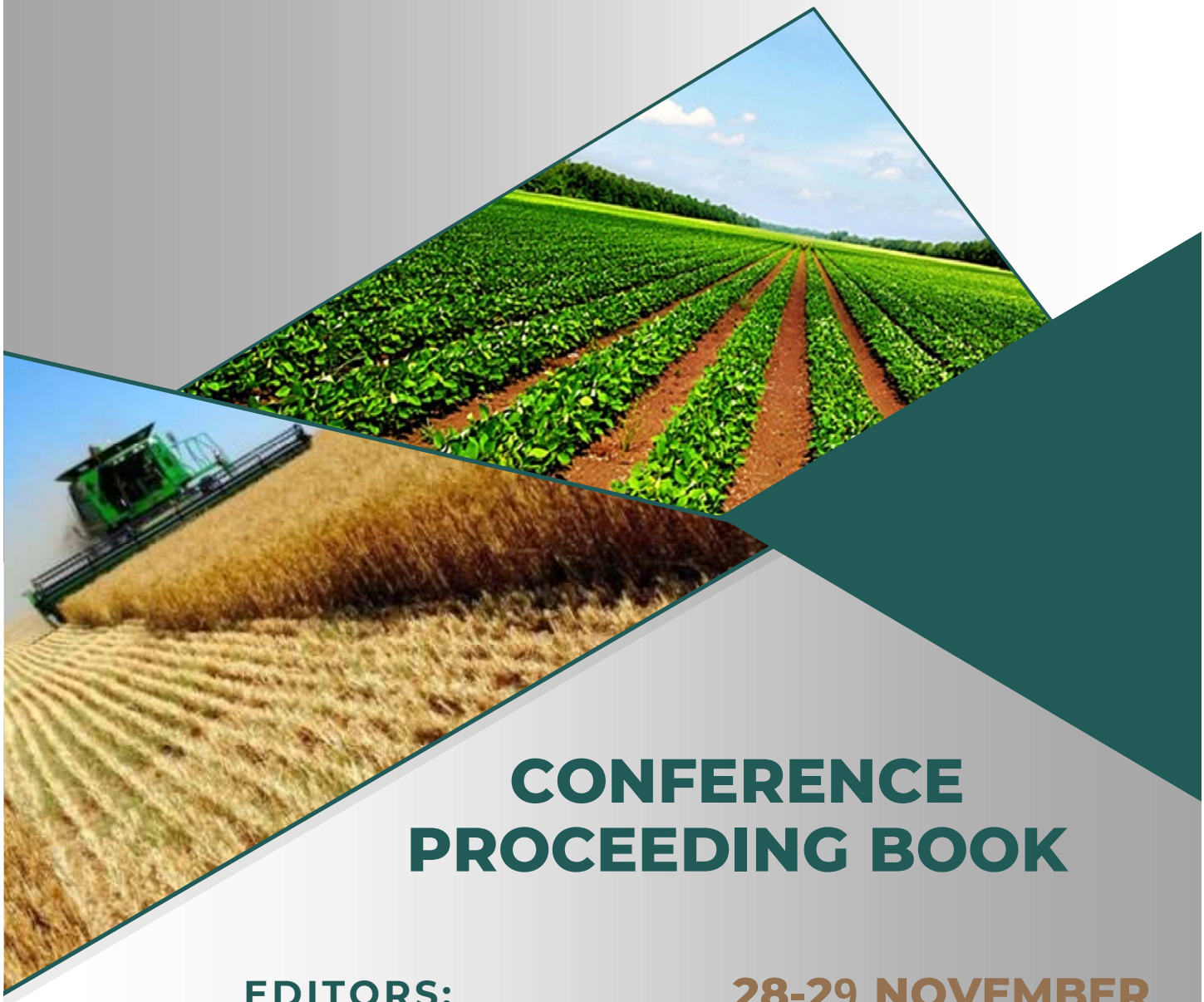
ISPEC 13. INTERNATIONAL CONFERENCE

ON AGRICULTURE, ANIMAL SCIENCE & RURAL DEVELOPMENT



CONFERENCE PROCEEDING BOOK

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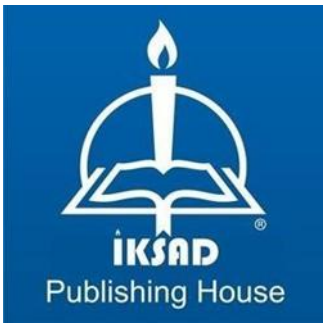
28-29 NOVEMBER

UŞAK

ISPEC INSTITUTE

T.C. UŞAK ÜNİVERSİTESİ 2006

13 th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT



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13 th INTERNATIONAL CONFERENCE ON
AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT

13 th INTERNATIONAL CONFERENCE ON
AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT

November 28-29, 2023 / Uşak, Türkiye

PROCEEDINGS BOOK
(Abstracts & Full Texts)

EDITORS

Doç. Dr. Ayşen Melda ÇOLAK
Assoc. Prof. Dr. Seyithan SEYDOŞOĞLU
Dr. Öğr. Üyesi Kerem MERTOĞLU

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13 th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT

EVALUATION PROCESS and POLICIES

All applications have undergone double blind peer review process. In addition, each paper was accepted and the process of publishing in the book was carried out through editorial oversight. The published papers were presented and discussed at the meeting.

Full texts and abstracts published in accordance with the Symposium Policy have been prepared in accordance with ethical rules and APA standards. Authors of all papers are both ethically and legally responsible.

PARTICIPANTS COUNTRIES

Türkiye, Algeria, Azerbaijan, Egypt, Ethiopia, Finland, Indonesia, India, Iran, Italy, Kazakhstan, Krgyzstan, Macedonia, Moldova, Morocco, Nigeria, Pakistan, Philippines, Russia, Romania, Ukraine, Uzbekistan

TOTAL ACCEPTED ARTICLES: 306

The Number of Accepted Papers from Türkiye: 145
The Number of Accepted Full Papers from Other Countries: 161
The Number of Total Papers:306

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13 th INTERNATIONAL CONFERENCE ON
AGRICULTURE, ANIMAL SCIENCE AND RURAL DEVELOPMENT

November 28-29, 2023

Uşak, Türkiye

SYMPOSIUM SCHEDULE

ISPEC

13. INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE & RURAL DEVELOPMENT

November 28-29, 2023 / Uşak, Türkiye



CONFERENCE PROGRAM

Online & In-person

PARTICIPATING COUNTRIES

Türkiye, Algeria, Azerbaijan, Egypt, Ethiopia, Finland, Indonesia, India, Iran, Italy, Kazakhstan, Kyrgyzstan, Macedonia, Moldova, Morocco, Nigeria, Pakistan, Philippines, Russia, Romania, Ukraine, Uzbekistan

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IMPORTANT

- To be able to make a meeting online, login via https://zoom.us/join site, enter ID instead of "Meeting ID or Personal link Name" and solidify the session.
- The presentation will have 15 minutes (including questions and answers).
- The Zoom application is free and no need to create an account.
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- The application works on tablets, phones and PCs.
- Speakers must be connected to the session 15 minutes before the presentation time.
- All congress participants can connect live and listen to all sessions.
- During the session, your camera should be turned on at least %70 of session period
- Moderator is responsible for the presentation and scientific discussion (question-answer) section of the session.

TECHNICAL INFORMATION

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- You should be able to use screen sharing feature in Zoom.
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Before you login to Zoom indicate hall number and your surname (Hall-1, MELDA)

ÖNEMLİ

- Kongremizde Yazım Kurallarına uygun gönderilmiş ve bilim kurulundan geçen bildiriler için online (video konferans sistemi üzerinden) sunum imkanı sağlanmıştır.
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- Sunumlar için 15 dakika (soru ve cevaplar dahil) süre ayrılmıştır.
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- Zoom uygulaması kaydolmadan kullanılabilir.
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- Sunum yapacakların sunum saatinden 15 dk önce oturuma bağlanmış olmaları gerekmektedir.
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- Oturumdaki sunumlardan ve bilimsel tartışmalardan (soru-cevap) oturum başkanları sorumludur.
- Sunumlar için 15 dakika (soru ve cevaplar dahil) süre ayrılmıştır.

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- Bilgisayarınızda çalışır durumda mikrofon bulunmalıdır.
- Zoom'da ekran paylaşma özelliği kullanılabilmelidir.
- Katılım belgeleri kongre sonunda tarafınıza pdf olarak gönderilecektir.
- Kongre programında yer ve saat değişikliği gibi talepler dikkate alınmayacaktır.

Zoom'a girişte sırayla salon numarasını ve soyadınızı yazınız (Salon-1, MELDA)

Opening Speech

Date: 28.11.2023
Ankara Time: 10.00-12.00

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Dean of The Faculty of Agriculture

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Governor of Uşak

28.11.2023

TUESDAY / 13.30-15.30

Uşak University, Recep Tayyip Erdoğan Congress and Culture Center

Hall 1

MODERATOR: Prof. Dr. Nuray ŞAHINLER

AUTHOR	AFFILITION	ABSTRACT TITLE
Nuray Şahinler	*Uşak University*	Bee Product Composition and Use of Areas
Nuray Şahinler	*Uşak University*	Effect of Heating and Storage on Honey Quality Criteria
Nuray Şahinler Serkan Alakuş Beyza Çetin	*Uşak University*	Astrategic Product; Bee Venom and its Use in Apitherapy
Nuray Şahinler Hülya Gülbaş Elmali Raziye Özdin Büşra Uyar Nazlı Kayhan	*Uşak University*	Effects of Storage Period, Heating Temperature and Heating Duration on The Quality of Honey in Different Honey Types Produced in The Aegean Region.
Zeynep Nur Karakuş Gülşah Çalişkan Koç Yasemin Çelebi	*Uşak University*	Chokeberry: Nutrition Values and Potential Health Effects
Esra Bilici Salih Sezer	*Uşak University*	The Role of The S-Ribosylhomocysteine (Luxs) Gene in The Histophilus Somni Bacteria
Şeref Hamarat	*Padok Livestock and Agricultural Products Ltd.*	Cows, Artificial Meat and Global Warming
Erten Akbel Mustafa Kara	*Uşak University*	Extraction of *Silybum marianum* (L.) Gaertner (Milk Thistle)

28.11.2023
TUESDAY / 13.30-15.30

Uşak University, Recep Tayyip Erdoğan Congress and Culture Center
Hall 2
MODERATOR: Assist. Prof. Dr. Sibel ALAPALA

AUTHOR	AFFILITION	ABSTRACT TITLE
Sibel Alapala Engin Kuldur	*Uşak University*	Sheep Breeding and Eşme Sheep in Uşak Province in Our Country
Sibel Alapala Engin Kuldur	*Uşak University*	Latest Situation of Pastures in Our Country and The Use of The Pastures By Sheep and Goats
Sibel Alapala Ömer Büyükyozgat	*Uşak University*	Breeding Studies in Cattle Breeding and Biotechnological Applications For Reproduction
Ömer Büyükyozgat Sibel Alapala	*Uşak University*	Simmental Cattle Breeding in Turkey and Its Importance in Meat Industry
Abidin Kemeç Ayşenur Altinay	*Uşak University*	Evaluating Urban Gardening Through Sustainable Development Goals From A Smart City Perspective
Ayşenur Altinay Abidin Kemeç	*Uşak University*	Examining The Role of Agricultural Activities in Rural Development From The Perspective of Sustainable Development Goals
Yasemin Sunucu Karafakıoğlu	*Uşak University*	A General Overview of Saffron
Betül Yücel Yeter Çilesiz	*Sivas University of Science and Technology*	Effect of Cooking Characteristics on Vitamin Content in Legumes
Hale Yıldız Yeter Çilesiz	*Sivas University of Science and Technology*	Evaluation of *Melissa officinalis* L. Plant in Terms of Antioxidant Properties

28.11.2023
TUESDAY / 13.30-15.30

Uşak University, Recep Tayyip Erdoğan Congress and Culture Center
Hall 3
MODERATOR: Prof. Dr. Sezai ERCİŞLİ

AUTHOR	AFFILITION	ABSTRACT TITLE
Osman Yüksel Bekir Saka	*Uşak University*	Determination of Feed Values of Some Field Crop Wastes Used As Roughage Source
Burcu Begüm Kenanoğlu Havva Dinler Derya Maral Gül Rengin Eltem Cennet Büşra Aydın	*Uşak University*	Effect of Biopriming and Hidropriming Treatments on Tomato Seed Viability
Burcu Begüm Kenanoğlu Özlem Özmutlu Nazife Şakin	*Uşak University*	Effect of Allelochemicals on Germination and Emergence Quality of Dill and Celery Seeds
Müge Şahin Salih Gökkür Deniz Aksoy	*Aegean Agricultural Research Institute*	Preliminary Study on Determining The Self-Fertility Status of Some Japanese Plum Variety Candidates
Erdi Can Aytar Yasemin Özdener Kömpe	*Uşak University*	Seed and Protocorm Morphology of Serapias orientalis, and Aminoacid Analysis of Aeroear Parts
Alper Durmaz Erdi Can Aytar	*Uşak University*	The Use of Halophytic Plants in Saline Agricultural Areas and Their İmpact on Bioremediation in Such Environments.
Namuk Ergün Ismail Sayim Sinan Aydoğan Melih Bilir Gülden Çetin Özkan Emre Karahan	*Directorate of Field Crops Central Research Institute*	Grain Yield and Stability of Feed Barley (*Hordeum vulgare* L.) Genotypes Under Dry Conditions of Central Anatolia
Alper Durmaz Erdi Can Aytar	*Artvin Çoruh University*	Aristolochia bodamae Plant's Antioxidant Activity and Bioactive Compound Content

28.11.2023

TUESDAY / 16.00-18.00

Uşak University, Recep Tayyip Erdoğan Congress and Culture Center

Hall 1

MODERATOR: Assist. Prof. Dr. Rahime CENGİZ

AUTHOR	AFFILITION	ABSTRACT TITLE
Kübra Özmen Kazım Mavi	*Hatay Mustafa Kemal University*	The Use of Nanomaterials in Vegetable Seed Treatments As An Innovative Approach in Sustainable Agriculture
Kübra Özmen Fulya Uzunoğlu Kazım Mavi	*Hatay Mustafa Kemal University*	Effects of Different Seed Treatments on Emergence Characteristics and Seedling Quality in *Solanum aethiopicum*
Hasibe Yildiz Ayşe Vildan Pepe Fatma Yildirim Bekir Şan	*Uşak University*	The Effect of Bap and Ga3 on in Vitro Seed Germination of White-Fleshed and Red-Fleshed Pitaya (*Hylocereus* spp.) Species
Zehra Yıldız Zakire Yücel Elanur Dursun Rahime Cengiz	*Sakarya Uygulamalı Bilimler University*	Determination of The Effect of Source Material on The Success of Obtaining Haploid in The in Vivo Maternal Haploid Technique
Müjgan Güney Servet Aras Murat Güney	*Yozgat Bozok University*	Potential of Jojoba in Agriculture: Addressing Cultivation Challenges and Turkey's Prospects
Müjgan Güney Gökçe Aydoner Çoban Hakan Keles	*Yozgat Bozok University*	Phytochemical Composition, Medicinal Properties, and Molecular Advances in Caper Bush
Hasibe Yildiz Kerem Mertoğlu	*Uşak University*	Evaluation Of Fruit Characteristics Together
Ilknur Eskimez Mehmet Polat	*Isparta Uygulamalı Bilimler University*	Volatile Oils in Ornamental Bulbous Plants and The Relationship Between Scent and Aesthetics
Ilknur Eskimez Mehmet Polat Abdullah Kankaya Kerem Mertoğlu	*Isparta Uygulamalı Bilimler University*	Adaptation of Stanley Plum Variety To The Ecological Conditions of Isparta

28.11.2023

TUESDAY / 16.00-18.00

Uşak University, Recep Tayyip Erdoğan Congress and Culture Center

Hall 2

MODERATOR: Assoc. Prof. Dr. Mehmet ÖTEN

AUTHOR	AFFILITION	ABSTRACT TITLE
Murat Güney Servet Aras Müjgan Güney	*Yozgat Bozok University*	Almond Genome Sequencing – Past, Present, And Future
Murat Güney Hakan Keles Gökçe Aydoner Çoban	*Yozgat Bozok University*	Transcriptome and Genomic Analysis of Apple (*Malus* × *domestica*)
Servet Aras Müjgan Güney Gökçe Aydoner Çoban	*Yozgat Bozok University*	Use of Nitric Oxide in Horticulture
Servet Aras Müjgan Güney Hakan Keles	*Yozgat Bozok University*	Effects of Flood Stress on Fruit Species
Hossein Kazemı Mehmet Uğur Yıldırım Tuba Arjumend Mohammad Hadi Fatemi	*Uşak University*	A Framework for Assessment of biological Nitrogen Fixation (BNF) Services by Rhizobium in Agroecosystems (BNF-MEA Framework)
Ferzat Turan Gamze Nida Güneş Zeynep Duran Bilal Karakaya	*Sakarya Uygulamalı Bilimler University*	Effect Of Liquid Organic Fertilizer Used in Different Developmental Periods on Yield and Yield Parameters of Sunflower (*Helianthus annuus* L.)
Mehmet Öten Mertcan Koç Alperen Gümüş	*Sakarya Uygulamalı Bilimler University*	The Effects of Different Mixture Ratios Of Common Vetch + Triticale Grown in Sakarya Ecological Conditions on Green Forage Yield and Silage Quality
Mehmet Öten Melike Köse	*Sakarya Uygulamalı Bilimler University*	Determination The Effects of Different Additives Added To Vetch-Triticale Silage Mixture on Silage Quality
Abdulrezzak Memon	*Uşak University*	Role of Small GTP-Binding Proteins in Root Nodule Formation in The Model Legume *Medicago truncatula*
Enes Irat Merve Yeke Nuriye Merakli Abdulrezzak Memon	*Uşak University*	Evaluation of the potential use of duckweed for cleaning up leather industry wastewater pollution

28.11.2023
TUESDAY / 16.00-18.00

Uşak University, Recep Tayyip Erdoğan Congress and Culture Center
Hall 3
MODERATOR: Assoc. Prof. Dr. Melekber SÜLÜŞOĞLU DURUL

