

# TOMATO PLANT AND FRUIT PHENOTYPING TRAINING COURSE

Maritsa Vegetable Crops  
Research Institute  
Plovdiv - Bulgaria  
3rd - 13th July 2023



This training course consists of two parts: the **first part** (3<sup>rd</sup> July) will be blended in person and on-line and will consist in the visualization of a series of videos explaining different phenotypic traits that allow understanding tomato diversity. This theoretical part will be completed with practical lessons in the greenhouse (4<sup>th</sup> July). The **second part** will consist in actual phenotyping of a large and diverse collection of tomato accessions from the repository of the HARNESSTOM project and this will take place at the greenhouses of the MVCRI. Trainees will be guided by expert trainers in the phenotyping activity. Students, technicians, researchers, farmers and citizens interested in plant phenotyping are invited to join this training course.

## Place

Meeting in person will take place at: [Maritsa Vegetable Crops Research Institute](https://www.maritsa-crops.com/)

32 Brezovsko shosee Str.  
Plovdiv 4003, Bulgaria  
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mobile: +359878465419  
Contact email:

Dr. Ivanka Tringovska ( [dwdt@abv.bg](mailto:dwdt@abv.bg) )

Language: English. For people attending on-line: presentations will be published as Youtube short clips, with English subtitles. Non-English speakers can take advantage of Youtube's automated subtitle translation. Participants will be able to ask questions.

## Registration

Participation is free, but prior registration is required. Please register at: [https://bit.ly/harnesstom\\_tcourse](https://bit.ly/harnesstom_tcourse)

Dateline for registration: 30/06/2023. For online participants, the link will be sent once registration has been completed.

## Program

### First day: 3<sup>rd</sup> July (on-line and in person activity)

09:00. Introduction to the Course. *Antonio Granell, IBMCP*  
09:10. Brief introduction on phenotyping protocol. *Andrea Mazzucato, UNITUS*

#### Part I: THE THEORY OF PHENOTYPIC TRAITS

##### SESSION1: PHENOTYPING PLANT, INFLORESCENCE AND FLOWER TRAITS. Moderator: *Joan Casals, UPV-FMA*

09:20. Phenotyping of plant trait. *María José Díez, UPV*  
09:35. Phenotyping of leaf traits. *María José Díez, UPV*  
10:50. Phenotyping flowering and inflorescence traits. *Andrea Mazzucato, UNITUS*  
11:05. Phenotyping flower trait. *Andrea Mazzucato, UNITUS*  
11:20. Break

##### SESSION 2: PHENOTYPING FRUIT TRAITS. Moderator: *Andrea Mazzucato, UNITUS*

11:40. Brief introduction to fruit traits. *Andrea Mazzucato, UNITUS*  
11:45. Phenotyping green fruit traits. *Andrea Mazzucato, UNITUS*  
12:00. Phenotyping the red fruit: shape traits (I). *Joan Casals, UPV-FMA*

12:15. Phenotyping the red fruit: shape traits (II). *Joan Casals, UPV-FMA*

12:30. Phenotyping the ripe fruit: size and structure (I). *Ivanka Tringovska, MVCRI*

12:45. Phenotyping the ripe fruit: size and structure (II). *Ivanka Tringovska, MVCRI*

### Second day: 4th July (in person activity)

#### SESSION 3: PRACTICAL LESSONS ON PHENOTYPING TOMATO

08:30 – 08:40. The phenotyping trial of the Repository of HARNESSTOM project. *Ivanka Tringovska, MVCRI*

08:40 – 11:30. Practical lesson in the greenhouses and laboratories of MVCRI. *Ivanka Tringovska, MVCRI, Joan Casals, UPV-FMA,*

Part II: PHENOTYPING THE REPOSITORY OF THE HARNESSTOM PROJECT IN THE GREENHOUSES (in person activity)

*The phenotyping of the Repository of the HARNESSTOM project will take place from 5<sup>th</sup> July to 13<sup>th</sup> July. Trainees will be guided by trainers in the phenotyping activity.*

Organized by:



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Local organizer: