

June 19th to 23rd

CRISPRes 2023

A laboratory for CRISPR applications in plants

Join us for the week-long **CRISPRes 2023** course
at the Università degli Studi di Milano.

Learning objectives

CRISPRes provides students with skills and capacity to act in the following areas:

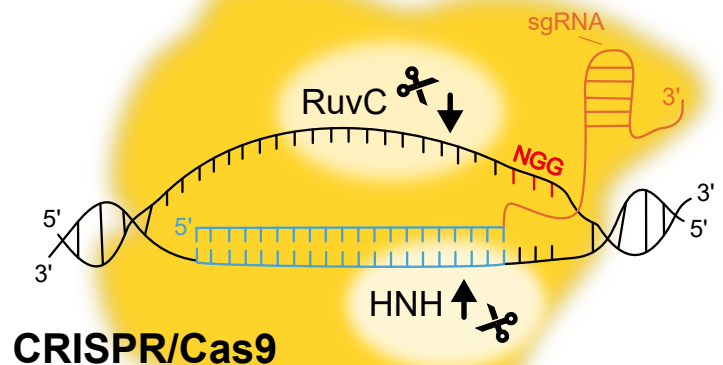
1. Identification of target genes for the protection of plants of agricultural interest
2. Planning of experiments using genome editing, including molecular biology and bioinformatics tools
3. Application of genome editing tools to plant-pathogen interactions
4. Analysis of sequences deriving from genomic editing events
5. Plant *in vitro* cultures
6. Phenotyping of plant disease

Prerequisites for admission

No formal prerequisites. It is strongly advised to have a basic knowledge in molecular biology.

Expected learning outcomes

CRISPRes provides the students with knowledge about the molecular biology techniques used in genome editing in plants, about plant *in vitro* cultures and in plant disease identification. Eventually, the students will be able to plan and execute experiments aimed at designing gene editing vectors, and using them on plant tissues of different species. The students will acquire critical and judgment skills through workshops, digital and virtual laboratories. They will also acquire communication skills through a final report that will be presented during a meeting in the fall.



CHARLES
UNIVERSITY



UNIVERSITÀ
DEGLI STUDI
DI MILANO



UNIVERSITY
OF WARSAW



EUROPEAN
UNIVERSITY
ALLIANCE

Deadline for submission
9th of March

For application and more information contact:
adela.pribylova@natur.cuni.cz

The course is suitable for advanced undergraduate and graduate students as well as students just starting their PhD. (4 students will be selected based on their motivation letter and study performance.) If all goes well, the course will also be for SIS credits.