



18th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES



EDITORS

Prof. Dr. Tolga KARAKÖY
Prof. Dr. Ercan CEYHAN

CONFERENCE PROCEEDINGS BOOK

**18th INTERNATIONAL CONFERENCE ON ENGINEERING &
NATURAL SCIENCES**

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adopted by Mariam Rasulan

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**18th INTERNATIONAL CONFERENCE ON ENGINEERING &
NATURAL SCIENCES**

**18th INTERNATIONAL CONFERENCE ON ENGINEERING &
NATURAL SCIENCES**

**November 27-29, 2025
Kyrenia, TRNC**

PROCEEDINGS BOOK

(Abstracts & Full Texts)

EDITOR

**Prof. Dr. Tolga KARAKÖY
Prof. Dr. Ercan CEYHAN**

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18th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES

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, Albania, Algeria, Azerbaijan, Bangladesh, Bulgaria, Ethiopia, Georgia, India, Indonesia, Iran, Kazakhstan, Malaysia, Morocco, Nigeria, Pakistan, Philippines, Saudi Arabia, Slovenia, Sri Lanka, Uganda, Ukraine

TOTAL ACCEPTED ARTICLES: 306

The Number of Accepted Papers from Türkiye: 179

The Number of Accepted Full Papers from Other Countries: 214

The Number of Total Papers: 393

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18th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES

November 27-29, 2025 / Kyrenia, TRNC

CONGRESS PROGRAM

Online (with Video Conference) Presentation

Meeting ID: 929 9691 8209 / Passcode: 272829

<https://zoom.us/j/92996918209?pwd=zglIR6LH5JbLaMUMAHOHvAIEfxmRx1.1>



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- Moderator is responsible for ensuring the smooth running of the presentation, managing the group discussion and dynamics.
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-Opening Ceremony-

Kyrenia Local Time: 09:30-09:50
Veue: The Olive Tree Hotel Meeting Room

Dr. Öğr. Üyesi Yeter ÇİLESİZ
(Sivas Science and Technology University)
CONFERENCE COORDINATOR

Prof. Dr. Tolga KARAKÖY
(Sivas Science and Technology University)
CONFERENCE CO-CHAIR

Prof. Dr. Ercan CEYHAN
(Konya Selçuk University)
CONFERENCE CO-CHAIR

-Coffee Break-

Kyrenia Local Time: 09:50-10:00

28.11.2025

Kyrenia Local Time: 10:00-12:00

(All speakers required to be connected to the session 15 min before the session starts)

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IN-PERSON SESSION**Veue: The Olive Tree Hotel****HALL-1****MODERATOR: Hatice BEKÇİ**

AUTHOR	AFFILIATION	ABSTRACT TITLE
Yeşim Sağlam Özkan Yeliz Kara Ali Berkan Bektaş	<i>Bursa Uludağ University</i>	On Neighborhood-Based Topological Indices In Quantitative Structure–Activity Relationship Analysis Of Some Fda-Approved Anticancer Agents
Chukwudi Gracious Maduka	<i>Cyprus International University</i>	Lightweight Machine Learning For Ddos Attack Detection In Resource-Constrained Smart Home Environments: A Hybrid Approach Using Feature Selection And Comparative Model Analysis
İrem Küçüköğlü Niyazi Ugur Kockal	<i>Alanya Alaaddin Keykubat University</i>	An Approach On The Distributed Load Deflection Of A Defined Material By Using Hermite Polynomials
Niyazi Ugur Kockal Alp Cesur	<i>Akdeniz Üniversitesi</i>	Effect Of Gamma Rays Applied To Polymer Modified Mortars On Physico-Mechanical Properties
Suha Orçun Mert Ali Ayazseven	<i>İskenderun Teknik University</i>	Comparison Of Discharge Analysis Of Supercapacitor And Lithium Polymer Batteries Under Constant Load In Terms Of Efficiency
Aslı Kaçar Zekiye Erdoğan Gökhan Erdoğan Baran Aslan Aylin Kabaş İbrahim Çelik Selman Uluşık	<i>Akdeniz University</i>	Assessment Of Tetranychus Urticae Tolerance In Tomato Lines Derived From Solanum Pennellii (LA0716)
Ayşen Bulancak Mikail Baylan	<i>Cyprus International University</i>	The Effects Of Climate Change On Poultry Production And Solutions
Yasemin Gümüştas Mikail Baylan Aziz Gül	<i>Çukurova University</i>	Determination Of Lithium Chloride Residue Levels In Honey Used For The Control Of Varroa Destructor In Honeybees (Apis Mellifera)
Hatice Bekci	<i>Kayseri University</i>	Biological Activities Of Vinegars
Tolga Karaköy Ömer Sözen Yeter Çilesiz	<i>Sivas University Of Science And Technology</i>	Assessment Of Morphological Adaptation Traits Of Selected Bread Wheat Genotypes Under Changing Climatic Conditions In Sivas

28.11.2025

Kyrenia Local Time: 10:00-12:00

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IN-PERSON SESSION**Veue: The Olive Tree Hotel****HALL-2****MODERATOR: Yeliz KARA**

AUTHOR	AFFILITION	ABSTRACT TITLE
Yeliz Kara Yeşim Sağlam Özkan Ali Berkan Bektaş	<i>Bursa Uludağ University</i>	Qspr Analysis Of Anticancer Compounds Using Neighborhood Sombor And Related Topological Indices
Ali Keleş	<i>Yüzüncü Yıl University</i>	Some Edible Macrofungi Detected In Van Yüzüncü Yıl University Campus And Surrounding Area (Van, Turkey)
Mehmet Arif Saltan Alperen Aykun Volkan Soylu Doğukan Korucu Melih Turan Sevindik Mustafa Bekir Acar	<i>National Defence University</i>	Investigation Of The Combustion Efficiency Of A Natural Gas-Hydrogen Mixture In A Combustion Chamber Using Computational Fluid Dynamics
Muhammet Ali Gündeşli Murat Manav	<i>Kahramanmaraş İstiklal University</i>	Active Compound Losses And Alterations In Drug Preparation From Medicinal Plants: Causes And Prevention Strategies
Muhammet Ali Gündeşli	<i>Kahramanmaraş İstiklal University</i>	Quality Control Parameters And Standards In The Drug Preparation Process Of Medicinal Plants
Nurten Yılmaz Fatih Özoğul	<i>Cukurova University</i>	Postbiotic Organic Acids Produced By Food- And Seafood-Isolated Lab Strains: Chemistry, Functional Roles, And Health Implications
Elif Dağgeçen Çoskun Nurten Yılmaz Uğur Zülkadir Erdal Kuşvuran	<i>Cukurova University</i>	Antibiotic Resistance In Seafood-Derived Probiotic Strains: Mechanisms, Prevalence, And Safety Implications
Sertan Denizli Ezgi Yılmaz Göç	<i>Brisa Bridgestone Sabancı Tyre Manufacturing And Trading Inc.</i>	Optimization Of Lead Lug Ratio For Enhanced Traction And Wear Performance In Agricultural Vehicles
Oğuzhan Uygurlu Ezgi Yılmaz Göç	<i>Brisa Bridgestone Sabancı Tyre Manufacturing And Trading Inc.</i>	Relationship Of Rrc-Temperature-Speed On Truck And Bus Tires (22.5 Sizes)
Suat Vardar Turgut Tüzün Onay	<i>Boğaziçi University</i>	Investigation Of Microplastic Presence In Tap Waters In Istanbul
Emine Balı Selda Uzal Seyfi	<i>Selçuk University</i>	Evaluation Of General Characteristics Of Greenhouse Enterprises In Central Districts Of Adana Province
Yasemin Kocaman Selda Uzal Seyfi	<i>Selçuk University</i>	Contruction Of A Carbon Emission Density Map For Layer Hens Farms In Konya Province And Its Districts Via The Tier 1 Methodology

ONLINE SESSIONS

27.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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SESSION-1, HALL-1 / OTURUM-1, SALON-1**MODERATOR: Fatma Yıldız****Meeting ID: 929 9691 8209**
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Mine Kılıç Birsel Demirel Gül Eda Kılınç	<i>Ondokuz Mayıs University</i>	The Role Of Phase Angle In Nutritional Status Assessment
Perihan Kızılkaya Birsel Demirel Gül Eda Kılınç	<i>Ondokuz Mayıs University</i>	Irritable Bowel Syndrome And Nutrition: Evidence-Based Approaches From Diagnosis To Treatment
Gizem Yılmaz Semra Alkan Türkuçar	<i>Alanya Alaaddin Keykubat University</i>	Investigation Of Cytotoxic And Apoptotic Effects Of Alchemilla Caucasica Buser Extracts On Human Mcf-7 Cell Line
Fatma Yıldız	<i>Alanya Alaaddin Keykubat University</i>	Neuroprotective Effect Of A Novel Benzimidazolium Derivative: An Approach Through Dnmt-Mediated Epigenetic Regulation
Şebnem Kuşvuran Fathia Mohamed Ali	<i>Çankırı Karatekin University</i>	Effects Of Nano-Silicon On Germination And Seedling Development Of Melon Genotypes Under Salt Stress
Şebnem Kuşvuran Fathia Mohamed Ali	<i>Çankırı Karatekin University</i>	Effects Of Nano-Silicon Applications On Growth, Yield, And Fruit Quality In Tomato (Solanum Lycopersicum L.) Under Salt Stress Conditions

27.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

(All speakers required to be connected to the session 15 min before the session starts)

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AUTHOR	AFFILITION	ABSTRACT TITLE
Muhammet Melih Memiş	<i>Çankırı Karatekin University</i>	Turbocharger System Radial Compressor Impeller Design
Ali Umut Şen	<i>Izmir Institute Of Technology</i>	Advanced Kinetic Modeling Of Bark Pyrolysis Using Distributed Activation Energy Models
Mert Ökten	<i>Manisa Celal Bayar University</i>	Integrated Assessment Of Photovoltaic, Reverse Osmosis, And Seawater Heat Pump Systems In The Context Of Energy And Water Sustainability: A Case Study For The Turkish Republic Of Northern Cyprus
Filiz Senyuzluler Adil Baykasoglu	<i>Dokuz Eylül University</i>	Toward An Uncertainty-Tolerant Electric Vehicle Recommendation System Via Weighted Axiomatic Design
Sena Yaşar Yusuf Özçatalbaş	<i>Gazi University</i>	Failures And Prevention Methods In Welded Joints Of Construction Machinery
Güven Nergiz K. Turgut Gürsel	<i>Dokuz Eylül University</i>	Coastal And Offshore Wind Turbine Types And Modelling
Oğuzhan Yılmaz K. Turgut Gürsel	<i>Dokuz Eylül University</i>	Analysis Of High-Speed Planning Boat Forms In Terms Of Step Design

27.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Laila Ouardi Hasna Zinelabidine Abdelmajid Haddioui Hassane Boudad Abdelghani Bouchyoua Jamal Charafi	<i>University Of Sultan Moulay Slimane</i>	Cold Stress Responses In Grapevine: Comparative Morphophysiological And Biochemical Traits Of Three Cultivars
Sadiq M.S. Singh I.P. Ahmad M.M. Sani B.S.	<i>Federal University Dutse</i>	Digitalization And The New Semiotics Of Branding
Mokesh Velraj	<i>R.M.K. Engineering College</i>	Intelligent Solar Power Forecasting Using Hybrid Cnn-Lstm Architecture: An Iot-Enabled Embedded Systems Approach
R. Devadharshini W. Helen	<i>Bharath Institute Of Higher Education And Research</i>	Artificial Organs And 3d Bioprinting
Masudul Islam Khan Shajmin Akter	<i>Daffodil International University</i>	Mechanisms and Therapeutic Applications of the Antifungal Activity of Tea Tree Oil: A Comprehensive Review
Bilal Shah Dicky Muslim Raden Irvan Sophian	<i>Universitas Padjadjaran</i>	Geomechanics Of Andesitic Rock Units In The Gunung Geulis Area, Sumedang Regency, Indonesia
Mohamed Kadour Atouailaa Bader Boukili Arif Ahmed Abdelkhalk Aboulouard Mustapha Boulghalat Mohammed El Idrissi	<i>Sultan Moulay Slimane University</i>	Surveying Novel Pyrazine Acceptor Materials For Bulk Heterojunction Solar Cells: Computational Insights Into Photovoltaic Performance
Umma Nourin Sawon Nahidul Islam Hasan Samrat Hasibul Islam Shishir Al-Amin Sarker Jannatul Ferdoushi	<i>Iubat—International University Of Business Agriculture And Technology</i>	Predicting Air Quality: Machine Learning (ML) Models For Pm2.5 Concentrations In Delhi, India

27.11.2025

Kyrenia Local Time: 09:00-11:00

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Arulmozhi M Aishwarya S Bhavana B Deepika R Dhanvanthari S Vijayalakshmi A	<i>R.M.K. Engineering College</i>	Sort Smart: The Power Of Waste Segregation
Devesh R Dharsan G Immanuvel M Jai Shyam S Janaardan S Vijayalakshmi A	<i>R.M.K. Engineering College</i>	Smart Grids And Renewable Energy Integration
Bairi Mani Ganesh Abdul Reyas A Akash R Arigaran S Barani Chandran S Vijayalakshmi A	<i>R.M.K. Engineering College</i>	Pollution: A Major Barrier To Sustainable Development
Zainib Razzaq Samreen Gul Khan Fozia Anjum Ayesha Saddiqa Mehr Un Nisa	<i>Government College University</i>	Novel 1,3,4-Oxadiazole Carbamothioates As Anticonvulsant Agents: From Synthesis And Molecular Docking To Electrophysiological Validation
Mohamed Bakır Abdelkader Youssefi Rachid Dakır Mouna El Wafi Younes El Koudia	<i>Hassan First University</i>	Intelligent Highway Lane Changes: Enhancing Safety And Comfort Through Predictive Sensor Fusion And Trajectory Optimization
Milos Rabrenovic Monika Stojanova	<i>Montenegro Dance Sport Federation</i>	Dance As Athletic Performance: The Role Of Functional Food In Enhancing Dancer Health And Nutrition
Sowjanya D Sharada S	<i>Jawaharlal Nehru Technological University</i>	Process Intensification By Continuous Flow Microreactor For The Synthesis Of Sno 2 Nanoparticles Using Natural Reducing Agent

