



## 7th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL AND APPLIED SCIENCES (ICANAS 2024)

### 7. ULUSLARARASI DOĞA VE UYGULAMALI BİLİMLERDEKİ GELİŞMELER KONFERANSI (ICANAS 2024)

APRIL, 17<sup>TH</sup>-20<sup>TH</sup> 2024  
17-20 NİSAN 2024  
ANTALYA, TÜRKİYE



IC Hotels Green Palace, Kundu Mahallesi Yaşar Sobutay Cad  
No:432, 07070 Aksu/Antalya, TÜRKİYE



ICANAS 2024

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**We would like to thank all our sponsors who supported ICANAS 2024 with their participation and contributions...**

Dear colleagues,

On behalf of the Scientific and Organizing Committee, following the six tremendously successful ICANAS conferences we have held in IC Hotels Green Palace, Antalya, we are pleased to invite you to participate in the 7th International Conference on Advances in Natural and Applied Sciences (ICANAS 2024) that will be held in Antalya at the summit of Anatolia on 17-20 April 2024.

ICANAS 2024 stands for International Conference on Advances in Natural and Applied Sciences open to researchers from all over the world working in the fields of Natural and Applied Sciences. It serves as a platform to present the latest research results, to exchange new ideas and application experiences, to discuss challenging issues, to establish research relations and to find global partners for future collaboration. ICANAS 2024 is a non-profit scientific organization.

Exclusive scientific committee and organizing committee of the conference are to ensure that the congress is conducted following high academic standards. We hope that the conference results provide significant contribution to the global knowledge in the relevant scientific fields.

We are proud that ICANAS 2024 is taking place in Antalya, with the support of the İbrahim Çeçen Foundation and with the auspices of Ağrı İbrahim Çeçen University. For their precious financial support, I also like to thank all of the scientific institutions and commercial sponsors listed in the program.

We thank you for your participation and hope that this conference will provide an excellent chance to network with leading scientists from around the globe in the stimulating atmosphere of the venue on the Antalya.

We hope that everyone's stay is enjoyable and productive.

Best regards,

Prof. Dr. Önder ŞİMŞEK

Conference Chair

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## GENERAL INFORMATION ON ICANAS 2024

### CONFERENCE VENUE

IC Hotels Green Palace – Kundu Mahallesi Yaşar Sobutay Cad No:432, 07070 Aksu/Antalya, Türkiye

### INSTRUCTION FOR PRESENTERS

#### Oral Presentations

Oral presentations are limited to 7 min presentation plus 3 min discussion.

If using a Power Point Presentation, please note you need to bring it on USB Memory stick or CD/DVD and load it on one of the symposium computers in the Speakers' Ready Room at least 1 hour before the start of the session.

Alternatively you may supply a personal laptop computer. In such a case please confirm that it has a VGA socket for external signal and come to check it first in the Speakers' Ready Room and later on in the session hall where your lecture is taking place at least 30 minutes before the start of the session. If you would like to show video films with Power Point, please make sure to check it in the session hall at least 40 minutes before the start of the session.

#### Poster Session

One poster sessions have been scheduled: Thursday 18th April. Posters must be 70 cm (width) x 100 cm (height). Corresponding numbers can be found in the poster list at the end of this booklet.

#### Topics

Agriculture and Food Sciences  
Architecture and Engineering  
Biology  
Chemistry  
Genetic  
Health Sciences  
Mathematics and Science Education  
Mathematics  
Physics



## **OPENING REGISTRATION**

The registration desk will be open from Wednesday, April 17th, from 13:00 onwards and every day from 08:30 until the end of the sessions.

## **NAME BADGE POLICY**

We respectfully ask that attendees wear their conference name badges to all scientific sessions and social events.

## GENERAL PROGRAM

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### Wednesday, April 17<sup>th</sup> 2024

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<b>13:00</b>	<b>17:00</b>	<b>Register</b>
<b>20:00</b>	<b>21:00</b>	<b>Welcoming cocktail</b>

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### Thursday, April 18<sup>th</sup> 2024

