



6th Scientific Meeting for Landraces and Indigenous Varieties

Exploring the world of crop landraces

Research Dissemination Center AUTH, 3rd Septemvriou Str. -
Aristotle University Campus, Thessaloniki, Greece

31st May-1st June 2022

PROGRAMME

Aristotle University of Thessaloniki (Greece)

- Deanship of the Faculty of Agriculture, Forestry and Natural Environment
- School of Agriculture
- School of History and Archaeology



ARISTOTLE UNIVERSITY
OF THESSALONIKI

SCHOOL OF HISTORY AND ARCHAEOLOGY
DEPARTMENT OF ARCHAEOLOGY, AUTH

landraces6meet.web.auth.gr

Day 1 - NATIONAL DAY (in Greek): Tuesday 31st May 2022

08:30 Registrations

09:00 Welcome

Chair: Athanasios Mavromatis (AUn), Sultana-Maria Valamoti (AUn), Penelope Bebeli (AUA), Chrysoula Scorditi (UOFNG)

09:00 A. Mavromatis (President of the Organizing and Scientific Committee)

Nikolaos Papaioannou (Rector of AUn)

Georgios Georgantas (Minister of Rural Development and Food)

Stavros Kalafatis (Vice Minister of Interior - Sector Macedonia Thrace)

Efstratios Stylianidis (Vice Rector of Research and Lifelong Learning AUn)

Athanasios Saropoulos (President of the Central Macedonian Branch of the Geotechnical Chamber of Greece)

Ioannis Papadopoulos (President of the Self-Managed Body of Markets - Producers of Organic Products of the Regional Unit of Thessaloniki)

Eleni Manakidou (President of the School of History and Archaeology AUn)

Stefanos Koundouras (Vice President of the School of Agriculture AUn)

Opening of the Scientific Meeting

09:30 Session 1: Archaeology-History-Civilization

Chair: Kostas Kotsakis (AUn), Alexandra Livarda (GIAP, ICAC)

09:30 Cultivars in ancient Greek documents

Sultana Maria Valamoti (AUn, School of History and Archaeology), Vasilis Fyntikoglou (AUn, School of Philology)

09:45 Agricultural products and their processing in northern Greece from the 4th century until Roman times

Polyxeni Adam-Veleni and Katerina Tzanavari (Hellenic Ministry of Culture and Sports)

10:00 The cultivation of *Triticum timopheevii* in prehistoric Europe and Western Asia (in english)

Glynis Jones (University of Sheffield, Department of Archaeology, UK), Amy Bogaard (University of Oxford, Dept. of Archaeology, UK), Mike Charles (University of Oxford, Dept. of Archaeology, UK), Dragana Filipović (University of Kiel), Wiebke Kirleis (University of Kiel) and Sultana Maria Valamoti (AUn, School of History and Archaeology)

10:15 Questions & Answers

10:30 Session 2: Landraces' collection and on-farm conservation

Chair: Eleni Maloupa (ELGO-DIMITRA), Athanasios Molasiotis (AUTH)

10:30 Characterization, evaluation and safeguarding local deciduous fruit trees cultivars in the frame of the Fruittrees2Safeguard project

Thomas Sotiropoulos, Georgios Pantelidis, Konstantinos Kazantzis (ELGO-DIMITRA, Institute of Plant Breeding and Genetic Resources, Department of Deciduous Fruit Trees), Ioannis Manthos (ELGO-DIMITRA, Institute of Plant Breeding and Genetic Resources, Department of Nut Trees), Maria Irakli (ELGO-DIMITRA, Institute of Plant Breeding and Genetic Resources), Miltiadis Christopoulos (ELGO-DIMITRA, Institute of Technology of Agricultural Products), Konstantina Ziakou and Pavlina Drogoudi (ELGO-DIMITRA, Institute of Plant Breeding and Genetic Resources, Department of Deciduous Fruit Trees)

10:45 Crop landraces are still cultivated: recent landraces exploration scientific missions - Agricultural University of Athens

Penelope J. Bebeli (AUA, Institute of Plant Genetic Resources, Laboratory of Plant Breeding and Biometry)

11:00 Research Project: GoCitrus - Rescue and exploitation of native Greek citrus varieties

Vasileios Ziogas (ELGO-DIMITRA, Institute of Olive Tree, Subtropical Crops and Viticulture)

11:15 Questions & Answers

11:30 Coffee break

12:00 Session 3: Study and Characterization of Plant Genetic Resources

Chair: Paschalina Chatzopoulou (ELGO-DIMITRA), Dimitris Vlachostergios (ELGO-DIMITRA)

12:00 Chemical characterization of indigenous wine varieties and correlation with the wines' organoleptic characteristics

Stefanos Koundouras (AUA, School of Agriculture)

12:15 Study of the Bank of Greece on the impact of Climate Change specifically on agriculture in the light of the importance of landraces in adapting agriculture to climate change