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Meeting ID: 929 9691 8209
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AUTHOR	AFFILIATION	ABSTRACT TITLE
Kareena Saini Seema Rathee Jitender Kumar	<i>Mdu</i>	The Role Of Emotional Intelligence Training In Managerial Effectiveness
Ayesha Zulfiqar Farhana Naz Maryam Usman	<i>Lahore College For Women University</i>	Sustainable Retail Environments: A Design-Based Exploration Of Zero-Waste Grocery Stores
V. Ranjani R. Srinivasan R. Saravanan R. Devi N. Jayaramakani	<i>Bharath Institute Of Higher Education And Research</i>	Design And Development Of Oral Controlled Release Systems For Sustained Drug Delivery
Sunday Olorunlogbon Olorunnipa	<i>Quintessential College</i>	Assessing The Challenges And Consequences Of Executive Leadership Without Organizational Literacy: A Focus On Ceos From Non-Managerial Disciplines
Elza Bitsadze	<i>Akaki Tsereteli State University</i>	Intelligent Algorithms In Databases For Automated Decision-Making
Balasubramanian Chinnappan Kareemullah Hakim Noorullah Khan	<i>B.S.A Crescent Institute Of Science And Technology</i>	A Secure And Resilient Edge-Block-Chain Neural Network System For Industrial Pollution Monitoring Under Gprs Outages
Konok Chandro Roy M. Riju Khandaker M.N.H. Liton M.M. Rahman M.S.I. Sarker M.K.R. Khan	<i>University of Rajshahi</i>	Synthesis and Characterization of Li ₂ ZnSnO ₄ by Sol-Gel Method and First Principals Study
Shajib Shahrear Rajibul Akanda Foysal Hasan M. Aminul Haque	<i>Jagannath University</i>	A Comprehensive Investigation On Eggshell Powder As Natural Adsorbent For Methyl Orange Dye Removal: A Study Of Kinetics, Isotherm And Thermodynamics
Zaara Nabil Dahmani Jamila Skalli SouadAKTER Doui Allal	<i>Tofail University</i>	Influence of climatic factors and cropping system on the agronomic characteristics of olives (<i>Olea Europaea</i> L.) of the Moroccan Picholine variety cultivated in the olive-growing regions of Morocco

27.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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Passcode: 272829

AUTHOR	AFFILITION	ABSTRACT TITLE
Nalan Türköz Karakullukçu	<i>Ondokuz Mayıs University</i>	Investigation Of The Effects Of Rubus Anatolicus Focke Extract On The Oxidative And Thermal Stability Of Biodiesel–Diesel Blends Using Gc–Ms And Dsc
Erdal Kocasüleyman Dursun Ekren	<i>Iskenderun Technical University</i>	Structural And Optical Properties Of Barium Doped Lanthanum Molybdate
Hatice Çiçekçi	<i>Epsan Plastik</i>	Development Of Hydrolysis Resistant Pa6.6 Composite Materials With Laser Transparency Suitable For Use In The Automotive Industry
Zeynep Sıla Tırpancı	<i>Epsan Plastik</i>	Production Of Custom-Colored Pbt/Rpet Blends Suitable For Electrical And Electronic Applications
Safarova Terane Qasim Rahimova Konul Elbrus	<i>Azerbaijan State University</i>	Integration Of Structurally Diverse Fibrous Elements And Polymeric Matrices In The Development Of Composite Materials
Safarova Terane Qasim	<i>Azerbaijan State University</i>	The Structure And Fabrication Method Of A Wear-Resistant Textile Incorporating Multilayer And Layered-Frame Interlacing Elements
Osman Özdemir Servet Soygüder	<i>Ankara Yıldırım Beyazıt University</i>	Field-Oriented Application Of Acoustic Emission For Early Crack Detection In Welded Steel Structures
Özlem Karabiber Cura Mehmet Göktuğ Efgan	<i>Izmir Katip Celebi University</i>	Development Of A Deep Learning Model To Identify Tibia Plateau Fractures On X-Ray Images
Özlem Karabiber Cura	<i>Izmir Katip Celebi University</i>	Schizophrenia Detection From Eeg: A Deep Learning And Brain Connectivity Approach

27.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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[exp. Hall 1, Samet Kuşkıran](#)**SESSION-2, HALL-2 / OTURUM-2, SALON-2****MODERATOR: Muhammed Tatar****Meeting ID: 929 9691 8209**
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Amjad Ali Muhammed Tatar	<i>Sivas University Of Science And Technology</i>	Crispr-Based Genome Editing Strategies For Sustainable And Precise Control Of Fungal, Bacterial, Viral, And Nematode Plant Pathogens
Muhammed Tatar Amjad Ali	<i>Sivas University Of Science And Technology</i>	Biogenic Nanoparticles For Sustainable Enhancement Of Plant Growth: Mechanisms, Applications, And Future Prospects
Behcet Pusmak Hakkı Dereli	<i>Izmir Katip Çelebi University</i>	Determination Of Fishing Effort And Catch Per Unit Effort (Cpue) Based On Fishing Gear In Demirköprü Dam Lake Fishery
Zehra Bozkurt Taha Elçarpar	<i>Afyon Kocatepe University</i>	Assessment Of Leg Health And Locomotor Function In Broiler Chickens
Zehra Bozkurt Mehmet Furkan Doğan	<i>Afyon Kocatepe University</i>	The Effects Of Catching Methods On Broiler Welfare And Carcass Quality
Nesrin Çakıcı Aslı Çerezozoğlu	<i>Çanakkale Onsekiz Mart University</i>	The Hazard Of Salmonella Spp. And Shiga Toxin-Producing Escherichia Coli (Stec) In Raw Beef Samples
Nesrin Çakıcı Saliha Aydın	<i>Çanakkale Onsekiz Mart University</i>	Investigation Of The Risk Of Shiga Toxin- Producing Escherichia Coli (Stec) In Retail Cheeses Purpose
Menekşe Taş Divrik	<i>Sivas Cumhuriyet University</i>	Heavy Metal Pollution In Freshwater Ecosystems And Its Ecotoxicological Effects

27.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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[exp. Hall 1, Samet Kuşkıran](#)**SESSION-2, HALL-3 / OTURUM-2, SALON-3****MODERATOR: Etibar Vazirov**
Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Etibar Vazirov Mirmatin Seyidali	<i>Polytechnic University Of Turin</i>	Real-Time Air Quality Prediction For Azerbaijan Using Machine Learning And Open Atmospheric Data
Ahmed T. Kasim Abubakar D. Isah	<i>Federal University Of Technology Minna</i>	Integration Of Restorative Design Features In Resort Architecture In Abuja, Nigeria
Keerthana V Meenatchi S Kishore R Vaishnavi K Saravanan R	<i>Bharath Institute Of Higher Education And Research</i>	Telepharmacy And Digital Health Economics
Sobia Liaqat Anam Khan Umm Eman Syed Neelam Bibi Saba Ghayas Anam Yousaf	<i>Rawalpindi Women University</i>	Moderating Role Of Self-Concept Clarity Between Celebrity Worship And Desire For Fame Among Young Adults
Alok Kumar Shrivastav Sibam Indra Suparna Pal Basudeb Dey	<i>Jis College Of Engineering India</i>	Optimization-Based Decentralized Energy Management For Islanded Multi-Microgrid Systems With Renewable Integration
G. Nixon Samuel Vijayakumar Aishwarya. S Reshma. N Tharunikaa. P Tarnekaa. M Nivethitha. S.K Samiksha. R.K	<i>R .M .K. Engineering College</i>	Review On Planck's Quantum Theory
Farhan Rafiq Abu Bokkar Siddique	<i>Shahjalal University Of Science And Technology</i>	Spatial And Temporal Dynamics Of Par, Kd_490, And Sst In The Bangladesh Eez From 2016 To 2022
Rubaiatul Islam Zerin Kamrul Hossain Anisul Kabir Iffat Ara	<i>Islamic University</i>	Evaluating Public Health Risks Associated With Airborne Particulate Matter: A Gaussian Dispersion Modeling Of Rice Mills Emissions In Rural Bangladesh
Wafa Difallah Asma Difallah	<i>Tahri Mohammed University Of Bechar</i>	Ai And Iot Based Irrigation Management System

27.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Bakhtawar Fakhar Umm Eman Syed	Rawalpindi Women University	Role Of Empathy In The Relationship Between Pets Attachment And Mental Health Among Pet Owners
Shafiqul Islam	University Of Rajshahi	Multi-Omics Profiling Unveils Ube2c, Mcm2, Aurka, And Tp53 As Core Regulatory Hubs Of Interconnected Oncogenic Networks In Women's Breast, Ovarian, And Endometrial Cancers
Rabia Hameed Maryam Javed Aisha Zubair	Rawalpindi Women University	Silent Sights, Big Decisions: The Mediating Role Of Sense Of Agency In The Impact Of Gendered Microaggressions On Turnover Intentions Among Working Women
Saira Malik	University Of Education	Morpho-Anatomical, Physiological And Biochemical Responses Of Wheat (Triticum Aestivum L.) Varieties To Drought Stress, Rewatering, And Exogenously Application Of Copper Oxide Nanoparticles
Soufiane Ziani Driss Khattach Jamila Abderbi Zahra Zerrouqi	Mohammed 1st University	Geostatistical algorithms for evaluating groundwater quality in irrigation practices: A case study of the Guenfouda region, NE Morocco
Abderrahim Asbbane Otmene Hallouch Samira Oubannin Moussa Nid Ahmed Saïd Gharby	Ibn Zohr University	Valorization of Argan Tree: Influence of Origin, Morphology, Extraction, and Processing on the Chemical Composition and Quality of Its Various Parts
Mohammed Arifur Rahman Mojumder Sourav Hossain	Ahsanullah University of Science and Technology	Impact Of Rainfall Variability On Groundwater Recharge In Northwestern Bangladesh: A Case Study Of Rajshahi, Chapainawabganj And Noagaon
Olufunto Omodele Adeleye Esther Opeyemi Aworeni Gladys Deborah Olorunlowu Oluwatunmise Timothy Ajao Blessing Oluwatimilehin Ayandokun Oluwadara Ope Oluwasegun Yasar Olalekan Sulaiman Emmanuel Oluwagbenga Adejobi	Ladoke Akintola University of Technology	Ameliorative Role Of Syzygium Aromaticum On Behavioral Deficits, Oxidative Stress And Neuronal Apoptosis In Lead-Iron Co Exposure Induced Neurotoxicity In Harwich Strain Of Drosophila Melanogaster

27.11.2025

Kyrenia Local Time: 11:30-13:30

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Al Mahmud Suruj Qiu Xiaoping Jannatul Ferdosy Shimul Mahmud Khatami	<i>Harbin Institute of Technology</i>	Backdoor Security For Llm-Based Cybersecurity Systems: Beyond Jailbreaking To Persistent Threats
Endalamaw Yihune Amare Bitew Mekonnen Getahun Yemata	<i>Bahir Dar University</i>	Ethiopian Medicinal Plants, Phytochemical And Antioxidants: Systematic Review
Karunesh Tiwari Yosief Kasshun Hailu Danait Tesfamichael Keleta Delinael Kifleyesus Andemariam Lulia Yohannes Tesfay	<i>Mai-Nefhi College Of Science</i>	Investigation Of Saltwater Batteries As An Alternative Energy Storage Solution In Eritrea
Komal Pervaz Anam Khan Umme Eman Syed Neelam Bibi Adnan Adil Saba Ghayas	<i>Rawalpindi Women University</i>	Mediating Role Of Digital Identity Between Social Media Addiction And Self-Esteem
Alif Ali Jony Najmin Tamanna Bonna	<i>Sylhet Agricultural University</i>	Supercritical Water Gasification and Oxidation for Waste Treatment: A Systematic Review of Feedstocks, Catalysts, and Scale-Up Strategies
Ayoub Boualli Oussama Taouala Abdoullah Bimoussa Yassine Laamari Youssef Ait Itto Hamid Morjani Aziz Auhmani	<i>Laboratory of Organic Synthesis and Physico-Molecular Chemistry</i>	Novel Oxazole-Based Totarol Derivatives: Design, Hemisynthesis, Characterization, and Anticancer Evaluation
Nihal Mesmoudi Noureddine Hammani Khawla Ammouch Samir Ibenmoussa Abdellah Moustaghfir Naoual Oukkache	<i>Laboratory of Venoms and Toxins, Pasteur Institute of Morocco</i>	Hemorrhagic Activity of Cerastes cerastes and Daboia mauritanica Venoms: Indicators of Viper Bite Severity in Morocco
Minhajul Abedin	<i>Noakhali Science and Technology University</i>	Exploring the Impact of the 3 Zero Movement in Bangladesh: A Pathway to Sustainable Development

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Kyrenia Local Time: 14:00-16:00

Ankara Local Time: 15:00-17:00

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SESSION-3, HALL-1 / OTURUM-3, SALON-1**MODERATOR: Sevgi Ayhan****Meeting ID: 929 9691 8209****Passcode: 272829**

AUTHOR	AFFILITION	ABSTRACT TITLE
Hatice Çörten Uğur Özcan	Gazi University	Sentiment Analysis And Rating Prediction In E-Commerce Furniture Reviews
Nazima Sadykova Nasır Narlıoğlu	Izmir Kâtip Çelebi University	Barriers And Opportunities For Ecotourism Potential In Kazakhstan: The Case Of Katon-Karagay National Park
Sevgi Ayhan Tutku Kılınç Erarslan	Erciyes University	Assessing The Sustainability Performance Of Airline Companies Through The Merc-Based Mabac And Marcos Methods
Assemgul Ualiyeva Nasır Narlıoğlu	Izmir Kâtip Çelebi University	Ecotourism In The Steppes Of Kazakhstan: A Case Study Of Burabay National Park
Özge Büyükdeveci Adil Baykasoglu	Dokuz Eylül University	Parallel Single Seekers Society Algorithm Incorporated Machine Learning For Solving Continuous Optimization Problems
Hilal Dursun Nihan Çetin Demirel	Yıldız Technical University	Position-Based Criteria Prioritization Using The Ahp Method And Their Alignment With Belbin Team Roles: An Automotive Industry Application
Resul Harman Yılmaz Delice	Kayseri University	Hierarchical Clustering Analysis And Disaster Risk Assessment Of Hazardous Material Storage And Facilities In Istanbul Districts
Ibrahim Besen Eren Coşkun Mahmut Berkan Alisinoğlu Burak Korkut Metin Bilgin	İletişim Bilgisayar Yazılım A.Ş.	Development Of A Data-Security-Oriented, Agent-Based Intelligent Assistant For Metal Cutting Machines
Eren Coşkun Ibrahim Besen	İletişim Bilgisayar Yazılım A.Ş.	Managesql: Dynamic Sql Query Generation And Database Performance Monitoring In Mes Systems Using Local Large Language Models

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AUTHOR	AFFILITON	ABSTRACT TITLE
Nail Mammadov Davud Tarverdili Gulshan Umud Mammmadova	<i>Azerbaijan State Economy University</i>	Adaptive Boundary Penalization And Error Analysis In Physics-Informed Neural Networks
Nurcan Gücüyenlen Kaymak	<i>Doğuş University</i>	Bessel Polynomial Method For Fractional Differential Equations
Düriye Korkmaz Düzgün	<i>Ankara Hacı Bayram Veli University</i>	Jacobsthal And Jacobsthal-Lucas Differential equations
Mariam Aden Abdi Peri Güneş	<i>Gelisim Istanbul University</i>	Infrared-Based Defect Detection In Solar Panels Using Cnns
Ismet Alagöz Oğuz Taşdemir	<i>Kırşehir Ahi Evran University</i>	Short-Term Power Production Forecasting Using The Xgboost Algorithm Developed For Solar Power Plants
Tolga Kahve Aliihsan Koca	<i>Istanbul Technical University</i>	Numerical Study Of Helicopter Ditching And Capsize Behavior On Wavy Water
Furkan Kesim Aliihsan Koca	<i>Istanbul Technical University</i>	Numerical Validation Of Wall Condensation Phenomenon And Numerical Analysis Of The Helicopter Demisting Performance
Hale Günaçtı	<i>Sivas Science And Technology University</i>	Determination Of Potato Late Blight Disease Management Strategies In Çukurova Region Conditions
Hale Günaçtı	<i>Sivas Science And Technology University</i>	Fungal Diseases Of Potato (Solanum Tuberosum L.) And Integrated Disease Management Approaches

