

Domaine : Sciences du vivant - Thématique(s) : Microbiologie, génétique moléculaire STAGES COURTS

EPIGENETIC TRAINING COURSE: « INITIATION TO CHROMATINANDMETHYLATED DNA IMMUNOPRECIPITATION»

Chromatin and DNA modifications, i.e. epigenetic modifications, are involved in the control of gene expression. This course provides a theoretical introduction to the field of epigenetics as well as a practical training to learn the main bases of the methods for studying these epigenetic modifications.

🗖 Dates : Voir le calendrier

🛇 **Lieu :** Campus Pierre et Marie Curie – Paris (Jussieu)

€ Tarif: 2185 €

Modalité: Présentiel

GOALS

• Acquire the theoretical and practical bases necessary to analyse chromatin, chromatinian proteins and DNA methylation using chromatin immunoprecipitation (ChIP) and DNA methylation (MeDIP).

PUBLIC AND PRE-REQUISITE

Public: Technicians, engineers, researchers, teachers-researchers, doctoral students.

Pre-requisite: Basic knowledges in molecular biology, bachelor level.

PROGRAM

LECTURES

- Epigenetics and chromatin: post-translational modifications of histones, chromatin remodelling complexes.
- Methylation and hydroxymethylation of DNA.
- Epigenetic diseases.
- Methods to analyse epigenetic modifications.
- · qPCR for ChIP and MeDIP.
- Introduction to ChIP-seq.

PRACTICAL TRAINING

• Chromatin and methylated DNA immunoprecipitation experiments from 3T3 cells (cross-linking, chromatin extraction and fragmentation, DNA extraction and fragmentation, immunoprecipitation, qPCR, analysis of results).

METHODS

- Lectures.
- · Practical training.



INFORMATIONS

Competency Development Action Category: (Article L6313-1 of the Labour Code)

Training action Number of participants: from 8 to 16.

Language: The course can be provided in

english or french upon request.

CONTACT

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FORMATION PROFESSIONNELLE CONTINUE

• Teaching materials, bibliography and documentation are given to the participants.

EVALUATION METHODS

Statement of accomplishment.

HIGHLIGHTS

- Teaching method adapted to acquire the strategic tools.
- Teaching of the latest developments in epigenetics.
- Instructors: Professor of Genetics and Researcher, experts in epigenetics.
- Internship organized in collaboration with Diagenode

