



TURKTOB
TÜRKİYE TOHUMCULAR BİRLİĞİ
TURKISH SEED UNION

VIII. International Seed Congress 2024

09-12 December 2024
Granada Luxury Belek
Antalya / TÜRKİYE



SCIENTIFIC PROGRAM

www.tohumkongresi2024.com www.seedcongress.org

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December 9, 2024, Monday: Hotel Check-in

December 10, 2024, Tuesday: Main Hall

09:30 Registration

10:30 **Opening and Protocol Speeches**

Hacı Ömer GÜLER - President, TÜRKTOB

Prof. Dr. Hayrettin KENDİR - President, Congress

İbrahim YUMAKLI - Minister of Agriculture and Forestry of the Republic of Türkiye

11:45 TÜRKTOB – TAGEM Protocol Ceremony

Panel 1

14:00-16:00 **Future of Agriculture: Planning, Support and Innovation**

Uğur ERDEM - General Director, BÜGEM

Dr. Mustafa Altuğ ATALAY - General Director, TAGEM

Dr. Osman YILDIZ - General Director, TRGM

Dr. Ersin DİLBER - General Director, KGGM

December 11, 2024, Wednesday: Main Hall

Panel 2

10:30-12:30 Agricultural Policies, Pricing, Water, Strategies and Subsidies

Ahmet GÜLDAL - General Director, TMO

Dr. Hasan GEZGİNÇ - General Director, TİGEM

Mehmet Akif BALTA - General Director, DSİ

Dr. Ahmet ANTALYALI - President, TKDK

Panel 3

14:00-16:00 Sustainability in Agricultural Ecosystems: Sustainable Finance, Seeds, Artificial Intelligence (AI)

Kemalettin BAYAT - Group Head of Agricultural Banking, Ziraat Bank

Aykut ÖZBUĞDAY - General Director, PROGEN SEED

Süleyman Yavuz İLGÜN - General Director, ALP AGRICULTURE

Dr. Ömer YAZICI - Marketing Director, AGROVECH



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10 December, Tuesday		Hall A
13:30-15:00	Keynote Speaker Chair: İbrahim Demir	
13:30-14:00	Recent Developments in Plant Breeding	<i>Hakan Özkan</i>
14:00-14:30	Recent Developments in World Seed Trade	<i>Csaba Gaspar</i>
14:30-15:00	Seed Coating Technologies	<i>Alan George Taylor</i>
15:00-15:10 Coffee Break		
15:10-16:10	Session: Seed Production & Technology Chair: Csaba Gaspar	
15:10-15:20	Responses of Enzymes To Salinity Stress In Perennial Ryegrass, Tall Fescue And Festulolium In Salt Tolerance	<i>Amjad Ali</i>
15:20-15:30	Electrical conductivity estimates of normal germination percentages of seed lots in the same cultivar and different cultivars in cabbages	<i>İbrahim Demir</i>
15:30-15:40	Pistachio (<i>Pistacia vera</i>) Rootstock Production and Its Importance from Buttum (<i>Pistacia khinjuk</i>) Seeds in Southeastern Anatolia Region	<i>Kander Koç</i>
15:40-15:50	Effects of Biopriming With Pgpr Bacterias on The Viability of Eggplant Seeds At Different Physiological Maturity	<i>Burcu Kenanoğlu</i>
15:50-16:00	Enhancing Onion Seed Production and Disease Resistance through Seed Priming and Foliar Application of Salicylic Acid and Potassium Nitrate	<i>Arushi Padiyal</i>
16:00-16:10	Q&A	
16:10-16:20 Coffee Break		