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Kyrenia Local Time: 14:00-16:00

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITION	ABSTRACT TITLE
Marina Todor Stojanova Dragutin Djukic Monika Stojanova	<i>University Of Ss.</i>	Effect Of Calcium-Based Soil And Foliar Amendments On The Chemical Composition Of ‘Cardinal’ Grapevine Leaves, Shoots, And Berries
Soukaina Ameur Ahmed Bendaoud Abdellah Zeroual	<i>ChouaïbDoukkali University</i>	Theoretical Investigation of the Regioselective Cycloaddition of [e]-Fused 4- Acyl-1H-pyrrole-2,3-diones with Cyanamides: Electronic Structure Insights, Organic Photonic Properties, ADME/Toxicity Evaluation, and Molecular Docking Analysis
Ameilia Zuliyanti Siregar Indra Rahmadi Siti Julianita Siregar	<i>University Of Sumatera Utara</i>	Application Of Variance Of Refugia To Control Rice Stem Borer (Scirpophaga Innotata) In Rice Field Plantation In Northern Sumatera, Indonesia
Sumayya Akram Matloob Ahmad Sana Aslam	<i>Government College University Faisalabad</i>	Investigating Catalytic Pathways For N-Arylated Benzimidazole
Ibrahim Sani Dikko	<i>Umaru Musa Yar'adua University Katsina</i>	Crispr-Enhanced Engineering Of T Cells For Next-Generation Cancer Immunotherapy: A Molecular And Synthetic Biology Perspective
Mouhajar Siham Youssefi Abdelkader	<i>Hassan 1 University</i>	Data-Driven Predictive Maintenance In Industry 4.0: Evaluation Of Machine Learning Models On Synthetic Data
Ziaul Haider Chowdhury Mahfuj Ahmed Sizan Osman Gani Rasel	<i>Hajee Mohammad Danesh Science And Technology University</i>	High-Resolution Drought Hotspot Mapping Using Sentinel-Based Composite Indices
Amrouche Zoheir Mohammed Bouziane Djalal Laribi-Habchi Hassiba	<i>Djilali Bounaama University Of Khemis Miliana Algeria</i>	Microstructural, Microbiological & Physicochemical Quality Of Dairy Dessert Cream At Different Conservation Temperatures
Arjeta Xheka Klementina Puto Majlinda Çuedari	<i>University Of Tirana</i>	Influence Of Covid-19 Pandemic On Antibiotic Resistance Profiles Of Proteus Mirabilis In Urinary Tract Infections: A Retrospective Analysis

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Adel Deliou Takieddine Bouklia Samir Djimli Mohamed Kemiha Meriem Dehbi Sofiane Boulkroune Abdelkader Fidjah	<i>University Of Umsb Of Jijel</i>	Mechanical Behaviours Of Symmetric Unidirectionnal Composites Laminated E-Glass/Epoxy
Derra Mourad	<i>Ibn Zohr University</i>	Estimation Of The State Of Charge And Health Of A Lithium-Polymer Battery Using Ultrasonic Technology
Mahamudur Rahman	<i>Eco Design Consultants Bangladesh (Edcbd)</i>	Decarbonizing Our Environment: Advancing Sustainable Development Through Policies And Strategies
Saleh Ahmed Sohel Rana Maimuna Akter Koli	<i>Bangladesh Agricultural University</i>	Reducing Post-Harvest Losses: Botanical Control of Angoumois Grain Moth in Rice
Saida Es-Sanhajy	<i>Moulay Ismail University</i>	Investigation of the Thermoelectric Properties of Two-Dimensional Janus Materials
Y. Navyasree S. Sharada	<i>Jntua College Of Engineering</i>	Extraction Of Pectin Biopolymer From Jackfruit Peel: A Review
A. H. Dadum S.O. Ayo-Odifiri W. G. Brisibe A. Ebekozen C. Aigbavboa I.H. Dadum	<i>Gombe State University</i>	Feasibility of using rice straw bale as a walling material for sustainable and affordable low income mass housing in Gombe metropolis, Nigeria
A.H. Dadum U.M. Bashir A.K. Sarkile A.Y. Muhammad A.B. Shaba M. Chukwuma-Uchegbu S. Umar A.Y. Shinga A.I. Alkali G.H. Malachi	<i>Gombe State University</i>	Unmasking The Margins: A Bibliometric Analysis Of Geographical Bias In Afrocentric Architectural Research And Pathways To Pan-African Equity
Mohammed Denzira Ali Barhoumi Abdelmalek Matine El Mostafa Benharaf Brahim Lizoul Said Esskali Zidane Zohra Abdessamad Tounsi Mohammed El Idrissi	<i>Sultan Moulay Slimane University</i>	Dft-Guided Analysis Of Regio- And Stereoselectivity In The Hydroboration-Oxidation Of A-Trans-Himachalene

27.11.2025

Kyrenia Local Time: 14:00-16:00

Ankara Local Time: 15:00-17:00

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exp. Hall 1, Samet Kuşkıran**SESSION-3, HALL-5 / OTURUM-3, SALON-5****MODERATOR: Fatih Topaloğlu****Meeting ID: 929 9691 8209****Passcode: 272829**

AUTHOR	AFFILITATION	ABSTRACT TITLE
Atakan Sarioğlu Emre Isa Albak	<i>Bursa Uludağ University</i>	Analysis Of Static Balance Status In Commercial Tires
Fatih Özyurt Esra Yüzgeç Özdemir	<i>Firat University</i>	Deep Learning-Based Detection and Tracking of Sunn Pest Damage on Wheat Grains Using YOLO and MOT
Fatih Özyurt Canan Koç Esra Yüzgeç Özdemir	<i>Firat University</i>	Vitenet: A Novel Approach For Classifying Galaxy Morphology
Mustafa Kirtay Betül Uzbaş	<i>Konya Technical University</i>	Comparison Of Filter-Based Feature Selection Methods In Breast Cancer Diagnosis Using Machine Learning
Fatih Topaloğlu	<i>Malatya Turgut Ozal University</i>	Design Of An Artificial Neural Network-Based Decision Support System For Forensic Informatics Applications
Bahadır Bozkurt Tarık Talan	<i>Gaziantep Islam Science And Technology University</i>	Comparative Analysis Of Traditional Machine Learning And Deep Learning Models In Language Identification Problems
Ayşe Tekin Mehmet Kürşat Öksüz	<i>Erzincan Binali Yıldırım University</i>	Multimodal Emotion Analysis Based On Early Fusion Using Deep Learning Methods
Burak Kurşun Mehmet Arif Saltan	<i>National Defence University</i>	Numerical Investigation Of The Effect Of Inside Pipe Geometry On Energy Storage Characteristics In Double Pipe Energy Storage With Phase Change Material (Pcm)

28.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Raziye Koçak Özden Salman	<i>Selçuk University</i>	Chemical Composition And Antimicrobial Potential Of Cupressus Species Essential Oils Against Plant Pathogens
Emine Kaya Altop Sine Kaya	<i>Ondokuz Mayıs University</i>	Weed Management In Regenerative And Organic Agriculture
Emine Kaya Altop Sine Kaya	<i>Ondokuz Mayıs University</i>	Integrated Policy Approaches For Sustainable Weed And Plant Disease Management
Yusuf Yerlikaya Nurinisa Esenbuğa	<i>Atatürk University</i>	Evaluation Of Socio-Demographic Characteristics And Feeding Practices Of Small Ruminant Farms In Erzurum Province
Nihat Atilla Nurinisa Esenbuğa	<i>Atatürk University</i>	Current Status And Development Opportunities Of Dairy Cattle Enterprises In Kars Province
Achmad Haris Christine Wulandari Ariyadi Agustiono Slamet Budi Yuwono	<i>University Of Lampung</i>	The Role Of Upstream Community Knowledge In Supporting The Sustainability Of Water Ecosystem Service Conservation In The Way Sekampung Sub-Watershed
Niger Sultana Refath Islam K. M. Ariful Kabir	<i>Bangladesh University Of Engineering And Technology</i>	Exploring Cooperation In Asymmetric Dyadic Games Through Spatial Monte Carlo Simulations And Network Structures
Brahim Lejdel	<i>University Of El-Oued</i>	Optimizing Agricultural Sustainability Through Artificial Intelligence And Big Data
Borshon Karmoker Pranto Shovon Shaha Tanvir Ahmmed Sadiatul Keya Zakariya Alam Bappi Shahriar Mahmud Rimon Minhajul Abedin Nilufa Akhter Banu Rezuanul Islam Mohammad Abu Hena Mostofa Jamal	<i>Islamic University</i>	Microbial Fuel Cell-Driven Evaluation of Exoelectrogen from Municipal Wastewater for Electricity Generation and Bioremediation

28.11.2025

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Ankara Local Time: 10:00-12:00

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Passcode: 272829

AUTHOR	AFFILITION	ABSTRACT TITLE
Ibrahim Halil Deger	<i>Hasan Kalyoncu University</i>	Comparative Analysis Of Meteorological Drought By Drought Indices And Trend Techniques: The Case Of Izmir
Salah Hajismail Mouhamad Souhaib Toulaimat	<i>Ankara Yıldırım Beyazıt University</i>	Transitional Shelter Strategies For Post-Conflict Syria: Toward A National Framework For Resettlement And Recovery
Yavuz Delice Izzet Onur Berber	<i>Yalova University</i>	Analysis Of Fire Safety In Metro Stations Using Pedestrian Simulation And Design Recommendations
Sadık Varolgüneş Abdulhalim Karaşin	<i>Bingöl University</i>	Comparative Analysis Of Rapid Assessment Approaches For Residential Buildings In Bingöl
Sadık Varolgüneş	<i>Bingöl University</i>	Pathology Of Non-Seismic Progressive Collapses In Türkiye: A Case Catalog Analysis (1983–2025)
Ahmet Fazıl Kara Muhammed Alperen Özdemir Ferit Çakır	<i>Gebze Technical University</i>	Determination Of Lime-Based Mortar Elastic Modulus After Elevated Temperature
Emel Zeraý Öztürk Hilal Şimşek	<i>Konya Technical University</i>	Comparative Analysis Of Modern Satellite-Derived Gravity Models With The Egm2008 Reference Model
Gizem Gül Katırcıoğlu Ebru Kavak Akpınar	<i>Fırat University</i>	Experimental Investigation Of The Effect Of Contamination On Pv Panel Surface Performance

28.11.2025

Kyrenia Local Time: 09:00-11:00

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Saiful Islam	<i>Zhongyuan University Of Technology</i>	Sentiment Analysis Of Public Opinion Texts Based On Large Language Model
Mohammed Imam Tawseef Ahmad Ch.Sunil Kumar R.Kanimozhi	<i>Bharat Institute Of Engineering And Technology</i>	Video Analyzer
Samiul Bashir Pronab Kumar Paul A.N.M. Shihab Uddin Bipul Islam Firoz Ahmed M. Hasnat Kabir	<i>University Of Rajshahi</i>	Design Of A Broadband S-Band Microstrip Antenna With Modified Ground Geometry For Biosystems And Maritime Radar Applications
Md. Shakil Ar Salan Jahid Hasan Md. Mostafizur Rahman	<i>Rajshahi University Of Engineering & Technology (Ruet)</i>	Assessing Urban Carbon Sequestration Potential Using Gis And Remote Sensing: Evidence From Rajshahi City, Bangladesh
Mandadi Neeraj Reddy Tawseef Ahmad Ch.Sunil Kumar M.Suresh	<i>Bharat Institute Of Engineering And Technology</i>	Bug Whisperer-Error Emotion Mapping
Muhammad Imran	<i>Government College University</i>	Composition And Emerging Applications Of Zingiber Officinale Essential Oil
Mofassel Hossen Akash Ashraful Alam	<i>Noakhali Science And Technology University</i>	Microwave-Assisted Green Synthesis Of Zno Nanoparticles Using Litchi Chinensis Leaves Extract And Their Application In Photocatalytic Activity
Leila Kebal Abdelhak Rouibi Noureddine Djebli	<i>University Ahmed Zabana-Relizane</i>	The In-Vitro Evaluation Of The Anti-Inflammatory Activity Of Olea Europaea L. Leaves Extract

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Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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SESSION-1, HALL-4 / OTURUM-1, SALON-4**MODERATOR: Brahim Lejdel**

Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Ghulam Hussain Jie Zhang Ghulam Qanmber Mengli Yu Yujun Li Fuguang Li Zuoren Yang	<i>State Key Laboratory of Cotton Bio-breeding and Integrated Utilization</i>	GhMYB44 Orchestrates a Multi-tiered Cascade to Regulate Secondary Cell Wall Biosynthesis in Cotton Fibers
Isah M. C. Hamzat A. Olatunde, A. A. Ndana, T. K. Abdulmalik R. H.	<i>Ibrahim Badamasi Babangida University Lapai</i>	Growth Assessment and Economic Indices of <i>Clarias gariepinus</i> cultured in a <i>Clarias</i> -Duckweed Aquaponics System
Yahaya A. G. Isah M. C. Salihu I. M.	<i>Ibrahim Badamasi Babangida University</i>	Bacteriological Assessment Of Moussa Stream In Bida, Niger State, Nigeria
Ekijere Nathan Monday David Ikwuoche John Ogunmola Adeniyi Oyewole	<i>Federal University Wukari</i>	Nonlinear Randomised Complete Block Design And Analysis Of Saponins Effect On Crude Oil Spill Remediation
Irfanul Haque	<i>Software Quality Assurance Engineer, Brac It</i>	Bridging Qa Gaps With Ai: A Study Of Predictive Accuracy And Test Automation Efficiency
Leila Azaryouh Amine Miftah Zineb Kassab Khalifa El Harfi Mounir El Achaby Adil Aboulkas	<i>Université Sultan Moulay Slimane</i>	Valorization Of Olive Mill Waste Into Activated Hydrochar: Advancing Circular Solutions For Water Purification
Rahimova Konul Elbrus	<i>Azerbaijan State University Of Economics</i>	Study Of The Formation Of Chemical Burn-On On Steel Castings And The Use Of Anti-Burn Coatings Based On Kaolinite $Al_2Si_2O_5(OH)_4$

28.11.2025**Kyrenia Local Time: 09:00-11:00****Ankara Local Time: 10:00-12:00**

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Nur Mohamad Tanvir Hossain Bhuiyan	<i>University Of Rajshahi</i>	Ai-Powered Early Warning Systems For Infectious Disease Outbreaks: A Mini Review
Akhellouf Fatima Zahra Azzouzi Maryame Boukate Khadija Adlaoui El Bachir Amarir Fatima	<i>Hassan Ii University</i>	Phytochemical Screening And Evaluation Of The Antioxidant Activity Of The Hydroethanolic Extract Of Moroccan Myrtus Communis L.
S.Lakshmi	<i>Srm Institute Of Science And Technology</i>	A Study On Background Noise Removal Using Deep Learning Algorithms
Cherif Lamia Mahroug Hanane	<i>University Centre Of Maghnia</i>	Study Of The Physico-Chemical And Bacteriological Quality Of Groundwater: Case Of The Ghazaouet Region (Tlemcen Province)
Abdullahi Gabi Muhammad Alhassan Gabi Usman Adisa Moahmmmed Jimoh Ibrahim Baba Usman Mohammed Chado Isah	<i>Ibrahim Badamasi Babangida University</i>	Proximate Analysis Of Peanut Products From Composite Flour Of Wheat, Groundnut, And Egg Formulated For A Moderate Person
Mahmuda Begum Kazi Md. Shihabul Islam Munna Miah Nusrat Nawrin Srabony Romel Ahmed Mohammad Masum Ul Haque Ajit Ghosh	<i>Shahjalal University Of Science And Technology</i>	Characterization Of Salt-Tolerant Bacillus Spp. As Plant-Growth Promoting Endophytic Bacteria Enhancing Tomato Seedling Growth Under Salinity Stress
Le Tran Thanh Liem Tran Thi Kim Hong Bui Thi Bich Lien	<i>Can Tho University</i>	Beyond Species: An Integrated Approach To Biological Resource Management In Biodiversity Hotspots

