

CEIPEX MU TOPIC 2

Položka / Field	Obsah / Content
NAME	Helene Robert Boisivon, Ph.D.
CEIPEX RESEARCH TOPIC LEVEL2	Genomics & Proteomics of Plant Systems: Stress in plant system
NAME OF THE RESEARCH GROUP	Plant Biotech for Stress Resilience
TOPIC	Regulation of drought stress memory and resilience in Brassica napus plants
ABSTRACT	While epigenetic changes are linked to stress memory in plants, their causal role in drought adaptation remains unproven in Brassica napus. The main goal of this project is to integrate transcriptomic and epigenomic data to identify key stress-responsive loci and validate them using CRISPR/dCas9-mediated targeted DNA methylation. Ultimately, the project will move beyond correlative studies to deliver a proof-of-concept framework for precision epigenome engineering in crops.
WEBPAGE OF THE RESEARCH GROUP	https://boisivonlab.ceitec.cz/