AUTHOR	AFFILITION	ABSTRACT TITLE
Ebru Akyüz Çağdaş Okan Sarıtoprak Mehmet Polat	*Has Biotech Research Development Agriculture Industry and Trade A.Ş*	Effects of Plant Growth Regulators And Nutrient Medium on The Micropropagation of Garnem Rootstock
Gökçe Aydöner Çoban Müjgan Güney Murat Güney	*Yozgat Bozok University*	Currently Soilless Culture Systems in Vegetable Production
Gökçe Aydöner Çoban Servet Aras Hakan Keles	*Yozgat Bozok University*	The Effects of Lime Stress in Vegetables
Birsen Zeybek Zeliha Gökbayrak	*Tekirdağ Viticulture Research Institute*	Effects Of Plant Growth Regulators On Pollen Germination And Pollen Tube Development In Plum And Pears
Şehnaz Mertoğlu Cansu Karaca Gürsel Karaca	*Isparta Uygulamalı Bilimler University*	Use of Fungi in Sustainable Product Design
Melekber Sülüşoğlu Durul Mehmet Polat Hülya Ünver	*Kocaeli University*	The Importance of Mahaleb Cherry And Research on it
Birsen Geçioğlu Erincik	*Aydın Adnan Menderes University*	Importance of Vegetative Compatibility Groups of Cryphonectria Parasitica in Biological Control of Chestnut Blight
Nuriye Merakli Hüseyin Altundağ Abdulrezzak Memon	*Uşak University*	Chromium Tolerance, Bioaccumulation, and Localization in Different Varieties of *Brassica juncea*

28.11.2023
TUESDAY / 16.00-18.00

Uşak University, Recep Tayyip Erdoğan Congress and Culture Center
Hall 4
MODERATOR: Assoc. Prof. Dr. Ayşen Melda ÇOLAK

AUTHOR	AFFILITION	ABSTRACT TITLE
Fatma Alan Ayşen Melda Çolak	*Uşak University*	Pitaya (*Hylocereus* spp.) Importance of in Human Health
Fatma Alan Ayşen Melda Çolak	*Uşak University*	Pitaya (*Hylocereus* spp.) Flower Structure and Fertilization Biology
Kerem Mertoğlu	*Uşak University*	Aminoacids Variation According To Different Plant Organs in Cherry Cv. Starks Gold
Derya Öğüt Yavuz	*Uşak University*	The Effectiveness of Herbicides Oxyfluorfen and Pendimethalin in Controlling Redroot Pigweed (*Amaranthus retroflexus* L.) and Lamb's Quarters (*Chenopodium album* L.)
Ali Osman Lökçü Derya Öğüt Yavuz	*Uşak University*	Effects of Some Herbicides on Weed Species in Different Phenological Periods of Wheat
Havva Dinler Ercüment Osman Sarihan Mehmet Uğur Yildirim	*Uşak University*	Determination of The Vapor and Contact Effects of Sage (*Salvia Officinalis* L.) Oil Against Some Soil-Borne Pathogens of Strawberry in Vitro Conditions
Havva Dinler Derya Maral Gül Rengin Eltem	*Uşak University*	Antagonistic Effect of *Bacillus* Species Against *Fusarium* Wilt in Strawberry in Vitro Conditions
Kerem Mertoğlu	*Uşak University*	Hormone and Organic Acid Changes According To Different Plant Organs: An Example Of Cherry Cv. 0900 Ziraat
Ayşen Melda Çolak	*Uşak University*	Quince Wood Cuttings in Different Environments Rooting
Abdurrahman Özbek Aycan Özdemir Asuman Arslan Duru	*Uşak University*	The Effect of Urea Supplementation on Nutrient Contents and Some Fermentation Characteristics of Sugar Beet Leaves Silages
Sezai Ercişli	*Atatturk University*	Evaluation Of Fruit Genetic Resources
Sezai Ercişli	*Atatturk University*	Some Important Wild Edible Fruit Species Found In Flora Of Turkiye

28.11.2023

TUESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-1, HALL-1 / OTURUM-1, SALON-1

MODERATOR: Assoc. Prof. Dr. Bahar ATEŞ ÇAKIR

AUTHOR	AFFILITION	ABSTRACT TITLE
Cengiz Türkay Filiz Baysal Cenap Yilmaz	*Alata Horticultural Research Institute*	Breeding of Sari Ulak Olive Variety By Selection
Tahir Karaşahin	*Aksaray University*	Effect of Thyroid Hormones on Reproduction in Farm Animals
Tahir Karaşahin	*Aksaray University*	Poultry Availability and Evaluation of Turkey By Years
Aybike Bayraktar Ismet Boz	*Ondokuz Mayıs University*	Participation of Women in Household Decision-Making and Factors İnfluencing Their Choices: A Case Study Of Rural Communities in Samsun Province
Sedat Behrem Sabri Gül	*Aksaray University*	Some Environmental Factors Affecting The Medullated and Non-Medullated Fiber Diameter Characteristics in Central Anatolian Merino Sheep
Roza Yerezhepkyzy Aruzhan Zholmakhan Ayazhan Ibragim	*Kazakh National University*	Legal Support of Economic Methods of Environmental Law and Order Management in The Republic of Kazakhstan
T. I. Süleymanov S. I. Jafarova	*Baku City*	The Future of Marine Fuels in Azerbaijan: Aligning with IMO Climate Actions Through the Deployment of LNG, LPG, and Hydrogen
Maliha Gohar	*Kohat University of Science and Technology*	Classification of Second Order Ordinary Differential Equations Using Lambda Symmetries
Yusuf, Aisha Bilyaminu	*Hassan Usman Katsina Polytechnic*	Incidence of Diabetes Mellitus in Patients (25 Years Above) At Genegal Hospital Katsina State, Nigeria From January to June 2020
Iftikhar Yasin	*The University of Lahore*	Assessing Sustainable Growth: ICT and Natural Resource Rent Impact on Environmental Eminence in BRICS Nations

28.11.2023

TUESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923
SESSION-1, HALL-2 / OTURUM-1, SALON-2

MODERATOR: Asocc. Prof. Dr. Şefik Baran TARHAN

AUTHOR	AFFILITION	ABSTRACT TITLE
Aysun Altikat	*Iğdır University*	Advancements in Green Advanced Oxidation Processes
Erdal Zengin	*The Ministry of Agriculture and Forestry, Provincial Directory of Uşak*	A New Pest in Maize For Uşak (Türkiye): Spodoptera frugiperda (J. E. Smith, 1797) (Lepidoptera: Noctuidae)
Ruziye Karaman Cengiz Türkay	*Isparta University of Applied Sciences*	Determination of Changes in Sweet Corn Applied Different Nitrogen Doses During Storage
Funda Dökmen	*Kocaeli University*	Use of Polymers in Water Conservation in Agriculture
S. Can Cengiz Mustafa Okant M. Izzet Türkoğlu	*Harran University*	Determination of The Effect of Different Plant Density on Some Yield Values in Gap Pink Fodder Nut (*Pisum arvense* L.) Cultivar Improved As A Winter Intercrop
Pooja Rasal Gaurav Kasar	*JES's SND College of Pharmacy*	A Review on Models Used in Assessment of Neuropathic Pain
R.Thanya Suganthan C	*Vellore Institute of Technology*	Analysing The Effectiveness of Using Multimodal Tools and Materials in English Language Classroom: A Systematic Review
Nataliia Korbych Oksana Liubenko Olena Vedmedenko Sergiy Lavrenko	*Kherson State Agrarian and Economic University*	Productive Qualities of The Different Breeds Geese For The Direction of The Fatty Goose Liver Production
Olena Vedmedenko Nataliia Korbych Oksana Liubenko	*Kherson State Agrarian and Economic University*	Prospects of Native Mare's Milk Production Under The Conditions of Ukraine
Sergiy Lavrenko Maria Rizak Nataliia Lavrenko	*Kherson State Agrarian and Economic University*	Vegetable Pepper As A Technical Culture

28.11.2023

TUESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-1, HALL-3 / OTURUM-1, SALON-3

MODERATOR: Fatma KAYAÇETİN

AUTHOR	AFFILITION	ABSTRACT TITLE
Ersin Gülsoy Seda Can Başoğlu	*Iğdır University*	Pre-Selection of Rose Hip (*Rosa* spp.) Genotypes Growing Naturally in Iğdir
Fatma Kayaçetin	*Ankara University*	Correlation Among Germination And Seedling Growth Of Brassica Nigra L. Under Priming Applications
Fatma Kayaçetin Oğuzhan Aydin	*Ankara University*	Yield And Quality Of Black Mustard Lines Under Autumn Sowing Season In Ankara
Elif Yürümez Canpolat Şükrü Canpolat Cemil İşlek	*Niğde Ömer Halisdemir University*	The Biological Activities of *Hypericum Perforatum* L.
Bahadır Yilmaz Sedanur Yilmaz Aslıhan Çilingir Tütüncü Harun Özer	*Ondokuz Mayıs University*	Mikrobiyal Gübre Uygulamasinin Organik Maydanoz Yetiştiriciliğinde Verim ve Kaliteye Etkisi
Oksana Liubenko Nataliia Korbych	*Kherson State Agrarian and Economic University*	Importance of Iodine and Selenium in Poultry Feeding
Sergiy Lavrenko Andriy Serbinov	*Kherson State Agrarian and Economic University*	Technological Aspects of Growing Tomatoes With Drip Irrigation
Sergiy Lavrenko Yaroslav Smirnov	*Kherson State Agrarian and Economic University*	Prospects For Growing Soybeans in Ukraine
Sergiy Lavrenko Andriy Maksimov Nataliia Lavrenko	*Kherson State Agrarian and Economic University*	Cultivation of Plants in Vertical Farms By Hydroponic Method
Gusthyta Putri Nabila Naila Tamamil Asna Hendri Hermawan Adinugraha	*UIN K.H. Abdurrahman Wahid Pekalongan*	The Use of Paylatter in Describing Business According To Islamic View

28.11.2023

TUESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-1, HALL-4 / OTURUM-1, SALON-4

MODERATOR: Research Assistant Dr. Berker NACAK

AUTHOR	AFFILITION	ABSTRACT TITLE
Mehmet Altun Ustun Sahin	*Atatürk University*	Determination of CO_2 Emission From Soils With Sewage Sludge Application Under Different Irrigation Regimes Through Carbon Stock Changes
Hayriye Göknur Ağca Küçükaydin Göksel Tirpanci Sivri Ömer Öksüz	*Kırklareli University*	A New Approach To Sustainable Food Supply: Cellular Agriculture
Gülay Olcabey Ergin	*Niğde Ömer Halisdemir University*	An Eco-Friendly Approach To Control Insect Pests : Nanopesticides
Songül Yildiz Muharrem Özcan	*Recep Tayyip Erdoğan University*	Effects of Global Warming on Tea Farming
Özkan Sedat Karaman Fatma Karakaş Oğuz Ruziye Karaman	*Burdur Mehmet Akif Ersoy University*	Investigation of Alternative Forage and Silage Potential of Mung Bean
H.U. Muhammad E. Nwafor O.J. Ajayi Y. Muhammed	*Federal University of Technology*	Effects of Recommended Cocoyam Production Technologies on Output of Farmers in Enugu State, Nigeria
Valbona Cinaj	*Albanian University*	The Challenges of Implementing an e-Government ALBANIA System The case of the publication of sensitive data for Albanian citizens
Wajahat Ali Shakeel Javaid Mohammad Nabeel	*Albanian University*	A New Fermatean Fuzzy Programming Approach To Optimize The Mathematical Muti-Objective Multi-Level Solid Transportation Problem
Arunkumar R V. Kalirajan	*Tamil Nadu Agricultural University*	Turmeric Farmers and Their Extension Agency Contact Level in Tamil Nadu
Pankaj Tagad	*Kolpe Institute of Pharmacy*	An In-vitro evaluation of the anthelmintic activity of Aegle Marmelos on the Pheritima Posthuma model

28.11.2023

TUESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-1, HALL-5 / OTURUM-1, SALON-5

MODERATOR: Assoc. Prof. Dr. Erol SAKALLI

AUTHOR	AFFILITION	ABSTRACT TITLE
Şule Erkovan Hanife Afacan	*Eskişehir Osmangazi University*	Adaptation of some so rghum Genotypes To Eskisehir Ecological Condition
Hasan Basri Karayel	*Kütahya Dumlupınar University*	The Effect of Natural Boron Mineral Use on Essential Oil Content and Components of Fennel (*Foeniculum vulgare* Mill.)
Ertan Yildirim Melek Ekinci Metin Turan Selda Ors	*Atatürk University*	Mitigating Effect of Chrysin on Salt Stress in Cucumber (*Cucumis sativus* L.) Seedling
Melek Ekinci Ertan Yildirim Metin Turan Selda Ors	*Atatürk University*	Investigation of The Effects of Humic and Fulvic Acid on Plant Growth in Cauliflower Seedlings Grown in Herbicide-Contaminated Soil
Abdoul Nasser Aboubacar Dan Badaou Üstün Şahin	*Atatürk University*	Determination of CO2 Emission from Soil with Farm Manure Application under Different Irrigation Regimes through Carbon Stock Changes
Laila AFIA Rachid SALGHI Abdelileh MABROUK	*Ibnou Zohr University*	Enhancement of Three Curcumin Derivatives As Ecofriendlies Corrosion Inhibitors For Carbon Steel in Hcl Solution
Laila AFIA Rachid SALGHI	*Ibnou Zohr University*	Valuation of Argan Leaves Extract As Green Corrosion İnhibitor For Steel in 1m Hcl
Dipanwita Ghosh	*Maulana Abul Kalam Azad University of Technology*	Machine Learning for Early Glaucoma Detection: A Comparative Analysis of Predictive Models
V.Sandhiya R.Devi Raman R.Srinivasan	*Bharath Institute Of Higher Education And Research*	Recycling Waste Polythene Materials To Useful Products Via Pyrolysis.
Puniparthi Sunitha Elavarasi.E	*Bharath institute of higher education and research*	Human Prohibits of *Bacillus* Strains: Characterization, Safety, Microbiome, And Probiotic Carrier

28.11.2023

TUESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-1 / OTURUM-2, SALON-1

MODERATOR: Dr. Hüseyin Berk TÜRKER

AUTHOR	AFFILITION	ABSTRACT TITLE
Sefa Altikat	*Iğdır University*	Industrial Pellet Fuel Production: Conversion From Raw Materials To Energy
Elif Yürümez Canpolat Şükrü Canpolat	*Niğde Ömer Halisdemir University*	Antifungal Activity of Zinc Oxide (Zno) Nanoparticles
Gamze Kaya	*The Ministry of Agriculture and Forestry, Provincial Directory of Eskişehir*	The Effect of Different Periods of Waterlogging on Morphological and Some Physiological Characteristics of Melon
Eren Özden	*Iğdır University*	Determination of Some Morphological and Physiological Characteristics of Iğdır Şalak Melon
Eren Özden Mustafa Akbaba	*Iğdır University*	Determination of Some Morphological, Viability and Physiological Characteristics of Iğdır Super Tomato Local Genotype Seeds
Fatima Rehman Shamsa Rana Ahmed Faiz Akbar	*Government College University*	Effect of nitric oxide and hydrogen peroxide on growth, physiological and biochemical attributes of wheat (Triticum aestivum L.) plant under cadmium stress
I .Zakariya'u	*Sokoto state university*	Electrical and Optical Properties of Poly Methyl Methacrylate Incorporated With Salt For Edlc Application
Pooja.K Elavarasi.E	*Bharath Institute Of Higher Education And Research*	Agriculture and Food security in the agricultural production
Ajesh Chauhan	*IITM College of Pharmacy*	Role Of Ai in Pharma

28.11.2023

TUESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-2 / OTURUM-2, SALON-2

MODERATOR: Prof. Dr. Deniz UÇAR

AUTHOR	AFFILITION	ABSTRACT TITLE
Sema Leblebici Murat Karaer Erdem Gülümser	*Bilecik Şeyh Edebali University*	Allelopatic Effect of Forage Turnip (Brassica rapa L.) on Buckwheat (*Fagopyrum esculentum* Moench)
Yunus Emre Uslu Serap Açıkgöz	*Aydın Adnan Menderes University*	Effect of Suppression of Mechanical Transmission in Plant Viruses
Murat Olgun Muhammed Ibrahim Sayim	*Eskişehir Osmangazi University*	Assessment of Yield and Quality Traits of Advanced Barley (*Hordeum vulgare* L.) Breeding Materials in The Rainfed Conditions of The Central Anatolia Region
Sarra Zouaoui Rachid Rouabhi	*Bioactive Molecules and Applications Laboratory*	Imidacloprid's Impact on Neurotoxicity: Illuminating The Consequences of Pesticides on Biodiversity and Health
R. Srilatha Podila Padmaja	*P.V.P. Siddhartha Institute of Technology*	Voice Emotion and Gender Recognition
Anita Yasin	*Universiti Teknologi MARA*	Prevalence of Overweight in Culinary Arts Students of Vocational College A
Sushovan Khatua Debashis De	*Maulana Abul Kalam Azad University of Technology*	Optimizing Traffic Routing For Minimized Emissions in Vehicular Networks
Kannadasan Karuppaiah Ezhilvanan Mani Vinoth Raman	*Melmaruvathur Adhiparasakthi Institute of Medical Sciences and Research*	Statistical Models For Evaluate To Efficacy of Chronic Kidney Disease Control Measure

28.11.2023

TUESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-3 / OTURUM-2, SALON-3

MODERATOR: Assist. Prof. Dr. Tuba ARJUMEND

AUTHOR	AFFILITION	ABSTRACT TITLE
Berna Efe Sabahaddin Ünal Hacer Mintaş Erdal Eren Yeler	*Field Crops Central Research Institute*	Observation on Morphological and Agronomic Traits of Sheep Fescue Genotypes (Festuca ovina) in Semi-Arid Conditions
Havva Eylem Polat Ahmet Cengiz Yildirim	*Ankara University*	The Role of Geographical Indication Products in Rural Development: The Case of Kalecik District
Zeynep Nur Karakuş Yasemin Çelebi Gülşah Çalişkan Koç	*Uşak University*	Pharmacological Effects of Mullberry Leaves on Human Health
Canan Kop Bozbay Miraç Mert Yildirim Nuri Can Karaoğlu Büşra Özdöngül	*Eskisehir Osmangazi University*	Growth Performance, Digestive System Development, Relative Meat And Organ Weights, Meat Quality And Some Blood Characteristics In Japanese Quails (Coturnix Coturnix Japonica) Fed Diets Containing Goldenseal (*Helichrysum Arenarium*) Essential Oil
Bahadır Yilmaz Sedanur Yilmaz Aslıhan Çilingir Tütüncü Harun Özer	*Ondokuz Mayıs University*	Effect of Microbial Fertilizer Application on Efficiency and Quality in Organic Parsley Growing
Gita Oktavia Rosita Muhammad Usman Ariffianto Kholimah Agung Muhammad Taufiq Abadi	*State Islamic University K.H. Abdurrahman*	History of Classical Economic Thought
Elda Purwanti Khulaelatudil Azzah Lutfiyanti	*State Islamic University K.H*	Economic Thought of Classical Muslim Scientists (Zaid Bin Ali, Abu Hanifah, Abu Yusuf,Abu Ubaid)
Ihor Ponomarenko Daria Pelypenko	*State University of Trade and Economics*	Marketing Promotion of Rural Companies in The Digital Environment
Ihor Ponomarenko Sofiia Freidun	*State University of Trade and Economics*	Functioning of Rural Companies in The Electronic Trade Market
Idoko Alexander Parker Joshua Elija Njoku Obioma Uzoma	*Caritas University*	Docking Assessment of Flavonoids on Adiponectin Protein and Fat Mass and Obesity Associated (FTO) Protein as Anti-Obesity Agents: An İn-Silico Investigation