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10 December, Tuesday		Hall A
16:20-17:20 Session: Seed Production & Technology Chair: Ayup Iskakov		
16:20-16:30	Impact of Electromagnetic Fields on the Germination of Perennial Ryegrass Seeds	<i>Cansu Telci Kahramanoğulları</i>
16:30-16:40	Effects of Nanoprimer Treatments on Germination Performance of Tomato and Snake Melon Seeds	<i>Kübra Özmen</i>
16:40-16:50	Efficacy of Seedlings Produced from Microbiota-Modified Seeds Against Some Biotic Stresses	<i>Kutay Coşkun Yıldırım</i>
16:50-17:00	Cold Plasma Treatments Alleviate Peg-Simulated Drought Stress on Germination of Lettuce Seeds	<i>Ertan Yıldırım</i>
17:00-17:10	Response of Cowpea to Natural and İnorganic Seed Priming Agents	<i>Shakeel Imran</i>
17:10-17:20	Q&A	
17:20-17:30 Coffee Break		
17:30-18:30 Session: Seed Production & Technology Chair: Ahmad Alsaleh		
17:30-17:40	Effects on the Germination of Festulolium Seeds By Treatments With A Magnetic Field	<i>Muhammad Sameeullah</i>
17:40-17:50	Relationship Between Different Maturity And After Ripening Levels And Seed Quality In Eggplant Varieties	<i>Kübra Özmen</i>
17:50-18:00	Effects of Temperature And Potassium Nitrate Treatments on Seedling Emergence Performance In Passion Fruit Species	<i>Fulya Uzunoğlu</i>
18:00-18:10	Effect of Seed Treatments on Breaking Dormancy In Different Minor Fruit Species	<i>Suzan Demir</i>
18:10-18:20	Unravelling mechanistic and metabolic interaction of melatonin in alleviating abiotic stress response in chickpea	<i>Shahied Ahmed Khan</i>
18:20-18:30	Q&A	



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10 December, Tuesday		Hall B
15:10-16:10	Session: Plant Biotechnology Chair: Leontino Taveira	
15:10-15:20	Sanitation of Fruits Plants for the Production of Virus-Free Seedlings and Creation Nuclear Stock	<i>Balnur Kabylbekova</i>
15:20-15:30	Development of Determinate Tomato Cultivars Using Speed Breeding and Marker Assisted Selection	<i>Merve Yiğit</i>
15:30-15:40	Comparison on Releasing of Gene Edited Varieties in Turkey and Some Countries	<i>Hasan Çelen</i>
15:40-15:50	The Expression of the RBD Domain of Spike Protein from Omicron Variant of SARS CoV-2 in Tomato	<i>Bayram Cevik</i>
15:50-16:00	Development and Assessment of new transgenic myrosin deficient plant seeds for sustainable fodder and oil production	<i>jam Ahmad</i>
16:00-16:10	Q&A	
16:10-16:20 Coffee Break		
16:20-17:20	Session: Plant Biotechnology & Plant Breeding Chair: Hakan Özkan	
16:20-16:30	Survey of Protein, Amino Acids, and Lipid Profiles In Hempseed Using Ftir Spectroscopy	<i>Ahmad Alsaleh</i>
16:30-16:40	The Effect of CNT on Soybean Plant Development by Different Techniques	<i>Ayten Kubra Yagiz</i>
16:40-16:50	Deciphering Resistance To Tomato Brown Rugose Fruit Virus (Tobrfv) Using Genome-Wide Association Studies	<i>Yasin Topcu</i>
16:50-17:00	99 years of wheat breeding in Türkiye and the impact of regulations in variety development	<i>Mesut Keser</i>
17:00-17:10	Investigation and Characterization of Grain Size Variation in Barley (<i>Hordeum vulgare</i> L.) Landraces Using Conventional and Image Processing Techniques	<i>Guray Akdogan</i>
17:10-17:20	Q&A	
17:20-17:30 Coffee Break		



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TÜRKHİÇ SEÇÜVEN

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10 December, Tuesday		Hall B
17:30-18:20	Session: Plant Breeding Chair: Bülent Uzun	
17:30-17:40	Resistance of Winter Wheat Genotypes to Fungal Diseases in Kazakhstan	<i>Saltanat Dubekova</i>
17:40-17:50	Pepper Varieties in Türkiye and Molecular Markers Used in Virus Resistance	<i>Ayşe Kahraman</i>
17:50-18:00	Ayaş Tomato Variety Improving Studies	<i>Seyfullah Binbir</i>
18:00-18:10	R&D Studies of Tagem (General Directorate of Agricultural Research and Policy, MoAF) in Vegetable Seed Growing	<i>Evrân Doğan</i>
18:10-18:20	Q&A	

