

COST EPI-CATCH Conference

New Insights in crop adaptation to climate change through epigenomic and other omics approaches

20-21 June 2024 - Florence, Italy

Organizing Committee

Prof. Federico Martinelli - Associate Professor in Genetics - U. of Florence

Dr. Miriam Negussu – PhD Student - U. of Florence

EPI-CATCH is a COST action with the aim of defining, developing, generating and sharing new breaking knowledge and methodologies for the investigation of epigenetic mechanisms of plant adaptation to environmental stresses driven by climate change.

The International Conference will take place in the beautiful city of **Florence** (Italy). The aim is to disseminate new insights into the epigenetic and other molecular mechanisms of plant adaptation to to climate change through integrated omics approaches. The scope of this Event is to create new fundamental knowledge that could be exploited by crop breeding and biotechnological approaches in the next future.

The Event, under the patronage of the Italian Society of Agricultural Genetics (**SIGA**), It is an extraordinary occasion for researchers to disseminate, discuss, and update the latest research in plant epigenetics.

Two sessions are provided: 1) keynote speakers (first day) , 2) junior scientists (second day).



PROGRAMME

New Insights in crop adaptation to climate change through epigenomic and other omics approaches

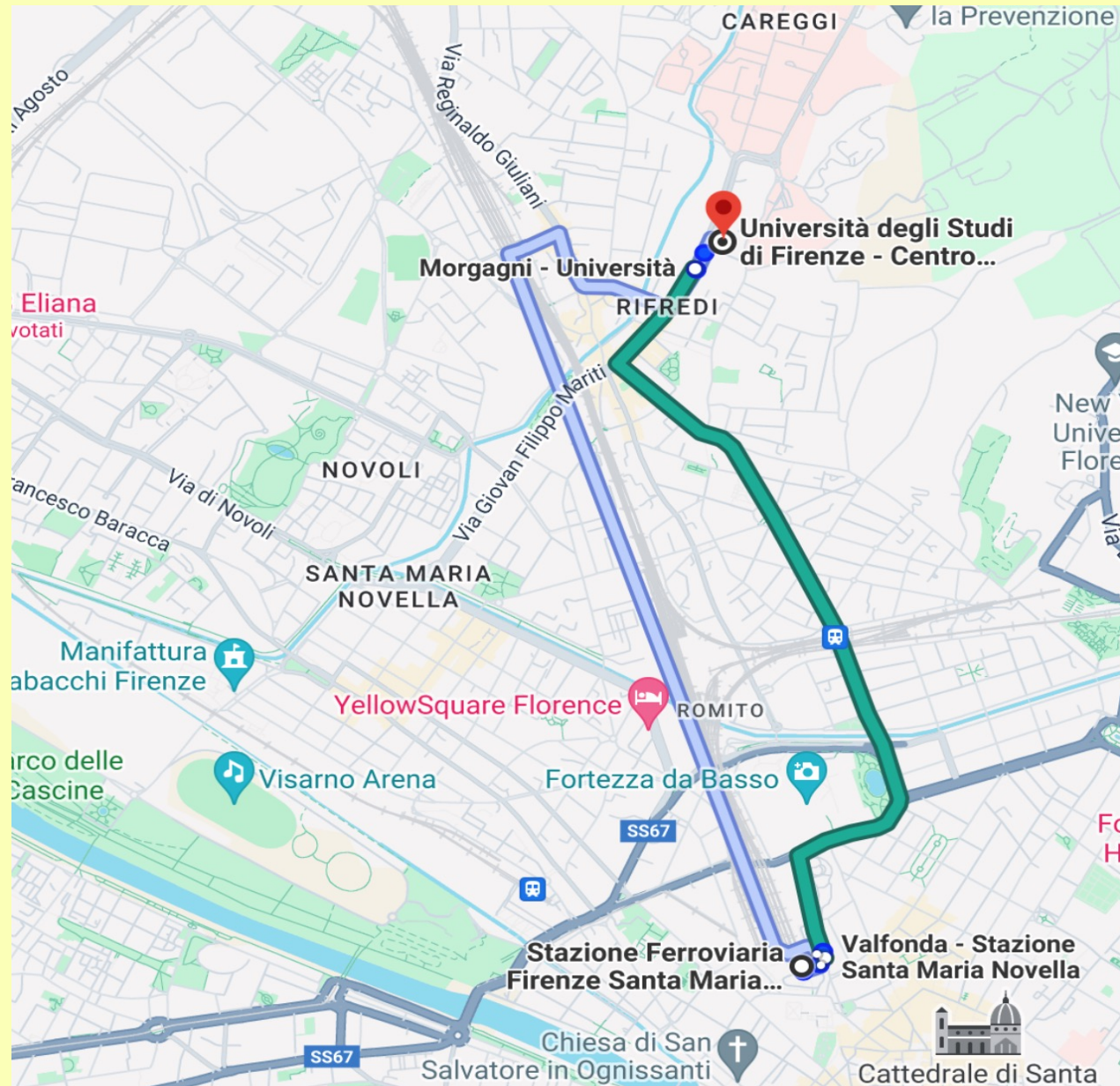
Thursday 20 June 2024

13:15-14:15	REGISTRATION
	OPENING of the CONFERENCE
14:15-14:30	Welcome of Organizing Institution
14:30-15:00	Keynote Speaker: Konstantinos Vlachonasios, Aristotle University of Thessaloniki <i>Histone Acetyltransferase GCN5 and the Associated Coactivators ADA2 - From Evolution of the SAGA Complex to the Biological Roles in Plants</i>
15:00-15:25	Matteo Busconi, Università Cattolica del Sacro Cuore di Piacenza <i>First insights in saffron crocus epigenetics</i>
15:25-15:50	Luca Sebastiani, Scuola Superiore Sant'Anna <i>Epigenetic responses to environmental stress in tree crops: problems and perspectives</i>
15:50-16:15	Tommaso Giordani, University of Pisa <i>Haplotype-resolved DNA methylome and allele-specific gene expression in Ficus carica L.</i>
16:15-16:45	Coffee break & poster viewing