28.11.2023

TUESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923
SESSION-2, HALL-4 / OTURUM-2, SALON-4

MODERATOR: Research Assistant Rabia GÜLİSTAN OKUTAN

AUTHOR	AFFILITION	ABSTRACT TITLE
Murat Karaer Erdem Gülümser Sema Leblebici	*Bilecik Şeyh Edebali University*	Relationship Between Bilecik Province Drought Analysis and Wheat Yield Using Standardized Precipitation Evapotranspiration Index
Özge Karadeniz Elif Demiral	*Kayseri University*	Determination of Physicochemical and Antioxidant Properties of Ice Cream With Coconut and Oat Milk
Selma Kösa Sibel Mansuroğlu Nihansu Karaçöne	*Akdeniz University*	Determination of The Effect of Two Different Growth Period on Plant Growth Characteristics in Silene Compacta
Lale Aksoy Esin Kılıç	*Eskişehir Osmangazi University*	Evaluation of Strawberry Production in Sason and its Effects on Local Development
Fatih Hancı	*Erciyes University*	An Outlook of The World Jerusalem Artichoke Market
Mustafa Çirka	*Iğdır University*	Defense Mechanisms of Plants Against Drought
Halid Sheriff Adegbusi	*Nigeria Police Academy Wudil*	Evaluation of Nutritional Quality of Nigerian Soybean (*Glycine Max*)
Halid Sheriff Adegbusi	*Nigeria Police Academy Wudil*	Improving Complementary Feeding in Nigeria: A Review of Crayfish's Nutritive and Health Values
Tutan Ghosh	*Maulana Abul Kalam Azad University of Technology*	Federated Learning-Based Intrusion Detection System For IOT
Lakshmi Devi.B.	*Bharath institute of higher education and research*	Long Non Coding Rnas (Lncrnas) in Neurodegenerative Diseases-Diagnosis and Therapeutics

28.11.2023

TUESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-5 / OTURUM-2, SALON-5

MODERATOR: Assoc. Prof. Dr. Mehmet Uğur YILDIRIM

AUTHOR	AFFILITION	ABSTRACT TITLE
Nebahat Aytuna Çerçi Meryem Burcu Külahci Betül Aydin Ebru Beyzi Abdülkadir Arslan Sevinç Demir	*Kırıkkale University*	Determination of The Biological Properties of *Aronia Melanocarpa* (Michx.) Elliott Fruit and Leaf Extracts
Sultan Karahan Azize Atik	*Çiftçiler Oil Industry and Trade LTD.*	Lupin Flour Uses in The Food Industry
Sevdiye Yorganci Serap Açikgöz	*Aydın Adnan Menderes University*	The Relationship Between Vector Transmission of Plant Viruses and Genome Organization
Canan Kop Bozbay Miraç Mert Yildirim Gökçe Bilge Ipek	*Eskisehir Osmangazi University*	Evaluation of Some Aromatic Plant Pulps As Silage
Batuhan Türkbay Safiye Pınar Tunali	*Aydın Adnan Menderes University*	Pulse Drip Irrigation Applications in Combating Drought
Ristina Siti Sundari Farhan Ahmad D Yadi Heryadi Budhi Wahyu Fitriadi Lucyana Trimo Iwan Setiawan	*University of Perjuangan Tasikmalaya*	Added Value of Coconut Sap to be Coconut Sugar
Clement Okechukwu Attamah Joy Chinenye Udenwagu	*University of Nigeria*	Assessment of Farmers' Access and Use of Agricultural Credit Facilities in Enugu West Senatorial Zone of Enugu State, Nigeria
El Houssaine Benaddi Rachid Laamari	*Analytical and molecular chemistry laboratory*	A New Biomass-Based Activated Carbon For The Removal of Cationic Dyes From The Aqueous Environments: Characterization, Kinetics, Isotherm, Thermodynamics
Wilson, Emmanuel Okon Idiong, Kokoette E	*Akwa Ibom State Polytechnic*	Electrochemical Potential-Based Diagnostics of Steel Rebar Corrosion in Concrete
Kaysa Aulia Venanda	*UIN K.H. Abdurrahman Wahid Pekalongan*	Potensi Perkembangan Perekonomian Kota Pemalang

28.11.2023

TUESDAY / 15.00-17.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-3, HALL-1 / OTURUM-3, SALON-1

MODERATOR: Lecturer Volkan DENERİ

AUTHOR	AFFILITION	ABSTRACT TITLE
Sevim Atmaca Ali Endes Yusuf Yanar	*Yozgat Bozok University*	Important Soil-Borne Fungal Diseases That Cause Phytopathological Damage in Lentil Plants
Sevim Atmaca Ali Endes Yusuf Yanar	*Yozgat Bozok University*	Foliar Fungal Diseases That Cause Phytopathological Damage in Lentil Plants
Ali Endes Sevim Atmaca Güngör Yilmaz	*Yozgat Bozok University*	Significant Fungal Pathogens Impacting The Economic Viability of Hemp Cultivation
Ali Kilinç Rukiye Zengin Nurhan Keskin	*GAP International Agricultural Research Training Center*	Berry Quality Characteristics of Some Native Grape Varieties Of Sivrice (Elazığ) Ecology
Ali Kilinç Nurhan Keskin Birhan Kunter	*GAP International Agricultural Research Training Center*	Total Phenolic Compound Content and Antioxidant Activity of Some Grape Varieties Grown in Battalgazi (Malatya) Ecology At Maturity
Abdulkarim D. Kurfi Sada Ibrahim Kabir M. Galadanchi Muhammad M. Rumah	*Umaru Musa Yar'adua University Katsina*	Study of Mechanical Properties of Particle Filled Waste Bast Fiber and Epoxy Resin Composite
Malihe Jahani Sedighe Jahani	*Shandiz Institute of Higher Education*	A Review of The Role of Phenolic Compounds in Plants Under Environmental Stresses
Gbenga J. Olatunji, Funmilayo G. Adebiyi Olufemi A. Adebiyi Oyebiodun G. Longe	*University of Ibadan*	The effect of graded level of dietary supplementation of citric acid on performance and serum lipids of broiler chickens
Umaru Mohamed Gassama	*Njala University*	The Impact of Village Saving Loan Association on Small Holder Farmers in Taiama, Kori Chiefdom, Moyamba District
Umar Bello Ahmed Salisu Aliyu D. Mohammed	*Umaru Musa Yar'adua University*	Improvement of Mechanical Properties of Polymeric Wastes Composites Using Charcoal Produced From Doum Palm (*Hyphane Thebaica* L.) Fruit As Reinforcement

28.11.2023

TUESDAY / 15.00-17.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923
SESSION-3, HALL-2 / OTURUM-3, SALON-2

MODERATOR: Assist. Prof. Dr. Tuba ARJUMEND

AUTHOR	AFFILITION	ABSTRACT TITLE
Gülden Çetin Özkan Meryem Sağkol Hümeyra Yaman Ersin Akşor Oğuzhan Aydin	*Directorate of Field Crops Central Research Institute*	Production of Haploid Plants From Hybrid Combinations of Different Safflower (*Carthamus Tinctorius* L.) Genotypes By Anther Culture Method
Gülden Çetin Özkan Yusuf Coşkun Kutay Yilmaz Hümeyra Yaman	*Directorate of Field Crops Central Research Institute*	Using of Speed Breeding Technique To Develop New Flax (*Linum Usitatissimum* L.) Genotypes
Ali Endes Sevim Atmaca	*Yozgat Bozok University*	Potential Threat on Chickpea Production Areas: Anthracnose (Ascochyta rabiei) Disease
Sibel Boysan Canal Hilal Yilmaz	*Van Yuzuncu Yil University*	Effect of Selenium Applications on Micro Element Content in Lupinus (*Lupinus Albus* L) and Soil Under Cadmium Stress Conditions
Hilal Yilmaz Sibel Boysan Canal	*Van Yuzuncu Yil University*	The Role of Iron in Drought Tolerance
Pratishtha Thakur Vinod Kumar	*Sushant University*	Nutrition & Dietetics
John Bamidele Isaac Adekunle Olufemi Ade Adegorite Solomon O. Olatunde Emmanuel S.	*College of Science*	Studies on the Performance of organic and Inorganic Fertilizer on the Growth and Yield of Cucumber (*Cucumis sativus*)
Orhena, Elizabeth Nguemo Charles-Odili, Veronica Nnamaka Ekwueme, Chika Maureen Ezoem, Uche Blessing	*Federal College of Education*	Perception of Business Education Students on Effectiveness of Siwes Administration in Federal Colleges of Education in The South-South
Besnik Hajdari	*University "Isa Boletini" Mitrovica*	The Impact of Human Resource Management on The Development of Innovative Businesses

28.11.2023

TUESDAY / 15.00-17.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-3, HALL-3 / OTURUM-3, SALON-3

MODERATOR: Research Assistant Erdi Can AYTAR

AUTHOR	AFFILITION	ABSTRACT TITLE
Ismail Demir	*Kırşehir Ahi Evran University*	Rısks and Trends in World Sugar Beet Farmıng
Ismail Demir	*Kırşehir Ahi Evran University*	Changes and Trends in World Potatoes Agrıculture
Hatice Ulusoy Hüseyin Peker	*Artvin Çoruh University*	Use of Various Natural Oils in Wood Material Protection and Their Effects of Wood Materials on Some Mechanical Properties
Hatice Ulusoy Hüseyin Peker	*Artvin Çoruh University*	Use of Immortal Plant Extract in Wood Material and Its Effects on Thermogravimetric Analysis (Tga)
Şeyda Yayla M. Mesud Hürkul	*Ankara University*	Light Microscopy Analysis of Some Important Anatomical Characters of Paronychia Angorensis
Şeyda Yayla M. Mesud Hürkul	*Ankara University*	Examınatıon Of Some Anatomıcal Features of Endemıc Lycıum Anatolıcum (Solanaceae)
Al -Musbahu Abdulrahim Abdulyekeen Tunde Adebisi Jamiu Garba Sikirulai Abolaji Akande	*Kkyungpook National University*	Optimizing Crop Selection and Allocation for Maximum Yield: A QUBO Approach
Saghouri El Idrissi Imane Kettani Rajae Khalfi Chemsdoha Ferrahi Moha El Fechtali Mohamed Ziri Rabea Brhadda Najiba	*National Institute of Agronomic Research (INRA)*	Effect of Environment and Genotype on Durum Wheat : Responses of Genotypes, Yield, and Quality Parameters
Ajagbe, S.W. Yekinni, L.O., Babatunde, S.I. Bakare, M.T. "	*Federal College of Education*	Attitude, Motivation and Academic Performance of High Achieving Junior Secondary School Students in Social Studies in Oyo East Local Government, Nigeria

28.11.2023

TUESDAY / 15.00-17.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-3, HALL-4 / OTURUM-3, SALON-4

MODERATOR: Assistant. Prof. Dr. Hülya ELMALI GÜLBAŞ

AUTHOR	AFFILITION	ABSTRACT TITLE
Buğra Güvercin Faruk Akyazi	*Ordu University*	Fauna of Plant Parasitic Nematodes in World Hazelnut Soils
Hakan Keles Murat Güney Gökçe Aydöner Çoban	*Yozgat Bozok University*	Summary of Walnut Cultivation in Yozgat 2018-2023
Hakan Keles Servet Aras Müjgan Güney	*Yozgat Bozok University*	Growing Potential of Jujube (*Ziziphus Jujuba* Mill.) Plant Under Yozgat Conditions
Fatma Akyüz Selçuk Gülten	*Uşak University*	Agricultural (Food) Supply Security in An Environment of Increasing Global Risk
Serhat Yıldız	*Van Yüzüncü Yıl University*	Alternative Forage Plant in Animal Nutrition; Teff (Eragrostis tef [Zucc.] Trotter)
Hülya Elmali Gülbaş	*Uşak University*	The Potential Chemosensor Fluorescent Compounds in order to Determination Of Heavy Metals contamination in Agricultural Irrigation Water
Yekinni, L.O., Kareem, K. K., Abdulrahmon, M. O., Bakare, A. O.	*Federal College of Education*	Effectiveness of Modelling on The Verbal and Arithmetic Skills of Children With Intellectual Disability in Akure South Local Govenrment of Ondo State, Nigeria
Aicha El Oualkadi Ahmed Lamarti Mohammed Mouhib Ahlam Hamim	*Nuclear Technique and Quality Research Unit*	Gamma Irradiation Effects on Fortuna Strawberry Cultivar: A Comprehensive Study of Growth, Morphology, and Genetic Implications
Nugraha Edhi Suyatma Rani Yunia Putri Fahim Muchammad Taqi Subarna	*IPB University*	Application of Nanocoating Made From Chitosan and Zno Nanoparticles To Extend The Shelf Life of Meatball
Ukpabi-Ugo, Jacinta Chigozie Anosike, Chioma Assumpta	*Michael Okpara University of Agriculture*	GCMS Profiling and In Silico Investigation of Bioactive Compounds of Hexane Extract of Sesamum Indicum Seeds to identify fertility agent: Potent Inhibitors of Angiotensin Converting Enzymes and Phosphodiesterase 1A Receptors
Pratishtha Thakur Vinod Kumar	*Sushant University*	Diabetes Mellitus: Pandemic in India

28.11.2023

TUESDAY / 15.00-17.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-3, HALL-5 / OTURUM-3, SALON-5

MODERATOR: Assist. Prof. Dr. Barış KAKİ

AUTHOR	AFFILITION	ABSTRACT TITLE
Mehmet Nur Çiftsüren Suna Akkol	*Van Yüzüncü Yıl University*	Determination of The Relationship Between Egg Production in Geese and Some Climate Factors
Mehmet Nur Çiftsüren Suna Akkol	*Van Yüzüncü Yıl University*	Determination of Relationships Between Live Weight and Some Morphological Characteristics in Norduz Sheep Using Path Analysis
Nizamettin Erbaş	*Yozgat Bozok University*	Investigation of Investments in Fixed Capital in Terms of General and Rural Employment: Yozgat Province Example
Barış Kaki	*Uşak University*	Examının The Effects of Some Clımate Characterıstıcs on Honey Productıon
Ilhan Özer Ilhan Senem Akkoç Nilgün Baysal	*Erciyes University*	The Effectiveness Of Herbal Extracts In The Fight Against Mastitis Disease And Cancer In Cattle
Suwantoko Ridhotul Hairi Ganung Nalendra Marthinus Hutabarat Thania Theresia Pangaribuan Erwin Tampubolon Satria Gumay Ilham Hapmi Yoga Putra	*University of Bengkulu*	"The Authority, Duties, and Functions of The National Human Rights Commission (Komnas HAM) in Upholding Human Rights in Indonesian"
Adeniyi B.M Kyenge B.A Adah C.A Ogungbemi K Samoh T.F	*Benue State University*	Toxicological Effects of *Heliotropium Indicum* Leaf Extracts on Albino Rat Tissues
Hilmi Dzaki Uswatun Khasanah Hilda Safitri M Farhan Ahnaf Muhammad Aris Syafi'i M. E. I	*State Islamic University K.H. Abdurrahman*	Economic Thought of Contemporary Muslim Scientists
Sanae Zriouel	*CADI AYYAD University*	Magnetic Nanoparticles for Biomedical applications
Katarina Stanojević Dragana Pavlović Jelena Matejić Aleksandra Milenković Ljiljana Stanojević	*University of Niš*	Waste Material of Wild Carrot (*Daucus carota* L.) Seeds As A Source of Natural Antiinflammatory Agents

29.11.2023

WEDNESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923
SESSION-1, HALL-1 / OTURUM-1, SALON-1

MODERATOR: Assist. Prof. Dr. Erten AKBEL

AUTHOR	AFFILITION	ABSTRACT TITLE
Osman Nezih Kenanoğlu Sevdan Yilmaz Mustafa Karga Soner Bilen	*Kastamonu University*	Safe Dose Range That Can Be Used in Nettle and Green Olive Tree Ethanolic Extracts in Artemia Enrichment
Nihan Akinci Kenanoğlu Şefika Nur Demir Sinem Öztürk Ahmet Ali Berber	*Çanakkale Onsekiz Mart University*	The Examination of The Eco-Genotoxic Effects of Pesticides on Daphnia Magna
Muhammet Ali Gündeşli	*Gaziantep University*	Essential Oil Extraction Methods: A Review
Muhammet Ali Gündeşli	*Gaziantep University*	The Phytochemical Composition of *Matricaria* L. (Chamomile): A Review
Hülya Ünver	*Düzce University*	Fruit culture in duzce province
Şakir Burak Bükücü Yakup Kadir Kömür	*Selcuk University*	Current Status of Greenhouse Fruit Growing in Türkiye
Onur Özbaş Kevser Tosun Duygu Arslan Hakan Aktaş	*Isparta Uygulamalı Bilimler University*	Effects of Old Gold Crimson (Ogc), Old Gold (Og), Hp1 And Hp2 Genes on Fruit Quality in Beef Segment Tomatoes
Aleksandra Milenković Katarina Stanojević Dragana Pavlović Jelena Matejić Jelena Stanojević Ljiljana Stanojević	*University of Niš*	Anti-inflammatory Activity of Wild Carrot (*Daucus Carota* L.) Seed Hydrolate
Iliya Ibrahim Sanda, B.Yahaya Isyaku, N.T Joseph, E.Kamba	*Kebbi State University of Science and Technology Aliero*	Studies On Some Heavy Metals and Using of Some Selected Phyco-Chemical Parameter in Zuru Dam, Kebbi Staste, Nigeria.
Ahmad Mohammad Zuru Abdullahi Abdu Muhammad Chika Mu'azu Musa Shuaibu Ishaka Muhammad	*The American University of Beirut*	Optimization of Biogas Production and Compression From Co-Digestion of Animal Dungs

29.11.2023

WEDNESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-1, HALL-2 / OTURUM-1, SALON-2

MODERATOR: Dr. Müge ŞAHİN

AUTHOR	AFFILITION	ABSTRACT TITLE
Iliya Ibrahim. Obaroh I.O. Isyaku, N.T.	*Kebbi State University of Science and Technology*	Assessment of Omega -3 Fatty Acid on Blood Pressure of Some Group of Students in Kebbi State University of Science and Technology, Aleiro
Chaima Mouffouk Soumia Mouffouk Hamada Haba Leila Hambaba	*University Of Batna-2*	Anti-inflammatory, antioxidant and antibacterial effects of the medicinal plant Scabiosa stellata L.
Olawale Oyemade Oyekanmi Olusoga Rasheed Otelaja	*School of Arts and Social Sciences*	Effects of Two Models Instructional Strategies on Students' Knowledge of Climate Change Concepts in Social Studies For Sustainable Development
Hafsah A. Klfout Abdullah M. Asiri Khalid A. Alamry Mahmoud A. Hussein	*King Abdulaziz University*	Synthesis of a new Polybenzoxazine-based Arylidene Moiety
Aboubakr Ben Hamou Salaheddine Farsad Ayoub Chaoui Amane Jada El Alem Noureddine	*Ibn Zohr University*	Nitric Acid Activation for Tuning the Pore Structure of Sewage Sludge Digestate Biochar Adsorbent: Implications on Methylene Blue Adsorption
Alexandrov V.S	*Kazan National Research Technical University*	Analysis of The Soil Composition of The Substance and Improvement of its Quality Using New Data Processing Approaches
Smart M.O Ibironke O.H Okumodi B.O Adeoye A.S Opawuyi M.M	*Federal College of Forestry*	Risk Assessment of Heavy Metals Concentration in Well Waters Around Metal Recycling Industries of Ikorodu South West Nigeria
Jothi Lakshmi R. Srinivasan	*Bharath Institute of Higher Education and Research*	An Over Review of Pharmacological Aspects of Diabetes Mellitus of Indian Medicinal Plants
Muninggar Nafisah Asnal Muna Shafiyya Zahra Wiwit Anisa Muhammad Sultan Mubarok Ade Gunawan	*State Islamic University K.H Abdurrahman*	Maisir in The Digital Age: An Analysis Of The Phenomenon Of Cryptocurrentcy Gambling And Its Implications
V.Sandhiya , R.Devi Raman R.Srinivasan,	*Bharath Institute Of Higher Education And Research*	Recycling Waste Polythene Materials To Useful Products Via Pyrolysis.