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<b>09:30</b>	<b>11:00</b>	<b>Opening ceremony</b>
<b>11:00</b>	<b>12:20</b>	<b>Plenary Session</b> Hall A
12:20	12:40	Coffee break
13:00	14:00	Lunch
<b>14:00</b>	<b>14:40</b>	<b>Plenary Session</b> Hall A
<b>14:40</b>	<b>16:00</b>	<b>Parallel Sessions</b> Hall A, Hall C, Hall D
16:00	16:20	Coffee break
<b>16:20</b>	<b>17:20</b>	<b>Parallel Sessions</b> Hall A, Hall C, Hall D
17:20	17:40	Coffee break
<b>17:40</b>	<b>18:50</b>	<b>Parallel Sessions</b> Hall A, Hall C, Hall D
<b>17:00</b>	<b>19:00</b>	<b>Poster Session</b> Hall B

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### Friday, April 19<sup>th</sup> 2024

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<b>09:00</b>	<b>10:20</b>	<b>Plenary Session</b> Hall A
<b>10:20</b>	<b>11:20</b>	<b>Parallel Sessions</b> Hall A, Hall C, Hall D
11:20	11:40	Coffee break
<b>11:40</b>	<b>13:00</b>	<b>Parallel Sessions</b> Hall A, Hall C, Hall D
13:00	14:00	Öğle Yemeği
<b>14:00</b>	<b>15:00</b>	<b>Parallel Sessions</b> Hall A, Hall C, Hall D
<b>15:00</b>	<b>19:00</b>	<b>Social program</b>

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### Saturday, April 20<sup>th</sup> 2024

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**Closing**

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## SCIENTIFIC PROGRAM

**Wednesday, April 17<sup>th</sup> 2024**

<b>13:00</b>	<b>17:00</b>	<b>Register</b>
<b>20:00</b>	<b>21:00</b>	<b>Welcoming cocktail</b>

**Thursday, April 18<sup>th</sup> 2024**

**09:30**      **11:00**      **Opening ceremony**

**11:00**      **12:20**      **PLENARY SESSION**

**PLENARY SESSION**

**HALL A**

**Chair: Prof. Dr. Murat Aydın**

11:00      11:40      **Prof. Dr. İlhami Gülçin**, Atatürk University, Türkiye  
Antioxidants and Their Potential as Medicines for  
Some Metabolic Diseases

11:40      12:20      **Prof. Dr. Naveen Kumar Arora**, Ambedkar  
University, India  
Bioremediation of saline soil using sustainable  
microbial technology: Success story from lab to land

12:20      12:40      Coffee break

**13:00**      **14:00**      **Öğle Yemeği**

**14:00**      **14:40**      **PLENARY SESSION**

**PLENARY SESSION**

**HALL A**

**Chair: Prof. Dr. Metin Akgün**

14:00      14:40      **Prof. Dr. Mohammad Ibrahim Abualsayed**,  
University of Tabuk, Saudi Arabia and the  
Department of Physics at Isra University, Amman,  
Jordan  
Enhancing Radiation Protection: A Comparative  
Analysis of Heavy Metal Oxides in Glass Shielding  
Systems

**14:40**      **18:50**      **PARALLEL SESSIONS**

**PHYSICS**

**HALL A**

**Chairs: Assoc. Prof. Dr. Bünyamin Ayygün, Assist. Prof. Dr. Akın Akıncioğlu**

14:40      14:50      **ID: 32, Rıdvan Durak**, Nuclear Radiation Shielding  
Properties of Newly Developed Composite Metal  
Foams: Role of TeO<sub>2</sub> Addition and Foam Type

14:50      15:00      **ID: 33, Rıdvan Durak**, Base-State Properties of N-  
Electron Quantum Dot Structures Interacting Within  
the Morse Potential

