



PROGRAM

SARA: SEED SCIENCE AND ARCHAEOBOTANICAL RESEARCH IN ANATOLIA

Ege University
Seed Science and Technology Centre
Izmir, Turkey
23 – 26 September 2019

Our Sponsors





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MONDAY 23 SEPTEMBER 2019	
09:00 – 10:00	Registration
10:00 – 10:30	Symposium Opening Ceremony
10:30 – 11:00	Coffee break
11:00 – 11:30	In Memory of Mirza Gökgöl
Session 1. Archaeobotany and Archaeology (Origin of agriculture in Anatolia)	
Chair : Isabella Caneva	
11:30 – 11:50	Avi GOPHER, S. ABBO and S. LEV-YADUN Southeastern Turkey - the core area of Near Eastern plant domestication
11:50 – 12:10	Andrew S. FAIRBAIRN Agricultural origins on the Konya Plain from 9,600-7,000 BP
12:10 – 12:30	Müge ERGUN Cultivation of Plants and Gathering at Aşıklı Höyük: Insights Into The Beginning of Agriculture in Central Anatolia
12:30 - 12:50	Discussion
13:00 – 14:00	Lunch break
Session 2. Archaeobotany and Archaeology (from Hittites to Antiquity)	
Chair : Andrew S. Fairbairn	
14:00 – 14:20	Andreas SCHACHNER Archaeological and archaeobotanical insights into the agricultural economy of the Hittites
14:20 – 14:40	Corinna RÖSSNER Waterlogged and charred Macroremains from Hittite Oymağaç Höyük, Northern Anatolia
14:40 – 15:00	Girolamo FIORENTINO Byzantine agriculture and the breeding of broad bean in Mediterranean basin
15:00 – 15:20	Alessandra RICCI and B. ULAŞ Byzantine Period monastic estates in the hinterland of Constantinople: agricultural production and surplus
15:20 – 15:40	Heiss G. ANDREAS et al. Interdisciplinary analyses on the material from a Roman votive pit in Terrace House 2, Ephesus
15:40 – 16:00	Melis TOKA Archaeobotanical Analysis of Old Smyrna/Bayrakli Hoyuk
16:00 – 16:20	Discussion
16:20 – 16:40	Coffee break



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Session 3. Archaeobotany and Archaeology (Diffusion of agriculture in Anatolia)	
Chair: Alessandra Ricci	
16:40 – 17:00	Isabella CANEVA The advent of farming in Cilicia: a view from Mersin-Yumuktepe
17:00 – 17:20	Andrew S. FAIRBAIRN History of archaeobotanical studies in Anatolia
17:20 – 17:40	Carlos SANTIAGO-MARRERO, C. LANCELOTTI, M. MADELLA A microbotanical perspective to plant processing activities at Çatalhöyük
17:40 – 18:00	Burhan ULAŞ The Contribution of the İstanbul-Yenikapı Archaeobotanical Remains to the Discussion on Agriculture Origin and Diffusion
18:00 – 18:20	Hüreyla BALCI The Beginning of Agriculture in Northwest Anatolia: An Investigation on Plant Remains of Barcın Höyük
18:20 – 18:40	Discussion
20:00	GALA DINNER
TUESDAY 24 SEPTEMBER 2019	
Session 4. Archaeobotany (Interdisciplinary analyses)	
Chair: Girolamo Fiorentino	
09:00 – 09:20	Laura SADORI, A.MASI, C. VIGNOLA The stable isotope analysis on archaeobotanical remains: a view from the Eastern Anatolia
09:20 – 09:40	Luke CARTWRIGHT, A. S. FAIRBAIRN Stable isotopes of cereals show exceptional growth conditions at Bronze Age Kültepe-Kaneş
09:40 - 10:00	Tom MALTAS <i>Lathyrus clymenum</i> : a recent addition to the prehistoric eastern Aegean crop spectrum
10:00 – 10:20	Nathan WRIGHT Dendroecology, woodland management and climate change in Bronze Age Central Turkey
10:20 – 10:40	Discussion
10:40 – 11:00	Coffee break
Session 5. Plant Genetic Research and Conservation	
Chair: Birte Boelt	
11:00 – 11:20	Yeşim YALÇIN MENDİ Preservation of Genetic Resources Grown Naturally in Turkey by Biotechnological Methods
11:20 – 11:40	Nurdan ATALAN ÇAYIREZMEZ Biocultural Collections and Digital Cultural Heritage: British Institute at Ankara (BIAA) Collections
11:40 – 12:00	Tolga İZGÜ, Y. YALÇIN MENDİ Cryopreservation and Synthetic Seed Production of Some <i>Bulbous</i> Plants in Anatolia



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12:00 – 12:20	Nehir ÖZDEMİR ÖZGENTÜRK , Z. ÖMEROĞLU ULU, A. AKAR, S. ULU Generating the transcriptome data for <i>Corylus Avellana L.</i>
12:20 – 12:40	Lale YILDIZ AKTAS et al. Assessment of seed vigour of nano-primed tomato seeds by green synthesized metal nanoparticles
12:40 – 13:00	Discussion
13:00 – 14:00	Lunch break