28.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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[exp. Hall 1, Samet Kuşkıran](#)**SESSION-1, HALL-6 / OTURUM-1, SALON-6****MODERATOR: Belhadj Tahar Kamel**

Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Belhadj Tahar Kamel Adjoudj Abdellatif Benmeddah Mohammed Missoum	<i>University Morsli Abdellah Of Tipaz</i>	Assessing The Impact Of Agricultural Activity On The Biodiversity Of Mount Chenoua In Tipaza Region North Of Algeria
Imane Mouamr Karim Chkirate Mohammed. Benmessaoud	<i>Mohammed V University In Rabat</i>	Electrochemical, Structural And Thermodynamic Investigations Of Cannabis Seeds Oil (Cannabis Sativa L) As A Green Corrosion Inhibitor For C38 Steel In Hcl
Amine El Maraghi Habib El Alaoui El Abdallaoui Hocine Garmes Abdellah Zeroual	<i>Chouaib Doukkali University</i>	Corrosion Inhibition Of Steel By 2-Ethyl-6-Nitro-2h-Indazole (6ne2): Experimental And Theoretical Insights Into Adsorption And Mechanistic Behavior
Alarima, I. M. Okparavero, O.O. Oyekale, J.I.	<i>School Of Agriculture, Federal Polytechnic Ilaro, Ogun State, Nigeria</i>	Economic Assessment Of Neem Organic Fertilizer Application On Cucumber (Cucumis Sativus L.) Production In The Rain Forest Ecological Zone
Radouane El Amri Rajaa Zahnoune Otmene Boudouch Cherki Lahlou Aziz Hasib Noureddine Kamil Reda Elkacmi	<i>University Sultan Moulay Slimane</i>	Sustainable Optimization Of Reverse Osmosis Pretreatment Of Brackish Water Using Coagulation-Flocculation And Sludge Recirculation: A Box- Behnken Approach
Zakaria Asbai Souhaila Elhairech Bouchaib Bahlaouan Said El Antri Nadia Boutaleb	<i>Hassan II University Of Casablanca</i>	Eco-Engineering Of Omfs: Reducing Environmental Footprint Through Advanced Formulation And Release-Control Processes
Amroumoussa Benmoussa Mohammed Hssaisoune Lhoussaine Bouchaou	<i>University Ibn Zohr</i>	Assessment Of The Impact Of Lithological And Topographical Variability On Soil Mechanics And Environmental Sustainability In Jorf Lasfar, Focusing On The Dynamics Of Karst Aquifers

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Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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AUTHOR	AFFILITATION	ABSTRACT TITLE
Meltem Ince Yenilmez	<i>Izmir Democracy University</i>	Achieving Gender Equality In Engineering: Barriers, Impacts, And Solution-Focused Strategies
Hilal Abat Huriye Sebnem Burnaz	<i>Istanbul Technical University</i>	Factors Affecting Consumers' Purchase Intention Toward Green Personal Care Products
Pınar Şaşmaz Kavas Simgе Güneşer Kholoud Saleh	<i>Girne American University</i>	A New Paradigm In Digital Preservation Of Historic Structures: Ai-Based Documentation, Cultural Communication, And Sustainable Tourism Branding
Pınar Şaşmaz Kavas Simgе Güneşer Kholoud Saleh	<i>Girne American University</i>	A Multidisciplinary Approach To Protecting At-Risk Historic Structures: Data Analytics, Public Communication, And Conservation Economics
Emre Can Değiş Kayhan Ayar	<i>Sakarya University</i>	The Role Of Virtual Reality (Vr) Simulations In Industry 4.0 Education
Bahu Sönmez Tülay Boyraz Şerife Ünal Tolga Karaköy	<i>Sivas University Of Science And Technology</i>	Sustainable Agricultural Systems In Environmental, Economic, And Social Dimensions
Orhan Atakan Gürbüz Gülden Gök Oya Özel Gürbüz	<i>Niğde Ömer Halisdemir University</i>	Hospital Waste In The Context Of Environmental Sustainability
Nesrin Dursun	<i>Ardahan University</i>	Types Of Drought, Causes And Effects

28.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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AUTHOR	AFFILITATION	ABSTRACT TITLE
Sena Erdiñç Akoğul Kadriye Oktor	<i>Kocaeli University</i>	Evaluation Of Microalgae Harvesting Methods With Multi-Criteria Decision-Making Mechanisms: A Topsis Example
Gazel Burcu Aydın	<i>Trakya University</i>	Evaluation Of Maksutlu Dam Lake (Sivas, Türkiye) Water Quality In Terms Of Elemental Load
Kemal Aydın Dağ Tülay Kaplan Fatma Eda Tutar	<i>Sivas University Of Science And Technology</i>	Impact Of Digital Farming On Farmer Behavior And Agricultural Policies
Elif Şahin Suci	<i>Selçuk University</i>	Dairy Cattle In The Climate Change Era: Precision Livestock Farming And Digital Sensor Approaches
Emine Betül Keleş Elif Şahin Suci	<i>Selçuk University</i>	The Role Of Storage Infrastructure In Strategic Agricultural Commodities: The Structure Of Grain Production And Licensed Warehousing In Türkiye
Yasemin Durgut Serpil Kiliç Depren	<i>Yıldız Technical University</i>	A Study On The Actuarial Climate Index For Istanbul
Begüm Nisa Tosun Hakan Demiral	<i>Eskişehir Osmangazi University</i>	Synthesis Of Metal Boride Catalysts And Their Hydrogen Production Applications

28.11.2025

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Ankara Local Time: 12:30-14:30

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[exp. Hall 1, Samet Kuşkıran](#)**SESSION-2, HALL-3 / OTURUM-2, SALON-3****MODERATOR: Hale Günaçtı****Meeting ID: 929 9691 8209****Passcode: 272829**

AUTHOR	AFFILITATION	ABSTRACT TITLE
Birsen Açikel	<i>Eskisehir Technical University</i>	Regulation, Safety And Certification Issues In Autonomous Flights
Ahmet Eşiyok	<i>Istanbul Beykent University</i>	Occupational Health And Safety In Rapid Prototyping Processes Using The Stereolithography (Sla) Method
Alperay Altıkat	<i>Iğdır University</i>	Light And Energy Management In Controlled/ Vertical Plant Production: Artificial Intelligence–Based Optimization Strategies
Alperay Altıkat	<i>Iğdır University</i>	Life Cycle Assessment And Emission–Energy Optimization In Agricultural Biomass Pellet Fuels
Erkan Öztürk Hüseyin Yıldız	<i>Istanbul University- Cerrahpaşa</i>	Computer-Aided Simulation Of A Small-Scale, Single-Joint Magnetic Inverted Pendulum Mechanism
Cuneyt Genyüz Mustafa Korkmaz Ruya Samli Eylem Yucel Demirel	<i>Istanbul University</i>	Digital Transformation In Logistics: Automation Of Delivery Verification Processes Through The Pod Tracking System
Enes Uğur Ethem Kelekçi	<i>Manisa Celal Bayar University</i>	A Python Based Framework For Kinematic And Dynamic Analysis And Simulation Of Industrial Robotic Arms
Hale Günaçtı	<i>Sivas Science And Technology University</i>	Assessment Of Sugar Beet Significance And Plant Protection Challenges In Sivas Province
Hale Günaçtı	<i>Sivas Science And Technology University</i>	Blueberry (<i>Vaccinium Corymbosum</i>): Studies In Turkey And Worldwide, Pre-And Post-Harvest Diseases And Control Methods

28.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Najia Tahsin Kumkum Sheikh Jakia Nur Oishee Monjurul Rana Abdul Awal Delwar Hossain A. J. Saleh Ahammad	<i>Jagannath University</i>	Fabrication Of Co(LI)-Fe(LI)-Ni(LI)-Based Heterometallo Supramolecular Polymer For Electrochemical Sensing Of 4-Nitrophenol
Al-Rafi Chowdhury Mahi Abdullah Al Azad Al-Imran Sajnin Sampa Asif Ali Shishir	<i>National University Bangladesh</i>	Real -Time Heartbeat, Ecg, Spo ₂ And Temperature Monitoring Using A Smart Iot Device
T .Venkatesh S. Sharada	<i>Jntua College Of Engineering</i>	Advances In Eco-Friendly Anticorrosion Coatings: Recycled Polypropylene And Zno Nanoparticles For Aluminium Alloys-Review
Brahim Lizoul Said Es-Sakali Mohammed Denzira Ali Sbai Mounia Achak Said Kounbach	<i>Hassan First University</i>	Use Of Amorphous And Apatitic Tricalcium Phosphate To Remove Ni 2+ , Co 2+ And Cu 2+ From Aqueous Solutions
S. Lakshmi	<i>Srm Institute Of Science And Technology</i>	Towards A Sustainable Agricultural Revolution With Cognitive Systems
Melik Sami Khelil Sara Tallal Abdel Karim Bouzir	<i>Mohamed Khider Biskra University</i>	Cross Ventilation In Desert Homes: Spatial Strategies For Passive Cooling In Biskra.
Melik Sami Khelil Sara Tallal Abdel Karim Bouzir	<i>Mohamed Khider Biskra University</i>	Skyscrapers Of Sustenance: Integrating Vertical Farming Into Urban Architectural Systems
Osman Gani Rasel Ziaul Haider Chowdhury Mahfuj Ahmed Sizan	<i>Hajee Mohammad Danesh Science And Technology University</i>	Seasonal Assessment Of Pm2.5 In Cumilla District, Bangladesh Using Modis-Derived Ghap Data And Google Earth Engine
Mahfuj Ahmed Sizan Osman Gani Rasel Ziaul Haider Chowdhury	<i>Hajee Mohammad Danesh Science And Technology University</i>	Spatio-Temporal Dynamics Of Urban Expansion In A Northern District Of Bangladesh Using Viirs Night-Time Lights And Modis Land Cover In Google Earth Engine

28.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Vaishnavi.K R.Kishore R.Sriarasuvasan S.Rubinthara R.Devi A. Palaniswamy R.Srinivasan	<i>Bharath Institute Of Higher Education And Research, Chennai</i>	Gold Nanoparticles: Preparation, Properties, And Applications In Bionanotechnology
R . Kishore K . Vaishnavi S . Meenatchi V . Keerthana	<i>Bharath Institute Of Higher Education And Research Chennai</i>	Plastic Pollution And Biodegradation Strategies
Abhigyan Ganguly Kumarjit Singha Bijoy Debnath	<i>Brainware University</i>	Cancer Cell Detection Using Machine Learning: A Comparative Study Of Knn, Svm, And Random Forest
Rozina Khattak	<i>Shaheed Benazir Bhutto Women University</i>	Synergistic Activation Of Solar Photocatalysis And Oxidants For Rapid Detoxification Of Industrial Effluents
Rozina Khattak	<i>Shaheed Benazir Bhutto Women University</i>	Harnessing Fruit And Nut Waste For The Efficient Biosorption Of Industrial Dye Pollutants
Amine Sarhrani Mohamed Sadiki Brahim Jaafar Yousra Hamoumi Nouhaila Lassfar Abdelhak Bouabdli	<i>Ibn Tofail University</i>	Assessing Anthropogenic Impacts On The Kenitra Coastal Dune Cordon (1999–2025): A Remote Sensing And Gis Study
Alip Kumar Paul, Mim Huda Umma Nourin Sawon Hasibul Islam Mohammad Nyme Uddin Hasan	<i>Building Energy & Environmental Management-Beem Enhanced By Ai</i>	Floor-Level Prediction In Multi-Storey Mosques Using Interpretable Machine Learning: A Case Study From Dhaka, Bangladesh
Aneta Nycz Janusz Skrzypacz Przemysław Szulc	<i>Wroclaw University Of Science And Technology</i>	Comparative Analysis Of Flow Through Various Gap-Blade Configurations In A Low-Specific-Speed Centrifugal Pump
Ritu Mondal Diganta Bose Moznuzzaman	<i>Jashore University Of Science And Technology</i>	Foot Movements Classification By Machine Learning Algorithm With Optimized Electromyography Features

28.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Fedwa Beghdadi El-Hadj Driche	<i>Hassiba Benbouali University Of Chlef</i>	Isolation Of Saharan Actinobacteria For Biological Control Against Phytopathogens: Towards Sustainable Agriculture
Fedwa Beghdadi El-Hadj Driche	<i>Hassiba Benbouali University Of Chlef</i>	Environmental And Consumer Health Risks Associated With Mycotoxins Produced By Phytopathogenic Fungi
Araftuzzaman Bhowmik Shimu Khairul Islam Rokibul Islam	<i>University Of Rajshahi</i>	Effect Of Different Levels Of Phosphorus And Boron On Growth And Yield Of Two Potato Varieties (Solanum Tuberosum L.)
Yeamin Hossain Ridwanul Islam Mahfuj Ahmed Shohag Rana Nishat Tasnim Ananty Sufara Akhter Banu Abu Yousuf Hossin Golam Robbani Shahanaz Parveen Kazi Kamrul Huda Harun-Ur-Rashid	<i>Sher-E-Bangla Agricultural University</i>	Genome-Wide Meta-Qtl Analysis Uncovers Stable Loci Underlying Fruit Traits, Plant Morphology, Anthocyanin Regulation, And Biotic Stress Resistance In Eggplant
B. Sri Chetan Tawseef Ahmad M.Suresh Ch.Sunil Kumar	<i>Bharat Institute Of Engineering And Technology</i>	Reversible Data Hiding In Encrypted Images
Bijender Singh Sumit Kumar Davender Singh	<i>Central University Of Hartana</i>	Microparticles-Assisted Engineering Of Fungal Morphology For Enhanced Production Of Hydrolytic Enzymes
Md Shahinur Islam Bishwo Mainali Mary Whitehouse	<i>Macquarie University</i>	Biological Control Potential Of Green Lacewings And Comb-Footed Spider On Fall Armyworm (Spodoptera Frugiperda) And Screening Natural Enemies Of Fall Armyworm By Using Molecular Gut Content Analysis

28.11.2025

Kyrenia Local Time: 14:00-16:00

Ankara Local Time: 15:00-17:00

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SESSION-3, HALL-1 / OTURUM-3, SALON-1**MODERATOR: İlhan Danacı****Meeting ID: 929 9691 8209****Passcode: 272829**

