



Molecular analysis of epigenetic responses to stresses

Training school organised by EPI-CATCH
(<https://www.epicatch.eu/>)

21. – 23. June 2023; Faculty of Science, Sarajevo

The training school consists of a theoretical part (first day) and hands-on activities (second and third day). Considering that number of places for hands-on activities will be limited we encourage you to **fill out application form by 31.05.2023**. Selection of candidates for hands-on activities will be based on their area of research and interests (stated in the application form) and **successful candidates will be notified by 15.06**. First day will not have limitations regarding the number of participants, but a registration through application form is necessary.



Application form:
<https://forms.gle/WGjEdxYPrgeeyLeo8>



TRAINING SCHOOL AGENDA

Day 1. Wednesday 21/06/2023

- 11:00 – 11:15
 - Prof. dr. Erna Karalija, Faculty of Science, University of Sarajevo
Course presentation
- 11:15 – 11:25
 - Prof. dr. Federico Martinelli, Department for Biology, University of Florence; Action chair -
EpiCATCH objectives, goals, and results
- 11:25 – 11:50
 - Prof. dr. Federico Martinelli, Department for Biology, University of Florence.
Transgenerational responses in Arabidopsis thaliana to chromium stress
- 11:50 – 12:15
 - Dr. Ivan Baccelli, National Research Council of Italy, Institute for Sustainable Plant Protection
Priming plants for an enhanced defence response
- 12:15 -12:40
 - Jelena Samardžić, Laboratory for Plant Molecular Biology, Institute of Molecular Genetics and
Genetic Engineering
MicroRNAs: A big player to mitigation of abiotic stress
- 12:40 - 13:05
 - Doc. Dr. Dunja Šamec, Department of Food Technology, University North,
Metabolomics as a tool to study plant stress
- 13:05 – Closure Day 1

Day 2. Thursday 22/06/2023

- *Practical work 1: DNA and RNA extraction; miRNA extraction*
- *Practical work 2: Design of primers for PCR for methylation analysis and qRT-PCR for expression analysis*

Day 3. Friday 23/06/2023

- *Practical work 3: Expression analysis of differentially expressed genes by qRT-PCR.*
- *Discussion of results*
- *Course closure*