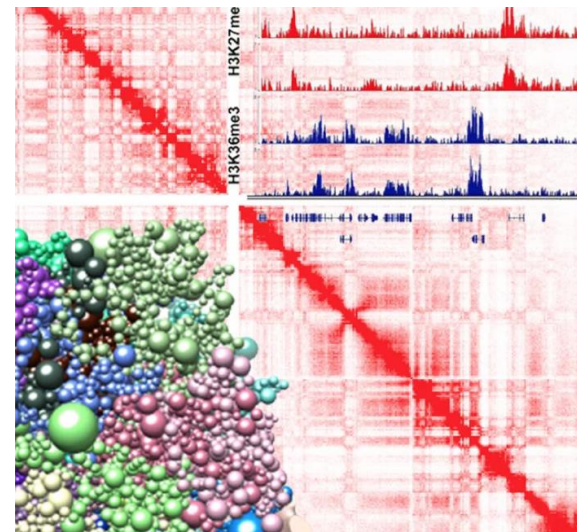
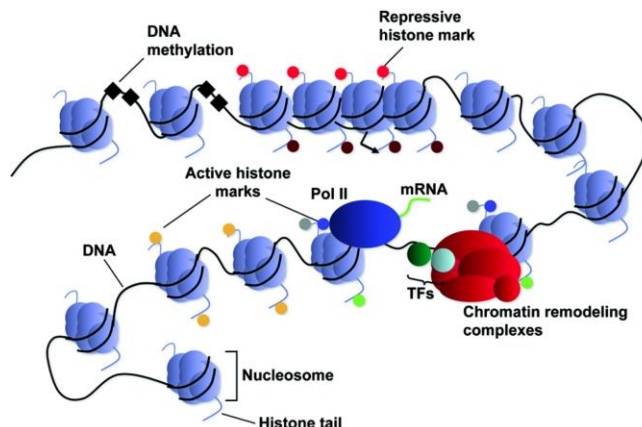
Pedagogic team:

Sébastien Bloyer (UPS)

Benoit Moindrot (UPS)

Sophie Netter (UVSQ)

Frédéric Crémazy (UVSQ)



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- This teaching unit addresses the regulation of gene expression by epigenetic processes in different model organisms, as well as the heritability of epigenetic information across generations. The implication of non-coding RNAs in these processes will be particularly discussed.
- Lectures/conferences are given in English by specialists of each theme.

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Topics

Pathogen-Induced Epigenetic Scars: Host Chromatin Under Siege

Decoding Cancer Diversity: Insights from Single-Cell Epigenomics

Sperm Epigenetics and Male Fertility in Cattle: Focus on Small Non-Coding RNAs

Epigenomic and non-epigenomic roles of mammalian « histone » lysine methyltransferases

Epigenetic Reprogramming in Mammals

ncRNAs: the dark matter of genomes

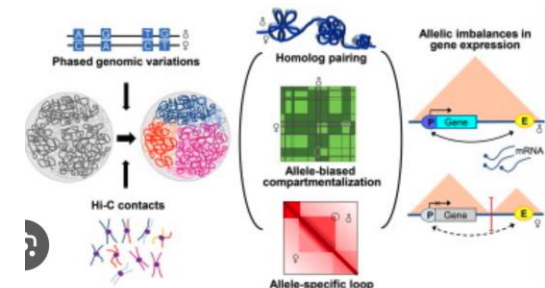
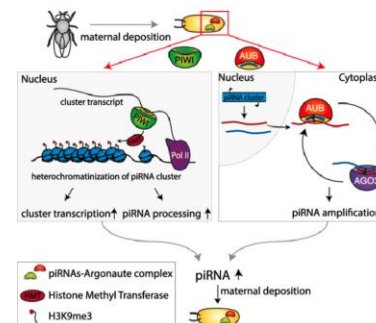
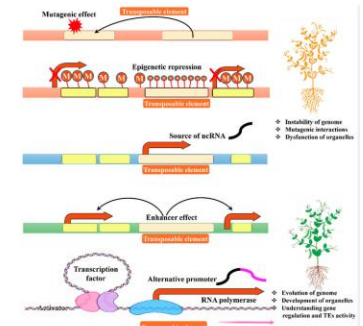
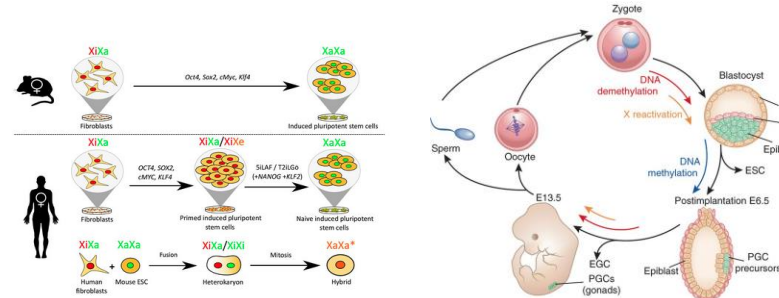
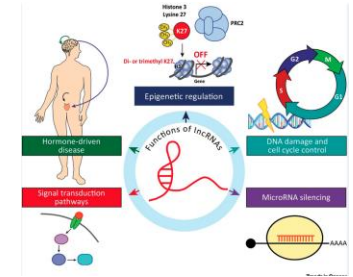
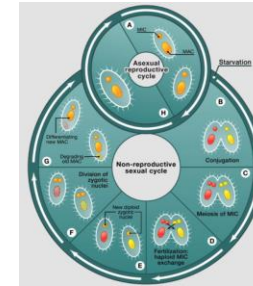
Epigenetics, Genome organization and X chromosome inactivation in mammals