AUTHOR	AFFILITION	ABSTRACT TITLE
İlayda Aydın Muhammed Semih Dihye Baş İlhan Danacı Fuat Erden	<i>Sivas University Of Science And Technology</i>	Self-Healing Materials For Autonomous Maintenance And Repair In Aerospace
İlhan Danacı Fuat Erden	<i>Sivas University Of Science And Technology</i>	Optimization Of Thermoelectric Properties In A-Swnt/ Poly(Aniline-Co-Acrylonitrile) Composites Via Controlled M-Cresol Re-Doping
Adnan Baday Onur Duman	<i>Berdan Cıvata Ar-Ge Merkezi</i>	Lining Improvement Project In Hot Bolt Forging Fraction Presses
Emre Erdem Alper Çalışkan	<i>Yıldız Technical University</i>	Enhancement Of Isolation In 5g 1×2 Mimo Patch Antennas By Employing Defected Ground Structure (Dgs)
Gizem Candaş Berkay Menç Yusuf Özçatalbaş	<i>Gazi University</i>	Mechanical Behavior Of The Interface In The Industrial Joining Of Cfrp-Metal Hybrid Structures
Berkay Menç Yusuf Özçatalbaş	<i>Gazi University</i>	Fabrication Of Open-Cell Alumina Ceramic Foams Via The Replica Method
Ömer Saltuk Bölükbaşı Efe Arıyol	<i>Iskenderun Technical University</i>	Investigation Of Relationships Of Lsi Index With Mild Steel Corrosion Coupons
Ömer Saltuk Bölükbaşı	<i>Iskenderun Technical University</i>	Chemical Risk Factors In The Iron And Steel Industry
Serkan Islak	<i>Kastamonu University</i>	Microstructure, Density And Hardness Evolution Of Mo-Sm 2 O 3 Composites
Serkan Islak	<i>Kastamonu University</i>	Development Of Copper-Matrix Composites: A Literature Review

28.11.2025

Kyrenia Local Time: 14:00-16:00

Ankara Local Time: 15:00-17:00

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SESSION-3, HALL-2 / OTURUM-3, SALON-2**MODERATOR: Aylin Er****Meeting ID: 929 9691 8209**
Passcode: 272829

AUTHOR	AFFILITION	ABSTRACT TITLE
Buse Atalay Aylin Er Pınar Güner	<i>Balıkesir University</i>	Antimicrobial Peptides: Structural Diversity, Mechanisms, And Clinical Perspectives
Selin Meryem Şengül Aylin Er Pınar Güner	<i>Balıkesir University</i>	Role Of Boron And Boron Compounds In Crop Production And Insect Pest Management
Mehmet Akif Kalender	<i>Selçuk University</i>	Assessment Of Agricultural Water Use In Arid Regions: A Case Study Of Konya - Karapınar District
Mustafa Çomaklı Bahadır Sayinci	<i>Atatürk University</i>	Numerical Analysis Of Internal Flow Characteristics In Hollow Cone Nozzle Plates Used In Pesticide Applications
İpek Zeynep Durusu Aliye Ezgi Güleç Taşkiran	<i>Başkent University</i>	Comparative Antioxidant Profiling Of 18 Pharma-Grade Cosmeceutical Oils Using The Dpph Radical-Scavenging Assay
Haydar Küplemez Fatih Seyis	<i>Recep Tayyip Erdoğan University</i>	Secondary Volatile Metabolite Composition Of Helichrysum Pallasii Collected From Anzer/Rize
Haydar Küplemez Fatih Seyis	<i>Recep Tayyip Erdoğan University</i>	Secondary Volatile Metabolite Composition Of Hypericum Pruinatum Collected From Rize

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SESSION-3, HALL-3 / OTURUM-3, SALON-3**MODERATOR: Erdem Gülümser****Meeting ID: 929 9691 8209****Passcode: 272829**

AUTHOR	AFFILITATION	ABSTRACT TITLE
Rüstem Emre Sungurbaş	Me-Ge Teknik A.Ş.	Reduction Of Input Ripple Behavior In Full Bridge Inverters By Using Capacitors
Mohammed Ahmed Ali Ali Peri Güneş	Gelisim Istanbul University	Optimal Design Of Fuzzy Logic Controller For Automatic Voltage Regulator
Fatma Çalili Çankır	Iskenderun Teknik University	Prediction Of Effective Diffusivity In Nanocellulose-Based Sandwich-Type Membranes For Polymer Electrolyte Fuel Cells
Mohammed Wakas Saad Peri Güneş	Gelisim Istanbul University	Performance Evaluation Of Pid Vs. Fuzzy Logic Control For First-Order Water-Level And Thermal System
Emre Torun	Sivas University Of Science And Technology	Numerical Investigation Of The Effect Of Rt35hc Phase-Changing Material On Entropy Production In Battery Thermal Systems
Mert Avcı Arif Gülten	Fırat University	Pesoptimization Of Cnn Hyperparameters In Planus Diagnosis Using Meta-Intuitive Methods optimization
Feyza Deretaşı Erdem Gülümser	Bilecik Şeyh Edebali University	Phytotherapy In Animal Health And Nutrition: Phytotherapeutic Plants
Erdal Ibrik Erdem Gülümser	Bilecik Şeyh Edebali University	The Situation Of Rural Development Supports In Bilecik

28.11.2025

Kyrenia Local Time: 14:00-16:00

Ankara Local Time: 15:00-17:00

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITION	ABSTRACT TITLE
Al Amin	<i>International Islamic University Malaysia</i>	Performance Evaluation And Trade-Off Analysis Of Pam, Qam, And Cpm In High-Speed Lifi Communication
Hicham El-Boukhary Hamza Elkissany Adil Laaziz Abdelouahed Hajjaji	<i>Sultan Moulay Slimane University</i>	Endophytes And Nanoparticles Combination
Bibi Hafsa Mahib Reza S M Sabbir Hosen A S M Zinnurain Swadhin	<i>Jahangirnagar University</i>	Geospatial Approaches To Environmental Monitoring And Risk Zonation Of Mahasthan Archaeological Heritage Site Of Bangladesh
Abah Roseline Toyin Agbo Christiana Ene	<i>University Of Abuja,</i>	A Compartmental Mathematical Model For Understanding Heart Disease Dynamics And Prevention
Tharunikaa P Vanthana G Arsa G M Varshana Deepa A. Vijayalakshmi	<i>R.M.K. Engineering College</i>	Smart Wearables For Health Monitoring Using Nanotechnology
Barani Chandran S Jeyanth R T Karan Logeswaran P Lokeshkumar K A. Vijayalakshmi	<i>R.M.K. Engineering College</i>	Microplastic Pollution In Freshwater Ecosystems
Khadija Akter Akhi Apurbo Kumar Biswas Rahima Nasrin	<i>University Of Barishal,</i>	Investigation Of Structural And Optical Characteristics Of Undoped And Ni-Doped Cuo Thin Films Synthesized Via Cbd
Barani Ethirajan G Priya Murugesan Kamaraj	<i>Srm Institute Of Science And Technology, Ramapuram Campus, Chennai</i>	Decoding Pollutant Toxicity Using Crispr/Cas9 For Applications In Modern Ecotoxicology

28.11.2025**Kyrenia Local Time: 14:00-16:00****Ankara Local Time: 15:00-17:00**

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exp. Hall 1, Samet Kuşkıran**SESSION-3, HALL-5 / OTURUM-3, SALON-5****MODERATOR: Palash Kumar Das**
Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Md Partha Abu Shahed Abdul Halim Jahangir Alam	<i>Jashore University Of Science And Technology</i>	Evaluation Of Viscosity Of 1,1,1,2-Tetrafluoroethane (R134a) Using Green-Kubo Approach By Molecular Dynamics
Yash Ajay Gadale Mayur M. Maske	<i>K. E. Society's Rajarambapu Institute Of Technology, Rajaramnagar</i>	Advances In Concrete 3d Printing For Civil Engineering
Abderrahim Bahoum Mohamed El Hattab Youness El Hammami	<i>Ibn Zohr University</i>	Mixed Mhd Convection And Heat Transfer Enhancement In A Driven Cubic Cavity Using A Cu-Al ₂ O ₃ /Water Hybrid Nanofluid
Siham Kharraz Mohammed Nabil Kabbaj Mohammed Benbrahim	<i>Sidi Mohamed Ben Abdellah University</i>	A Hybrid Catboost-Based Spatiotemporal Fusion Model For Accurate Daily Land Surface Temperature Estimation Across African Climate Zones
Aditya Dev Mohammed Arifur Rahman Mojumder Rafiul Amin	<i>Ahsanullah University Of Science And Technology</i>	Assessing Groundwater Depletion In Bangladesh Using Grace Satellite Data: A Humanitarian Engineering Approach For Sustainable Water Management In Dhaka City
Palash Kumar Das	<i>Hajee Mohammad Danesh Science And Technology University</i>	An Application Of Mixed-Integer Linear Programming To Minimize The Cost Of University Students Required Basic Nutritional Requirements
Raduanul Haque Maruf Aaratrik Utsav Das Shahadat Hossain Mohammad Junaid Pabel Shahrear	<i>Shahjalal University Of Science And Technology</i>	Modeling Short-Range Artillery Trajectories With Progressive Drag And Wind Effects
Shahidul Islam	<i>Barishal Textile Engineering College</i>	Interpretable Machine Learning Framework Using Xgboost, Catboost, And Shap For Predicting Yarn Tensile Strength

28.11.2025**Kyrenia Local Time: 14:00-16:00****Ankara Local Time: 15:00-17:00**

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exp. Hall 1, Samet Kuşkiran**SESSION-3, HALL-6 / OTURUM-3, SALON-6****MODERATOR: Mahafuzur Rahman**
Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Chakroune Soukaina Maghnouj Abdelmajid El Mahjoub Chakir	<i>Sidi Mohamed Ben Abdellah University</i>	Neutronic Modeling Of A Nuscale-Type Smr With Openmc: Analysis Of K Eff And Burnup Behavior
El Handaoui El Mehdi Salim Ahmed Abderrahim Jrifi Omar Fanidi	<i>Ensam Hassan Ii University</i>	Adsorptive Removal Of Methylene Blue Onto Activated Carbon Prepared From Bamboo: A Study Of Kinetics And Isotherms
Tanvir Anjum	<i>University Of Dhaka</i>	Multifunctional Cu, B Co-Doped ZnO Photocatalyst: Organic Pollutant Degradation And Antimicrobial Coatings
K.R.Padma K.R.Don	<i>Women's University</i>	Stress Tolerance And Plant Growth Promotion Through Seaweed Extract
Sabiha Nusrat Sajib Deb Helal Murshed Swarup Deb	<i>Texas Tech University</i>	Stimuli-Responsive Nanoparticle-Assisted Immunotherapy: A New Weapon Against Solid Tumours
Mahafuzur Rahman	<i>Begum Rokeya University</i>	Identifying Key Influencers Of Patient Satisfaction Using An Explainable Machine Learning Approach
Habibur Rahman Ekhtiar Uddin	<i>Southeast University</i>	The Convergence Of Bioinformatics And Omics Technologies In Biomedical Discovery
M. Alhassan Y. Ndatsu M. C. Isah I. A. Musa	<i>Ibrahim Badamasi Babangida University</i>	Growth Performance And Feed Efficiency Of Clarias Gariepinus Fed Graded Levels Of Sesame Indicum (Beni Seed) As Fish Meal Substitute
Anna Piwowar Przemysław Jaszak Marcin Bieganski	<i>Wroclaw University Of Science And Technology</i>	Research On Structuring Of Sealing Surfaces

29.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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AUTHOR	AFFILITION	ABSTRACT TITLE
Mehmet Şenel Kamil Özpınar	KTO Karatay University	Design And Analysis Of An Experimental Test Setup For Multi-Parameter Fluid Measurements
Melih Emre Karacaoğlu Nurullah Gültekin	Idea Group Project Engineering Consultancy	Investigation Of Gaseous Fuels Used As Secondary Fuel In Gasoline Gas Dual Fuel Spark-Ignition Engines
Yağmur Naz Değnekçi Anıl Geyik	Cms Jant Ve Makine Sanayii A.Ş.	Prevention Of Thermal Fatigue Cracks And Extending Mold Lifetime Through Improved Welding Procedures
Anıl Geyik Tarkan Alioğulları Ergin Uzun Yağmur Naz Değnekçi	Cms Jant Ve Makine Sanayii A.Ş.	Improving Production Efficiency Through Post-Processor Enhancements And Probe Integration In Cnc Machines
Alaaeddin Kheiti Kadriye Filiz Balbal	Dokuz Eylul University	The Impact Of Llm-Based Ai Agents: Experimental Comparison Between Single And Multi-Agent Ai Structures
Ilke Çiftçi Serap Çelen	Ege University	An Investigation On Micro Hardness And Production Times Of Aisi H13 Tool Steel Welding With Different Filler Wires
Zeynel Abidin Altunkaynak	Koluman Otomotiv Endüstri A.Ş.	Maintenance Levels And Training Dynamics In Military Vehicles: Analysis Of User, Unit, And Factory-Level Approaches
Hacer Çolak	Kilis 7 Aralık University	Evaluation Of Analytical And Numerical Approaches In Estimating The Fundamental Period Of Buildings

29.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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AUTHOR	AFFILITION	ABSTRACT TITLE
Sinem Kılıçkap Işık Abdulkadir Çoşkun Adem Yar	<i>Bingöl University</i>	Enhancing Of Paraffin-Based Phase Change Materials With Next-Generation Nanomaterials
Gizem Durak Yüzüak Ercüment Yüzüak	<i>Munzur University</i>	Exploring Magnetic Properties Of GdCO ₂ Thin Film
Ali Berk Tavacı Yusuf Özçatalbaş	<i>Gazi University</i>	The Mechanical Effects Of Laser Cutting On Armor Steels
Ahmet Erdem Haberdar Volkan Acar Ferit Çakır	<i>Gebze Technical University</i>	Non-Impregnation Problem In Frp Ropes
Necla Altın Sema Samatya Yılmaz Ayşe Aytac	<i>Kocaeli Üniversitesi</i>	Production And Characterization Of Biodegradable Rgo/P3hb4hb Composite Membranes For Fuel Cell Applications
Saeid Darvishi Necla Altın Ayşe Aytac	<i>Kocaeli Üniversitesi</i>	Investigation Of The Effects Of ZnO Nanoparticles On The Structural, Thermal And Mechanical Properties Of Pla/Pbs Based Composites
Sefa Altıkat Recep Özcan Dündar	<i>Iğdır University</i>	Effects Of Electromagnetic And Magnetic Fields On Germination And Stress Physiology In Plant Biosystems
Recep Özcan Dündar Sefa Altıkat	<i>Iğdır University</i>	The Effect Of Physical-Mechanical Agricultural Production, Processing Technologies, And Quality Standards On Seeds

29.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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exp. Hall 1, Samet Kuşkıran**SESSION-1, HALL-3 / OTURUM-1, SALON-3****MODERATOR: Demet Büyükkaya****Meeting ID: 929 9691 8209****Passcode: 272829**

