HORIZON-MSCA-2021-SE-01 Project: *CRISPit* - Bridging fundamental knowledge and novel technology to increase Rice heat tolerance

CRISPit is one of the first Staff Exchange projects that aims to better understand vital plant developmental processes and related strategies to cope with abiotic stresses at several levels by linking genome to plant performance. The acquired knowledge will be an added value for the scientific community and in particular for the research groups interested in understanding how plant reproductive organ tissues cope with abiotic stresses such as heat stress (HS) and how this is controlled at the molecular level using rice, one of the major staple cereals, as model plant.

Objectives

CRISPit proposes to:

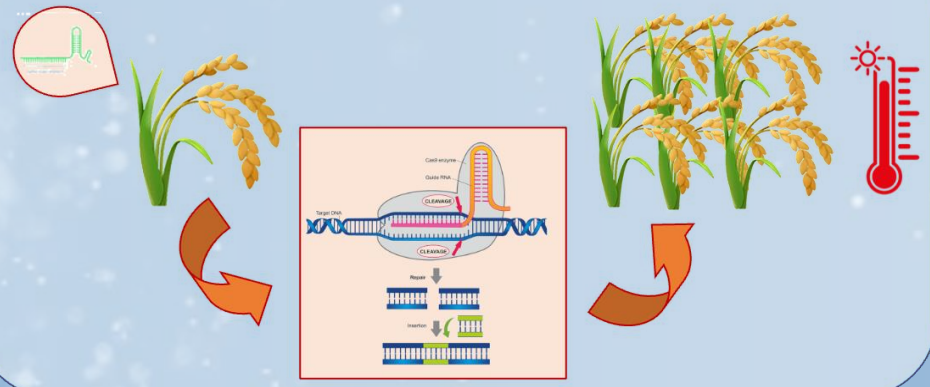
- Define HS features and marker genes in Nagina22 rice variety;
- Generate a new transcriptomic dataset;
- Obtain and fully characterize rice HS mutant lines from selected genes using CRISPR technology.

Starting Date: 1th January 2023
Acronym: CRISPit
Duration: 48 months
EU Funding: €588.800.00

Coordinator: Prof. Silvia Coimbra

Contact: Dr. Leonardo Bruno
leonardo.bruno@unical.it

Genome editing to improve crop traits.



Partners

The project leading to this application has received funding from the European Union's Horizon 2021 research and innovation programme under the Marie Sklodowska-Curie Grant Agreement number 101086293