Epigenetics bookmarking : in heritage through mitosis

Small RNAs in epigenetic inheritance in *C. elegans*

Transgenerational epigenetic inheritance in plants

Epigenetics and alternative splicing regulation



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Organization



Every day of the week **from 9:30 a.m. to 6 p.m.**

2 conferences per day

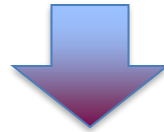


Each day at the end of the afternoon: "**tutored work**"



introductory work for conferences

Topics and Organization



Detailed schedule, assessment of your work and instructions on monday 6th and e-campus and

What we expect from you ?



Prepare the lecture

What we expect from you ?



Prepare the lecture



Introduction of the lectures
("brief me on" ou mini-review or ... during the week)

Prepare questions to ask to the speakers

What we expect from you ?



Prepare the lecture



The lecture : Be active !



Active participation during the course -> ask **questions !!!!**

**Prepare questions
to ask to the speakers**



What we expect from you ?



Prepare the lecture



The lecture : Be active !



The examination



Oral presentation

- **You** choose a **theme** (and papers) linked to Epigenetics
- Content of the presentation (**pair of students**) :
 - An **introduction**
 - A **few experiments (figures) from papers** (not reviews)
 - A conclusion + perspective / remaining questions
- In **English** (preferentially), otherwise in **French**
- **5 min per person + 5 min question** per student (10 + 10 for a pair)

What we expect from you ?



Prepare the lecture



The lecture : Be active !



The examination



Oral presentation

Oral defense:

GenE2 students => **Thursday, November 5, 2025**

GCD students => **Friday, November 6, 2025 ?**

What we expect from you ?



Prepare the lecture



The lecture : Be active !



The examination

Introduction to the lecture

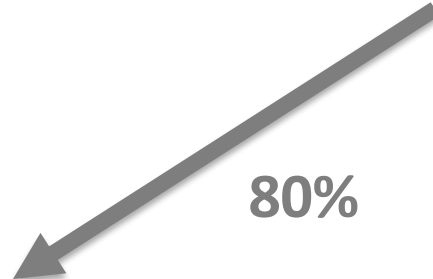
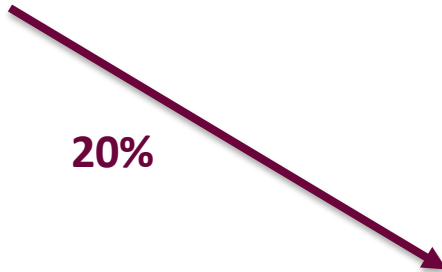
Participation