Andreas Karamanos (Agricultural University of Athens and Committee of the Study of the Bank of Greece on the Impacts of Climate Change)

12:30 Evaluation of tomato landraces for yield, quality and nutritional value

Raphael Tagiakas, Ilias Avdikos, Athanasia Goula, Kostas Koutis, Parthena Pangalidou and Athanasios Mavromatis (AUA, School of Agriculture)

12:45 Horticultural landraces rescue and the utilization of their biodiversity to address the effects of climate change

Apostolos Kalyvas, Alike Xanthopoulou, Kalliopi Kadoglidou and Ifigeneia Mellidou (ELGO-DIMITRA, Institute of Plant Breeding and Genetic Resources)

13:00 Questions & Answers

13:15 Light lunch

14:15 Session 4: Economic importance of landraces and indigenous species

Chair: Dimitrios Gerasopoulos (ATh), Anastasios Michailidis (ATh)

14:15 Organic farmers of Northern Greece and landraces – Plant Genetic Resources' Value - Genebanks

Chrysoula Skorditi and Anna Aivazidou (Union of Organic farmers of Northern Greece)

14:30 Economic value of Genebanks

Tasos Xepapadeas (Athens University of Economics and Business and University of Bologna)

14:45 Grape clone selection

Nikos Dalpis (Vitro Hellas SA)

15:00 SITO Research Project: Development of cereals and legumes bakery products with improved quality and nutritional characteristics

Athina Lazaridou, Kali Kotsiou, Chrysanthi Nouska (ATh, School of Agriculture), Anthia Matsakidou (ATh, School of Chemistry), Magdalini Chatzikamari, Evagelia Papagianni and Konstantinos Biliaderis (ATh, School of Agriculture)

15:15 The added value of certification systems for products of landraces

Stelios Vaporidis (TUV AUSTRIA HELLAS)

15:30 Questions & Answers

15:45 Tribute to Nikos Stavropoulos (former Head of the Agricultural Research Center of Northern Greece and the Greek Genebank)

16:15 Coffee break

16:45 Round table: Modern approaches for the conservation and utilization of landraces

Coordinator: A. Mavromatis (ATh)

Participants: Representatives of ministries, agencies and organizations, growers, maintainers of local varieties and entrepreneurs

16:45 Athanasia Mavridou and Christos Vakoufaris (Ministry of Rural Development and Food, Directorate of Propagating Material of Cultivated Plant Species and Plant Genetic Resources, Variety Research Department of Cultivated Plants): Implementing the EU Conservation Variety Policy - Conservation Varieties

16:55 Alexandra Spilioti and Katerina Giannoulia (Ministry of Rural Development and Food, Directorate of Quality Systems and Organic Farming, Department of Plant Organic Products): Propagating material in organic farming in the framework of the implementation of the new (EU) regulation 2018/848

17:05 Parthenopi Ralli (ELGO-DIMITRA, Institute of Plant Breeding and Genetic Resources, Greek Genebank): The geographical distribution of landraces in Greece based on the Greek Genebank's collections

17:15 AEGILOPS: Video for Bachovitiki pepper landrace

17:25 Georgios Doumos (Organic farmer): Cereal and pepper cultivation in the area of Aridaia

- 17:30 **Panagiotis Sainatoudis (PELITI Founder):** Peliti's activities for landraces
- 17:40 **Dimitrios Dimitriadis (DIO):** The traditional varieties in Organic Agriculture
- 17:50 **Evaggelos Xykis (Atsiki-Limnos Cooperative):** Actions of the Agricultural Cooperative of ATSIKI
- 18:00 **Nikos Misyrlis (AGRIHERB):** Utilization of landraces from AGRIHERB
- 18:10 **Discussion**
- 19:00 **Dinner and side events**

Day 2 – INTERNATIONAL DAY (in English): Wednesday 1st June 2022

09:00 Welcome

Chair: Athanasios Mavromatis (AUTH), Stefanos Koundouras (AUTH), Parthenopi Ralli (ELGO-DIMITRA), Kostas Koutis (AEGILOPS)

09:00 **Georgios Kefalas (Deputy Governor of Agricultural Economy, Region of Central Macedonia)**

Dimitrios Koveos (Vice Rector for Academic and Students Affairs AUTH)

Apostolos Apostolidis (Dean of School of Agriculture, Forestry and Natural Environment AUTH)

Panagiotis Chatzinikolaou (Chief Executive Officer Hellenic Agricultural Organization DIMITRA)

Spyridon Mamalis (President of the Geotechnical Chamber of Greece)

Dimitrios Vlachostergios (President of Hellenic Scientific Society of Plant Genetics and Breeding)

09:30 Session 1: European Policy and Landraces – Legal Aspects. Experiences from the application of Directives on landraces registration, necessary improvements

Chair: Maria Partalidou (AUTH), Alexandra Chatzigeorgiou (Ministry of Rural Development and Food)

