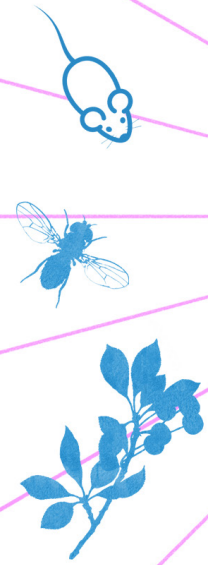
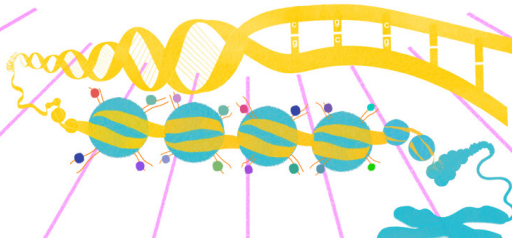
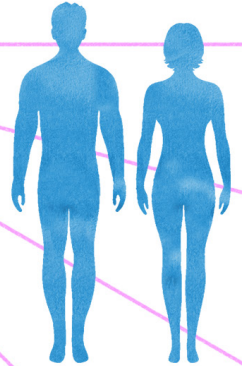


MOOC

A FREE ONLINE COURSE OF THE INSTITUT PASTEUR

epigenetics



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Epigenetics is a new form of hereditary information that can be transmitted along with the DNA in every cells of our body and to future generations. This new type of information is central for explaining how multicellular organisms, which are composed of cells with identical DNA, generate and maintain many different cell types. Similarly, epigenetics may explain how our lifestyle and the exposure to different environmental stresses can also have an influence on the life of our future generations. Thus, Epigenetics will contribute to expand our notion of genetics, heritability, and diseases.

This MOOC aims to provide a basic fundamental knowledge of what is considered to be epigenetic and illustrates well characterized examples of epigenetic phenomena in many different model organisms. In addition, we will explain in details the molecules that participate in the epigenetic inheritance and their mechanism of action. Furthermore, we will discuss the implication of epigenetics in animal development and disease heritability, and explain how environmental experiences can change our life and the life of our progenies through epigenetic mechanisms. This course is designed to be accessible to everyone interested in life science, although fundamentals of biology are recommended.

- Starts on April 2, 2021
- FREE
- Certificates available (150€)
- English with French subtitles
- Estimated effort: 2h30/week
- Forum to exchange opinions, etc.

7 WEEKS **20** SPEAKERS **26** VIDEOS **134** QUESTIONS

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