AUTHOR	AFFILITION	ABSTRACT TITLE
Alper Olcay Pinar Düzgün Süreyya Aydın Yüksel	<i>Yıldız Technical University</i>	Production And Characterization Of Silicon-Based Acetone Sensor Prepared Under Room Conditions
Lütfullah Taha Halıcı Seher Eken	<i>Istanbul Technical University</i>	A Computational Study Of Ballistic Response In Multi-Layer Textile Protection Systems
Demet Büyükkaya Hasan Şahin	<i>Bursa Teknik University 29 Una İstiyor</i>	Comparative Analysis Of Deep Learning Approaches In E-Commerce Delivery Time Prediction: An Application Of Mlp, Lstm, And Cnn Models
Demet Büyükkaya Hasan Şahin	<i>Bursa Teknik University</i>	Inventory Optimization Through K-Means Clustering For Data-Driven Decision Support
Ferhat Özdemir Burak Görgel	<i>Kahramanmaraş Sütçü Imam University</i>	Economic Assessment And Cost Analysis Of Engineered Wood Products
Ferhat Özdemir Burak Görgel	<i>Kahramanmaraş Sütçü Imam University</i>	Structural Characteristics And Construction Applications Of Engineered Wood Materials

29.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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[exp. Hall 1, Samet Kuşkıran](#)**SESSION-1, HALL-4 / OTURUM-1, SALON-4****MODERATOR: Fatima Osmani**

Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Tebboune Wafa Hadjadj Fatima Zohra Belkheir Wissem Bounouara Zahra Bourada Fouad Ait Sidhoum Imène	<i>University Of Sciences And Technology Mohamed Boudiaf</i>	A Novel Trigonometric Shear Deformation Model For Predicting The Thermal Buckling Of Composite Structures
Yong Jin Muhammad Aslam Payam Shafigh	<i>Wenzhou University Of Technology</i>	A Review On Standard Design Parameters For Rammed Earth Wall Construction
Mohd. Jamshaiya Raza Riyazuddeen Chandra Mouli Pandey	<i>Sgt University</i>	Ionic-Liquid Grafted $\text{NiFe}_2\text{O}_4/\text{G-C}_3\text{N}_4$ Nnaohybrid For Ultra-Sensitive And Selective Electrochemical Melamine Monitoring
Suleiman Zuleihat Ozohu Ado A. Datti Kazeem Ibraheem Ajadi Bakare Abdulakeem Oyesode Olotu Johu Abubakar Ahmed Aliyu Nana Aisha	<i>Ahmadu Bello University Zaria</i>	Utilizing Lowcost Eggshell And Coconut Mixtures As Efficient Adsorbents For Removing Lead And Chromium From Tannery Effluent
Dipok Halder Hasan Ali Sanjay Das Humaira Akter Shanta	<i>Bangladesh Agricultural University Mymensingh-2202</i>	Evaluating Water Hyacinth Residue As A Viable Alternative To Conventional Organic Fertilizer
Kater Titus A. J Simon D. O. Alonge	<i>Federal University Of Technology</i>	Enhancement Of Safety And Accessibility In The Design Of A Public Transportation Hub For Minna, Niger State
Melik Sami Khelil Sara Tallal Abdel Karim Bouzir	<i>Mohamed Khider Biskra University</i>	Seeing And Selling The City: Visual Consumption And The Erosion Of The 'Right To The City'
Fatima Osmani	<i>International Ahlulbait University</i>	Role Of Women In Sustainable Development: Challenges And Opportunities

29.11.2025

Kyrenia Local Time: 09:00-11:00

Ankara Local Time: 10:00-12:00

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[exp. Hall 1, Samet Kuşkıran](#)**SESSION-1, HALL-5 / OTURUM-1, SALON-5****MODERATOR: Maria-Ioana Socaciu**

Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Rifat Uddin Nishat Farzana Tasnim Tinni Saha Kazi Samia Rashid Morshedul Kadir Masum Sadia Islam Swarna Sozon Ali Ashik Ali Abu Rihan Mizanur Rahman	<i>University Of Rajshahi</i>	Enhancing Productivity And Profitability In Onion Farming: Insights From Farmer Practices And Constraints In Bangladesh
Maria-Ioana Socaciu Maria Jenica Urs Melinda Fogarasi Vlad Mureşan Anda Elena Tanislav Adriana David Cristina Anamaria Semeniuc	<i>University Of Agricultural Sciences And Veterinary Medicine Cluj-Napoca</i>	Strategy For Sustainable Nutritional Fortification Of Summer Salami Via Oilseed Press Cakes
Aditya Dev Khadizatul Kobra Snahomoni	<i>National University</i>	Spatiotemporal Climate-Induced Migration Hotspots In South Asia: A Geospatial-Humanitarian Engineering Approach Using Satellite Remote Sensing And Socioeconomic Indicators In Bangladesh
Noman Habib Hafsa Shamsa Rana	<i>Government College University</i>	Physio – Biochemical Responses Of Wheat (<i>Triticum Aestivum</i> L.) To Exogenously Applied Hydrogen Peroxide And Sucrose Under Salt Stress
Tsegmid Namsraijav Badamjargal Sodnom	<i>Mongolian University Of Life Sciences</i>	Observing Nesting Birds On The South Khangai Plateau In Spring
Shuvo Ronjon Das Moznuzzaman	<i>Jashore University Of Science And Technology</i>	Classification Of Multifidus Surface Electromyography For Low Back Pain Detection: Superior Performance With Frequency- Domain Features
Thumma Rushikesh Tawseef Ahmad Syeda Hafsa Naaz Juveria Nargis	<i>Bharat Institute Of Engineering And Technology</i>	Smart Blind Assistant Glasses
Mandadi Neeraj Reddy Tawseef Ahmad Ch. Sunil Kumar M. Suresh	<i>Bharat Institute Of Engineering And Technology</i>	Satellite Image Segmentation For Urban Planning
Rahhou Abd Elaziz	<i>Cadi Ayyad University</i>	Dinuclear Metal Complexes As Recyclable Catalysts In Organic Synthesis

29.11.2025

Kyrenia Local Time: 11:30-13:30

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SESSION-2, HALL-1 / OTURUM-2, SALON-1**MODERATOR: Ömer Sözen**
Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Mehmet Fırat Baran Erhan Kahya	Siirt University	Computer-Based Approach For Measuring The Length And Weight Of Cucumbers (Cucumis Sativus L.) Using Yolov8
Aslıhan Kevser Bengisu Odluyurt Korkmaz Bellitürk Mehmet Fırat Baran	Siirt University	Nutrient Composition of Vermicompost
Ercan Ceyhan Serdar Karadaş	Selcuk University	Breeding And Quality Improvement Strategies For Plant Protein Demand In Legumes: Modern Approaches And Future Perspectives
Serdar Karadaş Ercan Ceyhan	Selcuk University	Legumes In The Age Of Global Warming: Physiological Stress Responses And Production Risks
Ercan Ceyhan Serdar Karadaş	Selcuk University	Evaluation Of Legumes In Terms Of Nutritional And Technological Quality In The Context Of Sustainable Alternative Protein Sources
Ercan Ceyhan Serdar Karadaş	Selcuk University	Economics of Plant Breeding: Optimization and Cost-Benefit Framework
Ercan Ceyhan Serdar Karadaş	Selcuk University	Strategic Management of Plant Breeding in Türkiye: National Framework and Innovation Ecosystem
Irem Ayran Çolak Veyssel Tokur	Selcuk University	Mineral Content, Antioxidant Activity And Bioactive Compounds Of Fennel (Foeniculum Vulgare) Grown Under The Ecological Conditions Of Konya
Ömer Sözen Tolga Karaköy	Sivas University of Science and Technology	Determination Of Agronomic Characteristics Of Some Lentil Genotypes
Tolga Karaköy Ömer Sözen	Sivas University of Science and Technology	Determination Of Quality Characteristics Of Some Lentil Varieties
Yeter Çilesiz Seyithan Seydoşoğlu	Sivas University of Science and Technology	Genomic And Transcriptomic Approaches For Lentil Breeding
Yeter Çilesiz Seyithan Seydoşoğlu	Sivas University of Science and Technology	Omics-Based Analysis of Abiotic and Biotic Stress Responses and Multilayer Network Models in Lens culinaris
Yeter Çilesiz	Sivas University of Science and Technology	Targeted Gene Editing in Plant Breeding Using Crispr-Cas9

29.11.2025

Kyrenia Local Time: 11:30-13:30

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Passcode: 272829

AUTHOR	AFFILITION	ABSTRACT TITLE
Nur Kılınç Mehmet Kılınç	Giresun University	Dyeing Of Biomordanted Fabrics With Microwave Energy And Analysis Of Color Properties
Yunus Kaya	Bursa Technical University	Design And Modeling Of Next-Generation Grinding Aids And Investigation Of Their Effects
Yunus Kaya	Bursa Technical University	Experimental And Theoretical Investigation Of The Ftir And Nmr Spectra Of The Ester Molecule Obtained From The Synthesis Of Acetic Acid And Tipa
Gaye Özata Inyayla Şule Ocak Araz	Kırıkkale University	Effect Of Fillers Reinforced In Polyamide-6 Matrix On Thermal Conductivity
İlgın Ayazgün Yusuf Özçatalbaş	Gazi University	Investigation Of Sintering And Alloying Behavior Of Prealloy + Premixed Alumix 123 Powder
Buse Apaydin Yusuf Özçatalbaş	Gazi University	The Effect Of Compaction Pressure And Sintering Temperatures On The Mechanical Properties Of Tm Parts Produced With Pre-Alloyed And Mixed Alumix 123 Powder
Tayfun Gül Özkan Coruk	Kocaeli University	Deterministic And Probabilistic Analysis Of Wedge Sliding Potential In Rock Slopes
Melekber Sülüsoğlu Durul	Kocaeli University	Sterilization Strategies In Tissue Culture Of Berry Fruits
Melekber Sülüsoğlu Durul	Kocaeli University	Factors Influencing Rooting Success In Quince (<i>Cydonia oblonga</i>) Cuttings

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Kyrenia Local Time: 11:30-13:30

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Md. Rafiqul Islam Mohammad Lokman Ali Sabrina Akter Rinju Sudipta Kumar Nag Tridip Roy Tawhidur Rahman Hafijur Rahman	<i>Patuakhali Science And Technology University</i>	Comparative Assessment Of Growth Performance And Survival Rate Of Mono-Sex And Mixed-Sex Nile Tilapia (<i>Oreochromis Niloticus</i>) In Cage Culture Systems: Evidence From Southern Bangladesh
Assiya Atif Soukaina Ameur Houssine Ait Sir	<i>Chouaib Doukkali University</i>	Synthesis, Characterization, And Computational Investigation Of 2,5-Bis(2-Methyl-1h-Benzimidazol-5-Yl)-1,3,4 Oxadiazole: Quantum Chemical Analysis, Adme Prediction, Molecular Docking, And Md-Based Corrosion Study For Photonic And Therapeutic Applications
Syful Islam Abdullah Bijoy Aliar Rahman Rakhi Chowdhury Khan Shaiful Islam	<i>Bangladesh Agricultural University,</i>	Fermentation Efficiency Of Rice Bran, Rice Polish, And De-Oiled Rice Bran For Nutritional Upgrading And Bioethanol Production
Yassir Khalsi Mehdi Mennani Zineb Kassab	<i>Mohammed Vi Polytechnic University</i>	Low-Temperature Catalytic Graphitization For High Performance Carbon Materials
Sathwik Babu N M. Suresh Kanimozhi R Syeda Hifsa Naaz	<i>Bharat Institute Of Engineering And Technology</i>	Neo Face - Ai-Powered Face Reconstruction
Ahmed Osmane Khadija Zidan Moustapha Belmouden	<i>Agadir University Ibn Zohr</i>	Sustainable Millet For Food And Feed Production In Semi-Arid Climates: Utilizing Trickling Filter-Treated Wastewater
Idris B. Allinson Temilade A. Olatunji	<i>1 Federal Polytechnic, Ilaro, Department Of Agricultural Technology, Ogun State</i>	Harvesting Urban Wisdom: A Policy Blueprint For Sustainable Nigeria Inspired By Latin America's Tales And Ecological Echoes
Sayedha Humaira Tanjum Mohammad Mehedi Hasan Khan Rubaiat Nazneen Akhand	<i>Sylhet Agricultural University</i>	Phytochemical, Biochemical And Antimicrobial Characteristics Of Cinnamon, Clove, Cardamom And Black Pepper

29.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILITION	ABSTRACT TITLE
Md. Zakariya Alam Bappi Apon Chandra Paul Shohan Ali Sagor Gharami Nur Ullah Shadin Avinandan Paul Seemanto Mohammad Abu Hena Mostofa Jamal Rezuhanul Islam	<i>Islamic University</i>	Plant-Mediated Green Synthesis Of Silver Nanoparticles Using Coleus Amboinicus (Mexican Mint) To Control Multidrug Resistance Pathogen Of Post-Covid Patient's Respiratory Tract Infection: An Integrated Experimental, Molecular Docking, And Molecular Dynamics Simulation Study
Wissem Belkheir Wafa Tebboune Zahra Bounouara Fatima Zohra Hadjadj	<i>University Of Sciences And Technology Of Oran- Mohamed Boudiaf</i>	A Microscopic Analysis Of Shared Lane Capacity Under Variables Green Time And Heterogeneous Turning Traffic Movements
G. M. S. I. Azad M. R. N. Alam M. Ashikuzzaman M. R. Rahman M. A. Alim	<i>Sichuan Road & Bridge (Group) Corporation Ltd.</i>	Effect Of Rainfall On Slope Stability Using Finite Element Method (Fem): A Case Study In Rangamati, Bangladesh
Tanmoy Datta Md. Moznuzzaman	<i>Jashore University Of Science And Technology</i>	Comparative Wavelet-Based And Conventional Filtering Techniques For Surface Emg Assessment In Low Back Pain Patients
Mahmud, M.R.A. Alam, M.S.	<i>Bau</i>	Genetic Diversity And Population Structure Of Climbing Perch (Anabas Testudineus) Collected From Southeast Asia Based On Mitochondrial Cytochrome C Gene Sequence Analysis
Prial Chowdhury	<i>University Of Chittagong</i>	Magnetic Graphene Oxide (Mgo): The Best Solution For Removing Heavy Metals From Water
Asifa Noor Shafiqul Islam Syful Islam	<i>Khulna University</i>	Comparative Effects Of Conventional And No-Tillage Systems On Soybean Productivity And Seed Composition Under Moderate Salinity
Diganta Bose Ritu Mondal Md. Moznuzzaman	<i>Jashore University Of Science And Technology</i>	Design Of Non-Adaptive Filtering And Wavelet Transform Techniques For Emg Noise Reduction
Rubaiatul Islam Zerin Kamrul Hossain Iffat Ara Umee Habiba Tini Faria Islam Akib Javed Anisul Kabir	<i>Islamic University</i>	E-Waste Generation And Disposal Practices In Urban Bangladesh: A Case Study Of Kushtia Municipality

29.11.2025

Kyrenia Local Time: 11:30-13:30

Ankara Local Time: 12:30-14:30

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[exp. Hall 1, Samet Kuşkıran](#)**SESSION-2, HALL-5 / OTURUM-2, SALON-5****MODERATOR: Jai Gopal Gupta**

