



# Webinar series on Sustainability of *Crocus sativus* L. Cultivation in the World in the Era of Climatic Change



## AGENDA

Day 1: 16 May 2024

15:30-19:30 (time zone Athens, Greece - GMT+3)

- 15:15**      **Opening of the platform**
- 15:30 - 15:45**      **Introduction: Why we undertook the initiative to organize this series of webinars.** Professor M.Z.Tsimidou (Aristotle Univ. Thessaloniki, Greece) & Professor A.R. Koocheki (Ferdowsi Univ. of Mashad, Iran)
- 15:45 – 16:00**      **Current status of Greek saffron cultivation – Krokos Kozanis PDO.** Vassilis Mitsopoulos, (Saffron grower and president at Cooperative de Safran, Krokos, Greece)
- 16:00 – 16:15**      **The dichotomy of a local culture in a global market: challenges of saffron cultivation in La Mancha.** Lecturer Héctor Martínez S-Mateos (University of Castilla-La Mancha, Spain)
- 16:15 – 16:30**      **The peculiarities of saffron production in L'Aquila area (Italy).** Massimiliano D'Innocenzo (Saffron producer, President of the Consortium of Saffron of L'Aquila PDO, Italy)
- 16:30 – 16:45**      **Impact of climate change on saffron cultivation in Morocco.** Soukrat Sakina (agronomist, PhD, manager, SoukratSeeds sarl company, Rabat, Morocco)
- 16:45 – 17:45**      **Coffee break**
- 17:45 - 18:00**      **An overview of saffron produced in Italy (recorded talk).** Lecturer Luca Giupponi (University of Milan)
- 18:00 - 18:15**      **The DNA and genomes of saffron crocus & opportunities for improvement of sustainability.** Professor Pat Heslop-Harrison (Genetics and Genome Biology, University of Leicester, UK)
- 18:15 - 18:30**      **Current status and prospect of the Cuenca Crocusbank.** Marcelino de los Mozos Pascual (Researcher and genebank curator at the Bank of Plant Germplasm - Regional Inst. of Agri-Food & Forestry Res. & Development Castilla-La Mancha Spain)
- 18:30 - 18:45**      **The Saffron Flower Production in Spain. Problems and perspectives.** Professor Rosa Victoria Molina Romero (Polytechnical University of Valencia), Agronomist & saffron expert Horacio López Córcoles & Llanos Simón (ITAP, (Instituto Técnico Agronómico Provincial. Diputación de Albacete, Spain)
- 18:45 - 19:30**      **Discussion among speakers and attendees & Concluding Remarks.** Conveners: Professors Maria Tsimidou & Alireza Koocheki



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## AGENDA

Day 2: 17 May 2024

10:30-18:45 (time zone Athens, Greece - GMT+3)

- 10:30**      **Opening of the platform**
- 10:30 - 10:45**      **Weather Impact and Constraint Analysis of Kashmir Saffron.** Firdous Ahmad Nehvi (Spice Board Ministry of Commerce, India)
- 10:45 – 11:00**      **Assessment of climate change and climate extremes on temporal and spatial changes of saffron yield.** Saeedeh Kouzegaran (Responsible expert in applied meteorological research in Research Institute of Meteorology and Atmospheric Science, Climate Research Institute, Iran)
- 11:00 – 11:15**      **Mitigation of climate change effects on saffron using agricultural biotechnology.** Professor Amjad M. Husaini (Professor/Senior Scientist in Plant Biotechnology at SKUAST-Kashmir, J&K/India)
- 11:15 – 11:30**      **Effect of climate changes on saffron production in Herat, Afghanistan.** Associate Professor Ramin Nazarin (Agronomy Department, Faculty of Agriculture, Herat University, Afghanistan)
- 11:30 – 11:45**      **Biotic Stress of Saffron.** Associate Professor G.H.Mir (Advanced Research Station for Saffron & Seed Spices, University of Agricultural Sciences & Technology, India)
- 11:45 - 12:00**      **Promotion of saffron in India under changing climatic scenario.** Bashir Ahmad Alie (Advance Research Centre for Saffron & Seed Spices SKUAST-Kashmir, India)
- 12:00 - 12:15**      **The effect of climate change and the agro-ecological zoning on quality of saffron in Iran.** Associate Professor Soroor Khorramdel (Ferdowsi University of Mashhad, Iran)
- 12:15 - 12:30**      **Climatic variability and its impact on crops with special reference to Kashmir region.** Sameera Qayoom (Division of Agro-meteorology, SKUAST-Kashmir, India)
- 12:30 - 12:45**      **Can changes in corm weight justify changes in saffron yield under different climatic conditions.** Associate Professor Hamid Reza Sharifi (Khorasan Razavi Agricultural and Natural Resources Research Center, Mashhad, Iran)
- 12:45 - 13:00**      **Trends of the past and future impacts of climate change on saffron production in Iran.** Associate Professor Roohola Moradi (Department of Plant Productions, University of Torbat Heydarieh, Iran)
- 13:00 - 13:15**      **Studying physiological reactions of saffron under changes in climatic parameters.** Saffron expert Hashim Aslami, Lecturer and Researcher Alireza Nejadmohammad Namaghi (Director of the Department of Medicinal Plants of the Applied Scientific University, Afghanistan)



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- 13:15 - 13:30** **Can heat stress be mitigated in summer by using mulch and shading in saffron fields?** Hamidreza Tavakkoli-Kakhki (Speaker), Hamidreza Sharifi and Zohre Nabipour (Khorasan Razavi Agricultural and Natural Resources Research and Education Center, Iran)
- 13:30 – 14:15** **Coffee break**
- 14:15 – 14:30** **The Saffron holobiome.** Sheetal Ambardar (School of Biotechnology, University of Jammu, India)
- 14:30 – 14:45** **Synoptic analysis of sudden drop in air temperature and its effect on saffron yield in 2023.** Professor Seyed Hossein Sanaei Nejad, Researcher Khosro Salari (Speaker), Associate Professor Soroor Khorramdel (Ferdowsi University of Mashhad, Iran)
- 14:45 – 17:00** **Saffron (*Crocus sativus* L.) production beyond Kashmir: Efforts and Challenges.** Rakesh Kumar (Institute CSIR-IHBT, Palampur, HP, India)
- 17:00 - 17:15** **Evaluation of saffron yield using machine learning and remote sensing techniques in the face of climate change.** Assoc. Professor Soroor Khorramdel, Researcher Mehdi Mohammadnezhad (Speaker), Research Director of Water and Environment Research institute Pooya Shirazi (Ferdowsi University of Mashhad, Iran)
- 17:15 - 17:30** **The possibility of the effect of climate change on the growth and development of bacterial rot of saffron corms (*Burkholderia gladioli*).** Assistant Professor Plant Pathology Mahmoud Reza Karimi Shahri (Khorasan Razavi Agricultural and Natural Resources Research Center (KANRRC) Plant Protection Research Dept. Mashhad, Iran)
- 17:30 - 17:45** **Saffron- microbe interaction; identifying and managing friends and foes.** Jyoti Vakhlu (Researcher, School of Biotechnology, University of Jammu/India)
- 17:45 - 18:00** **Planting in closed environment: A strategy for producing saffron under climate change and global warming.** Associate Professor S. Khorramdel, Researcher Mohammad Hassan Hatefi Farajian (Speaker) (Ferdowsi University of Mashhad, Iran)
- 18:00 - 18:45** **Discussion among speakers and attendees & Concluding Remarks.** Conveners: Professors Alireza Koocheki & Maria Tsimidou