



"HARNESSTOM alliance with Roxy-COST action"

The Roxy-COST Action "Oxygen sensing a novel mean for biology and technology of fruit quality" annual meeting took place in Belgrade from 4-6 October 2022 (<https://roxycost.toulouse-inp.eu/en/index.html>)(<https://www.cost.eu/actions/CA18210/>).

The meeting gathered 70 participants from 23 different countries from all over Europe. An excellent opportunity for networking and interaction with the community of researchers interested in tomato ripening, postharvest and plant responses to stress under the common theme of low oxygen participation in those processes. The meeting was a great success given the quality of the scientific presentations and the ideas that emerge during the brainstorming on different sessions/wps.

HARNESSTOM was highly represented in the meeting as the institution coordinating Roxy-COST (INPT) is also a partner of HARNESSTOM and HARNESSTOM coordinator is a member of the Management Committee and the Core group of Roxy-COST Action.

As result of this cross-pollination event, Roxy-COST partners agree to collaborate with HARNESSTOM's in several networking and training activities programmed for the coming months. These include (1) the upcoming Training School on "Finding your ideal Tomato ", scheduled for December 2022 and organized by ENEA partner in Rome; (2) the "Phenotyping Training Course and phenotyping Jamboree" (March 2023, organized by UPC, UNITUS and MVCRI to take place at MVCRI in Bulgaria) and (3) the "Second Advanced training School" to take place on Oct 2023 in Israel. In addition to collaboration and co-organization of these training schools, Roxy-COST will allocate STSMs to facilitate participation of Roxy-COST students. HARNESSTOM also will facilitate including data from Roxy-COST partners in the one-stop-shop HARNESSTOM Database and provide access to the HARNESSTOM Gateway of genomic, genetics and phenotypic information and tools.