Session 6. Archaeobotany and Ethnobotany

Chair: Laura Sadori

14:00 – 14:20	Amy BOGAARD et al. 25 years of Archaeobotany at Çatalhöyük: What we have learned
14:20 – 14:40	Salih KAVAK, H. ÇAKAN, K. S. GİRGİNER Evaluation of plants used as public by ethnobotanical in Çukurova Region with archaeobotanical data
14:40 – 15:00	Ceren CİLİNGİR The representation of bitter vetch in the Neolithic and Chalcolithic Layers of Tepecik-Çiftlik (Niğde) and an ethnobotanical research on the possible uses
15:00 - 15:20	M. Cemre USTUNKAYA, E.LIGHTFOOT, R.N. SINGH, A. FAIRBAIRN, C.A. PETRIE Grain weight analysis of economic crops: Archaeological examples from India and Turkey
15:20 – 15:40	Burhan ULAŞ Traditional wheat cultivation: the case of South-eastern Anatolia
15:40 – 16:00	Discussion
16:00 – 16:20	Coffee break

Session 7. Seed Science and Plant Genetic Research and Conservation

Chair: Yeşim Yalçın Mendi

16:20 – 16:40	Vehbi ESER “Biodiversity in Turkey”
16:40 – 17:00	Alptekin KARAGÖZ How long do the seeds remain viable under varying conditions?
17:00 – 17:20	Serdar G. ŞENOL Mediterranean wild date palm <i>Phoenix theophrasti</i>
17:20 – 17:40	Zeynep DUMANOĞLU Some Characteristics of Sumac (<i>Rhus coriaria L.</i>) Plant Seeds Growing in Elazig Region
17:40 – 18:00	Ramazan AYRANCI, Seydi Ahmet BAĞCI Wheat Breeding Programs and Local Varieties in the Context of Global Climate Change
18:00 - 18:20	Discussion



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WEDNESDAY 25 SEPTEMBER 2019

Session 8. Ethnobotany

Chair: Alptekin Karagöz

09:00 – 09:20	Füsun ERTUĞ Stories of plant use by women
09:20 – 09:40	Serdar Gökhan ŞENOL Ethnobotany at Rural Area of İZMİR (Ödemiş-Tire-Kiraz)
09:40 – 10:00	Ezgi BELLİKCI-KOYU et al. Traditional Uses of Seeds in Aegean Region
10:00 – 10:20	İlhan KOÇULU Local seeds as cultural heritage: the case of the village of Zavot (Kars-Eastern Anatolia) and its socio-cultural and economic evaluation
10:20 – 10:40	Serdar G. ŞENOL Sarıkeçili Nomadic Culture in the Taurus Mountains
10:40 – 11:00	Discussion
11:00 – 11:20	Coffe break

Session 9. Archaeology, Ethnobotany and Seed Science (Agricultural product, technique and organization)

Chair: Avi Gopher

11:20 – 11:40	Rana ÖZBAL, A. GALIK Storing Grain and Crops at Barcın Höyük: A View from the Mid Seventh Millennium BC
11:40 – 12:00	Çiler ÇILINGIROĞLU The Seed and its Storage: Exploring Diverse Subsistence Practices in the Neolithization of Anatolia
12:00 – 12:20	Arkadiusz MARCINIAK Farming, husbandry and subsistence as the embodiment of the Late Neolithic transition. The case of Çatalhöyük
12:20 – 12:40	A.KUN, H. İLBI, N. OZER Development of Resistant Varieties to Powdery Mildew (<i>Leveillula Taurica</i>) in Pepper
12:40 – 13:00	Nedim MUTLU, S. KASAPOĞLU, Ö. DEMİR M.G. KANMAZ, B.DOGAN Development of Tomato Line and Varieties to Resistance Tospovirus (TSWV) and Begomovirus (TYLCV) Viruses By Using Molecular Breeding Methods
13:00 – 13:20	Discussion
13:20 – 14:20	Lunch break

Session 10. Seed Science

Chair: Hülya İlbi

14:20 – 14:40	Birte Boelt Using Multispectral Imaging for Seed Phenotyping
14:40 – 15:00	Özlem ALAN, H.İLBI, A. GÖKÇÖL, E.KAVUT Vigour Test for Sweed Corn: Single Count Radicle Emergence



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15:00 – 15:20	Sharzad Kazemi AFSHAR, A. Esen ÇELEN Researches on the Effects of Some Seed Treatments on Seed Quality and Plant Development of Sunflower (<i>Helianthus annuus</i> L.)
15:20 – 15:40	Senem UĞUR, Yeşim YALÇIN MENDİ Development Stages of Ferns from Past to Present
15:40 – 16:00	Ceren BATMAZ SARI New Perspectives to Understand Nutrition Facts and Health Benefits of Eating Whole Grains
16:00 – 16:20	Discussion
16:20 – 16:40	Coffee break

Session 11. DNA and aDNA

Chair: Cemal Ün

16:40 – 17:00	Assaf DISTELFELD et al. The origin of wheat: insights from a ‘DNA forensic analysis’ study
17:00 – 17:20	Iraz AKIŞ AncientDNA
17:20 – 17:40	Hakan ÖZKAN, U. SESİZ Genetic diversity, evolution and domestication of wheat in the Fertile Crescent
17:40 – 18:00	Zeki KAYA et al. Comparative sequence analysis of 3500-year-old charred crop seeds from Kaymakçı in western Turkey with their contemporary relatives using chloroplast and nuclear gene regions
18:00 – 18:20	Meral GURBUZ-VERAL et al. Olive stones from Yumuktepe (Neolithic settlement) to present
18:20 – 18:40	Discussion
18:40 – 19:40	SYMPOSIUM CLOSING REMARKS

26 SEPTEMBER 2019: EXCURSION TO EPHEBUS AND ŞİRİNCE VILLAGE