SEED
ProGen

Önce
Önce Tohum

ANADOLU MİRASINI *Geleceğe Taşıyoruz*



Turbo, Lider
Olivya, Victoria



Ramses, Lazer, Armada
BA3008, BA1010, BA911



Akça, Beyazhan
Lucilla, Masaccio
Midas,
Ovidio, Cesare



Finola, Sentosa
Alastro



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11 December, Wednesday		Hall A
09:00-10:00	Session: Seed Production & Technology Chair: Kazım Mavi	
09:00-09:10	Reactions of Magnetic Field Treatments On Seeds of Hungarian Vetch	<i>Ahmad Alsaleh</i>
09:10-09:20	{ <i>Alcea rosea</i> } L. Treatments to Improve Emergence Performance in Seeds of the Species	<i>Emine Erğan</i>
09:20-09:30	Comparative Assessment of Wood Vinegar Types And NaCl-Induced Salinity Stress On Germination And Early Growth Performance In Popcorn (<i>Zea Mays</i> Var. <i>Everta</i>)	<i>Sıtkı Ermiş</i>
09:30-09:40	Improvement of Functional Properties of Hull-Less Barley With Microfluidization Process	<i>Arzu Özer</i>
09:40-09:50	Seed producibility potential of stress resilient maize hybrids for commercialization in Nigeria	<i>Silvestro Meseka</i>
09:50-10:00	Q&A	
10:00-10:10 Coffee Break		
10:10-11:00	Session: Seed Production & Technology Chair: Cerima Zahirov Sinanovic	
10:10-10:20	The Position And Importance of Konya Province's Seed Production In Türkiye	<i>Süleyman Soyulu</i>
10:20-10:30	The Importance of Silicon as a Biostimulant in Sustainable Agriculture and Seed Production	<i>Şafak Köseoğlu</i>
10:30-10:40	Effects of Wood Vinegar and Salt Stress on Germination and Seedling Growth in Field Crop Varieties	<i>Yusuf Sarıtaş</i>
10:40-10:50	Seed Yield and Quality Performance in Crosses of Pot Miniature x Garden / Cut Roses	<i>Emine KIRBAY</i>
10:40-10:50	Changing the food systems in Africa	<i>Michael Oke</i>
10:50-11:00	Q&A	
11:00-11:10 Coffee Break		



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11 December, Wednesday		Hall A
11:10-12:10	Session: Seed Production & Technology Chair: Ertan Yıldırım	
11:10-11:20	Effect of Titanium Dioxide Nanoparticle Application on Seed and Different Growth Stages on Sunflower Yield and Yield Components	<i>Nilüfer Koçak Şahin</i>
11:20-11:30	The Status of Turkish Seed Sector Towards 2050 And Future Strategies	<i>S. Ahmet Bağcı</i>
11:30-11:40	Fruit And Seed Characteristics of Turkish Asparagus	<i>Mehmet Şimşek</i>
11:40-11:50	Deciphering the Impact of Temperature and Dormancy Breaking Treatments in Ashwagandha (<i>Withania somnifera</i>) and Improving its Seed Quality	<i>Sultan Singh</i>
11:50-12:00	Q&A	
12:00-13:30 LUNCH		
13:30-15:00	Keynote Speaker Chair: Hakan Özkan	
13:30-14:00	Possible Effects of the European Green Deal on Agriculture and Seed Production	<i>Volkan Güngören</i>
14:00-14:30	Advanced Genomic Tools for Leveraging Durum Wheat Diversity	<i>Luigi Cativelli</i>
14:30-15:00	Recent Developments on Plant Breeders' Rights	<i>Leontino Taveira</i>
15:00-15:10 Coffee Break		
15:10-16:00	Session: Seed Production & Technology / Trading Chair: Ahmad Alsaleh	
15:10-15:20	Problems Encountered By Seed Companies In Turkey In Producing Seeds In Accordance With The Standards And Their Solutions	<i>Meltem Özbay Konca</i>
15:20-15:30	Why Farmers Choose Their Maize Hybrids: An Example of Southern Kazakhstan	<i>Gulmira Samenova</i>
15:30-15:40	Seed Priming with Plant Growth-Promoting Rhizobacteria: A Promising Method For Enhancing Tolerance to Abiotic Stress	<i>Muhammet Çağrı Oğuz</i>
15:40-15:50	Enhancing Seed Sprouting of <i>Calopogonium Caeruleum</i>	<i>Siti Maesaroh</i>
15:50-16:00	Q&A	
16:00-16:10 Coffee Break		