29.11.2023

WEDNESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923
SESSION-1, HALL-3 / OTURUM-1, SALON-3

MODERATOR: Assist. Prof. Dr. Pelin BARAN

AUTHOR	AFFILITION	ABSTRACT TITLE
Sheila Ojei Michael	*Admiralty University of Nigeria*	Iron deficiency anaemia in pregnancy: reexamining the nature and magnitude of this public heath concern
P. Sivaraj, K.S.Naveen C. M. Raguraman	*Annamalai University*	Implementation and testing of a solar declinatorwith water preheating
K.R.Padma K.R.Don	*Bharath University*	Wild Edible Mushrooms and Their Bioactive Compound Production Possess Antibacterial Activity
Kaila Zulfa Khoirurrizki Zakia Khoirunnisa Putri Karina Sabila M. Aris Safii M. Taufiq Abadi	*State Islamic University K.H. Abdurrahman*	Islamic Macro Concepts: Tw0 Sector Economy
Intan Athiyatul Maula Dian Nofitasari Karina Atha Nabila Muhammad Sultan Mubarok, M.E	*Fakultas Ekonomi Bisnis Dan Islam Uin K.H Abdurrahman Wahid*	The Role of Zakat in Islamic Economic Axiology
Syeda Sabika Zahra Naqvi Syed Mohsan Raza Shah	*University of Education*	Morpho-Anatomical modification in with aniaso mnifera (L.) Dunal from punjab, Pakistan: Insight into adaptation
Mita Lusari	*UIN K.H. Abdurrahman Wahid Pekalongan*	Stabilitas Perekonomian di Desa Mulyorejo
Kheloufi Abdenour Mansouri Lahouaria Mounia	*University of Batna*	Effect of Varied Temperatures on Seed Germination and Seedling Emergence in Cherimoya (Annona cherimola Mill.)
Iram Liaqat	*Govt. College University*	AI-2 QS signalling and inhibition in dental unit water line biofilm isolates

29.11.2023

WEDNESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923
SESSION-1, HALL-4 / OTURUM-1, SALON-4

MODERATOR: **Prof. Dr. Abdulrezzak MEMON**

AUTHOR	AFFILITION	ABSTRACT TITLE
Adeel Sattar Najam-Ul-Lail Muhammad Ovais Omer Mian Abdul Hafeez Muhammad Abubakr Shabbir Sammina Mahmood Muhammad Adil Rasheed Qamar Niaz	*University of Veterinary and Animal Sciences*	Biosynthesis and Characterization of Zinc oxide Nanoparticles using *Nigella sativa* against Coccidiosis in Commercial Poultry
Matej Babič	*Novo Meto*	3d Visibility Network Using For Analyzing Complexity of Microstructure of Robot Laser Hardened Specimens
R. Robert S. Meenakshi	*Vellore Institute of Technology*	An In-Depth Analysis of Multifarious Determinants Impacting English Speaking Proficiency Attainment among Rural Students in India
Chhaya Patel	*Sankalchand Patel University*	Impact of Fiscal Policy on India's Economic Growth
Vaibhav Kant Singh Kapil Kumar Nagwanshi	*Central University*	Proposing the State of the Art Data Mining Methodologies for performing Energy Audit and Management
Vaibhav Kant Singh Kapil Kumar Nagwanshi	*Central University*	Proposing the State of the Art methodologies for Conservation of Energies
Vaibhav Kant Singh Kapil Kumar Nagwanshi	*Central University*	Proposing the State of the Art Machine Learning Algorithms for the Notion of Clean and Sustainable Energy
Amina Ghaffar Sammina Mahmood Adeel Sattar	*University of Education*	Effect of Bacillus Cereus on Growth of Tomato (*Solanum Lycopersicum* L.) Irrigated With Textile Waste Water
Mubashir Mehdi	*MNS University of Agriculture Multan*	E-commerce and Consumer Buying Behavior for Agricultural products in developing countries: A case of Pakistan.
Talha Mashhood Muhammad Ibrahim Akbar Ali	*Government College University Faisalabad*	Potential anticancer and antioxidant lauric acid based hydrazones synthesis and computational slant towards the electronic properties

29.11.2023

WEDNESDAY / 10.00-12.00

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-1, HALL-5 / OTURUM-1, SALON-5

MODERATOR: Dr. Hüseyin Berk TÜRKER

AUTHOR	AFFILITION	ABSTRACT TITLE
Thanh-Dung Nguyen Huu-Nghia Duong Thi-Pha Nguyen Huu-Hiep Nguyen Huu-Thanh Nguyen	*Can Tho University*	Antibacterial Activities of Endophytic Bacteria Isolated From Adenosma Bracteosum Bonati Against Vibrio Parahaemolyticus
Angga Candra Winata Minkhatul Maula Ridwan Abu Djibran Aris Syafi'i	*State Islamic University K.H. Abdurrahman*	Economic Thought of Indonesian Muslim Scientists (Cokroaminoto, Syfrudin Prawiranegara, Moh. Hatta, H. Abdul Malik Karim Amrullah)
Laila Ameliya Muhammad Taufiq Abadi Muhammad Sultan Mubarok	*State Islamic University KH. Abdurrahmad*	Feasibility Study Analysis of Puring Fabric in Pakisputih Village Kedungwuni Subdistrict
Habil. Cristina Raluca Gh. Popescu	*Romania and The Bucharest University of Economic Studies*	Applying The Principles of Green Economy: Focusing on Circular Economy and Sustainable Development
Habil. Cristina Raluca Gh. Popescu Gheorghe N. Popescu	*Romania and The Bucharest University of Economic Studies*	Agriculture, Rural Development, and Land Reform: Recent Advances and Contributions To Environmental Sustainability
Nailun Naja Annayya Putri Sabilla Najwa Azima Muhammad Sultan Mubarok Ade Gunawan	*State Islamic University K.H Abdurrahman*	Human Nature, Ethics of Freedom and Socio-Economic Responsibility
Shinta Dewi Fitri Mukarromah	*Uin Kh Abdurrahman Wahid Pekalongan Indonesia*	Analysis of The Benefits of Purwaceng As A Medicinal Plant
Vidya Padmakumar	*Bangalore University*	Ecological Factors Shaping the Evolution and Behavior of Spoonbills: Insights for Conservation and Management
Ajayi, Olayemi T. Adeniji, Adebukola T.	*The Federal Polytechnic*	Lens and Culinary Brilliance: A Visual Journey into Food Photography's Influence on Gastronomy and Dietetics

29.11.2023

WEDNESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-1 / OTURUM-2, SALON-1

MODERATOR: Assist. Prof. Dr. Erten AKBEL

AUTHOR	AFFILITION	ABSTRACT TITLE
Fargham Ahmed Kashish Nadeem	*COMSATS University*	Joint Family System
Angel Sara Thangamuni Naga Harika Korrapati Hiba Fathimathul Harshiba Joysha Mohan Adiba Farhin Nitol Nabeel Muhammed Rafi	*Tbilisi State Medical University*	Beauty From Within: An Interplay Between Gut and Skin Health
Wafika Erininda Givan Mauzarima Fortuna Hendri Hermawan Adinugraha	*UIN K.H. Abdurrahman Wahid Pekalongan,*	Islamic Economics: Broadening Horizons Justice and Humanity
Sholadoye Qazeem Oyeniyi	*Nigeria Police Academy*	Heavy Metals Assessment of Farmland Soil in Bagega Mining Community
Stogova Mariia Gennadievna Kopylova Maria Dmitrievna	*The Kosygin State University of Russia*	Analysing The Range of School Uniforms For Overweight Primary School Children
Omar Benamari Amina Labhar Amin Salhi Mhamed Ahari Soufian El Barkany Hassan Amhamdi	*Abdelmalek Essaadi University*	Medicinal Plants Utilized in Conventional Diabetes Treatment in Rif Issaguen District, Northern Morocco.
Sobia Maqsood Saira Akhtar Sabrina Carvalho Zeyneb Kılıç	*University of Agriculture*	Women Role in Sustainable Rural Development in Pakistan: A Systematic Review
Vaishnavi G.Sapte Sushma V.Datir Archana R. Jagtap, Abhale D.M Vivekanand Kashid	*GSS's Dr. Kolpe Institute of Pharmacy*	Formulation and Evaluation of Antimicrobial cream from tribulas terrestris ethanolic extract
Zahra Rezapour	*Islamic Azad University*	Microplastics in Aquatic Food: A Hidden Threat to Human Health
Septya Wulan Savitri Lu'luil Karomah Suci Fitria Safira Faula Arima Muhammad Sultan Mubarok	*State Islamic University K.H. Abdurrahman Wahid*	The Importance of Understandıng Maqashıd Sharıa As The Maın Goal of Islamıc Law

29.11.2023

WEDNESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-2 / OTURUM-2, SALON-2

MODERATOR: Assoc. Prof. Dr. Bahar ATEŞ ÇAKIR

AUTHOR	AFFILITION	ABSTRACT TITLE
Deven S. Aspalani Samiksha B. Bachkar Abhishek M. Aher Sujata K. Sonawane Kuldipak R. Parkhe Vivekanand A. Kashid	*GSS's Dr. Kolpe Institute of Pharmacy*	Analytical Method Development and Validation of Thiazolidenediones Derivative by RP-HPLC
Anuja V. Pathade Kalyani P. Parkhe Nilesh T. Parkhe Varun V. Joshi Vivekanand A. Kashid	*GSS's Dr. Kolpe Institute of Pharmacy*	Review on: Neurocosmetics: The Skin-Brain Connection
Meshal Nasser Alnefaıe	*King Abdulaziz University*	"Harnessing Dextrin Derivatives for Targeted Drug Delivery with Nanofibers"
Aarti R. Sanap Prajakta A. Halnor Ratna D. Nikum Vivekananda A. Kashid	*GSS's Dr. Kolpe Institute of Pharmacy*	A Review on Mouth Dissolving Tablet
Shivam Rajput Rishabha Malviya Chetan Vashist Manju Kamra	*IITM College of Pharmacy*	The Application of Herbal Extract-Loaded Nano-formulations for Pest Control in Agriculture: A Review
Ahmed K. Usman Saidat O. Abdulrasheed Yusuf A. Hassan Echeche Onuh Yahaya Aliyu	*Ahmadu Bello University*	A Review of Economic Importance and Viability of Gold: A Case Study of Ilesha Schist Belt, Southwestern Nigeria
Mousami Das Binod Chandra Tripathy Omer Kisi	*Tripura University*	Characterization of Lacunary -Convergent Sequences in Credibility Space
Salek Lagdali Youssef Miyah Mohamed El-Habacha Guellaa Mahmoudy Mohammed Benjelloun Soulaiman Iaich Mohamed Zerbet Mohamed Chiban Fouad Sinan	*Ibnou Zohr University*	Optimal Preparation of Low-cost Phongitic Clay Microfiltration (MF) Membrane for Real-wastewater Treatment from Clothes Washing
Tamanna Rai Rishabha Malviya	*United College of Engineering and Research*	Anticancer Agent from Marine Source
Abdelileh Mabrouk Laila Afia	*University of Sfax*	Application of Pid Control in Greenhouse Temperature Regulation For Crop Growth Optimization

29.11.2023

WEDNESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-3 / OTURUM-2, SALON-3

MODERATOR: Assoc. Prof. Dr. Yaser AÇIKBAŞ

AUTHOR	AFFILITION	ABSTRACT TITLE
Hammouti Marwane El Haım Mohamed	*Abdelmalek Essaâdi University*	Anticipating Risk Mapping for Land Movements in Morocco's Middle Rif Region
Firas Alali Marwa Jawad Asaad Sh.	*University of Kerbala*	Identification of Passalurus Ambiguus in Domestic Rabbits (Oryctolagus cuniculus) in Karbala Province, Iraq.
Clement Okechukwu Attamah Jane Mbolle Chah	*University of Nigeria*	Impact of Rural Finance Institution Building Programme on Socio-Economic Life of Beneficiaries in Anambra State, Nigeria
Ajayi, Olayemi T. Busari, Waheed B.	*Lead City University*	Media Literacy and Agricultural Sustainability: Empowering Rural Communities through Communication Education
Sujata Sonawane	*savitribai phule Pune University*	Development of Validated Rp-Hplc Method For Quantitative Estimation of Pioglitazone Hcl in Bulk And Formulation By Using Quality By Design Approach
Luis Angel Kalpana Nanjareddy Miguel Lara Flores Manoj-Kumar Arthikala	*Luis Angel ENES Unidad-León, Universidad Nacional Autónoma de México*	Unveiling The Impact of Mad41 Overexpression on Mycorrhizal Symbiosis in Common Bean
Lakshmi Devi.B	*Bharath institute of higher education and research*	Long Non Coding Rnas (Lncrnas) in Neurodegenerative Diseases-Diagnosis and Therapeutics
A.Lourdu Terancia	*Bharath Institute of Higher Education and Research*	Micrornas – Biogenesis,Mechanism of Action and Role in Breast Cancer – Overview
Rama Andika Madya Agus Setiawan Dian Iswandaru Yulia Rahma Fitriana	*University of Lampung*	Bird Diversity and Feed Guild in The Way Kambas National Park Buffer Zone (Case Study of Labuhan Ratu Vii Village)
Sulaiman S.Y. Hafsat M.	*Umaru Musa Yar'adua University*	Biosorption of Ni2+ and Pb2+ from waste water using doum palm nut shell activated carbon

29.11.2023

WEDNESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-4 / OTURUM-2, SALON-4

MODERATOR: Asocc. Prof. Dr. Şefik Baran TARHAN

AUTHOR	AFFILITION	ABSTRACT TITLE
Siddhantika S. Jadhav Madhuri E.Kawade, Sakshi P. Deore, Snehal S. Kasar, Dipak D. Nalawade, Vivekanand A. Kashid	*GSS's Dr. Kolpe Institute of Pharmacy*	Review on: To study the Pharmacognostic and Pharmacological Activities of *Datura Stramonium* Linn
Vaishnavi D. Charmal Mayuri B. Gaikwad Vaibhav U. Lasure Vivekanand A. Kashid	*GSS's Dr. Kolpe Institute of Pharmacy*	Review on: Pharmacological Activity of *Selaginella Bryopteris* L.
Sundy Alagba Obazi Chiamaka Eucharia Ubachukwu Samuel Esheya Esheya	*University of Nigeria*	Knowledge of Farmers on Pesticide Safety Practices in Nsukka Local Government Area, Enugu State, Nigeria
Madhumithasekar Elavarasi E, R Srinivasan	*Bharath institute of higher education and research selaiyur*	The Future of Agriculture: Unleashing the potential of Digital Technologies
Abhijit Chatterjee Pintu Das Sanjeev Kumar Sinha	*Sarala Birla University*	Groundwater Quality Assessment in Rural Area of Ranchi: A Case Study
J.Jayadurka Elavarasi E, R Srinivasan	*bharath institute of higher education and research chennai*	New Agriculture Technology in Modern Farming - A Review
Snehal Kolpe	*Savitribai phule pune University*	Formulation and Evaluation of Anti Ageing Cream Using *Tinospora Cordifolia* (Giloy)
Nur Kholifah Dewi Nurul Alfianah Nabila Maydina Ma Farotul Jannah Muhammad Sultan Mubarok Muhammad Shulthoni	*State Islamic University K.H Abdurrahman*	Islamic Economic Principles and Their Implementation in Everyday Life
Malihe Jahani Sedighe Jahani	*Shandiz Institute of Higher Education*	A Review of The Importance of Hydroponic Cultivation in Plants
Muhammad Tahir Khan Madeeha Shahzad Lodhi Dong Qing Wei	*The University of Lahore*	Novel mutations in LdtB, PonA1, and PonA2 in pyrazinamide resistance clinical isolates of Mycobacterium tuberculosis

