Training programme

Affordable Phenotyping
Matera-Metaponto, Italy
18-21 April 2023

Objective:	The training course will focus on how to approach a phenotyping experiment in terms of experimental design and affordable and lean phenotyping tools to address the demand of a wider plant science and breeding community.
Target addressed:	Ph.D students, early-stage researchers, Post-docs
Duration:	4 days, 18 -21 April 2023
Max no. of participants:	20 - The participants will be selected by an Expert Panel based on the application (further details: Appendix 1)
Participation	Participation is for free, but participants are expected to cover their travel and accommodation costs (further details: Appendix 1)
Venue:	Matera, Metaponto (Italy)
Accommodation:	Matera (List of suggested hotels/B&B Appendix 1)
Transfer	Available free shuttle transfer Matera-Metaponto-Matera
Award:	certification of attendance

Application deadline: 15 March 2023 - Send your application here

Selected participants will be informed until 22 March 2023

PROGRAMME

Venue: MATERA

Tuesday 18 April	Topic	Trainer
12:00 - 14:00	*Welcome lunch*	------
14:00 – 14:30	Introduction to EMPHASIS	Roland Pieruschka (*Forschungszentrum Jülich -FZJ*)
14:30 - 14:45	Introduction to the training programme	Emphasis Training Programme coordinators
14:45 – 16:00	Introduction of participants	All participants
16.00 – 16:15	*Coffee break*	----
16:15 – 17:30	Environmental characterization; soil, atmosphere	Francois Tardieu (INRAE)

Venue: METAPONTO

Wednesday 19 April	Topic	Trainer
09:30 – 11:00	Plant plasticity	Menachem Moshelion (Hebrew University of Jerusalem)
11:00 – 11:30	*Coffee break*	......
11:30 – 13:00	Experimental design principles	David Rousseau/Angelina Elghaziri (University of Angers)
13:00 – 14:00	*Lunch*	-----
14:00 – 15:00	Overview on affordable imaging tools	David Rousseau/Angelina Elghaziri (University of Angers)
15:00 – 16:30	Visit greenhouse AGROBIOS	-----

Venue: METAPONTO

Thursday 20 April	Topic	Trainer
9:00 – 10:30	Hands-on: Measurements and equipment	Francesco Cellini (ALSIA)
10:30 – 11:00	*Coffee break*	-----
11:00 – 12:30	Plant measurements - hands on (greenhouse) Timelaps image analysis	David Rousseau/Angelina Elghaziri (University of Angers)
12:30 – 14:00	*Lunch*	-----
14:00 – 15:30	Plant measurements (greenhouse) Physiological traits tools	Mauro Centritto (CNR)
15:30 – 16:00	*Coffee break*	-----
16:00 – 17:00	Plant measurements (field) RGB low cost imaging index and analysis	Adrian Gracia Romero (Catalan IRTA)
17:00 – 18:00	Data management	Francois Tardieu (INRAE)

Venue: MATERA

Friday 21 April	Topic	Trainer
8:30 – 10:30	Data analysis (presentations by groups)	All trainers + moderator
10:30 – 10:45	*Coffee break*	-----
10:45 – 11.45	Introduction to EMPHASIS facilities and opportunities	Roland Pieruschka (Forschungszentrum Jülich -FZJ)
11.45 - 13.00	General discussion and conclusion	Trainers and participants

Appendix 1 - General Information

Accommodation

The training course will be held in Matera and Metaponto. The recommended accommodation venue is Matera. Please find below some selected suggestions for hotels and B&B:

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- Hotel San Domenico al Piano **** (https://www.hotelsandomenico.it/)
- Albergo Italia ****(https://www.albergoitalia.com/)
- Locanda San Martino Thermae *** (https://www.locandadisanmartino.it/)
- Hotel Caveoso *** (https://www.caveosohotel.com/)

B&B are very diffused in Matera. Those located in Sassi di Matera (Sasso Caveoso and Sasso Barisano) two districts of the Italian city of Matera are not fully accessible for disable people. For further information visit: https://www.materawelcome.it/en/

Transfer

To reach Matera by airplane, the closest airport is BARI. There is also a train lines reaching Matera from the main Italian cities (www.trenitalia.com)

The transfer from Matera to Metaponto (and vice-versa) is free. Participants will be picked up and bring back to Matera-Metaponto to take part in the training sessions.

Training sessions

The participants are required to bring a personal notebook to work on proposed hands-on sessions.

Participation

Participation is based on a simple application. Anyone interested in plant phenotyping can apply. The application includes the CV, a brief description on plant phenotyping experience and a short motivation to attend the training session. The applications will be evaluated by an expert panel.

Contacts

Dr. Michela Janni, michela.janni@imem.cnr.it
Dr. Silvana Moscatelli, silvana.moscatelli@cnr.it