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11 December, Wednesday		Hall A
16:10-17:00	Session: Plant Protection Chair: Arzu Çelik Oğuz	
16:10-16:20	The Effect of some Yield Trial Experimental Materials on the Effect of Bunt Reactions and Yield	<i>Serik Bakırov</i>
16:20-16:30	Cotton Seed Storage Diseases and Pests	<i>Ece Yücel</i>
16:30-16:40	Determination of The Response of Some Wheat Genotypes To {Tilletia Caries} (D.c.) Tul And Its Effects On Quality	<i>Aigul Madenova</i>
16:40-16:50	Q&A	
16:50-17:20 Coffee Break		
17:20-18:10	Session: Plant Protection Chair: Luigi Cattivelli	
17:20-17:30	Reactions to Wheat Leaf Rust {Puccinia triticina} and Its Effect on Grain Quality	<i>Kanat Galymbek</i>
17:30-17:40	Analyzing Genetic Diversity and Mating Type Distribution in the Turkish Pyrenophora graminea Population	<i>Arzu Çelik Oğuz</i>
17:40-17:50	Developing A Dsrna-Based Biopreparate, “Nano Rugose”, Against Tomato Brown Rugose Fruit Virus	<i>Bayram Cevik</i>
17:50-18:00	Identification, Characterization of Aflatoxin-Producing Aspergillus Strains From Corn Seed And Its Mitigation of By Using Nanoparticles	<i>Muqadas Faisal Batool</i>
18:00-18:10	Q&A	



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11 December, Wednesday		Hall B
09:00-10:00	Session: Plant Breeding Chair: Mesut Keser	
09:00-09:10	Marker-assisted selection of soybean for photoperiodic sensitivity genes	<i>Raushan Yezhebayeva</i>
09:10-09:20	Barley Breeding Program in TRNC	<i>Mehmet Karsili</i>
09:20-09:30	Genotype-Environment Interaction Analysis of Advanced-Stage Barley Breeding Lines (<i>Hordeum vulgare</i> L.) under Diverse Rain-fed Conditions	<i>Melih Bilir</i>
09:30-09:40	Using Genomics Tools For Improvement of Silage Hybrid Corn Varieties By Cooperation of Public And Private Sector	<i>Gönül Cömertpay</i>
09:40-09:50	Broadening Genetic Diversity of the Breeding Advanced Germplasm for Accelerated Lentil Varietal Development Through Speed Breeding Based on the Combination of Extended Photoperiod and Off-Season Sowing	<i>Omar Idrissi</i>
09:50-10:00	Q&A	
10:00-10:10 Coffee Break		
10:10-11:00	Session: Plant Breeding Chair: Ahmet Latif Tek	
10:10-10:20	Salt Tolerance Assessment of Durum Wheat (<i>Triticum Durum</i> Desf.) Germplasm: A Comparative Study	<i>Nasrine salhi</i>
10:20-10:30	Assessment of Quantitative Agronomic Traits Using a Bi-parental Doubled Haploid Barley (<i>Hordeum vulgare</i> L.) Population	<i>Emre Karahan</i>
10:30-10:40	The Effect of Trichome Morphology on Resistance to Yellow Mite (<i>Polyphagotarsonemus Latus</i> Banks) in Pepper (<i>C. Annuum</i> L)	<i>Ramazan Özalp</i>
10:40-10:50	Effects of Long-Term Flooding on Pollen Viability and Germination Ability in Tomato (<i>Solanum lycopersicum</i> L.)	<i>Mine Bulut</i>
10:40-10:50	Impacts of Climate-Resilient Wheat Varieties on Production Risk Management in Different Agroecological Zones of Turkey	<i>Yigezu Atnafe Yigezu</i>
10:50-11:00	Q&A	
11:00-11:10 Coffee Break		