15:00	15:10	<b>ID: 186, Muhammed Emin Güldüren</b> , Gas Sensor Applications of Metal Oxide Nanostructures Synthesized by Cost-Effective Usp Method
15:10	15:20	<b>ID: 124, Thekra Alqutamy</b> , Growth of Cerium Oxide Via Pulsed Electron Deposition as A Thin Film
15:20	15:30	<b>ID: 169, Bünyamin Aygün</b> , Development of New Metal Matrix Composite Materials with Tungsten Addition and Determination of Their Nuclear Radiation Protection
15:30	15:40	<b>ID: 175, Bünyamin Aygün</b> , High Temperature Resistant Insulation Composite Materials for Radiation Protection
15:40	15:50	<b>ID: 177, Mustafa Tolga Yurtcan</b> , Obtaining Graphene/Graphitic Structures on Catalyst Surfaces by PECVD Method
15:50	16:00	<b>ID: 123, Nahide Karabulut</b> , The Photoelectrical Performances of WS <sub>2</sub> -Based Photodiode
<b>16:00</b>	<b>16:20</b>	<b>Coffee break</b>
<b>HEALTH SCIENCES</b>		
<b>HALL A</b>		
<b>Chairs: Prof. Dr. Metin Akgün, Assist. Prof. Dr. Esra Şentürk</b>		
16:20	16:30	<b>ID: 74, Emine Terzi</b> , Effects Of B-Arbutin on Apoptosis and Cell Cycle A549 And H1299 Lung Cancer Cells
16:30	16:40	<b>ID: 75, Tuba Özdemir Sancı</b> , Investigation of Ilicic Acid on Apoptosis and Cell Cycle in Different Stages of Bladder Cancer Cells
16:40	16:50	<b>ID: 76, Beyza Ecem Öz Bedir</b> , Determination of Herniarin Effects on Apoptosis and Cell Cycle in Pancreas Ductal Adenocarcinoma Cells
16:50	17:00	<b>ID: 78, Emine Serap Çağan</b> , Assessment of Fall Risk in The Postpartum Period by Adapting the Postpartum Period Fall Risk Scale
17:00	17:10	<b>ID: 94, Buse Kaya</b> , Compilation of Innovative Studies Conducted Between 2020-2024 on Newborn Health
17:10	17:20	<b>ID: 119, Mehmet Güvenç</b> , Investigation of the Effects of Tomentosin Against Septic Heart Damage Model Due to Cecum Ligation and Perforation in Rats
<b>17:20</b>	<b>17:40</b>	<b>Coffee break</b>

## HEALTH SCIENCES

### HALL A

**Chairs: Assoc. Prof. Dr. Pınar Baykan, Assist. Prof. Dr. Emine Terzi**

17:40	17:50	<b>ID: 137, Esra Şentürk</b> , Effect of Heat Stress on Male Rat Kidney Catalase Enzyme
17:50	18:00	<b>ID: 138, Esra Şentürk</b> , Role of Acetylcholinesterase Enzyme in Muscle Cells
18:00	18:10	<b>ID: 150, Kübra Çavuşoğlu</b> , Diagnosis of Autoimmune Diseases: Detecting the Presence of ANA Using the IIF Method
18:10	18:20	<b>ID: 153, Kübra Çavuşoğlu</b> , Diagnosis of Wegener's Granulomatosis: Antineutrophil Cytoplasmic Antibodies
18:20	18:30	<b>ID: 154, Sanaa K. Bardaweel</b> , Understanding the Role of Matrix Metalloproteinase-12 In Lung Cancer as A Potential Drug Target

## HEALTH SCIENCES

### HALL C

**Chairs: Assist. Prof. Dr. Berna Karagöz, Dr. Gülten Benan Göçer**

14:40	14:50	<b>ID: 159, Rumeysa Taşkın</b> , Validity and Reliability Study of the Gender-Friendly Breastfeeding Knowledge Scale: A Methodological Study
14:50	15:00	<b>ID: 162, Ebru Solmaz</b> , The Effect of Pet Ownership on Postpartum Maternal Attachment
15:00	15:10	<b>ID: 179, Funda Çimen Açıkgül</b> , Species Determination of Microorganisms Isolated in Blood Culture
15:10	15:20	<b>ID: 190, Pınar Baykan</b> , Examining the Reflection of Occupational Health and Safety Topics on Vocational and Technical High School Curriculum Objectives
15:20	15:30	<b>ID: 191, Pınar Baykan</b> , Psychological Safety in Workplaces
15:30	15:40	<b>ID: 192, Ebru Senemtaş Ünal</b> , Performing Risk Analysis Evaluation in The Faculty of Dentistry
15:40	15:50	<b>ID: 193, Ebru Senemtaş Ünal</b> , Office Environments: Ergonomic Risks and Musculoskeletal Diseases
15:50	16:00	<b>ID: 205, Yalçın Karagöz</b> , Parietin Protects Against H <sub>2</sub> O <sub>2</sub> -Induced Oxidative Stress Damage in Erythrocytes

16:00	16:20	Coffee break
<b>CHEMISTRY HALL C</b>		
<b>Chairs: Prof. Dr. İlhami Gülçin, Assoc. Prof. Dr. Lokman Durmaz</b>		
16:20	16:30	<b>ID: 52, Elife Kaya</b> , Acetylcholinesterase, Butyrylcholinesterase, and $\alpha$ -Amylase Enzymes Inhibitory Potentials of Cichorium Pumilum Extracts
16:30	16:40	<b>ID: 71, Şeyma Taşbaşı</b> , Investigation of Inhibition Effects of Some Flavonoids on Cholesterol Esterase
16:40	16:50	<b>ID: 199, Neslihan Balcı</b> , The inhibition Effect of Some Piperidine Derivatives on Acetylcholinesterase Enzyme
16:50	17:00	<b>ID: 92, Rüya Sağlamtaş</b> , Determination of Metabolite Profile and Enzyme Inhibitor Activities of Different Extracts from Pitaya
17:00	17:10	<b>ID: 95, Mehmet Emin Şeker</b> , Comparison of Elemental Analysis, Nutritional Values and Health Risk Assessment of Some Commercial Dried Fruits and Natural Dried Fruits
17:10	17:20	<b>ID: 110, Aytekin Köse</b> , Basic and Simple Step Synthesis and Characterization of Novel Hydrazone Derivatives Containing 4-Methylsulfonate Ester Scaffold
17:20	17:40	Coffee break
<b>MATHEMATICS AND SCIENCE EDUCATION HALL C</b>		
<b>Chairs: Assoc. Prof. Dr. Aydın Kızılaslan, Assoc. Prof. Dr. Ebru Senemtaş Ünal</b>		
17:40	17:50	<b>ID: 73, Seda Okumuş</b> , Practical Augmented Reality Training for Academicians
17:50	18:00	<b>ID: 105, Pelin Mete</b> , Determination of Science Perceptions of Students with Special Education Through Drawing
18:00	18:10	<b>ID: 140, Merve Coşkun Demirdağ</b> , Investigating the Effectiveness of Augmented Reality (Ar) Technology Supported Science Activities In Preschool Children: Solar System
18:10	18:20	<b>ID: 148, Çağla Nur Özkan</b> , Prospective Science Teachers' Views on Model and Model-Based Teaching

18:20	18:30	<b>ID: 174, Başak Yağsız</b> , Measuring Digital Technology Competencies of Pre-Service Science Teachers
18:30	18:40	<b>ID: 228, Hülya Özen</b> , Assessing the Impact of Industrial Pollution on Environmental and Public Health: A Study on Heavy Metal and Radiation Contamination in Altınoluk and Edremit Using Laser-Induced Breakdown Spectroscopy (LIBS)

## ARCHITECTURE AND ENGINEERING

### HALL D

**Chairs: Assoc. Prof. Dr. Mustafa Tolga Yurtcan, Assoc. Prof. Dr. Aydın Kızılaslan**

14:40	14:50	<b>ID: 81, Kadir Özbek</b> , Investigation and Simulation of Horizontal Axis Wind Turbine Blade Optimization Methods
14:50	15:00	<b>ID: 82, Kadir Geliş</b> , Comparative Analysis of Technical and Economic Aspects of Solar Tracking System and Fixed Tilt Angle Photovoltaic Systems for Bolu Province
15:00	15:10	<b>ID: 103, Ekrem Güllüce</b> , Removal and Detoxification of Congo Red Dye from Aqueous Solutions Using Fraxinus excelsior L. (Oleaceae) Biosorbent
15:10	15:20	<b>ID: 104, Ekrem Güllüce</b> , Removal of Congo Red Dye from Aqueous Solutions Using Robinia pseudoacacia L. (Fabaceae) Fruits Biosorbent; Isotherm and Kinetic Studies
15:20	15:30	<b>ID: 183, Mehmet Ali Çelik</b> , An Example Design Model of Wireless Power Transfer Using ANSYS Maxwell and Simplorer
15:30	15:40	<b>ID: 135, Casim Yazıcı</b> , Influence of Fire Temperature and Bar Diameter on the Mechanical Performance of Steel Reinforcement in Reinforced Concrete Structures
15:40	15:50	<b>ID: 136, Casim Yazıcı</b> , Enhancing Concrete Strength with Waste Metal Fibers: A Study on Mechanical Properties and Workability
15:50	16:00	<b>ID: 126, Sümeyra Beyzade</b> , Fractional Order Memristör Based PID Control Systems
<b>16:00</b>	<b>16:20</b>	<b>Coffee break</b>

## BIOLOGY

### HALL D

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**Chairs: Assoc. Prof. Dr. Sümeyra Gürkök, Assoc. Prof. Dr. Burak Alaylar**

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16:20	16:30	<b>ID: 68, Derya Efe</b> , A Promising Approach to Recover Non-Arable Soils with Different Contaminants: Bacterial Bioremediation
16:30	16:40	<b>ID: 87, Erkan Azizoğlu</b> , Ornithological Potential of Foça (İzmir)
16:40	16:50	<b>ID: 88, Muzaffer Mükemre</b> , Poisonous Plants; Van Case Study
16:50	17:00	<b>ID: 91, Burcu Ergöz Azizoğlu</b> , Investigation of The Healing Effect of Melatonin on Deltamethrin Applied Mouse Primary Hepatocyte Culture
17:00	17:10	<b>ID: 100, Metin Ertaş</b> , Identification and Antimicrobial Activity of Streptomyces Bacteria Isolated from Some Areas of the Zap River
17:10	17:20	<b>ID: 144, Yusuf Gülşahin</b> , Molecular Docking Analysis of Luteolin Derivatives as SARS-CoV-2 Inhibitors
<b>17:20</b>	<b>17:40</b>	<b>Coffee break</b>

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**AGRICULTURE AND FOOD SCIENCES****HALL D****Chairs: Prof. Dr. Murat Aydın, Assoc. Prof. Dr. Sümeyra Gürkök,**

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17:40	17:50	<b>ID: 77, Emre Çomaklı</b> , The Relationship between Nutrition Problems and Soil Profile in Afforestation Studies in Base Physiography
17:50	18:00	<b>ID: 79, Tuğba Çomaklı</b> , Evaluation of Forage Quality Properties of Different Forest Rangeland Parts
18:00	18:10	<b>ID: 113, Bengü Açıdoğuran</b> , Renewable Energy, Agriculture and CO <sub>2</sub> Emission Relationship: Turkey's Example
18:10	18:20	<b>ID: 141, Esma Yiğider</b> , Characterization of the Gibberellic Acid-Stimulated in Arabidopsis (GASA) Gene Family in Quinoa
18:20	18:30	<b>ID: 142, Murat Aydın</b> , Genome-Wide Analysis and Characterization of PIP5K (Phosphatidylinositol-4-Phosphate 5-Kinase) Gene Family of Phaseolus Vulgaris L.
18:30	18:40	<b>ID: 149, Merve Yüce</b> , Determination of the Effect of Strigolactone on Pepper (Capsicum annuum) Seedlings under Zinc Toxicity

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18:40	18:50	<b>ID: 171, Esra Kadanalı</b> , Analysing the Agricultural Emissions Performance of The World's 20 Largest Economies
<b>POSTER SESSION</b>		
<b>Hall B</b>		
<b>17:00</b>	<b>19:00</b>	<b>P1-P13</b>
<b>P1</b>		<b>ID: 56, Alper Yıldırım</b> , Synthesis of Triazole Compounds from Azide-derived Oxazolidinone Compounds
<b>P2</b>		<b>ID: 118, Ümmügülsüm Polat Korkunç</b> , Cancer Healing Effects of Natural Organosulfur Compounds Originating in Turkey
<b>P3</b>		<b>ID: 122, Neslihan Aydemir</b> , Determination of in vitro anti-diabetic properties of Ractopamine
<b>P4</b>		<b>ID: 158, Ramazan Demirdağ</b> , Metabolite Profiling and Enzyme Inhibitory Activity Potential of Different Extracts from Papaver Triniifolium
<b>P5</b>		<b>ID: 188, Şeyma Taşbaşı</b> , Plants Defense Enzymes
<b>P6</b>		<b>ID: 97, Zineb Chetouh</b> , Retrospective Study of Evaluating Screening Activities of Precancerous Cervical Lesions in Eastern Region of Algiers
<b>P7</b>		<b>ID: 204, İlnur Çolak</b> , A Molecular Docking Study on the Methylene Blue Toxicity
<b>P8</b>		<b>ID: 209, Yusuf Gülşahin</b> , Applications of CRISPR-Cas Systems on Lactic Acid Bacteria
<b>P9</b>		<b>ID: 226, Aydın Kızılaslan</b> , Analysis of Teacher Needs Regarding the Science Course Conducted in Support Education Rooms
<b>P10</b>		<b>ID: 98, İlfer Babacan</b> , Investigation of the Inhibitory Activity of Pyrazoline Derivatives Against the BChE Enzyme
<b>P11</b>		<b>ID: 99, Emine Doğru</b> , Candidate Drugs for Alzheimer's Disease: Pyrazole Derivatives
<b>P12</b>		<b>ID: 89, Hattf Bazool Farhood</b> , Investigated Study of Anemia in Pregnant Women
<b>P13</b>		<b>ID: 216, Gülsün Oktay</b> , Investigation of the inhibition effect of some indole derivative molecules on hCA-I and hCA-II isoenzymes
<b>Friday, April 19<sup>th</sup> 2024</b>		
<b>09:00</b>	<b>10:20</b>	<b>PLENARY SESSION</b>
<b>PLENARY SESSION</b>		