29.11.2023

WEDNESDAY / 12.30-14.30

Zoom Meeting ID: 871 0713 9228
Zoom Passcode: 282923

SESSION-2, HALL-5 / OTURUM-2, SALON-5

MODERATOR: İlknur ESKİMEZ

AUTHOR	AFFILITION	ABSTRACT TITLE
Samreen Gul Khan Naheed Akhtar Fozia Anjum Kiran Aftab	*GC University*	Synthesis and Antiseizure Potential of 1,3,4-Oxadiazole Based Derivatives
Beraich Abdessamad Anass Choukoud El Farissi Hammadi El Bachiri Ali Talhaoui Abdelmoneam	*Mohammed First University*	Comparison of the volatile compounds of essential oil extracted from Pistacia Lentiscus stems via hydrodistillation, and microwave and their effects on its antioxidant, and antifungal activity
Salisu Nuhu	*Hussaini Adamu Federal Polytechnic Kazaure*	Optimization of Quicklime Production from Eggshells Using Response Surface Methodology
Tayebi Amani Moumou Mohammedine Harnafi Hicham	*Mohammed Premier University*	Determination of Total Phenolic, Total Flavonoid Content, and Antioxidant Activity in Basil Extracts (*Ocimum basilicum* L).
Andrey Popatanasov	*Bulgarian Academy of Sciences*	Effects of hormopriming with cytokinins on the germination of Solanum lycopersicum cv. Ideal
Akande, Sikirulai Abolaji Ishaq, Maimuna Abdullahi Ishaq, Zainab Abdulrahim, Al-Musbahu Adedayo, Olufemi Adesola	*Federal University of Technology*	Exploring The Intuitive Impact of Optimization Techniques on The Control of Food Security and Agricultural Profit Margins
Kabiru Hamisu Abdullahi Taufeeq Lawal Ahmad Usman Shu'aib Zaharadeen Abdullahi Yusuf Hassan Ali	*Kano University of Science and Technology*	Structural Analysis of Wudil Cattle Market (Kara) Wudil Local Government of Kano State-Nigeria

SYMPOSIUM PHOTOS





SYMPOSIUM PHOTOS





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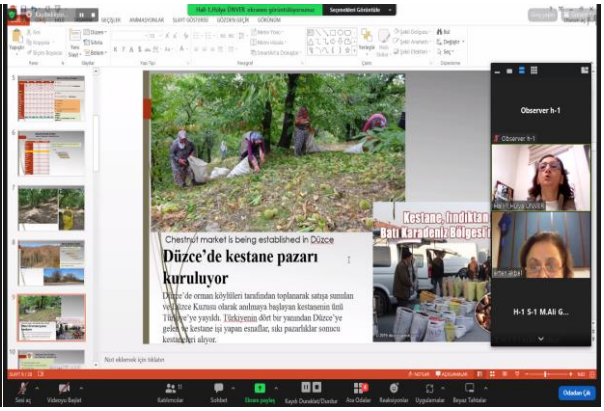




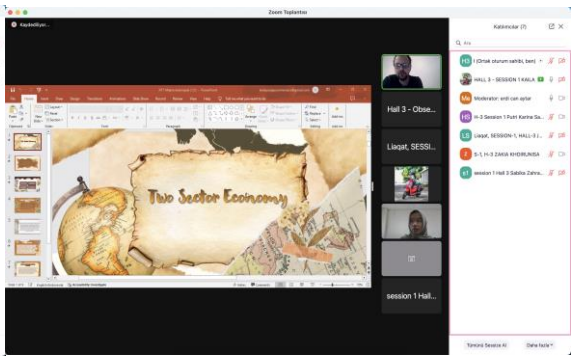


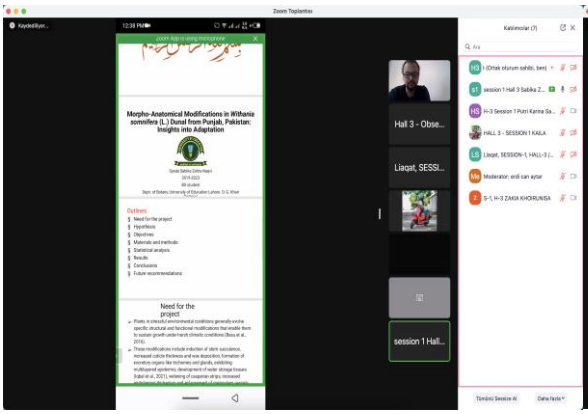
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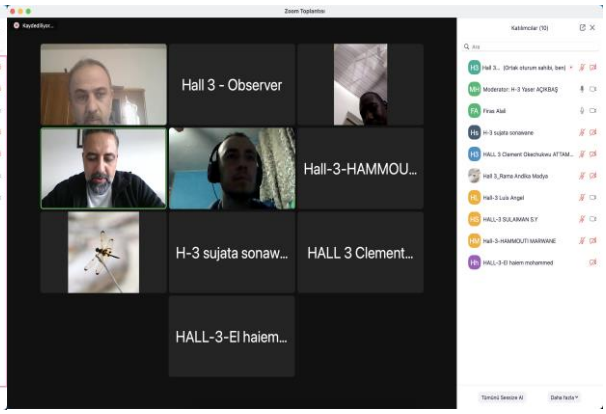




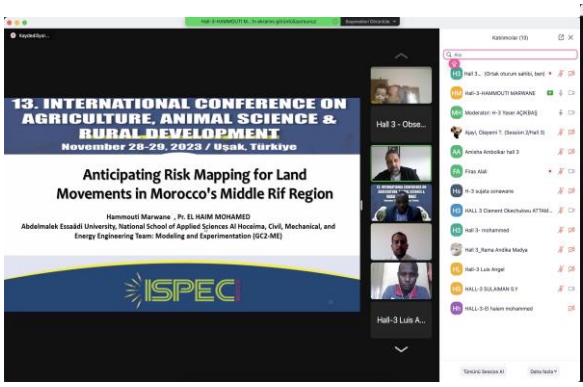


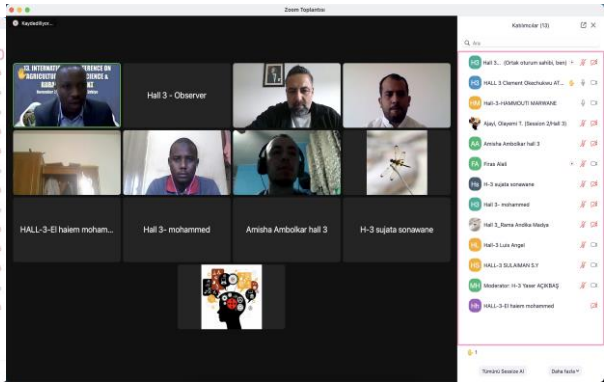


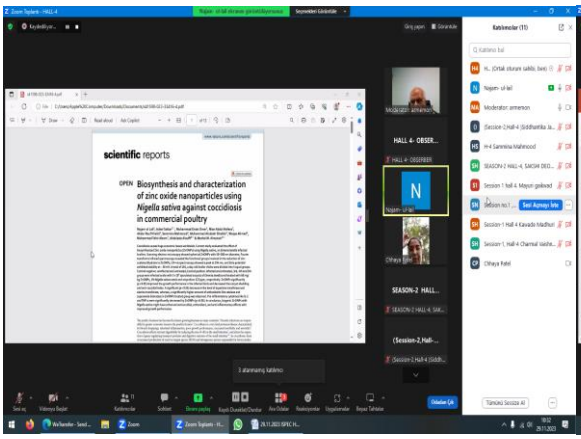


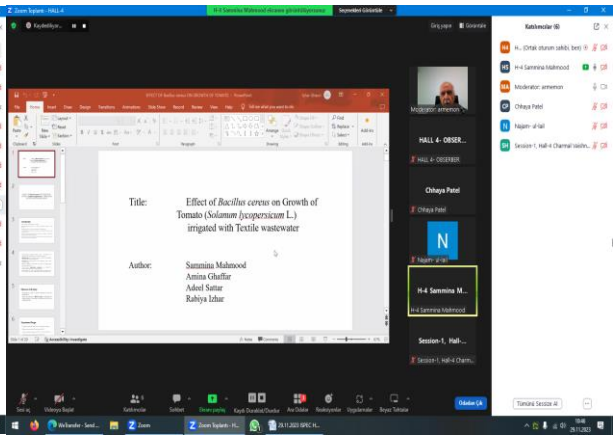


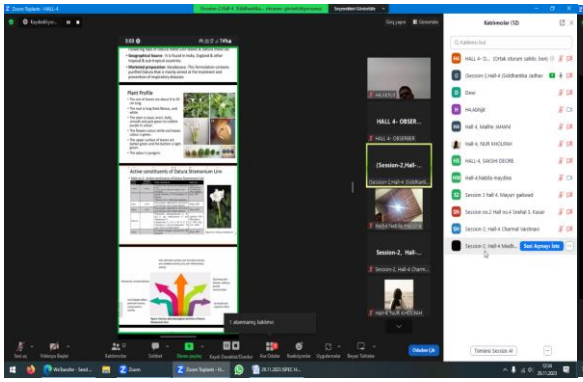
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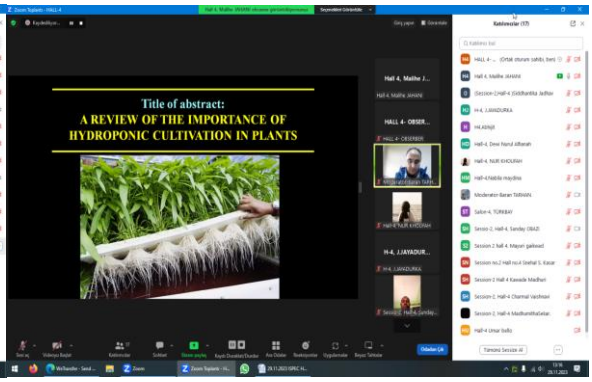




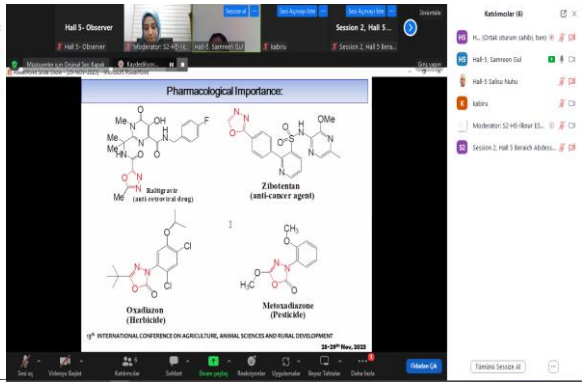












CONTENTS

AUTHOR	TITLE	Page No
	ABSTRACT	
Wajahat Ali Shakeel Javaid Mohammad Nabeel	A New Fermatean Fuzzy Programming Approach To Optimize The Mathematical Muti-Objective Multi-Level Solid Transportation Problem	1
Canan Kop Bozbay Miraç Mert Yildirim Nuri Can Karaoğlu Büşra Özdöngül	Growth Performance, Digestive System Development, Relative Meat And Organ Weights, Meat Quality And Some Blood Characteristics In Japanese Quails (Coturnix Coturnix Japonica) Fed Diets Containing Goldenseal (Helichrysum Arenarium) Essential Oil	2
Esra Bilici Salih Sezer	The Role of The S-Ribosylhomocysteine (Luxs) Gene in The Histophilus Somni Bacteria	5
Erten Akbel Mustafa Kara	Extraction of Silybum marianum (L.) Gaertner (Milk Thistle)	6
Burcu Begüm Kenanoğlu Özlem Özmutlu Nazife Şakin	Effect of Allelochemicals on Germination and Emergence Quality of Dill and Celery Seeds	8
Burcu Begüm Kenanoğlu Havva Dinler Derya Maral Gül Rengin Eltem Cennet Büşra Aydın	Effect of Biopriming and Hidropriming Treatments on Tomato Seed Viability	10
Müge Şahin Salih Gökkür Deniz Aksoy	Preliminary Study on Determining The Self-Fertility Status of Some Japanese Plum Variety Candidates	13
Alper Durmaz Erdi Can Aytar	Aristolochia bodamae Plant's Antioxidant Activity and Bioactive Compound Content	15
Alper Durmaz Erdi Can Aytar	The Use of Halophytic Plants in Saline Agricultural Areas and Their İmpact on Bioremediation in Such Environments.	17
Erdi Can Aytar Yasemin Özdener Kömpe	Seed and Protocorm Morphology of Serapias orientalis, and Aminoacid Analysis of Aeroear Parts	19
Namuk Ergün Ismail Sayim Sinan Aydoğan Melih Bilir Gülden Çetin Özkan Emre Karahan	Grain Yield and Stability of Feed Barley (Hordeum vulgare L.) Genotypes Under Dry Conditions of Central Anatolia	21
Zehra Yıldız Zakire Yücel Elanur Dursun Rahime Cengiz	Determination of The Effect of Source Material on The Success of Obtaining Haploid in The in Vivo Maternal Haploid Technique	24
Ferzat Turan Gamze Nida Güneş Zeynep Duran Bilal Karakaya	Effect Of Liquid Organic Fertilizer Used in Different Developmental Periods on Yield and Yield Parameters of Sunflower (Helianthus annuus L.)	26
Mehmet Öten Melike Köse	Determination The Effects of Different Additives Added To Vetch-Triticale Silage Mixture on Silage Quality	28
Mehmet Öten Mertcan Koç	The Effects of Different Mixture Ratios Of Common Vetch + Triticale Grown in Sakarya Ecological	30

Alperen Gümüş	Conditions on Green Forage Yield and Silage Quality	
Abdulrezzak Memon	Role of Small GTP-Binding Proteins in Root Nodule Formation in The Model Legume Medicago truncatula	32
Enes Irat Merve Yeke Nuriye Merakli Abdulrezzak Memon	Evaluation of the potential use of duckweed for cleaning up leather industry wastewater pollution	33
Birsen Geçioğlu Erincik	Importance of Vegetative Compatibility Groups of Cryphonectria Parasitica in Biological Control of Chestnut Blight	34
Nuriye Merakli Hüseyin Altundağ Abdulrezzak Memon	Chromium Tolerance, Bioaccumulation, and Localization in Different Varieties of Brassica juncea	36
Ali Osman Lökçü Derya Öğüt Yavuz	Effects of Some Herbicides on Weed Species in Different Phenological Periods of Wheat	38
Havva Dinler Ercüment Osman Sarihan Mehmet Uğur Yildirim	Determination of The Vapor and Contact Effects of Sage (Salvia Officinalis L.) Oil Against Some Soil-Borne Pathogens of Strawberry in Vitro Conditions	39
Havva Dinler Derya Maral Gül Rengin Eltem	Antagonistic Effect of Bacillus Species Against Fusarium Wilt in Strawberry in Vitro Conditions	43
Cengiz Türkay Filiz Baysal Cenap Yilmaz	Breeding of Sari Ulak Olive Variety By Selection	46
Aybike Bayraktar Ismet Boz	Participation of Women in Household Decision-Making and Factors İnfluencing Their Choices: A Case Study Of Rural Communities in Samsun Province	48
Maliha Gohar	Classification of Second Order Ordinary Differential Equations Using Lambda Symmetries	50
Yusuf, Aisha Bilyaminu	Incidence of Diabetes Mellitus in Patients (25 Years Above) At Genegal Hospital Katsina State, Nigeria From January to June 2020	51
Iftikhar Yasin	Assessing Sustainable Growth: ICT and Natural Resource Rent Impact on Environmental Eminence in BRICS Nations	52
Aysun Altikat	Advancements in Green Advanced Oxidation Processes	53
Erdal Zengin	A New Pest in Maize For Uşak (Türkiye): Spodoptera frugiperda (J. E. Smith, 1797) (Lepidoptera: Noctuidae)	55
Pooja Rasal Gaurav Kasar	A Review on Models Used in Assessment of Neuropathic Pain	57
R.Thanya Suganthan C	Analysing The Effectiveness of Using Multimodal Tools and Materials in English Language Classroom: A Systematic Review	58
Nataliia Korbych Oksana Liubenko Olena Vedmedenko Sergiy Lavrenko	Productive Qualities of The Different Breeds Geese For The Direction of The Fatty Goose Liver Production	59
Olena Vedmedenko Nataliia Korbych Oksana Liubenko	Prospects of Native Mare's Milk Production Under The Conditions of Ukraine	61

Sergiy Lavrenko Maria Rizak Nataliia Lavrenko	Vegetable Pepper As A Technical Culture	63
Oksana Liubenko Nataliia Korbych	Importance of Iodine and Selenium in Poultry Feeding	64
Sergiy Lavrenko Andriy Serbinov	Technological Aspects of Growing Tomatoes With Drip Irrigation	65
Sergiy Lavrenko Yaroslav Smirnov	Prospects For Growing Soybeans in Ukraine	66
Sergiy Lavrenko Andriy Maksimov Nataliia Lavrenko	Cultivation of Plants in Vertical Farms By Hydroponic Method	67
Elif Yürümez Canpolat Şükrü Canpolat Cemil İşlek	The Biological Activities of Hypericum Perforatum L.	68
Gusthyta Putri Nabila Naila Tamamil Asna Hendri Hermawan Adinugraha	The Use of Paylatter in Describing Business According To Islamic View	69
Songül Yildiz Muharrem Özcan	Effects of Global Warming on Tea Farming	70
Özkan Sedat Karaman Fatma Karakaş Oğuz Ruziye Karaman	Investigation of Alternative Forage and Silage Potential of Mung Bean	72
Arunkumar R V. Kalirajan	Turmeric Farmers and Their Extension Agency Contact Level in Tamil Nadu	74
Pankaj Tagad	An In-vitro evaluation of the anthelmintic activity of Aegle Marmelos on the Pheritima Posthuma model	75
Şule Erkovan Hanife Afacan	Adaptatıon of some sorghum Genotypes To Eskisehir Ecological Condition	76
Laila Afıa Rachid Salghı Abdelileh Mabrouk	Enhancement of Three Curcumin Derivatives As Ecofriendlies Corrosion Inhibitors For Carbon Steel in Hcl Solution	78
Laila Afıa Rachid Salghı	Valuation of Argan Leaves Extract As Green Corrosion İnhibitor For Steel in 1m Hcl	79
Dipanwita Ghosh	Machine Learning for Early Glaucoma Detection: A Comparative Analysis of Predictive Models	80
V.Sandhiya R.Devi Raman R.Srinivasan	Recycling Waste Polythene Materials To Useful Products Via Pyrolysis.	81
Puniparthi Sunitha Elavarasi.E	Human Prohibits of Bacillus Strains: Characterization, Safety, Microbiome, And Probiotic Carrier	83
Fatima Rehman Shamsa Rana Ahmed Faiz Akbar	Effect of nitric oxide and hydrogen peroxide on growth, physiological and biochemical attributes of wheat (Triticum aestivum L.) plant under cadmium stress	84
I .Zakariya'u	Electrical and Optical Properties of Poly Methyl Methacrylate Incorporated With Salt For Edlc Application	85
Pooja.K Elavarasi.E	Agriculture and Food security in the agricultural production	86
Ajesh Chauhan	Role Of Ai in Pharma	87
Yunus Emre Uslu Serap Açıkgöz	Effect of Suppression of Mechanical Transmission in Plant Viruses	88