09:30 **The revision of the EU plant and forest reproductive material legislation**

Spyridon Flevaris (EU, D.G. SANTE)

09:45 **Research & Innovation for conservation and use of plant genetic resources**

Gisela Quaglia (EU, D.G. AGRI)

10:00 **The role of social actors in conserving the diversity and breeding**

Riccardo Bocci (Rete Semi Rurali, Italy)

10:15 **Questions & Answers**

10:30 Session 2: Experiences on conservation and utilization of plant genetic resources in Europe

Chair: Alexios Polydoros (AUTH), Irini Nianiou (AUTH)

10:30 An analysis of landrace cultivation across Europe to promote *in situ* conservation (Results of the Horizon2020 Project Farmer's Pride)

Lorenzo Raggi and Valeria Negri (University of Perugia, Italy)

10:45 Balkan network for conservation and sustainable use of plant genetic resources

Gordana Đurić (Alica Foundation, Bosnia and Herzegovina)

11:00 Enhancement of tomato landraces in Spain

Jaime Prohens (University of Valencia, Spain)

11:15 Questions & Answers

11:30 Coffee break

12:00 Session 3: Landraces for Climate change and Global Nutrition

Chair: Andreas Mamolos (AUTH), Vaso Kanellopoulou (SITO seeds, Network for the Protection of Traditional Seeds)

12:00 Strategies for monitoring on farm diversity of landraces for climate change

Ehsan Dulloo (Bioversity International and CIAT)

12:15 Landraces Diversity for Advancing Food Security and Nutrition

Bonnie Furman, Arshiya Noorani and Chikelu Mba (Food and Agriculture Organization –FAO, Rome)

12:30 Participatory breeding to enhance utilization of landraces

Monika Messmer (European Consortium for Organic Plant Breeding-ECO – PB)

12:45 Questions & Answers

13:00 Light lunch

14:00 Session 4: Landraces of the World

Chair: Garyfalia Economou Antonaka (AUA), Gerdana Desheva (Institute of Plant Genetic Resources)

14:00 Integration of local fruit landraces and genetic resources in the concept of EUROrganic Fruits – a European charter under development on Organic Participatory Breeding Network in Fruit Species

Marc Lateur (European Robust Organic Fruit Breeders' Network, EUROrganic Fruits, NOVAFRUITS, Belgium)

14:15 The landraces in the seed sector in Morocco: Faba bean (*Vicia faba* L.) case

Lamiae Ghaouti (University IAV Hassan II, Morocco)

14:30 The role of Genebanks in conserving landraces genetic diversity

Vania Azevedo (International Potato Center-CIP, Genebank, Peru)

14:45 Genetic diversity management of Peruvian maize landraces as a strategy for sustainable food security

Raul Humberto Blas Sevillano, Ricardo Sevilla and Joel Flores (Peru University)

15:00 Questions & Answers

15:15 Session 5: Archaeology-History

Chair: Xinyi Liu (Washington University), Tania Valamoti (AUn)

15:15 A new approach combining 3D Geometric Modern Morphometric analysis and machine learning for the identification of past landraces

Alexandra Livarda, Hèctor Orengo, Alexandra Kriti (Catalan Institute of Classical Archaeology-ICAC, Landscape Archaeology Research Group-GIAP, Tarragona, Spain), Ioannis Mylonas (ELGO-DIMITRA, IPGRB, Greece) and Elisa Ninou (IHU, Greece)

15:30 Plants of the New World and their varieties through archaeobotanical and ethnographic data

Christine Hastorf (Berkeley University, USA)

15:45 Grapevine in Georgia from the Caucasus: The local varieties and research about grape germplasm

David Maghradze (Caucasus International University, Georgia)

16:00 Millet and Rice: a long view of changing crop choices

Xinyi Liu (Washington University in St. Louis, Department of Anthropology, USA)

16:15 Questions & Answers

16:30 Coffee break

17:00 Round Table: We Save landraces – We Use landraces: The Thessaloniki Declaration. Discussion on landraces conservation strategies

Coordinator: Luigi Guarino (Global Crop Diversity Trust)

Participants: Representatives of international organizations

17:15 Kamalesh Adhikari (University of Queensland, Faculty of Business, Economics and Law, School of Law, Australia)

17:25 Vania Azevedo (International Potato Center-CIP, Genebank, Peru)

17:35 Daniel Kotey (CSIR-PGRRI, Ghana)

17:45 Rafael Ortega Paczka (Promaíz Nativo AC, Mexico)

17:55 Roberto Ranieri (Azienda Agr. Sperimentale Stuard, Italy)

18:05 Discussion

19:00 Closure of meeting

19:30 Dinner and side events



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Under the Aegis



HELLENIC REPUBLIC
Ministry of Interior
(Sector Macedonia Thrace)



HELLENIC REPUBLIC
Ministry of Rural Development
and Food



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