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**HALL A****Chair: Prof. Dr. Erol Kam**

09:00	09:40	<b>Prof. Dr. Anake Kijjoa</b> , University of Porto, Portugal Configurations and Conformations: an Achilles Heel of Structure Elucidation of Natural Products
09:40	10:20	<b>Assoc. Prof. Dr. Simone Carradori</b> , Dual Coumarin-Based Inhibitors of Carbonic Anhydrases and Monoamine Oxidase B Against Neurodegenerative Disorders

**10:20 13:00 PARALLEL SESSIONS****HEALTH SCIENCES****HALL A****Chairs: Assist. Prof. Dr. Dilan Özmen Özgün, Assist. Prof. Dr. Beyza Ecem Öz Bedir**

10:20	10:30	<b>ID: 202, Berna Öztürk Karagöz</b> , Gastric Ulcer
10:30	10:40	<b>ID: 215, Seçil Nazife Parlak</b> , Effect of Proton Pump Inhibitors (PPI) on The Tissues
10:40	10:50	<b>ID: 229, Hakan Ocak</b> , Angiogenesis related roles of induced pluripotent stem cells in wound healing
10:50	11:00	<b>ID: 237, Murat Yıldırım</b> , Understanding Positive Psychology: Past, Present, and Future Perspectives
11:00	11:10	<b>ID: 238, Abdurrahim Güler</b> , Social Support, Religiosity, and Death Distress after Maraş Earthquake
11:10	11:20	<b>ID: 240, Gülten Benan Göçer</b> , The Relationship Between Hearing Loss and Dementia
<b>11:20</b>	<b>11:40</b>	<b>Coffee break</b>

**GENETIC, AGRICULTURE AND FOOD SCIENCES****HALL A****Chairs: Assoc. Prof. Dr. Esra Kadanalı, Assoc. Prof. Dr. Emre Çomaklı**

11:40	11:50	<b>ID: 181, Buket Çakmak Güner</b> , The Evaluation of HERV-K Gene Expression in Doxorubicin-treated MCF-7 Breast Cancer Cell Line
11:50	12:00	<b>ID: 197, Ersin Karataş</b> , <i>in silico</i> Screening and Heterologous Expression of a Polyethylene Terephthalate Hydrolase from <i>Micromonospora inositol</i> Involved in Plastic Biodegradation
12:00	12:10	<b>ID: 213, Merve Yilmazer</b> , Effects of Metformin on Human GSK3 $\beta$ Gene Expression in Fission Yeast
12:10	12:20	<b>ID: 45, Sümeyra GÜRKÖK</b> , Cellulase-Producing Bacteria from Lake Van

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12:20	12:30	<b>ID: 46, Sümeyra GÜRKÖK</b> , Isolation and Identification of Amylase-Producing Strain
<b>PHYSICS HALL C</b>		
<b>Chairs: Assoc. Prof. Dr. Bünyamin Aygün, Assist. Prof. Dr. Zeynep UZUNOĞLU</b>		
10:20	10:30	<b>ID: 224, Erol Kam</b> , Enhancing Water Quality Monitoring: Development of Carbon Nanotube-Functionalized Quartz Crystal Sensors for Trace Detection of Cadmium and Lead Ions
10:30	10:40	<b>ID: 187, Muhammed Emin Güldüren</b> , Characterization and Supercapacitor Analysis of Metal Oxide Semiconductor Thin Films Grown by Usp Method
10:40	10:50	<b>ID: 206, Ahmet TAŞER</b> , Characterization of Mn-Doped MgO Thin Films Produced via Successive Ionic Layer Adsorption Reaction Method
10:50	11:00	<b>ID: 207, Ufuk Perişanoğlu</b> , Investigation of Nuclear Radiation Shielding Properties of Glass/Al/WS <sub>2</sub> Composites Produced by RF Sputtering Method
11:00	11:10	<b>ID: 208, Vedat Sola</b> , Investigation of Gamma Radiation Attenuation Properties of Tungsten and Molybdenum High-Speed Steels
11:10	11:20	<b>ID: 220, Esra Kavaz Perişanoğlu</b> , Shielding Performance of Lightweight Nickel Foam/Mos <sub>2</sub> Composites
<b>11:20</b>	<b>11:40</b>	<b>Coffee break</b>
<b>CHEMISTRY HALL C</b>		
<b>Chairs: Prof. Dr. Hülya Akıncioğlu, Assist. Prof. Dr. Leyla Polat Köse</b>		
11:40	11:50	<b>ID: 128, Tuba Aydın</b> , Quantitative Analysis of Ursolic Acid in Lavandula Stoechas Extracts and Bioactivity Studies
11:50	12:00	<b>ID: 151, Kübra Coşgun Çalışır</b> , The First Synthesis of New N-Substituted $\alpha$ -Amino Acid Methyl Ester Derivatives and Investigation of Their Inhibitor Effects on AChE and BChE
12:00	12:10	<b>ID: 182, Dilara Toğrul</b> , Synthesis of Novel Amino Acid Methyl Ester Derivatives and Investigation of Ache and Bche Inhibition Properties