Murat Olgun Muhammed Ibrahim Sayim	Assessment of Yield and Quality Traits of Advanced Barley (Hordeum vulgare L.) Breeding Materials in The Rainfed Conditions of The Central Anatolia Region	89
Sarra Zouaoui Rachid Rouabhi	Imidacloprid's Impact on Neurotoxicity: Illuminating The Consequences of Pesticides on Biodiversity and Health	91
R. Srilatha Podila Padmaja	Voice Emotion and Gender Recognition	92
Anita Yasin	Prevalence of Overweight in Culinary Arts Students of Vocational College A	93
Sushovan Khatua Debashis De	Optimizing Traffic Routing For Minimized Emissions in Vehicular Networks	94
Berna Efe Sabahaddin Ünal Hacer Mintaş Erdal Eren Yeler	Observation on Morphological and Agronomic Traits of Sheep Fescue Genotypes (Festuca ovina) in Semi-Arid Conditions	95
Bahadır Yilmaz Sedanur Yilmaz Aslıhan Çilingir Tütüncü Harun Özer	Mikrobiyal Gübre Uygulamasinin Organik Maydanoz Yetiştiriciliğinde Verim ve Kaliteye Etkisi	97
Ihor Ponomarenko Daria Pelypenko	Marketing Promotion of Rural Companies in The Digital Environment	99
Ihor Ponomarenko Sofiia Freidun	Functioning of Rural Companies in The Electronic Trade Market	100
Idoko Alexander Parker Joshua Elija Njoku Obioma Uzoma	Docking Assessment of Flavonoids on Adiponectin Protein and Fat Mass and Obesity Associated (FTO) Protein as Anti-Obesity Agents: An İn-Silico Investigation	101
Halid Sheriff Adegbusi	Evaluation of Nutritional Quality of Nigerian Soybean (Glycine Max)	102
Tutan Ghosh	Federated Learning-Based Intrusion Detection System For IOT	103
Lakshmi Devi.B.	Long Non Coding Rnas (Lncrnas) in Neurodegenerative Diseases-Diagnosis and Therapeutics	104
Nebahat Aytuna Çerçi Meryem Burcu Külahci Betül Aydin Ebru Beyzi Abdülkadir Arslan Sevinç Demir	Determination of The Biological Properties of Aronia Melanocarpa (Michx.) Elliott Fruit and Leaf Extracts	105
Sevdiye Yorganci Serap Açikgöz	The Relationship Between Vector Transmission of Plant Viruses and Genome Organization	108
Ristina Siti Sundari Farhan Ahmad D Yadi Heryadi Budhi Wahyu Fitriadi Lucyana Trimo Iwan Setiawan	Added Value of Coconut Sap to be Coconut Sugar	109
Clement Okechukwu Attamah Joy Chinenye Udenwagu	Assessment of Farmers' Access and Use of Agricultural Credit Facilities in Enugu West Senatorial Zone of Enugu State, Nigeria	110
El Houssaine Benaddi Rachid Laamari	A New Biomass-Based Activated Carbon For The Removal of Cationic Dyes From The Aqueous Environments: Characterization, Kinetics, Isotherm,	111

	Thermodynamics	
Wilson, Emmanuel Okon Idiong, Kokoette E	Electrochemical Potential-Based Diagnostics of Steel Rebar Corrosion in Concrete	112
Kaysa Aulia Venanda	Potensi Perkembangan Perekonomian Kota Pemalang	113
Abdulkarim D. Kurfi Sada Ibrahim Kabir M. Galadanchi Muhammad M. Rumah	Study of Mechanical Properties of Particle Filled Waste Bast Fiber and Epoxy Resin Composite	114
Malihe Jahani Sedighe Jahani	A Review of The Role of Phenolic Compounds in Plants Under Environmental Stresses	115
Gbenga J. Olatunji, Funmilayo G. Adebiyi Olufemi A. Adebiyi Oyebiodun G. Longe	The effect of graded level of dietary supplementation of citric acid on performance and serum lipids of broiler chickens	116
Umaru Mohamed Gassama	The Impact of Village Saving Loan Association on Small Holder Farmers in Taiama, Kori Chiefdom, Moyamba District	117
Umar Bello Ahmed Salisu Aliyu D. Mohammed	Improvement of Mechanical Properties of Polymeric Wastes Composites Using Charcoal Produced From Doum Palm (Hyphane Thebaica L.) Fruit As Reinforcement	118
Gülden Çetin Özkan Yusuf Coşkun Kutay Yilmaz Hümeyra Yaman	Using of Speed Breeding Technique To Develop New Flax (Linum Usitatissimum L.) Genotypes	119
Gülden Çetin Özkan Meryem Sağkol Hümeyra Yaman Ersin Akşor Oğuzhan Aydin	Production of Haploid Plants From Hybrid Combinations of Different Safflower (Carthamus Tinctorius L.) Genotypes By Anther Culture Method	122
Pratishtha Thakur Vinod Kumar	Nutrition & Dietetics	125
Besnik Hajdari	The Impact of Human Resource Management on The Development of Innovative Businesses	126
Al -Musbahu Abdulrahim Abdulyekeen Tunde Adebisi Jamiu Garba Sikirulai Abolaji Akande	Optimizing Crop Selection and Allocation for Maximum Yield: A QUBO Approach	127
Saghouri El Idrissi Imane Kettani Rajae Khalfi Chemsdoha Ferrahi Moha El Fechtali Mohamed Ziri Rabea Brhadda Najiba	Effect of Environment and Genotype on Durum Wheat : Responses of Genotypes, Yield, and Quality Parameters	128
Buğra Güvercin Faruk Akyazi	Fauna of Plant Parasitic Nematodes in World Hazelnut Soils	130
Serhat Yıldız	Alternative Forage Plant in Animal Nutrition; Teff (Eragrostis tef [Zucc.] Trotter)	131
Aicha El Oualkadi Ahmed Lamarti Mohammed Mouhib Ahlam Hamim	Gamma Irradiation Effects on Fortuna Strawberry Cultivar: A Comprehensive Study of Growth, Morphology, and Genetic Implications	133

Nugraha Edhi Suyatma Rani Yunia Putri Fahim Muchammad Taqi Subarna	Application of Nanocoating Made From Chitosan and Zno Nanoparticles To Extend The Shelf Life of Meatball	134
Ukpabi-Ugo, Jacinta Chigozie Anosike, Chioma Assumpta	GCMS Profiling and In Silico Investigation of Bioactive Compounds of Hexane Extract of Sesamum Indicum Seeds to identify fertility agent: Potent Inhibitors of Angiotensin Converting Enzymes and Phosphodiesterase 1A Receptors	135
Pratishtha Thakur Vinod Kumar	Diabetes Mellitus: Pandemic in India	137
Nizamettin Erbaş	Investigation of Investments in Fixed Capital in Terms of General and Rural Employment: Yozgat Province Example	138
Suwantoko Ridhotul Hairi Ganung Nalendra Marthinus Hutabarat Thania Theresia Pangaribuan Erwin Tampubolon Satria Gumay Ilham Hapmi Yoga Putra	"The Authority, Duties, and Functions of The National Human Rights Commission (Komnas HAM) in Upholding Human Rights in Indonesian"	140
Adeniyi B.M Kyenge B.A Adah C.A Ogungbemi K Samoh T.F	Toxicological Effects of Heliotropium Indicum Leaf Extracts on Albino Rat Tissues	142
Sanae Zriouel	Magnetic Nanoparticles for Biomedical applications	144
Katarina Stanojević Dragana Pavlović Jelena Matejić Aleksandra Milenković Ljiljana Stanojević	Waste Material of Wild Carrot (Daucus carota L.) Seeds As A Source of Natural Antiinflammatory Agents	145
Aleksandra Milenković Katarina Stanojević Dragana Pavlović Jelena Matejić Jelena Stanojević Ljiljana Stanojević	Anti-inflammatory Activity of Wild Carrot (Daucus Carota L.) Seed Hydrolate	146
Osman Nezih Kenanoğlu Sevdan Yilmaz Mustafa Karga Soner Bilen	Safe Dose Range That Can Be Used in Nettle and Green Olive Tree Ethanolic Extracts in Artemia Enrichment	148
Nihan Akinci Kenanoğlu Şefika Nur Demir Sinem Öztürk Ahmet Ali Berber	The Examination of The Eco-Genotoxic Effects of Pesticides on Daphnia Magna	150
Hülya Ünver	Fruit culture in duzce province	152
Ahmad Mohammad Zuru Abdullahi Abdu Muhammad Chika Mu'azu Musa Shuaibu Ishaka Muhammad	Optimization of Biogas Production and Compression From Co-Digestion of Animal Dungs	154

Chaima Mouffouk Soumia Mouffouk Hamada Haba Leila Hambaba	Anti-inflammatory, antioxidant and antibacterial effects of the medicinal plant Scabiosa stellata L.	156
Hafsah A. Klfout Abdullah M. Asiri Khalid A. Alamry Mahmoud A. Hussein	Synthesis of a new Polybenzoxazine-based Arylidene Moiety	157
Aboubakr Ben Hamou Salaheddine Farsad Ayoub Chaoui Amane Jada El Alem Noureddine	Nitric Acid Activation for Tuning the Pore Structure of Sewage Sludge Digestate Biochar Adsorbent: Implications on Methylene Blue Adsorption	158
Alexandrov V.S	Analysis of The Soil Composition of The Substance and Improvement of its Quality Using New Data Processing Approaches	159
Jothi Lakshmi R. Srinivasan	An Over Review of Pharmacological Aspects of Diabetes Mellitus of Indian Medicinal Plants	160
Muninggar Nafisah Asnal Muna Shafiyya Zahra Wiwit Anisa Muhammad Sultan Mubarok Ade Gunawan	Maisir in The Digital Age: An Analysis Of The Phenomenon Of Cryptocurrentcy Gambling And Its Implications	161
V.Sandhiya , R.Devi Raman R.Srinivasan,	Recycling Waste Polythene Materials To Useful Products Via Pyrolysis.	163
Sheila Ojei Michael	Iron deficiency anaemia in pregnancy: reexamining the nature and magnitude of this public heath concern	165
P. Sivaraj, K.S.Naveen C. M. Raguraman	Implementation and testing of a solar declinatorwith water preheating	166
Kaila Zulfa Khoirurrizki Zakia Khoirunnisa Putri Karina Sabila M. Aris Safii M. Taufiq Abadi	Islamic Macro Concepts: Tw0 Sector Economy	167
Intan Athiyatul Maula Dian Nofitasari Karina Atha Nabila Muhammad Sultan Mubarok, M.E	The Role of Zakat in Islamic Economic Axiology	168
Syeda Sabika Zahra Naqvi Syed Mohsan Raza Shah	Morpho-Anatomical modification in with aniaso mnifera (L.) Dunal from punjab, Pakistan: Insight into adaptation	169
Mita Lusari	Stabilitas Perekonomian di Desa Mulyorejo	170
Kheloufi Abdenour Mansouri Lahouaria Mounia	Effect of Varied Temperatures on Seed Germination and Seedling Emergence in Cherimoya (Annona cherimola Mill.)	171
Iram Liaqat	AI-2 QS signalling and inhibition in dental unit water line biofilm isolates	172
Adeel Sattar Najam-Ul-Lail Muhammad Ovais Omer Mian Abdul Hafeez	Biosynthesis and Characterization of Zinc oxide Nanoparticles using Nigella sativa against Coccidiosis in Commercial Poultry	173

Muhammad Abubakr Shabbir Sammina Mahmood Muhammad Adil Rasheed Qamar Niaz		
Matej Babič	3d Visibility Network Using For Analyzing Complexity of Microstructure of Robot Laser Hardened Specimens	175
R. Robert S. Meenakshi	An In-Depth Analysis of Multifarious Determinants Impacting English Speaking Proficiency Attainment among Rural Students in India	176
Chhaya Patel	Impact of Fiscal Policy on India's Economic Growth	177
Vaibhav Kant Singh Kapil Kumar Nagwanshi	Proposing the State of the Art Data Mining Methodologies for performing Energy Audit and Management	178
Vaibhav Kant Singh Kapil Kumar Nagwanshi	Proposing the State of the Art methodologies for Conservation of Energies	179
Vaibhav Kant Singh Kapil Kumar Nagwanshi	Proposing the State of the Art Machine Learning Algorithms for the Notion of Clean and Sustainable Energy	180
Amina Ghaffar Sammina Mahmood Adeel Sattar	Effect of Bacillus Cereus on Growth of Tomato (Solanum Lycopersicum L.) Irrigated With Textile Waste Water	181
Mubashir Mehdi	E-commerce and Consumer Buying Behavior for Agricultural products in developing countries: A case of Pakistan.	182
Talha Mashhood Muhammad Ibrahim Akbar Ali	Potential anticancer and antioxidant lauric acid based hydrazones synthesis and computational slant towards the electronic properties	183
Thanh-Dung Nguyen Huu-Nghia Duong Thi-Pha Nguyen Huu-Hiep Nguyen Huu-Thanh Nguyen	Antibacterial Activities of Endophytic Bacteria Isolated From Adenosma Bracteosum Bonati Against Vibrio Parahaemolyticus	184
Nailun Naja Annayya Putri Sabilla Najwa Azima Muhammad Sultan Mubarok Ade Gunawan	Human Nature, Ethics of Freedom and Socio-Economic Responsibility	185
Shinta Dewi Fitri Mukarromah	Analysis of The Benefits of Purwaceng As A Medicinal Plant	186
Vidya Padmakumar	Ecological Factors Shaping the Evolution and Behavior of Spoonbills: Insights for Conservation and Management	187
Ajayi, Olayemi T. Adeniji, Adebukola T.	Lens and Culinary Brilliance: A Visual Journey into Food Photography’s Influence on Gastronomy and Dietetics	188
Fargham Ahmed Kashish Nadeem	Joint Family System	189
Angel Sara Thangamuni Naga Harika Korrapati Hiba Fathimathul Harshiba Joysha Mohan Adiba Farhin Nitol Nabeel Muhammed Rafi	Beauty From Within: An Interplay Between Gut and Skin Health	190

Wafika Erininda Givan Mauzarima Fortuna Hendri Hermawan Adinugraha	Islamic Economics: Broadening Horizons Justice and Humanity	191
Sholadoye Qazeem Oyeniyi	Heavy Metals Assessment of Farmland Soil in Bagega Mining Community	192
Omar Benamari Amina Labhar Amin Salhi Mhamed Ahari Soufian El Barkany Hassan Amhamdi	Medicinal Plants Utilized in Conventional Diabetes Treatment in Rif Issaguen District, Northern Morocco.	193
Sobia Maqsood Saira Akhtar Sabrina Carvalho Zeyneb Kılıç	Women Role in Sustainable Rural Development in Pakistan: A Systematic Review	194
Vaishnavi G.Sapte Sushma V.Datir Archana R. Jagtap, Abhale D.M Vivekanand Kashid	Formulation and Evaluation of Antimicrobial cream from tribulas terrestris ethanolic extract	195
Zahra Rezapour	Microplastics in Aquatic Food: A Hidden Threat to Human Health	196
Septya Wulan Savitri Lu'luil Karomah Suci Fitria Safira Faula Arima Muhammad Sultan Mubarok	The Importance of Understandıng Maqashıd Sharıa As The Maın Goal of Islamıc Law	197
Deven S. Aspalani Samiksha B. Bachkar Abhishek M. Aher Sujata K. Sonawane Kuldipak R. Parkhe Vivekanand A. Kashid	Analytical Method Development and Validation of Thiazolidenediones Derivative by RP-HPLC	198
Anuja V. Pathade Kalyani P. Parkhe Nilesh T. Parkhe Varun V. Joshi Vivekanand A. Kashid	Review on: Neurocosmetics: The Skin-Brain Connection	199
Meshal Nasser Alnefaıe	"Harnessing Dextrin Derivatives for Targeted Drug Delivery with Nanofibers"	200
Aarti R. Sanap Prajakta A. Halnor Ratna D. Nikum Vivekananda A. Kashid	A Review on Mouth Dissolving Tablet	201
Shivam Rajput Rishabha Malviya Chetan Vashist Manju Kamra	The Application of Herbal Extract-Loaded Nano-formulations for Pest Control in Agriculture: A Review	202
Mousami Das Binod Chandra Tripathy Omer Kisi	Characterization of Lacunary -Convergent Sequences in Credibility Space	203
Salek Lagdali Youssef Miyah Mohamed El-Habacha Guellaa Mahmoudy Mohammed Benjelloun	Optimal Preparation of Low-cost Phongitic Clay Microfiltration (MF) Membrane for Real-wastewater Treatment from Clothes Washing	204

Soulaiman Iaich Mohamed Zerbet Mohamed Chiban Fouad Sinan		
Tamanna Rai Rishabha Malviya	Anticancer Agent from Marine Source	206
Abdelileh Mabrouk Laila Afia	Application of Pid Control in Greenhouse Temperature Regulation For Crop Growth Optimization	207
Hammouti Marwane El Haım Mohamed	Anticipating Risk Mapping for Land Movements in Morocco's Middle Rif Region	208
Firas Alali Marwa Jawad Asaad Sh.	Identification of Passalurus Ambiguus in Domestic Rabbits (Oryctolagus cuniculus) in Karbala Province, Iraq.	209
Clement Okechukwu Attamah Jane Mbolle Chah	Impact of Rural Finance Institution Building Programme on Socio-Economic Life of Beneficiaries in Anambra State, Nigeria	210
Sujata Sonawane	Development of Validated Rp-Hplc Method For Quantitative Estimation of Pioglitazone Hcl in Bulk And Formulation By Using Quality By Design Approach	211
Luis Angel Kalpana Nanjareddy Miguel Lara Flores Manoj-Kumar Arthikala	Unveiling The Impact of Mad41 Overexpression on Mycorrhizal Symbiosis in Common Bean	212
Lakshmi Devi.B	Long Non Coding Rnas (Lncrnas) in Neurodegenerative Diseases-Diagnosis and Therapeutics	213
A.Lourdu Terancia	Micrornas – Biogenesis,Mechanism of Action and Role in Breast Cancer – Overview	214
Rama Andika Madya Agus Setiawan Dian Iswandaru Yulia Rahma Fitriana	Bird Diversity and Feed Guild in The Way Kambas National Park Buffer Zone (Case Study of Labuhan Ratu Vii Village)	215
Sulaiman S.Y. Hafsat M.	Biosorption of Ni2+ and Pb2+ from waste water using doum palm nut shell activated carbon	216
Siddhantika S. Jadhav Madhuri E.Kawade, Sakshi P. Deore, Snehal S. Kasar, Dipak D. Nalawade, Vivekanand A. Kashid	Review on: To study the Pharmacognostic and Pharmacological Activities of Datura Stramonium Linn	217
Vaishnavi D. Charmal Mayuri B. Gaikwad Vaibhav U. Lasure Vivekanand A. Kashid	Review on: Pharmacological Activity of Selaginella Bryopteris L.	218
Sundy Alagba Obazi Chiamaka Eucharia Ubachukwu Samuel Esheya Esheya	Knowledge of Farmers on Pesticide Safety Practices in Nsukka Local Government Area, Enugu State, Nigeria	219
Madhumithasekar Elavarasi E, R Srinivasan	The Future of Agriculture: Unleashing the potential of Digital Technologies	220
Abhijit Chatterjee Pintu Das Sanjeev Kumar Sinha	Groundwater Quality Assessment in Rural Area of Ranchi: A Case Study	221