News for this upcoming event will be advertised and communicated at due time

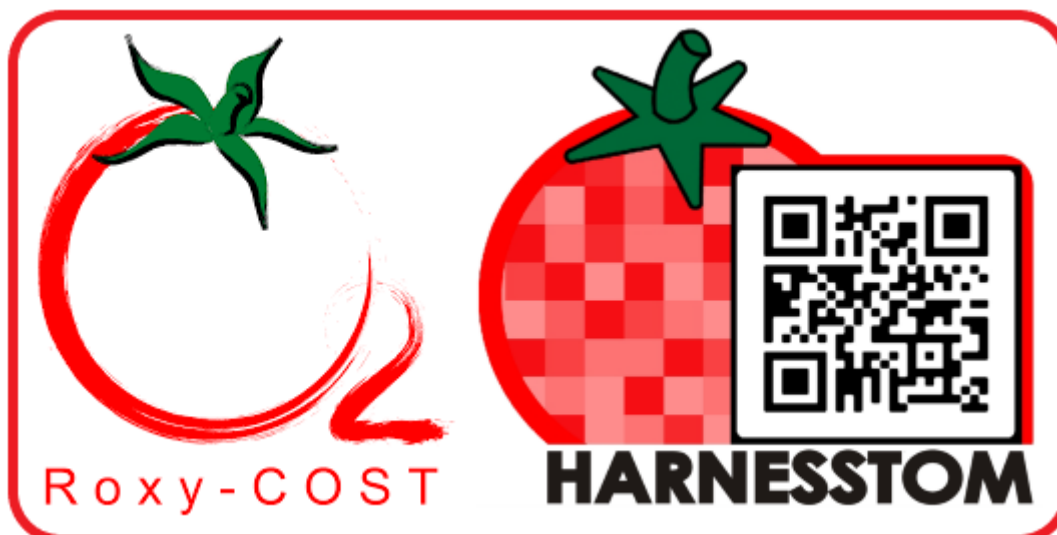


Figure 1. Roxy COST – HARNESSTOM alliance logo





Figure 2. Group Picture of the participants at the ROXY COST meeting in Belgrade

PROGRAM

DAY1 – TUESDAY 4th OCTOBER

9:00-9:30	Registration
9:30-10:00	Welcome and Introduction to the COST Action CA18210 J. Pirrello / P. Kalaitzis / D.Misic
	Chair: Danijela Misic
10:00-10:50	Angelos Kanellis Low Oxygen Action on Fruit Tissues: A Renaissance of the First Scientific Love - How it Was Started and How it Was Progressed
10:50-11:20	Coffee Break
11:20-11:40	Julien Pirrello Transition to ripening in tomato fruit needs genetic reprogramming initiated in gel tissue
11:40 - 12:00	Panagiotis Kalaitzis Alterations in the expression of prolyl 4 hydroxylase 3 induces significant changes in tomato fruit ripening
12:00 - 13:30	Lunch
	ECl session
13:30 - 13:40	ECl introduction – B. Van de Poel / M. Vidovic / S. Hartman
13:40 – 14:00	Jasmina Nikodinovic Reducing the carbon footprint of a research scientist
14:00 – 14:15	Anton Shiriaev The Impact of selenium enrichment on tomato fruit metabolome and transcriptional regulation
14:15 – 14:30	Nurdan TUNA GÜNES The Effects of Low Oxygen Applications and Different Storage Conditions on the Sensory Properties of 'Santa Maria' and 'Ankara' Pear Cultivars
14:30 – 14:45	Maria Lobato Gomez Metabolic engineering to improve tomato fruit quality
14:45 - 15:00	Oliver Tusevski Phenolic compounds contents and antioxidant activity of apples stored in a controlled atmosphere
15:00 – 15:15	Theresa Weigl Impact of 1-MCP treatment and low oxygen storage conditions on post-harvest ethylene production depends on the apple cultivar
15:15-15:30	Shiyu Ying Regulation and role of ERF.E in climacteric fruit ripening
15:30 – 16:00	Coffee break
16:00 – 16:15	Ntoanidou Symela Transcriptome analysis and functional characterization of genes involved in the phenolic diterpenoids' biosynthetic pathway in <i>Rosmarinus officinalis</i>



16:15 - 16:30	Sonja Rašeta Influence of flooding on growth performance of selected tomato genotypes from Gene Bank of Republic of Srpska
16:30 – 18:00	Panel discussion with junior PI's at different stages of their academic career and the ECI members Coffee break

DAY2 – WEDNESDAY, 5TH OCTOBER

	Chair: Mondher Bouzayen
9:30-9:50	Miloš Mojović Employing EPR spectroscopy and imaging to expose oxidative stress in plants
9:50 – 10:10	D. Gibbs Hypoxia signalling via functionally distinct plant N-degron pathway targets
10:10-10:30	Sjon Hartman Remember the Rain: VRN2 Encodes Hypoxia Memory to Enhance Long-Term Flooding Tolerance
10:30–11:00	Coffee Break
11:00-11:20	Tony Granell Tomato antioxidant composition in the fruit: natural and generated diversity
11:20 -11:40	Gianfranco Diretto Genome editing-induced remodeling of allergen and glycoalkaloid composition in tomato
11:40 – 12:00	Paul Fraser Isoprenoid biosynthesis and sequestration in tomato fruit and the role of plastoglobuli
12:00 - 13:30	Lunch
	Chair: Panagiotis Kalaitzis
13:30-13:50	B. Van de Poel Leaf ontogeny and epinasty: how development steers morphological plasticity during waterlogging stress in tomato'
13:50-14:10	Mustafa Erkan The Effect of Low Oxygen Storage vs 1-Methylcyclopropene in Different Tomato Types and Cultivars During Ripening
14:10 – 14:30	B. Nicolai Oxygen transport and hypoxia in tomato fruit during development
14:30 - 14:50	Danijela Misic Berries of hypoxia-tolerant Solanum dulcamara L.: a convenient model system to study redox processes in relation to fruit ripening
14:50 - 15:10	Agata Leszczuk Arabinogalactan protein is a molecular and cytological marker of the fruit ripening process
15:10 - 15:40	Coffee break
15:40-16:00	Beatriz BIELSA PEREZ Biomarkers for oxygen sensing and waterlogging in Prunus rootstock
16:00-16:20	Aylin ALTAN Development of moisture resistant visual oxygen indicator in packaged fruits
16:20 – 16:40	Margarida Ana Fortes SIGRAS10 mutants exhibit lower seed number and subtle delay in fruit ripening
20:00	Gala diner Restaurant "Dva jelena" in the bohemian quarter "Skadarlija"





DAY3 - THURSDAY 6TH OCTOBER

09:30-11:00	Working Group parallel sessions		
	Working Group Hormonal profiling	Working Group Post-harvest challenge	Working Group Low oxygen and ROS in plant physiology
11:00 – 11:30	Coffee break		
11:30-12:00	Working Group restitution and general discussion		
12:00-13:30	Lunch		
13:30-16:00	Meeting of the Management Committee CA18210 – only for MC members		
18:00	Celebration of jubilee "50 years of Serbian Plant Physiology Society" in Botanical garden "Jevremovac"		