Oral presentation

20%

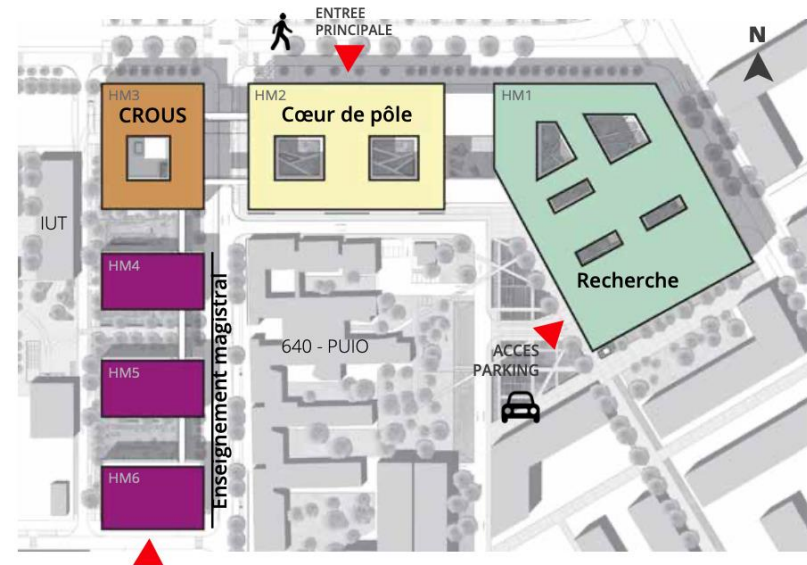
80%

Final mark



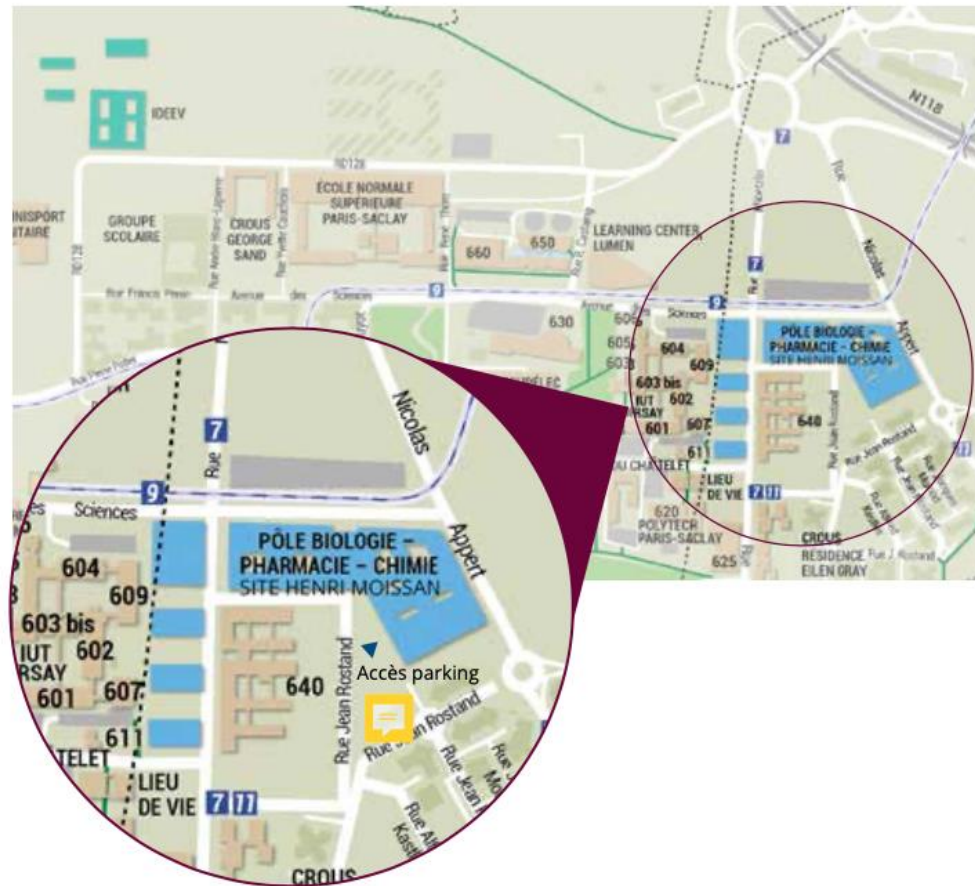
Where ?

Building « Henri Moissan »



Where ?


Building « Henri Moissan » HM5



Where ?

Venir en transports en commun


Depuis la gare RER B / RER C de Massy-Palaiseau

 **91-06** Arrêt « Université Paris-Saclay » à 200 m
(Massy Palaiseau - Christ de Saclay - un bus toutes les 4 min, 15 min en heures creuses)

 **91-10** Arrêt « Université Paris-Saclay » à 200 m
(Orly - Gare de Saint-Quentin en Yvelines - un bus toutes les 30 min en heure de pointe)

Depuis la gare RER B du Guichet


 **9** Arrêt « Université Paris-Saclay » à 200 m (Les Ullis centre commercial - Gare de Jouy-en-Josas - un bus toutes les 5 min en heure de pointe, 15 min en heures creuses)

 **91-08** Arrêt « IUT Pôle d'ingénierie » à 200 m
(Mairie des Ullis - Vélizy centre commercial - un bus toutes les 30 min en heures de pointe)

Depuis la gare RER B d'Orsay-Ville

 **7** Arrêt « Université Paris-Saclay » à 200 m
(Gare RER B d'Orsay-Ville - Plateau de Moulon Corbeville - un bus toutes les 8 min en heures de pointe)

Depuis la gare RER B de Gif-sur-Yvette

 **11** Arrêt « Lieu de Vie » à 100 m (Gare RER B de Gif-sur-Yvette - Parc Orsay Université - un bus toutes les 20 min en heures de pointe)

Horaires des bus : www.vianavigo.com