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11 December, Wednesday		Hall B
11:10-12:10	Session: Plant Breeding Chair: Sıtkı Ermiş	
11:10-11:20	Comparison of Local Peanuts Grown in the Turkish Republic of Northern Cyprus and Some Varieties of Peanuts that have been Adapted	<i>Kazım Baş</i>
11:20-11:30	Twelve Years of Bread Wheat Regional Yield Trials in Central Anatolia: Insights from Multi-Environment Analysis	<i>Mehmet Dogan</i>
11:30-11:40	A Perspective on Genome and Polyploid Dynamics in Agriculture: An Example of Legume Forage Crop Sainfoin (<i>Onobrychis viciifolia</i>)	<i>Ahmet L. Tek</i>
11:40-11:50	Effects of Two Different Gamma Ray Sources on In Vitro Shoot Explantation of Fraser Photinia and Determination of Effective Mutation Dose	<i>Onur Sinan Türkmen</i>
11:50-12:00	Seed Dispersal Strategies In The Sahara Desert: Adaptive Mechanisms For Plant Survival	<i>Trabelsi Hafida</i>
12:00-12:10	Q&A	
12:10-13:30 LUNCH		
15:10-16:00	Session: Plant Breeding Chair: Gönül Cömertpay	
15:10-15:20	Characterization of Native Olive Genotype İn TRNC	<i>Hüseyin Karanfiloğlu</i>
15:20-15:30	Exploring The Coat Protein-Mediated Resistance To Tomato Brown Rugose Fruit Virus	<i>Bayram Cevik</i>
15:30-15:40	Line Tester Analysis of Some Inbred Lines Developed By East Mediterranean Agricultural Research Institute	<i>Nergiz Coban</i>
15:40-15:50	Breeding For Improvement Of Grain Quality of Spring And Winter Wheat Under Conditions of Western Siberia	<i>Cerpeş Şenelene</i>
15:50-16:00	Q&A	
16:00-16:10 Coffee Break		



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16:10-17:30	Session: Plant Breeding Chair: Ahmet Bağcı	
16:10-16:20	Evaluation of Silage Hybrid Corn Varieties For Yield and Quality Parameters	<i>İbrahim Cerit</i>
16:20-16:30	Whole Genome Sequence Analysis Reveals Possible Resistant Genes In Tomato Mutant Lines	<i>Özer Çalıř</i>
16:30-16:40	Scientific Support For Seed Production In Kazakhstan	<i>Ayup Iskakov</i>
16:40-16:50	Determining the Effects of Different Gamma Radiation Doses Applied on Sunflower	<i>Hacı Tek</i>
16:50-17:00	The National Seed System With Its Strengths and Challenges: Organization of the Seed Chain and Roles of the Main Players	<i>Souapibe Pabame</i> <i>Sougnabe</i>
17:00-17:10	Evaluation of Sunflower Seed Production and Regulations in Turkey	<i>Süleyman Safa Arslan</i>
17:10-17:20	Development of Genotypes Resistant to IMI Group Herbicides in Chickpea (<i>Cicer arietinum</i> L.) Using Chemical Mutation Breeding Method	<i>Abdulkadir Aydođan</i>
17:20-17:30	Q&A	



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DISCUSSIONAL POSTER SESSIONS

11 DECEMBER 2024	17:45-19:00	E-POSTER AREA
GROUPS	CHAIR	E POSTER NUMBER
Group 1	Sibel Day	PP-1
		PP-2
		PP-3
		PP-4
		PP-5
		PP-6
Group 2	Arzu Çelik Oğuz	PP-7
		PP-8
		PP-9
		PP-10
		PP-11
		PP-12
Group 3	Sıtkı Ermiş	PP-13
		PP-14
		PP-15
		PP-16
		PP-17
		PP-18
Group 4	Ahmad Alsaleh	PP-19
		PP-20
		PP-21
		PP-22
		PP-23
		PP-24
Group 5	Ahmet Latif Tek	PP-25
		PP-26
		PP-27
		PP-28
		PP-29
		PP-30

Controversial Poster authors must be present to make their presentations in the E-poster area at the time specified above.



