**CORSO TEORICO-PRATICO**

# Analysis of epigenetic marks in plants using Chromatin Immunoprecipitation (ChIP)

*Department of Biosciences, University of Milan*
*12-14 June 2023*

## PROGRAMME

**Monday 12 June 2023**

**Registration: 10:00-10:30**

Practice

11.00-13.00 Prof. Giorgio Perrella (UNIMI); Alessio Baldini (UNIMI), Dr. Irene Luzzi (UNIPD)

- **ChIP Protocol**: Fix and washing and grinding material

13.00-14.00 Lunch

Practice

14.00-18.30 Prof. Giorgio Perrella (UNIMI); Alessio Baldini(UNIMI), Dr. Irene Luzzi (UNIPD)

- **ChIP Protocol**: nuclei isolation and chromatin extraction
- **ChIP Protocol**: Sonication and Immunoprecipitation ON

**Tuesday 13 June 2023**

Practice

9-11 Prof. Giorgio Perrella (UNIMI); Alessio Baldini (UNIMI), Dr. Irene Luzzi (UNIPD)

**ChIP Protocol**: Washing and beads incubation

Theory

11-12.30 Prof. Serena Varotto (UNIPD)

- ChIP methodology for studying epigenome dynamics

12.30-14.00 Lunch

Practice

14-18 Prof. Giorgio Perrella (UNIMI); Alessio Baldini(UNIMI), Prof. Serena Varotto (UNIPD), Dr. Irene Luzzi (UNIPD)

- **ChIP Protocol**: Washes and ON elution
- **What's next after ChIP?** Control PCR on samples

**Wednesday 14 June 2023**

Practice

9-10.30 Prof. Giorgio Perrella (UNIMI); Alessio Baldini(UNIMI), Dr. Irene Luzzi (UNIPD)

- **ChIP Protocol**: Proteinase K treatment, DNA clean up and precipitation
- **What's next after ChIP?** Gel control on PCR samples

Theory

10.30-11.30 Prof. Giorgio Perrella (UNIMI)

- **What's next after ChIP?** Data analysis

Practice

11.30-12.30 Prof. Giorgio Perrella (UNIMI); Alessio Baldini(UNIMI), Dr. Irene Luzzi (UNIPD)

- **ChIP Protocol**: DNA elution

12.30-13.00 Final remarks