12:10	12:20	<b>ID: 184, Ahmet Çağan</b> , Synthesis And <i>in silico</i> Docking Studies of New Benzene Sulfonamides towards Investigation of hCA and AChE
12:20	12:30	<b>ID: 185, Güven Budak</b> , Comparative Analysis of New Monoamine Oxidases (A And B) from Pan Troglodytes
12:30	12:40	<b>ID: 108, Lokman Durmaz</b> , The Impact of Genistein on Human Carbonic Anhydrase Isoenzymes (hCA I and II)

## ARCHITECTURE AND ENGINEERING, MATHEMATICS

### HALL D

**Chairs: Assist. Prof. Dr. Dilan Özmen Özgün, Assist. Prof. Dr. Rüya Sağlamtaş**

10:20	10:30	<b>ID: 155, Abdulhadi Koşatepe</b> , Effect of Different Chip Ratios on Metal Quality via Rotary Degassing
10:30	10:40	<b>ID: 112, Ali Sait Özer</b> , Modelling and Analysis of STATCOM Based SEIG
10:40	10:50	<b>ID: 178, Osman Özer</b> , Comparative Study of Gated Recurrent Unit and Long-Short Term Memory for Li-Ion Batteries on State of Charge Estimation
10:50	11:00	<b>ID: 180, Behice Yağmur Aydın</b> , Investigation of The Wastewater of Organized Industrial Zone by Jet Loop Membrane Bioreactor System
11:00	11:10	<b>ID: 239, Mustafa Varol</b> , Advancements in Aluminium Alloys: The Future Unfolded by in situ Powder Metallurgy
11:10	11:20	<b>ID: 170, Mikheili Gagoshidze</b> , Numerical Solution of Two Systems of Nonlinear Partial Differential Equations Using Machine Learning
11:20	11:30	<b>ID: 168, Besiki Tabatadze</b> , Numerical solution of one nonlinear fourth-order integro-differential parabolic equation using machine learning
<b>11:20</b>	<b>11:40</b>	<b>Coffee break</b>

## HEALTH SCIENCES , PHYSICS, ARCHITECTURE AND ENGINEERING

### HALL D

**Chairs: Assoc. Prof. Dr. Mustafa Tolga Yurtcan, Assist. Prof. Dr. Tuba Özdemir Sancı**

11:40	11:50	<b>ID: 231, Hasan Can</b> , Development and Validation of a UHPLC–ESI–MS/MS Method for the Simultaneous Determination of Organic Acids and Phenolic
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		Compounds in <i>Filipendula vulgaris</i> , <i>Polygonum divaricatum</i> , <i>Hypericum linarioides</i> and <i>Rheum ribes</i>
11:50	12:00	<b>ID: 232, Ayla Arslan</b> , Effects of Leflunomide on Heart Tissues of Sepsis Induced Rats
12:00	12:10	<b>ID: 211, Muhammed Necip Canbolat</b> , Serum Albumin Synthesis of Modified Jujube ( <i>Zizyphus jujuba</i> ) Quantum Dot and Determination of Its Effect on Various Cancer Cells
12:10	12:20	<b>ID: 236, Hasan Feyzi Budak</b> , 2D MoS <sub>2</sub> /MoO <sub>2</sub> Nanocomposite Structures Growth Control by Chemical Vapor Deposition
12:20	12:30	<b>ID: 221, Mansur Albayrak</b> , Cd dopant effect on supercapacitor applications of Mn <sub>3</sub> O <sub>4</sub> thin film grown by silar method
12:30	12:40	<b>ID: 222, Mansur Albayrak</b> , Ag dopant effect on supercapacitor applications of Mn <sub>3</sub> O <sub>4</sub> Thin film grown by silar method
12:40	12:50	<b>ID: 200, Ahmet Özmen</b> , Comparative Analysis of Database Technologies for IoT Environments
12:50	13:00	<b>ID: 210, Emre Arslan</b> , Impact of Feature Selection on Energy Forecasting Machine Learning Models
<b>13:00</b>	<b>14:00</b>	<b>Öğle yemeği</b>
<b>14:00</b>	<b>15:00</b>	<b>PARALLEL SESSIONS</b>