16:45-17:10	Angela Cikatelli, University of Salerno <i>Epigenetic analysis through MSAP-NGS coupled technology: the case study of Pinus laricio populations</i>
17:10-17:35	Anna Vittoria Carluccio, IPSP-CNR (Bari) <i>Artificial miRNA to improve Virus-induced gene silencing applications in tomato</i>
17:35-18:00	Elisa Cappetta, University of Salerno <i>Transcriptional changes and growth enhancement in pepper seeds mediated by iron oxide nanoparticle priming</i>
18:00-18:15	Conclusions
20:00 -	DINNER at Restaurant

Friday 21 June 2024

08:45-09:25	REGISTRATION
	OPENING of the CONFERENCE
09:25-09:30	Welcome of Organizing Institution
09:30-10:00	Keynote Speaker: Maeli Melotto, UC Davis <i>Cross-kingdom molecular battles in the phyllosphere</i>
10:00-10:15	Andrea Bonomo, University of Messina <i>Computational analysis and biostatistics of lncRNA/mRNA interactions</i>
10:15-10:30	Lorenzo Salvatore Frisullo, University of Perugia <i>The influence of grafting in tomato: agronomic, genetic, and epigenetic approach</i>
10:30-10:45	Miriam Negussu, University of Florence <i>The Heredity of Drought: Probing Physiological and Molecular Markers of Stress Memory in Myles Chickpea Cultivar</i>
10:45-11:15	Coffee break & poster viewing
11:15-11:30	Gabriele Rigano, University of Messina <i>Current bioinformatics methods for long non-coding RNA discovery</i>
11:30-11:45	Camilla Fagorzi, University of Florence <i>The complex epigenetic panorama of legume symbiotic nitrogen fixing bacteria</i>
11:45-12:00	Walter Vieri, University of Florence <i>Exploring the heritable epigenetic changes in chickpea plants under water stress conditions</i>
12:00-12:15	Marco Castellacci, University of Pisa <i>Exploiting the genetic diversity of the fig tree to discover molecular markers associated to important traits</i>
12:15-12:30	Marco Dainelli, University of Florence <i>Water-fresh plants floating on plastic-waters: first insights on the epigenetic effects of PET micro-nanoplastics on Spirodela polyrhiza (L.) Schleid</i>
12:30-12:50	Questions & Conclusions – End of Conference

Conference venue: Plesso Didattico Morgagni, University of Florence Viale Gianbattista Morgagni 40, Florence



Directions: Take the **Tram to Careggi** from Main Train Station “Santa Maria Novella” – **stop at Università-Morgagni**

Contact Email: Federico Martinelli - e-mail: federico.martinelli@unifi.it



UNIVERSITÀ
DEGLI STUDI
FIRENZE