POSTER PRESENTATIONS

PP-1	Nfluence of Temperature, Light and Length of Storage on the Quality and Speed of Germination of Petunia X Hybrida Seeds	<i>Jasna Avdić</i>
PP-2	Crambe (Crambe abyssinica L.) as an Alternative Oil Plant That Can Be Grown in Central Anatolian Conditions Evaluation of	<i>Mehmet Gencer</i>
PP-3	Effect of Aerosol Smoke on Seedling Emergence and Seedling Quality Parameters in Spinach Seeds at Different Temperatures	<i>İbrahim Demir</i>
PP-4	Pre-Sowing Biological Measures of Maize Seed Stimulation	<i>Marijenka Tabaković</i>
PP-5	The Potential of Using Local Seed From Autothon Variety "Çapljinska Paprika" in Comparison to the Commercial "Istarska F1" Hybrid	<i>Lutvija Karić</i>
PP-6	Determiration of the Site and Mechanism of Seed Transmission of Tobrfv	<i>Damla Ulusoy</i>
PP-7	Biocrust Determines the Seed Germination and Seedling Survival of Annual Plants in a Temperate Desert	<i>Xinrong Li</i>
PP-8	Use of Pgprs as Bio-Priming in Seed Germination	<i>Onur Okumuş</i>
PP-9	Unlocking the Potential of Autothon Varieties of Collard Greens (Brassica Oleracea Var. Acephala) for Microgreens Production	<i>Ćerima Zahirović Sinanović</i>
PP-10	Biotechnological Approaches in Vegetable Seed Production	<i>Serkan Aydın</i>
PP-11	Gene Banks and the Importance of Seed Storage	<i>Uğur Yegül</i>
PP-12	Estimation of the Effect of Climate Change on Potential Distribution Areas of Hordeum Vulgare in Summer Growing Regions by Using Species Distribution Model	<i>Gülben Meryem Arslan</i>
PP-13	Biological Soil Crusts Affect Seed Germination and Growth of Exotic Vascular Plant in an Arid Ecosystem	<i>Rong Hui</i>
PP-14	Pre-Extention Demonstration of Improved Chickpea Varieties in Different Agro-Ecological Area of Morocco	<i>Houasli Chafika</i>
PP-15	Biocrusts Affect the Multistability of Arid Regions through Their Impact on Plant Germination	<i>Jingyao Sun</i>



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POSTER PRESENTATIONS

PP-16	Influence of Seed Stratification and Different Types Containers of the Quality of Walnut Seedlings	<i>Fikreta Behmen</i>
PP-17	Fungal Contaminants in Wheat	<i>Samia Mezaache-Aichour</i>
PP-18	Breaking Seed Dormancy of Three Wild Pastoral Fabaceae Species: Effect of Passage Through the Digestive System of Camel	<i>Hafida Trabelsi</i>
PP-19	Research of Yield and Nutritional Values of Local Elephant Grass (<i>Pennisetum purpureum</i>) and Imported Elephant Grass Varieties in TRNC Güzelyurt Conditions	<i>Erkut Uluçam</i>
PP-20	Allelic Polymorphism of VRN Genes in Barley Collection and Breeding Samples	<i>Askar Baimuratov</i>
PP-21	Identification of Breeding Lines of Winter Wheat by Common Bunt Resistance Genes (BT)	<i>Bekzhan Maikotov</i>
PP-22	Genome-Wide Association Study Spotting Single-Nucleotide Polymorphisms for Iron (Fe) and Zinc (Zn) Biofortification in Einkorn Wheat (<i>Triticum monococcum</i> L.)	<i>Fatma Gul Maras-Vanlioglu</i>
PP-23	Determination of Biochemical and Physiological Responses of Ppgr Seed Priming: Enhancing Tolerance to Drought Stress in Sunflower (<i>Helianthus annuus</i>)	<i>Ezgi Oğuz</i>
PP-24	Pre-Extension Demonstration and Evaluation of Bread and Durum Wheat Varieties in Different Agro-Ecological Areas of Morocco	<i>Mona Taghouti</i>
PP-25	Production of Original and Elite Seeds of Varieties and Hybrids of Field Crops Selected by KazRIAPG LLP	<i>Sholpan Bastaubayeva</i>
PP-26	Seed Dormancy Was Associated Seedbank Longevity in a Set of Isogenic Lines of Rice	<i>Ugur Korkmaz</i>
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PP-30	Optimization of Clonal Micropropagation Technology and Rooting of Pear for in Vitro Micrografting	<i>Zarina Yussupova</i>



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