J.Jayadurka Elavarasi E, R Srinivasan	New Agriculture Technology in Modern Farming - A Review	222
Snehal Kolpe	Formulation and Evaluation of Anti Ageing Cream Using Tinospora Cordifolia (Giloy)	223
Nur Kholifah Dewi Nurul Alfianah Nabila Maydina Ma Farotul Jannah Muhammad Sultan Mubarok Muhammad Shulthoni	Islamic Economic Principles and Their Implementation in Everyday Life	224
Malihe Jahani Sedighe Jahani	A Review of The Importance of Hydroponic Cultivation in Plants	225
Muhammad Tahir Khan Madeeha Shahzad Lodhi Dong Qing Wei	Novel mutations in LdtB, PonA1, and PonA2 in pyrazinamide resistance clinical isolates of Mycobacterium tuberculosis	226
Samreen Gul Khan Naheed Akhtar Fozia Anjum Kiran Aftab	Synthesis and Antiseizure Potential of 1,3,4-Oxadiazole Based Derivatives	228
Beraich Abdessamad Anass Choukoud El Farissi Hammadi El Bachiri Ali Talhaoui Abdelmoneam	Comparison of the volatile compounds of essential oil extracted from Pistacia Lentiscus stems via hydrodistillation, and microwave and their effects on its antioxidant, and antifungal activity	229
Salisu Nuhu	Optimization of Quicklime Production from Eggshells Using Response Surface Methodology	230
Tayebi Amani Moumou Mohammedine Harnafi Hicham	Determination of Total Phenolic, Total Flavonoid Content, and Antioxidant Activity in Basil Extracts (Ocimum basilicum L).	231
Andrey Popatanasov	Effects of hormopriming with cytokinins on the germination of Solanum lycopersicum cv. Ideal	232
Akande, Sikirulai Abolaji Ishaq, Maimuna Abdullahi Ishaq, Zainab Abdulrahim, Al-Musbahu Adedayo, Olufemi Adesola	Exploring The Intuitive Impact of Optimization Techniques on The Control of Food Security and Agricultural Profit Margins	233
Ajayi, Olayemi T. Busari, Waheed B.	Media Literacy and Agricultural Sustainability: Empowering Rural Communities through Communication Education	234
K.R.Padma K.R.Don	Wild Edible Mushrooms and Their Bioactive Compound Production Possess Antibacterial Activity	235
John Bamidele Isaac Adekunle 0lufemi Ade Adegorite Solomon O. Olatunde Emmanuel S.	Studies on the Performance of organic and Inorganic Fertilizer on the Growth and Yield of Cucumber (Cucumis sativus)	236

FULL TEXT

Stogova Mariia Gennadievna Kopylova Maria Dmitrievna	Analysing The Range of School Uniforms For Overweight Primary School Children	237
Ertan Yildirim Melek Ekinci Metin Turan Selda Ors	Mitigating Effect of Chrysin on Salt Stress in Cucumber (Cucumis sativus L.) Seedling	243
Melek Ekinci Ertan Yildirim	Investigation of The Effects of Humic and Fulvic Acid on Plant Growth in Cauliflower Seedlings	256

Metin Turan Selda Ors	Grown in Herbicide-Contaminated Soil	
Selma Kösa Sibel Mansuroğlu Nihansu Karaçöne	Determination of The Effect of Two Different Growth Period on Plant Growth Characteristics in Silene Compacta	263
Orhena, Elizabeth Nguemo Charles-Odili, Veronica Nnamaka Ekwueme, Chika Maureen Ezoem, Uche Blessing	Perception of Business Education Students on Effectiveness of Siwes Administration in Federal Colleges of Education in The South-South	275
Ersin Gülsoy Seda Can Başoğlu	Pre-Selection of Rose Hip (Rosa spp.) Genotypes Growing Naturally in Iğdir	290
Kabiru Hamisu Abdullahi Taufeeq Lawal Ahmad Usman Shu'aib Zaharadeen Abdullahi Yusuf Hassan Ali	Structural Analysis of Wudil Cattle Market (Kara) Wudil Local Government of Kano State-Nigeria	300
Ruziye Karaman Cengiz Türkay	Determination of Changes in Sweet Corn Applied Different Nitrogen Doses During Storage	311
Hasan Basri Karayel	The Effect of Natural Boron Mineral Use on Essential Oil Content and Components of Fennel (Foeniculum vulgare Mill.)	326
Habil. Cristina Raluca Gh. Popescu	Applying The Principles of Green Economy: Focusing on Circular Economy and Sustainable Development	335
Habil. Cristina Raluca Gh. Popescu Gheorghe N. Popescu	Agriculture, Rural Development, and Land Reform: Recent Advances and Contributions To Environmental Sustainability	354
Fatma Alan Ayşen Melda Çolak	Pitaya (Hylocereus spp.) Flower Structure and Fertilization Biology	370
Fatma Kayaçetin Oğuzhan Aydin	Yield And Quality Of Black Mustard Lines Under Autumn Sowing Season In Ankara	378
Fatma Kayaçetin	Correlation Among Germination And Seedling Growth Of Brassica Nigra L. Under Priming Applications	389
Şehnaz Mertoğlu Cansu Karaca Gürsel Karaca	Use of Fungi in Sustainable Product Design	398
Gamze Kaya	The Effect of Different Periods of Waterlogging on Morphological and Some Physiological Characteristics of Melon	422
Halid Sheriff Adegbusi	Improving Complementary Feeding in Nigeria: A Review of Crayfish's Nutritive and Health Values	432
Sultan Karahan Azize Atik	Lupin Flour Uses in The Food Industry	449
Ayşen Melda Çolak	Quince Wood Cuttings in Different Environments Rooting	459
Melekber Sülüşoğlu Durul Mehmet Polat Hülya Ünver	The Importance of Mahaleb Cherry And Research on it	468
Hossein Kazemı Mehmet Uğur Yıldırım Tuba Arjumend Mohammad Hadi Fatemi	A Framework for Assessment of biological Nitrogen Fixation (BNF) Services by Rhizobium in Agroecosystems (BNF-MEA Framework)	480
Sefa Altikat	Industrial Pellet Fuel Production: Conversion From Raw Materials To Energy	486

Mustafa Çirka	Defense Mechanisms of Plants Against Drought	500
Ahmed K. Usman Saidat O. Abdulrasheed Yusuf A. Hassan Echeche Onuh Yahaya Aliyu	A Review of Economic Importance and Viability of Gold: A Case Study of Ilesha Schist Belt, Southwestern Nigeria	510
Kannadasan Karuppaiah Ezhilvanan Mani Vinoth Raman	Statistical Models For Evaluate To Efficacy of Chronic Kidney Disease Control Measure	521
Servet Aras Müjgan Güney Gökçe Aydoner Çoban	Use of Nitric Oxide in Horticulture	533
Servet Aras Müjgan Güney Hakan Keles	Effects of Flood Stress on Fruit Species	541
Muhammet Ali Gündeşli	The Phytochemical Composition of Matricaria L. (Chamomile): A Review	547
Muhammet Ali Gündeşli	Essential Oil Extraction Methods: A Review	561
Ismail Demir	Changes and Trends in World Potatoes Agrıculture	575
Ismail Demir	Rısks and Trends in World Sugar Beet Farmıng	590
Batuhan Türkbay Safiye Pınar Tunali	Pulse Drip Irrigation Applications in Combating Drought	602
Ilhan Özer Ilhan Senem Akkoç Nilgün Baysal	The Effectiveness Of Herbal Extracts In The Fight Against Mastitis Disease And Cancer In Cattle	613
Eren Özden	Determination of Some Morphological and Physiological Characteristics of Iğdır Şalak Melon	623
Eren Özden Mustafa Akbaba	Determination of Some Morphological, Viability and Physiological Characteristics of Iğdır Super Tomato Local Genotype Seeds	636
Lale Aksoy Esin Kılıç	Evaluation of Strawberry Production in Sason and its Effects on Local Development	651
Zeynep Nur Karakuş Gülşah Çalişkan Koç Yasemin Çelebi	Chokeberry: Nutrition Values and Potential Health Effects	675
Zeynep Nur Karakuş Yasemin Çelebi Gülşah Çalişkan Koç	Pharmacological Effects of Mullberry Leaves on Human Health	696
Birsen Zeybek Zeliha Gökbayrak	Effects Of Plant Growth Regulators On Pollen Germination And Pollen Tube Development In Plum And Pears	710
Havva Eylem Polat Ahmet Cengiz Yildirim	The Role of Geographical Indication Products in Rural Development: The Case of Kalecik District	728
Smart M.O Ibironke O.H Okumodi B.O Adeoye A.S Opawuyi M.M	Risk Assessment of Heavy Metals Concentration in Well Waters Around Metal Recycling Industries of Ikorodu South West Nigeria	736
Sevim Atmaca Ali Endes Yusuf Yanar	Important Soil-Borne Fungal Diseases That Cause Phytopathological Damage in Lentil Plants	748
Sevim Atmaca Ali Endes Yusuf Yanar	Foliar Fungal Diseases That Cause Phytopathological Damage in Lentil Plants	763
Murat Güney	Almond Genome Sequencing – Past, Present, And	773

Servet Aras Müjgan Güney	Future	
Murat Güney Hakan Keles Gökçe Aydoner Çoban	Transcriptome and Genomic Analysis of Apple (Malus × domestica)	794
Şeref Hamarat	Cows, Artificial Meat and Global Warming	808
Elif Yürümez Canpolat Şükrü Canpolat	Antifungal Activity of Zinc Oxide (Zno) Nanoparticles	876
Ali Endes Sevim Atmaca Güngör Yilmaz	Significant Fungal Pathogens Impacting The Economic Viability of Hemp Cultivation	895
Müjgan Güney Gökçe Aydoner Çoban Hakan Keles	Phytochemical Composition, Medicinal Properties, and Molecular Advances in Caper Bush	917
Müjgan Güney Servet Aras Murat Güney	Potential of Jojoba in Agriculture: Addressing Cultivation Challenges and Turkey's Prospects	935
Gita Oktavia Rosita Muhammad Usman Ariffianto Kholimah Agung Muhammad Taufiq Abadi	History of Classical Economic Thought	951
Gülay Olcabey Ergin	An Eco-Friendly Approach To Control Insect Pests : Nanopesticides	977
Ali Endes Sevim Atmaca	Potential Threat on Chickpea Production Areas: Anthracnose (Ascochyta rabiei) Disease	992
Sibel Alapala Engin Kuldur	Sheep Breeding and Eşme Sheep in Uşak Province in Our Country	1004
Sibel Alapala Engin Kuldur	Latest Situation of Pastures in Our Country and The Use of The Pastures By Sheep and Goats	1017
Sibel Alapala Ömer Büyükyozgat	Breeding Studies in Cattle Breeding and Biotechnological Applications For Reproduction	1028
Ömer Büyükyozgat Sibel Alapala	Simmental Cattle Breeding in Turkey and Its Importance in Meat Industry	1041
Yasemin Sunucu Karafakıoğlu	A General Overview of Saffron	1051
Ebru Akyüz Çağdaş Okan Sarıtoprak Mehmet Polat	Effects of Plant Growth Regulators And Nutrient Medium on The Micropropagation of Garnem Rootstock	1075
Özge Karadeniz Elif Demiral	Determination of Physicochemical and Antioxidant Properties of Ice Cream With Coconut and Oat Milk	1092
Osman Yüksel Bekir Saka	Determination of Feed Values of Some Field Crop Wastes Used As Roughage Source	1108
Şeyda Yayla M. Mesud Hürkul	Examınatıon Of Some Anatomıcal Features of Endemıc Lycıum Anatolıcum (Solanaceae)	1121
Şeyda Yayla M. Mesud Hürkul	Light Microscopy Analysis of Some Important Anatomical Characters of Paronychia Angorensis	1129
Kerem Mertoğlu	Hormone and Organic Acid Changes According To Different Plant Organs: An Example Of Cherry Cv. 0900 Ziraat	1137
Betül Yücel Yeter Çilesiz	Effect of Cooking Characteristics on Vitamin Content in Legumes	1148
Hale Yıldız Yeter Çilesiz	Evaluation of Melissa officinalis L. Plant in Terms of Antioxidant Properties	1167
Ajagbe, S.W. Yekinni, L.O.,	Attitude, Motivation and Academic Performance of High Achieving Junior Secondary School Students in Social Studies in Oyo East Local Government,	1181

Babatunde, S.I. Bakare, M.T. "	Nigeria	
Yekinni, L.O., Kareem, K. K., Abdulrahmon, M. O., Bakare, A. O.	Effectiveness of Modelling on The Verbal and Arithmetic Skills of Children With Intellectual Disability in Akure South Local Govenrment of Ondo State, Nigeria	1198
Hilmi Dzaki Uswatun Khasanah Hilda Safitri M Farhan Ahnaf Muhammad Aris Syafi'i M. E. I	Economic Thought of Contemporary Muslim Scientists	1209
Şakir Burak Bükücü Yakup Kadir Kömür	Current Status of Greenhouse Fruit Growing in Türkiye	1222
Iliya Ibrahim Sanda, B.Yahaya Isyaku, N.T Joseph, E.Kamba	Studies On Some Heavy Metals and Using of Some Selected Phyco-Chemical Parameter in Zuru Dam, Kebbi Staste, Nigeria.	1242
Olawale Oyemade Oyekanmi Olusoga Rasheed Otelaja	Effects of Two Models Instructional Strategies on Students' Knowledge of Climate Change Concepts in Social Studies For Sustainable Development	1254
Angga Candra Winata Minkhatul Maula Ridwan Abu Djibran Aris Syafi'i	Economic Thought of Indonesian Muslim Scientists (Cokroaminoto, Syfrudin Prawiranegara, Moh. Hatta, H. Abdul Malik Karim Amrullah)	1274
Abdurrahman Özbek Aycan Özdemir Asuman Arslan Duru	The Effect of Urea Supplementation on Nutrient Contents and Some Fermentation Characteristics of Sugar Beet Leaves Silages	1290
Sezai Ercişli	Some Important Wild Edible Fruit Species Found In Flora Of Turkiye	1299
Tahir Karaşahin	Effect of Thyroid Hormones on Reproduction in Farm Animals	1313
Tahir Karaşahin	Poultry Availability and Evaluation of Turkey By Years	1325
Sedat Behrem Sabri Gül	Some Environmental Factors Affecting The Medullated and Non-Medullated Fiber Diameter Characteristics in Central Anatolian Merino Sheep	1333
Roza Yerezhepkyzy Aruzhan Zholmakhan Ayazhan Ibragim	Legal Support of Economic Methods of Environmental Law and Order Management in The Republic of Kazakhstan	1343
T. I. Süleymanov S. I. Jafarova	The Future of Marine Fuels in Azerbaijan: Aligning with IMO Climate Actions Through the Deployment of LNG, LPG, and Hydrogen	1350
S. Can Cengiz Mustafa Okant M. Izzet Türkoğlu	Determination of The Effect of Different Plant Density on Some Yield Values in Gap Pink Fodder Nut (Pisum arvense L.) Cultivar Improved As A Winter Intercrop	1370
Mehmet Altun Ustun Sahin	Determination of CO2 Emission From Soils With Sewage Sludge Application Under Different Irrigation Regimes Through Carbon Stock Changes	1386
Valbona Cinaj	The Challenges of Implementing an e-Government ALBANIA System The case of the publication of sensitive data for Albanian citizens	1401
Abdoul Nasser Aboubacar Dan Badaou Üstün Şahin	Determination of CO2 Emission from Soil with Farm Manure Application under Different Irrigation Regimes through Carbon Stock Changes	1418

Laila Ameliya Muhammad Taufiq Abadi Muhammad Sultan Mubarok	Feasibility Study Analysis of Puring Fabric in Pakisputih Village Kedungwuni Subdistrict	1430
Kübra Özmen Kazım Mavi	The Use of Nanomaterials in Vegetable Seed Treatments As An Innovative Approach in Sustainable Agriculture	1437
Elda Purwanti Khulaelatudil Azzah Lutfiyanti	Economic Thought of Classical Muslim Scientists (Zaid Bin Ali, Abu Hanifah, Abu Yusuf,Abu Ubaid)	1455
Fatih Hancı	An Outlook of The World Jerusalem Artichoke Market	1462
Ali Kilinç Rukiye Zengin Nurhan Keskin	Berry Quality Characteristics of Some Native Grape Varieties Of Sivrice (Elazığ) Ecology	1475
Ali Kilinç Nurhan Keskin Birhan Kunter	Total Phenolic Compound Content and Antioxidant Activity of Some Grape Varieties Grown in Battalgazi (Malatya) Ecology At Maturity	1490
Ayşenur Altinay Abidin Kemeç	Examining The Role of Agricultural Activities in Rural Development From The Perspective of Sustainable Development Goals	1501
Derya Öğüt Yavuz	The Effectiveness of Herbicides Oxyfluorfen and Pendimethalin in Controlling Redroot Pigweed (Amaranthus retroflexus L.) and Lamb's Quarters (Chenopodium album L.)	1509
H.U. Muhammad E. Nwafor O.J. Ajayi Y. Muhammed	Effects of Recommended Cocoyam Production Technologies on Output of Farmers in Enugu State, Nigeria	1520
Sema Leblebici Murat Karaer Erdem Gülümser	Allelopatic Effect of Forage Turnip (Brassica rapa L.) on Buckwheat (Fagopyrum esculentum Moench)	1533
Murat Karaer Erdem Gülümser Sema Leblebici	Relationship Between Bilecik Province Drought Analysis and Wheat Yield Using Standardized Precipitation Evapotranspiration Index	1544
Fatma Alan Ayşen Melda Çolak	Pitaya (Hylocereus spp.) Importance of in Human Health	1558
Kerem Mertoğlu	Aminoacids Variation According To Different Plant Organs in Cherry Cv. Starks Gold	1570
Gökçe Aydöner Çoban Servet Aras Hakan Keles	The Effects of Lime Stress in Vegetables	1578
Gökçe Aydöner Çoban Müjgan Güney Murat Güney	Currently Soilless Culture Systems in Vegetable Production	1586
Hülya Elmali Gülbaş	The Potential Chemosensor Fluorescent Compounds in order to Determination Of Heavy Metals contamination in Agricultural Irrigation Water	1593
Hatice Ulusoy Hüseyin Peker	Use of Immortal Plant Extract in Wood Material and Its Effects on Thermogravimetric Analysis (Tga)	1608
Hatice Ulusoy Hüseyin Peker	Use of Various Natural Oils in Wood Material Protection and Their Effects of Wood Materials on Some Mechanical Properties	1617
Ilknur Eskimez Mehmet Polat	Volatile Oils in Ornamental Bulbous Plants and The Relationship Between Scent and Aesthetics	1627
Ilknur Eskimez Mehmet Polat	Adaptation of Stanley Plum Variety To The Ecological Conditions of Isparta	1638