Meeting ID: 929 9691 8209
Passcode: 272829

AUTHOR	AFFILIATION	ABSTRACT TITLE
Jai Gopal Gupta	<i>National Institute Of Technology Sikkim</i>	Simulation-Based Evaluation Of Methanol-Diesel Blends In Ci Engines Using Ansys: Performance And Emission Insights
Valavala Prashanthi Juveria Nargis Palepu Naga Sridharbabu M.Suresh	<i>Bharat Institute Of Engineering And Technology</i>	Ai For Qr Code Safety
Valer Bocan Valentin Stângaci Cristina Stângaci Flavius Oprețoiu Teodor Petrița Florin Alexa Cristian Spătaru Dan Leșeanu	<i>Politehnica University Timișoara</i>	Development Of A Modular Covert Audio-Video Surveillance System For National Security Applications Using 4g/5g Transmission
Hossain Tamim A Datta, Narayan A. Saha, Anik A Chowdhury, Bappy A Habibulla, Mohammad A Fahima, Atika Rifat A Taki, Tajnim B Sarwatun, Mohima B Roy, Dola B Faisal, B Tasnim, Farhana	<i>Chattogram Veterinary And Animal Sciences University</i>	Transforming Dairy Whey Byproducts Into A Nutritious Mango-Infused Functional Beverage: Formulation, Nutritional Value, And Sensory Acceptance
Djihane Romainyssa Mahammed Nabila Belyagoubi-Behnammou Asmaa Dich Larbi Belyagoubi Sarrah Benaissa Kamal Benmansour Gabriele Di Marco Alessia D'agostino Antonella Canini Angelo Gismondi	<i>University Of Tlemcen</i>	Development And Characterization Of Bioactive And Smart Biofilms Based On Plant Extracts And Oils For Sustainable Material Applications
Mizanur Rahman Nasir Uddin Wazid Ahmed Razi	<i>Daffodil Institute Of It(Diit)</i>	Guardnex - Advanced Multilingual Spam Detection Platform
Apurbo Kumar Biswas Khadija Akter Akhi Rahima Nasrin	<i>University Of Barishal</i>	Structural And Optical Characterization Of Cbd Deposited Copper Sulphide Thin Films

29.11.2025

Kyrenia Local Time: 14:00-16:00

Ankara Local Time: 15:00-17:00

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Passcode: 272829

AUTHOR	AFFILITATION	ABSTRACT TITLE
Aleyna Aydemir Gizem Yıldırım Baştemur Sabriye Perçin Özkorucuklu	<i>Istanbul University</i>	Evaluation Of The Phytochemical Profile And Antioxidant Activity Of Stevia Rebaudiana Bertoni
Özlem Pelin Can Meryem Göksel Saraç Tuğba Dedebaş	<i>Afyon Kocatepe University</i>	The Effect Of Bitter Lupin (Lupinus Albus) Addition On The Physical, Microbiological And Sensory Properties Of Beef Meatballs
Özlem Pelin Can Meryem Göksel Saraç Tuğba Dedebaş	<i>Afyon Kocatepe University</i>	The Effect Of Hemp Powder On Yogurt Quality Parameters
Pınar Gümüş	<i>Kilis 7 Aralik University</i>	A Valuable Marine-Based Omega-3 Source: Antarctic Krill Oil
Eda Elgin Kılıç Songül Kesen	<i>Gaziantep University</i>	Effects Of Microencapsulation On The Stability Of Phenolic And Antioxidant Compounds In Functional Food Systems
Zeynep Yumlu Durmuş Erdurmuş Emre Evlice	<i>Sivas University Of Science And Technology</i>	Biocontrol Potential Of Clonostachys Rosea Isolates Against Selected Soil-Borne Fungal Pathogens Of Lettuce
Ferda Gizem Bal Zeynep Yumlu Emre Evlice	<i>Sivas University Of Science And Technology</i>	Plant Parasitic Nematodes Causing Damage In Ornamental Plants
Çağlar Doğan	<i>Istanbul University</i>	Mechanisms Of Mass Generation For Neutrinos In Su(5) Grand Unified Theories

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Kyrenia Local Time: 14:00-16:00

Ankara Local Time: 15:00-17:00

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AUTHOR	AFFILITATION	ABSTRACT TITLE
Ali Akay Fatih Güven	<i>Hacettepe University</i>	Mechanical Performance Assessment For Multipass Welding Of Dissimilar S690ql And S355j2+N Materials Using G4si1 Filler Wire
Nazlı Keklik Cinkara Deniz Adıgüzel Serkan Tüylü Ismail Demir	<i>Istanbul University</i>	Environmental Management And Cyanide Removal Of Gold Mine Cyanide-Bearing Wastes
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Kübranur Ağtoprak Uğur Karaaslan	<i>R&D Specialist</i>	Sustainable Alternative Corrosion Inhibitors For Engine Coolant Fluids
Çağla Taşkın Uğur Karaaslan	<i>R&D Engineer</i>	Improvement Of Boundary Lubrication Characteristics With Different Ester Types

29.11.2025

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Rajveer Sarup Palak Kumari	<i>Bsc Biotechnology, Ct Group Of Institutions</i>	Oyster Mushrooms: Therapeutic Significance In Cvd
Abdurrahman Idris	<i>Umaru Musa Yaradua University</i>	Machine Learning Approaches For Predicting Quantum States In Simple Quantum Systems
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Mourad Aloui Elhalaoui Menana	<i>Sidi Mohamed Ben Abdellah University</i>	In Silico Design Of Novel Dihydropteridone Derivatives With Oxadiazoles As Potent Inhibitors Of MCF-7 Breast Cancer Cells
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Razia Sultana Ruba	<i>University Of Rajshahi</i>	Climate Change And Anthropogenic Waterlogging: Small Farmers' Vulnerability To Food Security In Barind Area Of Bangladesh
Chandani Sharma Dr Jai Singh	<i>Deemed To Be University</i>	Re -Processing Of Melon By - Products For A Variety Of Valorized Products
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HAYVAN SAĞLIĞI VE BESLENMESİNDE FİTOTERAPİ: FİTOTERAPİK BİTKİLER

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ÖZET

Fitoterapi, tedavi edici, hastalıkları iyileştirici ve hastalıkları önleyici olarak tanımlanmış, tıbbi bitkiden doğrudan doğruya; ya da bitkinin belli kısımlarından yararlanılarak gerçekleştirilen tedavi yöntemidir. Fitoterapi tarihsel olarak çok eski dönemlere, antik medeniyetlere kadar uzanmaktadır. İlk izlerine Mısır, Çin, Hindistan ve Yunan medeniyetlerinde rastlanır. Antik Mısır'da bitkisel ilaçlar, tıbbi uygulamalarda ve hayvanlardaki çeşitli rahatsızlıkların tedavisinde kullanılmıştır. On sekizinci yüzyılın sonları ve on dokuzuncu yüzyıl başlarında bitkilerin kimyasal içeriği hakkında fazla bir bilgi olmadığından bitkilerin, koruma ve tedavi edici etkileri yıllar boyunca elde edilmiş tecrübeleri temel almıştır. Günümüzde yapılan son araştırmalar ise bitkilerde bulunan sekonder metabolitler ve bu metabolitlerin hayvan verimi, sağlığı ve kalitesi üzerine olmuştur. Bu bileşikler hem rumen sağlığı hem de hayvansal üretim açısından önem ihtiva etmektedir. Fenolik bileşikler içeren bitkiler ile beslenen hayvanlarda yem tüketimi ile birlikte hayvansal ürünlerde verim ve kalite de artmaktadır. Sekonder metabolitler antioksidan ve antimikrobiyal özellikleri ile ruminant hayvanlarda şişkinlik ve asidoz gibi beslenme bozukluklarını kontrol altına almaktadır. Söz konusu metabolitler doğal antibiyotik olarak da işlevsel görev üstlenmektedir. Bu durum dışarıdan sentetik antibiyotik kullanılmasını sınırlandırırken, hayvan sağlığı, kalitesi, verimi açısından önem arz etmektedir. Ayrıca biyoaktif bileşenler hayvansal kaynaklı küresel ısınmaya azaltılmasına katkı sunması açısından da önem arz etmektedir. Fitoterapik özellik gösteren birçok bitki bulunmaktadır. Bu bitkilerin bazılarının tarımı yapılırken, bazıları ise doğada yabani formda bulunmaktadır. Bu derlemede, fitoterapinin hayvan sağlığı ve beslemesi açısından önemi ile fitoterapik bitkiler hakkında bilgi verilmesi amaçlanmıştır.

Anahtar kelimeler: Fitoterapi, , sekonder metabolit, hayvan sağlığı, hayvan besleme.

**PHYTOTHERAPY IN ANIMAL HEALTH AND NUTRITION:
PHYTOTHERAPEUTIC PLANTS**

ABSTRACT

Phytotherapy is defined as a therapeutic method that utilizes medicinal plants directly, or certain parts of plants, for healing, treatment, and disease prevention purposes. The history of phytotherapy dates back to ancient times and early civilizations. Its first traces can be found in Egyptian, Chinese, Indian, and Greek civilizations. In ancient Egypt, herbal medicines were used in medical practices and for the treatment of various animal ailments. At the end of the eighteenth century and the beginning of the nineteenth century, there was limited knowledge about the chemical composition of plants; therefore, the protective and healing effects of plants were based on years of accumulated experience. Modern research, however, has focused on the secondary metabolites found in plants and their effects on animal productivity, health, and quality. These compounds are important for both rumen health and overall animal production. Animals fed with plants containing phenolic compounds show increased feed intake, as well as improvements in yield and quality of animal products. Secondary metabolites, with their antioxidant and antimicrobial properties, help control nutritional disorders such as bloating and acidosis in ruminants. These metabolites also act as natural antibiotics, thereby reducing the need for synthetic antibiotics and contributing positively to animal health, productivity, and product quality. In addition, bioactive compounds are significant due to their potential to reduce livestock-related global warming. There are many plants with phytotherapeutic properties-some are cultivated, while others grow naturally in the wild. This review aims to provide information about the importance of phytotherapy in terms of animal health and nutrition, as well as to introduce various phytotherapeutic plants.

Keywords: Phytotherapy, secondary metabolite, animal health, animal nutrition.

1. Giriş

Tıbbi nitelik taşıyan bitkiler, son yıllarda hayvan hastalıklarının tedavisinde alternatif bir yaklaşım olarak öne çıkmaya başlamıştır. Avrupa ve Asya kökenli tarihsel kaynaklarda bu bitkilerin hayvan sağlığı açısından önemi uzun zaman önce belirtilmiş olsa da, nicel verilere dayanan araştırmaların azlığı nedeniyle gerçek değerleri tam olarak ortaya konulamamıştır (Mayer ve ark., 2014). Günümüze kadar yapılan çalışmaların çoğu, bu bitkilerin tanımlanması, uçucu yağ bileşenleri ve insan sağlığına yönelik etkileri üzerinde yoğunlaşmıştır. Buna karşılık, hayvan besleme açısından taşıdıkları yem değeri konusunda oldukça sınırlı sayıda araştırma bulunmaktadır. Oysa bu bitkiler, çeşitli bakteriyel patojenlere karşı doğal antibiyotik özellik gösteren organik bileşikler içermektedir (Sipponen ve ark., 2012). Kowalczyk ve ark. (2013), hayvan beslenmesinde kullanılan dış kaynaklı antibiyotik katkılarının 2006 yılında yasaklanmasıyla birlikte, sekonder metabolitler bakımından zengin olan tıbbi bitkilerin antibiyotiklere potansiyel bir alternatif haline geldiğini ifade etmektedir.

Son yıllarda ruminant beslenmesine yönelik araştırmalar, sekonder metabolitlerin rumen fonksiyonları ve hayvansal performans üzerinde kritik bir role sahip olduğunu ortaya koymuştur (Patra ve ark., 2006; Lee ve ark., 2017; Rochfort ve ark., 2008). Dohi ve ark. (1997), fenolik bileşikler içeren bitkilerle beslenen hayvanlarda yem tüketiminin arttığını ve bunun üretim parametrelerine olumlu katkı sağladığını rapor etmiştir. Santos Neto ve ark. (2009) ile Frozza ve ark. (2013) ise bu bileşiklerin güçlü antioksidan ve antimikrobiyal özellikler taşıdığını vurgulamaktadır. Ayrıca flavonoidler ve fenolik bileşiklerin rumen fermentasyonunun düzenlenmesi, şişkinlik ve asidoz gibi beslenmeye bağlı sorunların kontrolünde etkili olduğu belirlenmiştir (Seradj ve ark., 2014; Paula ve ark., 2016).

Bu derlemede, fitoterapinin hayvan sağlığı ve beslemesi açısından önemi ile fitoterapik bitkiler hakkında bilgi verilmesi amaçlanmıştır.

2. Fitoterapi

Tarihte ilk kez Fransız hekim Henri Leclerc (1870-1955) tarafından kullanılan bir terim olan fitoterapi; tedavi edici, hastalıkları iyileştirici ve hastalıkları önleyici olarak tanımlanmış tıbbi bitkiden doğrudan doğruya; ya da bitkinin belli kısımlarından yararlanılarak gerçekleştirilen tedavi yöntemidir (Faydaloğlu ve Sürücüoğlu, 2011). Fitoterapi insan ve hayvan sağlığı ile beslenmesinde önemli bir rol oynar. Doğal tedavi seçenekleri sunarak kimyasal ilaçlara alternatif oluşturur ve kimyasal ilaçların kullanımını azaltmaktadır.

Fitoterapi tarihsel olarak çok eski dönemlere, antik medeniyetlere kadar uzanmaktadır. İlk izlerine Mısır, Çin, Hindistan ve Yunan medeniyetlerinde rastlanmaktadır. Antik Mısır'da bitkisel ilaçlar, tıbbi uygulamalarda ve çeşitli rahatsızlıkların tedavisinde kullanılmıştır. Yine Babil–Asur tabletlerinde çok sayıda bitki (güzel avrat otu, tatula, keten, servi, sedir ağacı, incir ağacı, soğan) tedavi amaçlı kullanım açısından tanımlanmıştır (Makarska-Bialokoz, 2019).

Fitoterapi, insanlık tarihinin en eski dönemlerine uzanan bir uygulama olup, zamanla toplumların kültürel yapısına ve günlük yaşamına yerleşmiş, çoğu kişinin sorgulamadan benimsediği bir tedavi yöntemi hâline gelmiştir. Günümüzde dünya nüfusunun yaklaşık %80'inin tercih ettiği bitkisel tedaviler, Tıbbın babası kabul edilen Hipokrat da dâhil olmak üzere birçok önemli tarihi ismin katkılarıyla şekillenmiştir. Yüzyıllar önce tarif edilen bitkisel ilaçların kişiden kişiye değişen etkiler gösterebileceği ve deneysel çalışmalarla çeşitli karışımların oluşturulabileceği bilgisi, modern tıp dünyasında uygulanan tedavi yaklaşımlarının temelini oluşturmuştur (Özdemir ve Erdal, 2021).

Bitkilerin ürettiği doğal ürünler olan sekonder metabolitler (Terpenler, fenolik bileşikler ve azotlu bileşikler) doğrudan ve dolaylı olarak fitoterapinin kaynağını oluşturmaktadır. Bitkilerin

büyümleri ve gelişmeleri sırasında çok fazla işlevleri olmayan çok sayıda ve çeşitli organik bileşikler olan sekonder metabolitler, ikincil ürünler veya doğal ürünler olarak da adlandırılırlar (Tiring ve ark., 2021). Daha sonra yapılan çalışmalarda sekonder metabolitlerin bitkilerin zararlılara, hastalıklara, olumsuz çevre koşullarına karşı dayanıklılık oluşturmaları ve bazı yabancı otlara karşı allelopatik etki göstermesinden dolayı bitkinin yaşamsal işlevi açısından en az birincil metabolitler kadar önemli olduğu tespit edilmiştir.

