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 Commitee

Prof. Federico Martinelli - Associate Professor in Genetics - U. of Florence
Dr. Miriam Negussu – PhD Student - U. of Florence

Funded by the European Union

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

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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** *Histone Acetyltransferase GCN5 and the Associated Coactivators ADA2 - From Evolution of the SAGA Complex to the Biological Roles in Plants*
15:00-15:25	**Matteo Busconi, Università Cattolica del Sacro Cuore di Piacenza** *First insights in saffron crocus epigenetics*
15:25-15:50	**Luca Sebastiani, Scuola Superiore Sant'Anna** *Epigenetic responses to environmental stress in tree crops: problems and perspectives*
15:50-16:15	**Tommaso Giordani, University of Pisa** *Haplotype-resolved DNA methylome and allele-specific gene expression in Ficus carica L.*
16:15-16:45	***Coffee break & poster viewing***
16:45-17:10	**Angela Cicatelli, University of Salerno** *Epigenetic analysis through MSAP-NGS coupled technology: the case study of Pinus laricio populations*
17:10-17:35	**Anna Vittoria Carluccio, IPSP-CNR (Bari)** *Artificial miRNA to improve Virus-induced gene silencing applications in tomato*
17:35-18:00	**Elisa Cappetta, University of Salerno** *Transcriptional changes and growth enhancement in pepper seeds mediated by iron oxide nanoparticle priming*
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** *Cross-kingdom molecular battles in the phyllosphere*
10:00-10:15	**Andrea Bonomo, University of Pavia** *Computational analysis and biostatistics of lncRNA/mRNA interactions*
10:15-10:30	**Lorenzo Salvatore Frisullo, University of Perugia** *The influence of grafting in tomato: agronomic, genetic, and epigenetic approach*
10:30-10:45	**Miriam Negussu, University of Florence** *The Heredity of Drought: Probing Physiological and Molecular Markers of Stress Memory in Myles Chickpea Cultivar*
10:45-11:15	***Coffee break & poster viewing***
11:15-11:30	**Gabriele Rigano, University of Rome Tor Vergata** *Current bioinformatics methods for long non-coding RNA discovery*
11:30-11:45	**Camilla Fagorzi, University of Florence** *The complex epigenetic panorama of legume symbiotic nitrogen fixing bacteria*
11:45-12:00	**Walter Vieri, University of Florence** *Exploring the heritable epigenetic chnages in chickpea plants under water stress conditions*
12:00-12:15	**Marco Castellacci, University of Pisa** *Exploiting the genetic diversity of the fig tree to discover molecular markers associated to important traits*
12:15-12:30	**Marco Dainelli, University of Florence** *Water-fresh plants floating on plastic-waters: first insights on the epigenetic effects of PET micro-nanoplastics on Spirodela polyrhiza (L.) Schleid*
12:30-12:50	**Questions & Conclusions – End of Conference**

Conference venue:

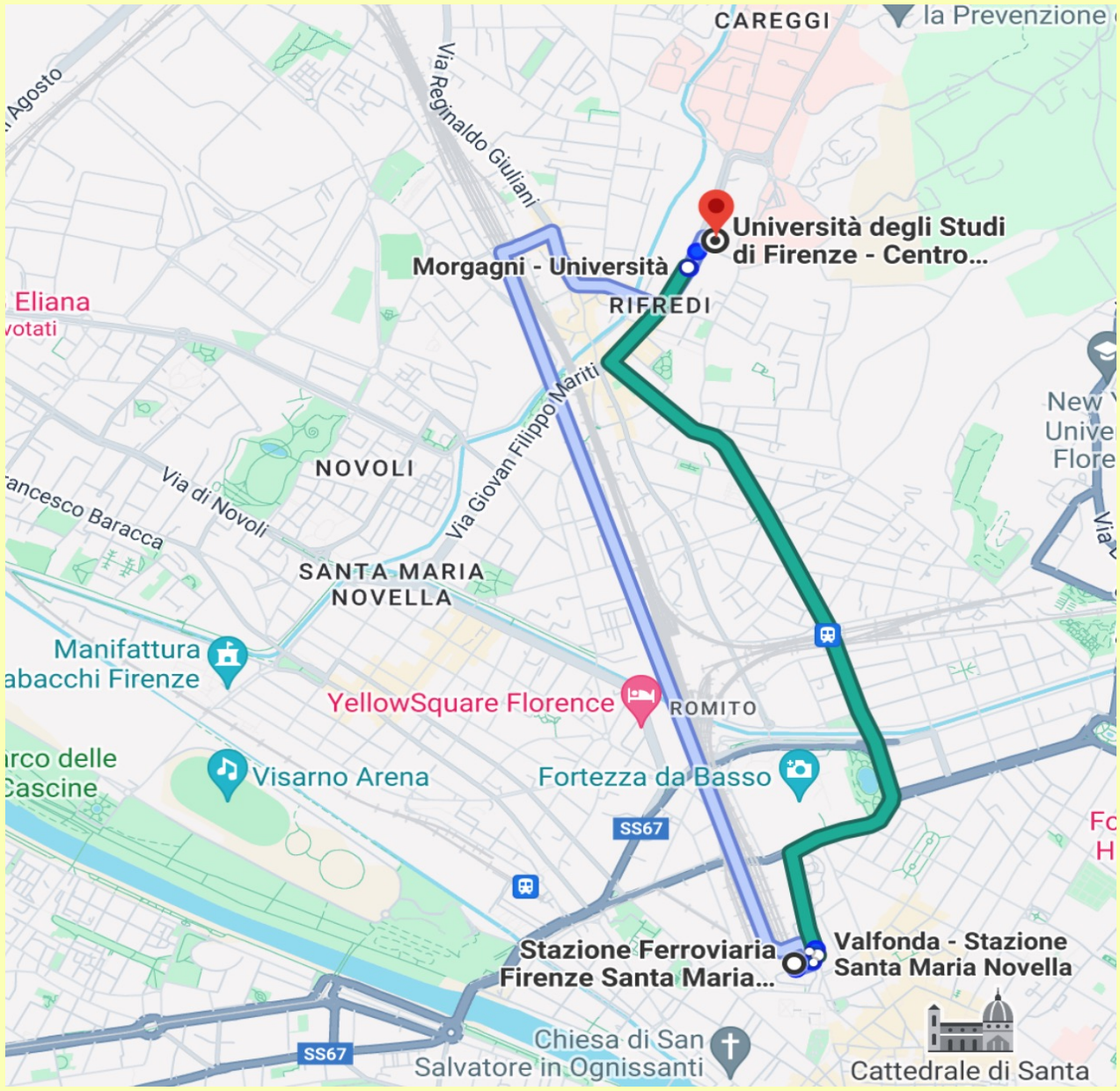
Plesso Didattico Morgagni, University of Florence

Viale Gianbattista Morgagni 40, Florence









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

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COST EPI-CATCH Conference
New Insights in crop adaptation to climate change through epigenomic and other omics approaches
June 20-21, 2024 - Firenze, Italy

Conference Venue

Plesso Didattico Morgagni 40, Università di Firenze, Firenze

How to reach the Campus from the city center:

By public transportation

From **Santa Maria Novella Train Station** take the **Tram T1** (Directions to **Careggi**) and stop at **Università-Morgagni**. The Tram arrives every 5 minutes. It takes around 25 minutes. Plesso Didattico Morgagni is very close (1 stop before) to the Terminal (Ospedale Careggi).

Tickets can be purchased at any Tram station.

By car

From FI-PI-LI: exit at Viadotto Indiano (last exit before the end of FI-PI-LI) and go towards the Viadotto Indiano and viale XI Agosto – follow the instructions to Careggi. The Plesso Didattico Margagni is around 400 meters from Careggi Hospital. It takes around 20 minutes from Viadotto Indiano.

From Autostrada A11: Go up to the end of the "Autostrada" continue to viale XI Agosto and follow directions to Careggi. The Plesso Didattico Margagni is around 400 meters from Careggi Hospital (it takes around 15-20 minutes from the end of Autostrada).

Accomodation (some possible hotels)

- Hotel Careggi - Via Taddeo Alderotti, 43, Firenze (Zona Careggi, molto vicino alla sede della Conferenza) – Tel: 3356113179

- Hotel Victoria – via Nazionale 102, Firenze (Centro Storico, mediante Tramvia – 15 minuti) – Tel: 055287019

- Hotel Argentina, via Curtatone 12, Firenze (Centro Storico, vicino alla Stazione Centrale Santa Maria Novella) - tel: 0559862125

- Hotel Machiavelli Palace, via Nazionale 10, Firenze (Centro Storico, mediante Tramvia – 15 minuti) – Tel: 055216622

Dinner – 20 June 2024
The probable location for the Dinner will be at 20:00 at Grotta di Leo in Via della Scala, 41/43r, 50123 Firenze.
The dinner payment will be individual for each participant.

Instructions for speakers

Please provide a short abstract (max 300 words). All abstracts will be included in an online book of abstract after the event.
Please send your abstract to federico.martinelli@unifi.it by June 20.

Keynote session

25 minutes presentation (including discussion). Presentations need to be uploaded on the computer room, in .pptx or .pdf format.

Junior session

To give more relevance to work of young presenters, speakers of the Junior session will prepare a poster, and an oral talk of 20 minutes (including discussion). Presentations need to be uploaded on the computer room, in .pptx or .pdf format.

Poster format: 80 x 120cm, vertical orientation.

Registration

Registration will be performed at the conference desk, at the entrance. Registration to the event is free of charge.