Abdullah Kankaya Kerem Mertoğlu		
Onur Özbaş Kevser Tosun Duygu Arslan Hakan Aktaş	Effects of Old Gold Crimson (Ogc), Old Gold (Og), Hp1 And Hp2 Genes on Fruit Quality in Beef Segment Tomatoes	1648
Sibel Boysan Canal Hilal Yilmaz	Effect of Selenium Applications on Micro Element Content in Lupinus (Lupinus Albus L) and Soil Under Cadmium Stress Conditions	1669
Hilal Yilmaz Sibel Boysan Canal	The Role of Iron in Drought Tolerance	1681
Kübra Özmen Fulya Uzunoğlu Kazım Mavi	Effects of Different Seed Treatments on Emergence Characteristics and Seedling Quality in Solanum aethiopicum	1690
Mehmet Nur Çiftsüren Suna Akkol	Determination of The Relationship Between Egg Production in Geese and Some Climate Factors	1703
Mehmet Nur Çiftsüren Suna Akkol	Determination of Relationships Between Live Weight and Some Morphological Characteristics in Norduz Sheep Using Path Analysis	1717
Funda Dökmen	Use of Polymers in Water Conservation in Agriculture	1733
Nuray Şahinler Serkan Alakuş Beyza Çetin	Astrategic Product; Bee Venom and its Use in Apitherapy	1740
Nuray Şahinler	Effect of Heating and Storage on Honey Quality Criteria	1747
Nuray Şahinler Hülya Gülbaş Elmali Raziye Özdin Büşra Uyar Nazlı Kayhan	Effects of Storage Period, Heating Temperature and Heating Duration on The Quality of Honey in Different Honey Types Produced in The Aegean Region.	1754
Nuray Şahinler	Bee Product Composition and Use of Areas	1763
Hakan Keles Murat Güney Gökçe Aydöner Çoban	Summary of Walnut Cultivation in Yozgat 2018-2023	1780
Hakan Keles Servet Aras Müjgan Güney	Growing Potential of Jujube (Ziziphus Jujuba Mill.) Plant Under Yozgat Conditions	1789
Hayriye Göknur Ağca Küçükaydin Göksel Tirpanci Sivri Ömer Öksüz	A New Approach To Sustainable Food Supply: Cellular Agriculture	1798
Hasibe Yildiz Ayşe Vildan Pepe Fatma Yildirim Bekir Şan	The Effect of Bap and Ga3 on in Vitro Seed Germination of White-Fleshed and Red-Fleshed Pitaya (Hylocereus spp.) Species	1809
Barış Kaki	Examının The Effects of Some Clımate Characterıstıcs on Honey Productıon	1819
Hasibe Yildiz Kerem Mertoğlu	Evaluation Of Fruit Characteristics Together	1832
Sezai Ercişli	Evaluation Of Fruit Genetic Resources	1842
Canan Kop Bozbay Miraç Mert Yildirim Gökçe Bilge Ipek	Evaluation of Some Aromatic Plant Pulps As Silage	1853
Fatma Akyüz	Agricultural (Food) Supply Security in An	1863

ANKARA'DA SONBAHAR EKIM SEZONUNDA SİYAH HARDAL HATLARININ VERIM VE KALİTESİ

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Özet
Brassica nigra, baharat ve endüstriyel tohum yağı olarak kullanılan, ekonomik acıdan önemli bir türdür. Bu calışma, Ankara'da yarı kurak iklim koşullarında 2020-21 sonbahar ekim sezonunda 3 siyah hardal saf hattının fenolojisi, morfolojisi ve verim performansı acısından karşılaştırılması amacıyla yapılmıştır. Bu calışmada kullanılan siyah hardal saf hatları, USDA gen bankasından temin edilen ve Türkiye'nin ceşitli ekolojilerinden toplanan siyah hardal genotiplerinden secilmiştir. Deneme tesadüf blokları deneme desenine göre 3 tekerrürlü olarak yürütülmüştür. Sonuclar siyah hardal hatlarının bitki boyu, dal sayısı, kapsül sayısı, kapsüldeki tohum sayısı, 1000 tane ağırlığı, tane verimi, ham yağ oranı ve ham yağ verimi acısından istatistiksel olarak önemli olduğunu göstermiştir. Cıkış süresi, 4-6 yapraklı rozet oluşturma süresi, %50 ciceklenme süresi, %50 kapsül bağlama süresi ve olgunlaşma süresi bakımından siyah hardal saf hatları arasında farklılık tespit edilmemiştir. En yüksek tane verimi (1632.50 kg ha^{-1}) ve ham yağ verimi (444.58 kg ha^{-1}) Bn5 hattında belirlenmiştir. Bu sonuclar, bu genotiplerin, baharat ve enerji endüstrilerine uygun yeni ceşitlerin geliştirilmesi amacıyla ileri ıslah programlarında değerlendirilebileceğini göstermiştir.
Anahtar Kelimeler: *Brassica nigra* L., Fenoloji, Morfoloji, Tane ve Ham Yağ Verimi

YIELD AND QUALITY OF BLACK MUSTARD LINES UNDER AUTUMN SOWING SEASON IN ANKARA

Abstract
Brassica nigra is an economically important species that is used as a spice and industrial seed oil. This study was conducted to compare the phenology, morphology, and yield performance of three black mustard pure lines during 2020-21 under autumn sowing conditions in semi-arid climatic conditions in Ankara, Turkey. The black mustard pure lines used in this study were selected from black mustard genotypes obtained from the USDA gene bank and collected from diverse ecologies of Turkey. The experiment was performed in a randomized block experimental design with three replications. The results indicated statistical significance for plant height, number of branches, number of capsules, number of seeds, 1000-seed weight, seed yield, crude oil percentage, and crude oil yield of black mustard pure lines. No difference was detected between black mustard pure lines in terms of emergence time, 4-6 leaf rosette stage time, 50% flowering time, 50% encapsulation time and harvesting time. The maximum seed yield (1632.50 kg ha^{-1}) and crude oil yield (444.58 kg ha^{-1}) were determined from the Bn5. These results suggested that these lines may be evaluated in further breeding programmes to develop new varieties suitable for the spice and energy industries.
Keywords: *Brassica nigra* L., Phenology, Morphology, Seed and Crude Oil Yield

INTRODUCTION

B. nigra L. (family *Brassicaceae* or *Crucifereae*) is an economically valuable annual plant that is a raw material for the spice and biodiesel industries (Kayacetin, 2020a). Previous studies show that *B. nigra* (black mustard) can be grown in autumn and spring in Ankara (Kayacetin, 2019; Kayacetin et al., 2022). Previous studies detected that *B. nigra* genotypes can be grown during autumn and spring in Ankara, Turkey. But it was determined that higher yield and quality were obtained from the autumn sowing of *B. nigra* (Kayacetin, 2019; Kayacetin et al., 2022).

With a 20-30% oil content, the black mustard seeds has the potential to be an important source of spice and energy (Kayacetin, 2019). Among black, brown, and yellow mustards, black mustard has the sharpest taste in terms of spice use, while brown mustard is used in making Dijon mustard (Palle-Reisch et al., 2013). There are a limited number of studies in Turkey on the use of local genotypes as spices and for the biodiesel industry (Kayacetin, 2021). Breeding this species and bringing it into agriculture is important for the protection, recording and evaluation of Turkey's genetic resources. The fatty acids of this species are considered non-edible oils due to the high content (30-40%) of erucic acid (C22:1) and are considered potential low-cost sources for biodiesel production (Kayacetin et al., 2021; Rezania et al., 2022).

Differences among genotypes of different species may also cause differences in the adaptation of plants to certain environments, resulting in variable responses depending on different genotypes (Nowosad et al., 2016). Some researchers have studied a considerable number of *Brassica* species and examined the responses of species under similar and/or different climatic conditions (Katche et al., 2019; Kayacetin, 2019). Responses of genotypes from different species could be similar or different depending on genotypic and environmental conditions (Bocianowski et al., 2019; Tariq et al., 2020). The more genotypes studied, the more different results were detected (Kayacetin et al., 2022). The seed and crude oil yield per unit are among the most important characteristics that determine the production efficiency of any oilseed plant. Sometimes certain genotypes may not show different phenotypic traits and yield performance under changing environmental conditions.

This study aimed to compare the phenology, morphology, and yield performance of three black mustard pure lines during 2020-21 under autumn sown conditions in semi-arid climatic conditions of Ankara, Turkey.

1. MATERIALS and METHODS

2.1. Experimental location, climate and soil traits

The experiment was carried out in the 2020-21 autumn growing season at the trial area of the Field Crops Central Research Institute (1050 m altitude). The average monthly total precipitation, minimum, and maximum temperatures were recorded during the autumn growing seasons for the long term and 2020-21 (Figure 1). When the long term (21 years) and experimental year climate data were evaluated, the total rainfall was 391.9 and 273.6 mm, respectively; the minimum temperature was -17.9 and -15.30 °C, respectively; and the maximum temperature was 40.4 and 37.9, respectively. The soil analysis results at a depth of 0-20 cm demonstrated low organic matter (1.97%), mild alkalinity (pH 7.7), limey (30%), and clay-loam soils during the year (Kayacetin, 2023a).

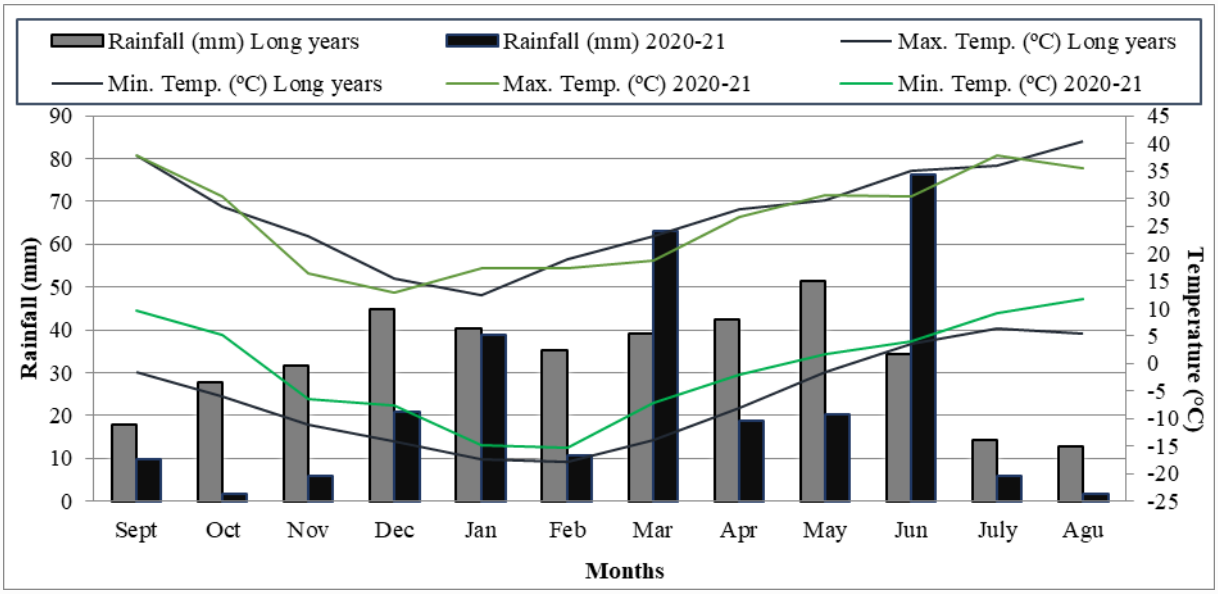


Figure 1. Some meteorological data about the vegetation period (September to August)

2.2.Experiment material and experimental design

The study used three *B. nigra* lines as material. This selection consisted of mustard genotypes collected from different locations in Turkey and the USDA gene bank. The pure lines used in the study were characterized by the Ankara Field Crops Central Research Institute and

developed with the "Pure Line Selection Method". The experiment consisted of a randomized complete-block design with three replicates. The seedling sowing was done at 200 seeds per m^2 and at a depth of 2-3 cm. Each parcel consisted of 6 rows with 30 cm row spacing; the parcel length and size were 6 m and 10.8 m^2, respectively. Nitrogen, phosphorus, and sulfur fertilizers were used at rates of 35, 50, and 100 kg ha^{-1}, respectively (Franzen and Lukack, 2007; Grant et al., 2007). Both phosphorus and sulfur were applied before sowing. The total nitrogen was measured at the sowing time and rosette stage.

2.3.Studied traits

The vegetative and generative growth observations were taken at the beginning and end of respective developmental stages. The phenotypic observations were made, including the time between emergence and sowing (d), the time between the 4-6 leaf rosette stage and emergence (d), the time between 50% flowering and emergence (vegetative growth stage) (d), and the time between 50% encapsulation and emergence (generative growth stage) (d).In addition, traits like plant height (cm), number of branches (branch $plant^{-1}$), number of capsules per plant (capsule $plant^{-1}$), number of seeds per capsule (seed $capsule^{-1}$), 1000-seed weight (g), and yield (seed yield and oil yield) (kg ha^{-1}) were determined (Kayacetin, 2019). The seed yield (kg ha^{-1}), crude oil percentage, and crude oil yield (kg ha^{-1}) were also calculated from the plants harvested from each parcel during the seed maturation period. The crude oil percentage (%) was determined in the laboratory of DB Agricultural Energy, Izmir. In accordance with ISO 734-1, the seeds were ground and then oil extracted with n-hexane in a Soxhlet extractor for 4 hours (Matthäus and Bruhl, 2001).

Statistical analyses: The data about morphological and yield traits were analyzed using ANOVA from the JMP statistical software. The significant differences among the mean values were compared with the LSD test ($p < 0.01$) (Kalayci, 2005).

2. RESULTS and DISCUSSION

Brassica nigra genotypes were sown on September 25, 2020. There was insufficient rain from September to mid-October, therefore irrigation was done during this period to ensure seed germination and emergence. The data about phenological observations are given in Table 1.

Statistically similar phenological observations were noted among the pure lines. The days to emergence, days to 4-6 leaves rosette stage, days to 50% flowering, days to 50% encapsulation and days to harvest of lines were noted as 64 d, 48 d, 171 d, 229 d, and 255 d, respectively (Table 1). The genetic structures of the lines did not differ in terms of phenological observations due to the influence of environmental conditions (Kayacetin, 2023).

Table 1. The phenological observations of black mustard lines

Genotype	Days/date to emergence	Days/date to 4-6 leaves rosette stage	Days/date to 50% flowering	Days/date to 50% encapsulation	Days/date to harvest
Bn2/Bn5/Bn6	64 d 28.11.2020	48 d 15.01.2021	171 d 18.04.2021	229 d 15.05.2021	255 d 10.08.2021

The plant height, number of branches, number of capsules, number of seeds, 1000-seed weight, crude oil percentage, seed and crude oil yield results showed significant differences among pure lines ($p < 0.01$) (Table 2).

Table 2. The morphological measurements of black mustard pure lines

		Plant height (cm)	Number of branches (branch plant^{-1})	Number of capsules (capsule plant^{-1})	Number of seeds (seed capsule^{-1})	1000-seed weight (g)	Seed yield (kg ha^{-1})	Crude oil percentage (%)	Crude oil yield (kg ha^{-1})
Bn2 (Turkey)		193.53a	12.33a	371.83ab	8.97b	0.64a	1573.50b	26.90b	423.26b
Bn5 (Ankara)		189.27a	12.47a	404.17a	9.07a	0.64a	1632.50a	27.23b	444.58a
Bn6 (Turkey)		183.07b	10.00b	268.83b	8.43c	0.62b	1466.50c	28.60a	419.32b
Source of variation	df								
F_G	2		**	**	**	**	**	**	**
LSD (0.01)		2.78							

** significant at $p < 0.01$

While the maximum plant height was determined as 193.53 cm in the Bn2 line, the minimum plant height was 183.07 cm in the Bn6 line. The maximum and minimum number of branches (12.47 branch plant^{-1}) were noted on the Bn6 line. The number of branches is an important

criterion that has a positive effect on yield. The maximum number of capsules was determined to be 404.17 capsules plant^{-1} on the Bn5 line while the minimum number of capsules was determined to be 268.83 capsule plant^{-1} on the Bn6 line. A small but statistically significant difference was detected among the lines in terms of 1000-seed weight. The 1000-seed weight of the lines varied between 0.64 g and 0.62 g. The maximum seed yield was obtained with 1632.50 kg ha^{-1} from the Bn5 line while the minimum seed yield of 1466.50 kg ha^{-1} was obtained from the Bn6 line. The maximum crude oil percentage obtained was 28.60% from the Bn6 line whereas at minimum crude oil percentage of 26.90% was obtained from the Bn2 line. The maximum and minimum crude oil yields of 444.58 kg ha^{-1} were obtained from the Bn5 line and 419.3 kg ha^{-1} from Bn6 line. Crude oil yield is an interaction of crude oil percentage and seed yield per hectare. Though the Bn2 and Bn6 lines showed lower performance than the oil yield of Bn5, the results showed that morphological traits show great differences due to the genetic characteristics of the lines (Shekhawat *et al., 2*012; Gizlenci, 2017). The differences in mophological traits for lines may be due to changable adaptation and genetic potential (Yousaf et al., 2013; Kayacetin, 2020b). Detecting significant differences in the crude oil percentage and yield of lines is also important for future breeding studies (Chauhan *et al., 2*010; Vedna *et al., 2*010; Mndolwa *et al., 2*019). The results showed that the differences determined in terms of yield and morphological traits among the lines in this study are consistent with the findings of Gizlenci, (2017), and Gunasekera *et al.* (2006).

CONCLUSION

The *Brassica nigra* lines used in the study were grown during the autumn under semi-arid climatic and rainfed ecological conditions of Ankara, Turkey during 2020-21. According to the results, significant differences were determined between *B. nigra* pure lines in terms of growth, development and yield. The maximum seed (163.50 kg ha^{-1}) and crude oil yield (444.58 kg ha^{-1}) detected from the Bn5 line. Although these three *B. nigra* lines are promising with their growth, development, adaptation, yield and quality, especially the Bn5 line can be evaluated for further breeding studies.

CONFLICT OF INTEREST

The authors declare that there is no conflict of interest.

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