Sekonder metabolitler canlıların sağlığı üzerinde koruyucu ve destekleyici etkileri nedeniyle günümüzde pek çok endüstride ham madde olarak değerlendirilmektedir. Tıp ve eczacılıkta yaygın kullanım alanı bulmalarının yanı sıra fonksiyonel gıdalar ve besin takviyelerinde de önemli bir yere sahiptirler. İlk kez 1891 yılında tanımlanan bu bileşikler, antiinflamatuvar, antioksidan, hipoglisemik ve hipolipidemik etkiler göstermektedir. Ayrıca söz konusu bileşikler tromboz ve kanser gelişimine karşı koruyucu nitelik taşıyabildikleri de ortaya konulmuştur. Bu çok yönlü biyolojik aktiviteler, söz konusu bileşiklerin obezite, diyabet, metabolik sendrom, dislipidemi, kardiyovasküler hastalıklar ve kanser gibi çeşitli kronik hastalıkların önlenmesinde potansiyel bir rol üstlenebileceğini düşündürmektedir (Ülger ve Ayhan, 2020).

3. Hayvan Sağlığı ve Beslenmesinde Fitoterapi

Dünya nüfusunun hızla artmasıyla birlikte gıda talebi de önemli ölçüde yükselmiş, bu ihtiyacı karşılamak amacıyla bitkisel ve hayvansal üretimde çeşitli kimyasal maddelerin ve ilaçların kontrolsüz biçimde daha yoğun kullanılmaya başlandığı görülmüştür. Özellikle antibiyotikler başta olmak üzere birçok kimyasalın gıdalarda bıraktığı kalıntılar, tüketicilerde gıda güvenliği konusunda ciddi endişelere yol açmaktadır. Bu kaygıları azaltmak amacıyla gelişen organik üretim anlayışı, son yıllarda pek çok ülkede organik hayvancılığın hızla yaygınlaşmasına neden olmuştur. Organik hayvancılıkta sentetik veteriner ilaçlarının ve antibiyotiklerin kullanımına yönelik kısıtlamalar, alternatif tedavi seçeneklerinin araştırılmasını zorunlu kılmaktadır. Bu doğrultuda, hem insan hem de hayvan sağlığında hastalıkların önlenmesi ve mevcut semptomların hafifletilmesi amacıyla bitkisel kaynaklı ürünlerin kullanılmasını ifade eden fitoterapi uygulamaları önemli bir seçenek olarak öne çıkmaktadır (Yanar ve Aktaş, 2021; Kaymaz ve Gülümser, 2023).

İkinci bileşikler hem rumen fonksiyonlarının korunması hem de hayvansal üretimde verimliliğin artırılması açısından önemli bir yere sahip olduğu çeşitli araştırmalarda ortaya konmuştur. Söz konusu bileşiklerce zengin bitkilerle beslenen hayvanlarda yem tüketiminin yükseldiği ve bunun da ürün miktarı ile kalitesine olumlu yansıdığı bildirilmektedir. Ayrıca flavonoidler ve fenolik maddeler, belirgin antioksidan ve antimikrobiyal aktiviteleri sayesinde ruminantlarda şişkinlik ve asidoz gibi beslenmeye bağlı sorunların kontrol altına alınmasına katkı sağlamaktadır. Doğal antibiyotiklere duyulan ihtiyacı azaltarak hayvan sağlığı ve verimliliği açısından önemli bir avantaj sunmaktadır. Nitekim 2006 yılında hayvan beslemede antibiyotik kullanımına getirilen kısıtlamalar sonrasında, sekonder metabolit içeren bitkiler doğal antimikrobiyal kaynaklar olarak öne çıkmış ve alternatif bir seçenek hâline gelmiştir (Rochfort ve ark., 2008; Santos Neto ve ark., 2009; Frozza ve ark., 2013; Seradj ve ark., 2014; Paula ve ark., 2016; Patra ve ark., 2016; Lee ve ark., 2017; Kaymaz ve Gülümser, 2023).

4. Fitoterapide Öne Çıkan Bazı Bitkiler

Bitkiler, hastalık ve zararlılara karşı savunma amacıyla işlev gören, aynı zamanda çeşitli fizyolojik süreçlerde sinyal molekülü olarak rol alan geniş bir ikincil bileşikler üretmektedir. Bu bileşikler, sahip oldukları çok yönlü biyolojik ve farmakolojik etkiler nedeniyle dikkat çekmektedir. Nitekim pek çok bitki ya da onlardan elde edilen türevler, geçmişten günümüze enfeksiyonların, sağlık bozukluklarının ve çeşitli hastalıkların tedavisinde doğal bir kaynak

olarak kullanılmaya devam etmektedir. Bitkiler ve bitki özütleri ile yapılan birçok çalışmalarda ikincil bileşiklerin çeşitli hasatlıklara karşı kullanılma imkânlarının değerlendirilmesi amacıyla yürütülmüştür (Meenakshisundaram ve ark., 2016; Da Silva ve ark., 2017; Hajaji ve ark., 2018; Giovanelli ve ark., 2018; Saddiqe ve ark., 2019).

4.1. Aslan dişi (*Taraxacum officinale* L.): Papatyagiller (Asteraceae) familyasından, Avrasya'ya özgü, yenilebilir, otsu, çok yıllık bir yabani çiçek veya ottur. Bitkinin yaygın adı, dişli koyu yeşil yapraklarına atıfta bulunarak "aslan dişi" anlamına gelmektedir. Aslan dişinin kültürel olarak yetiştirilmesi yaygın olmamakla birlikte, geleneksel uygulamalarda kök ve yapraklarının çeşitli amaçlarla kullanıldığı bilinmektedir. Besin içeriği incelendiğinde, özellikle yapraklarının protein, karbonhidrat, kalsiyum, magnezyum ve B grubu vitaminler açısından zengin bir bileşime sahip olduğu görülmektedir.

4.2. Sinir otu (*Plantago* spp.): Plantaginaceae familyasından yaklaşık 200 çiçekli bitki türünü kapsayan bir cins olan sinir otu, yüzyıllardır tıbbi amaçlarla kullanılan bir bitki olup geçmişte köpek ısırıkları, astım ve diş ağrısı gibi çeşitli sağlık sorunlarının tedavisinde yararlanılmıştır. Günümüzde ise en uygun değerlendirme alanının mera karışımları olduğu belirtilmekte; ayrıca bitkinin özellikle kalsiyum ve magnezyum bakımından zengin mineral içeriği ile dikkat çektiği bildirilmektedir.

4.3. Hindiba (*Cichorium intybus* L.): Asteraceae familyasından, genellikle parlak mavi, nadiren beyaz veya pembe çiçeklere sahip, odunsu, çok yıllık bir otsu bitkidir. Avrupa'ya özgü olan bu bitki, Amerika ve Avustralya'ya da getirilmiştir. Hindibanın insan tarafından kullanımı çok eski dönemlere uzanmakta olup, Antik Mısır'da kanı ve karaciğeri arındırdığına ve kalp rahatsızlıklarının tedavisinde yararlı olduğuna inanıldığı bilinmektedir. Çiftlik hayvanları tarafından da iştahla tüketilen bu bitki, daha sonra Yeni Zelanda'da ticari olarak yetiştirilerek piyasaya sunulmuştur.

4.4. Soda otu (*Salsola* spp.): Kazayağıgiller (Chenopodiaceae) familyası içerisindeki "Soda otu" (*Salsola*) içerisinde yer alan endemik bir türdür. Tuzlu, kurak ve ılıman ekosistemlerde yaygın olarak yetişebilen bu bitkiler, yüksek sıcaklık ve tuzluluk düzeylerinde dahi yüksek tohum ve ot verimi sağlayabilmektedir. Diğer kültür bitkilerinin kuruyarak besin değerini kaybettiği dönemlerde ise yüksek protein içerikleri sayesinde alternatif ve değerli bir yem kaynağı olarak öne çıkmaktadır.

4.5. Çayır düğmesi (*Sanguisorba* spp.): Gülgiller (Rosaceae) familyasından çok yıllık bir bitki türü olan çayır düğmesinin anavatanı batı, orta ve güney Avrupa olmasına karşın, Kuzeybatı Afrika ve Batı Asya'nın güneybatısında ve en çok da Kuzey Amerika'da doğallaşmış durumdadır. Çayır düğmesinin otu, hayvanlar tarafından iştahla tüketilen, lezzetli ve yüksek besleme değerine sahip bir yem bitkisidir. Yeşil olarak otlatıldığında bile şişkinliğe yol açmaması, sindirilebilirliğinin yüksek olmasını göstermektedir. Her ne kadar bazı bitkilere göre protein içeriği daha düşük olsa da, sindirilebilirliği nedeniyle hayvan beslemesinde tercih edilmesi önerilmektedir.

4.6. Yem pancarı (*Beta vulgaris* var.): Etli ve şişkin kökü için yetiştirilen iki yıllık bir bitkidir. Yem pancarı, kolay sindirilebilmesi, yüksek enerji içeriği ve süt ile et verimini artırıcı etkileri nedeniyle değerli bir yem bitkisi olarak kabul edilmektedir. Yüksek kuru madde verimi sayesinde silaj yapımında da kullanılabilen bu bitki, özellikle süt veriminde belirgin artış sağlamasıyla dikkat çekmektedir.

4.6. Taş yoncaları (*Melilotus spp*): Sarı ve beyaz çiçekli olan taş yoncaları, Fabaceae familyasından baklagiller bitkileridir. Azot sabitleyici özelliğe sahip olan *Melilotus albus*, değerli bir bal bitkisi olarak kabul edilir, nektar kaynağıdır ve genellikle yem bitkisi olarak yetiştirilir. Taş yoncaları, düşük tanen içeriği sayesinde besin maddelerinin emilimini artırırken, yüksek lif oranı sindirim sisteminin sağlıklı işleyişine katkı sağlar; bu özellikleri ruminant hayvanlar için büyük önem taşımaktadır. Ayrıca yüksek protein, vitamin ve mineral içeriği ile besleyici bir yem kaynağı olan taş yoncası, özellikle süt inekleri ve besi hayvanları için ideal bir tercih olarak öne çıkmaktadır.

4.7. Şerbetçi otu (*Humulus lupulus L*): Cannabaceae (kendirgiller) familyasından Temmuz-Eylül ayları arasında yeşilimsi-beyaz renkli çiçekler açan, 2–5 m yüksekliğinde, sarılcı gövdeli, iki evcikli otsu bir bitki türüdür. Şerbetçi otu, içerdiği sekonder metabolitler sayesinde hayvanların büyümesini destekler ve rumende amonyak üretimini inhibe ederek hayvansal kaynaklı sera gazı emisyonlarının azaltılmasına katkıda bulunur. Ayrıca doğal bir antibiyotik işlevi görmesi, dışarıdan sentetik antibiyotik kullanımını sınırlayarak hayvan sağlığı ve üretiminde önemli avantajlar sağlar.

Tablo 1. Farklı bitkilerde belirlenen bazı ikincil bileşikler

Bitki Adı	KT	TFN	TFL	DPPH	TA
Sinir otu (<i>Plantago spp.</i>)	1.0-5.0	11.73	9.74	18.27-86	0.1-0.5
Hindiba (<i>Cichorium intybus L.</i>)	0.5-1.5	16.2	5.38	20-79	0.1-5.0
Aslandişi (<i>Taraxacum officinale L.</i>)	5.0-10.0	40.50	33.58	30-90	1.0-5.0
Soda otu (<i>Salsola spp.</i>)	3.0-5.0	10.7	20.00-50.00	27.3-90	0.1-1.0
Çayır düğmesi (<i>Sanguisorba spp.</i>)	1.0-3.0	15.00	10.00-30.00	25-90	0.1-4.0
Yem pancarı (<i>Beta vulgaris</i>)	0.1-0.5	40.06	30.08	7.79-75	0.01-0.1
Şerbetçi otu (<i>Humulus lupulus L.</i>)	1.38-5.42	11.38-43.41	11.87-13.32	15.6-81.7	2.95-3.72
Taş Yoncası (<i>Melilotus officinalis</i>)	0.5-1.5	10.00-50.00	20.00-150.00	40-80	0.1-0.5

KT: Kondanse tanen (%); TFN: Toplam fenolik (mg GA g⁻¹); TFL: Toplam flavonoid (mg QE g⁻¹); DPPH: Radikal kovucu aktivite (%); Total alkaloit (%).

Farklı araştırmacılar tarafından yapılan çalışmalarda bazı bitkilerde belirlenen ikincil bileşikler Tablo 1’de verilmiştir (Uyar, 2012; Yıldırım, 2018; Karadağ, 2019; Kaymaz ve Gülümser, 2023). Bitkilere bakıldığında içerikler bakımından varyasyonu geniş olduğu görülmektedir.

5. Sonuç

Fitoterapi, geçmişten günümüze hem insan hem de hayvan sağlığında önemli bir yere sahip olan, doğal ve etkili bir tedavi yaklaşımıdır. Tıbbi bitkilerin içerdiği sekonder metabolitler; antioksidan, antimikrobiyal, antiinflamatuvar ve rumen fonksiyonlarını düzenleyici özellikleri sayesinde hayvan besleme ve sağlığında güçlü bir alternatif oluşturmaktadır. Ruminantlarda şişkinlik, asidoz gibi beslenmeye bağlı problemlerin kontrol altına alınmasında, yem tüketiminin iyileştirilmesinde ve hayvansal ürünlerin verim ile kalitesinin artırılmasında fitoterapik bileşiklerin önemli rol oynadığı çeşitli araştırmalarla ortaya konmuştur. Ayrıca bu bileşiklerin doğal antibiyotik olarak işlev görmesi, özellikle antibiyotik kullanımının sınırlandırıldığı modern hayvancılıkta büyük avantaj sağlamaktadır.

Fitoterapik özellikler taşıyan bitkilerin hem yüksek besleme değerleri hem de fizyolojik süreçlere olumlu etkileri, bu bitkilerin hayvan besleme programlarına entegre edilmesini cazip hâle getirmektedir. Özellikle sürdürülebilir hayvancılık, organik üretim ve çevresel etkilerin azaltılması açısından sekonder metabolitlerce zengin bu bitkilerin kullanımının yaygınlaştırılması önem arz etmektedir.

Sonuç olarak, fitoterapi; hayvan sağlığının korunması, verimliliğin artırılması, antibiyotik kullanımının azaltılması ve çevresel sürdürülebilirliğin desteklenmesi açısından modern hayvancılıkta güçlü bir tamamlayıcı unsur olarak öne çıkmaktadır. Bu alanda yapılacak daha kapsamlı ve kontrollü çalışmalar, bitkisel bileşiklerin hayvansal üretimde daha bilinçli ve etkin kullanımına katkı sağlayacaktır.

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CERTIFICATE OF PARTICIPATION



SELÇUK
ÜNİVERSİTESİ



THIS IS TO CERTIFY THAT

Erdem Gülümser

attended the 18th International Conference on Engineering & Natural Sciences
held on November 27-29, 2025 / Kyrenia, Turkish Republic of Northern Cyprus
with an oral presentation entitled

Phytotherapy In Animal Health And Nutrition: Phytotherapeutic Plants

A stylized blue ink signature of Prof. Dr. Tolga KARAKÖY.

Prof. Dr. Tolga KARAKÖY
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