## ARCHITECTURE AND ENGINEERING

### HALL A

**Chair: Assoc. Prof. Dr. Bünyamin Aygün, Assist. Prof. Dr. Akın Akıncioğlu**

14:00	14:10	<b>ID: 129, Ayhan ÇELİK</b> , Biomimetic Approach: Innovative Design Solutions from Structures Inspired by Nature
14:10	14:20	<b>ID: 120, Şükran Merve Tüzemen</b> , Enhancement of Corrosion Resistance for Biodegradable Pure Magnesium by Anodization Processes
14:20	14:30	<b>ID: 121, Şükran Merve Tüzemen</b> , Examination on the Tribological Properties of hBN Doped Anodized Pure Magnesium
14:30	14:40	<b>ID: 143, Kamil Orman</b> , Modeling and Altitude Control of The Ground Effect Vehicle
14:40	14:50	<b>ID: 145, Nil Kaplan</b> , Mechanical and Hybrid Connection Types of Carbon Fiber Reinforced Composites

14:50	15:00	<b>ID: 145, Nil Kaplan</b> , Application of Mechanical and Hybrid Connection Types to Carbon Fiber Reinforced Polymer Composites
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## CHEMISTRY

### HALL C

**Chairs: Assist. Prof. Dr. Elife Kaya, Assist. Prof. Dr. Neslihan Balci**

14:00	14:10	<b>ID: 194, Kübra Aslan</b> , Antioxidant property investigation of a novel plant species discovered from Türkiye: Rheum telianum
14:10	14:20	<b>ID: 198, Kadir Aksu</b> , Synthesis of Novel 2-arylidene-2,3-dihydro-1H-inden-1-amine Compounds
14:20	14:30	<b>ID: 235, Yaşar Hasanoğlu</b> , Investigation of the Effects of Different Colored Black Peppers on Cholinesterases
14:30	14:40	<b>ID: 189, Arzu Öztürk Kesebir</b> , Inhibition Effect of Chromenopyridine Derivatives on Some Metabolic Enzymes
14:40	14:50	<b>ID: 111, Leyla Polat Köse</b> , Determination of Antioxidant Capacity, Anticholinergic Activity, and Phenolic Ingredients of Yellow Mustard ( <i>Sinapis Alba</i> ), and Black Mustard ( <i>Brassica Nigra</i> ) Extracts By LC-MS/MS

## BIOLOGY

### HALL D

**Chair: Assoc. Prof. Dr. Derya Efe, Assoc. Prof. Dr. Burak ALAYLAR**

14:00	14:10	<b>ID: 203, İknur Çolak</b> , Investigation of Crystal Violet Phytotoxicity: An Experimental and Computational Research
14:10	14:20	<b>ID: 195, Ülkü Zeynep Üreyen Esertaş</b> , A Combined Biochemical and Bioinformatic Analysis of Analysis of a New Subtilisin from Hyperthermophilic Archaeon <i>Thermococcus Piezophilus</i>
14:20	14:30	<b>ID: 218, Yüksel Dil</b> , Investigation of Endophytic Siderophore Producing <i>Mucor</i> sp. from <i>Origanum vulgare</i> L. ssp. <i>vulgare</i>
14:30	14:40	<b>ID: 217, Yüksel Dil</b> , Isolation and Characterization of ACC Deaminase Producing Endophytic <i>Pantoea</i> ssp. from <i>Origanum vulgare</i> L. ssp. <i>vulgare</i>
<b>15:00</b>	<b>19:00</b>	<b>Social program</b>