

**November 06, 2025 Thursday**

**13:00-16:00**      **Registration**

*Registration  
Desk*

**16:00-16:30**

**Hall A**

**Opening Ceremony**

**Session 1 – Chair: Prof. Azmi TELEFONCU**

*Hall A*

**16:30-17:05**

**Invited Speaker (IS1) Assoc. Prof. Reinhard STERNER**

**"Artificial Photo-Control of Enzyme Activity and Allostery by Unnatural Amino Acids"**

**17:05-17:20**

**Coffee Break**

**Session 2 – Chair: Prof. Reinhard STERNER**

*Hall A*

**17:20-17:55**

**Invited Speaker (IS2) Prof. Mamas PRODROMIDIS**

**" Generation of Nanomaterials via Spark Discharge: A Rapid, Environmentally Friendly, and Versatile Method for In-Situ Modification of Electrochemical (bio)sensing Devices "**

**19:00**

**Dinner**



## November 07, 2025 Friday

Session 3 – Chair: Prof. Nicole JAFFREZIC-RENAULT

Hall A

09:00-09:35

**Invited Speaker (IS3) Prof. Hülya AYAR KAYALI**

**"Next-generation Biotechnological Drugs for Targeted Therapies"**

09:35-09:50

**Oral Presentation (OP01) Suna ÇELİK**

Remediation of İzmir Bay from Heavy Metal Pollution and Improvement of Secondary Microalgal Treatment Using Biochar

09:50-10:05

**Oral Presentation (OP02) Pınar ÇAKIR HATIR**

Molecularly Imprinted Magnetic Nanoparticles for Protein Detection

10:05-10:20

**Oral Presentation (OP03) Doruk AKDOĞAN**

$\beta$ -Galactosidase Immobilization Into Polyvinyl Alcohol-Chitosan Hydrogels

10:20-10:35

**Oral Presentation (OP04) Canan ÖZYURT**

Development of a Paper-Based Colorimetric Aptasensor for Detecting the Peanut Allergen Ara h1

10:35-10:55

Coffee Break



**November 07, 2025 Friday**

**Session 4 – Chair: Prof. Sibel Aysıl ÖZKAN**

**Hall A**

|                    |                                                                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10:55-11:30</b> | <b>Invited Speaker (IS4) Prof. Bezhan CHANKVETADZE</b><br><b>"Isomeric drugs of abuse: Current analytical challenges and possible solutions"</b>                                  |
| <b>11:30-11:45</b> | <b>Oral Presentation (OP05) Melike BOR</b><br><b>"GABA" A Universal Regulator in Plants, Microorganisms and Animals</b>                                                           |
| <b>11:45-12:00</b> | <b>Oral Presentation (OP06) Hamdi Ben HALİMA</b><br><b>Highly Sensitive Electrochemical Sensor Based on Zn Porphyrin for Enviromental Monitoring of Glyphosate</b>                |
| <b>12:00-12:15</b> | <b>Oral Presentation (OP07) Sema AKBABA</b><br><b>Fibroin/Sulfated Alginate Membranes Loaded with Hydroxyapatite Treated Stem Cell Exosomes for Periosteal Tissue Engineering</b> |
| <b>12:15-13:45</b> | <b>Lunch</b>                                                                                                                                                                      |



## November 07, 2025 Friday

Session 5 – Chair: Prof. Mustafa Kemal SEZGİNTÜRK

Hall A

13:45-14:20

**Invited Speaker (IS5) Prof. Nicole JAFFREZIC-RENAULT**

**"VOC biosniffers for food quality control and breath control"**

14:20-14:35

**Oral Presentation (OP08) Albina Kika KRASNIQI**

**Effect of Grafting on the Morphological Parameters of Pepper Plant (*Capsicum annum* L.) in Open Field Conditions**

14:35-14:50

**Oral Presentation (OP09) Mariam J.M. GHUNAIN**

**Recombinant L-Asparaginase Production**

14:50-15:00

**Coffee Break**



## November 07, 2025 Friday

|             | Short Oral Presentation<br>Chair 1: Prof. Nagihan Sağlam ERTUNGA<br>Hall A                                                           | Short Oral Presentation<br>Chair 1: Prof. Harun BUDAK<br>Hall B                                                                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00-15:05 | (OP22) Kardelen Damla ALKİM<br>Antiproliferative Activity of Quinazoline-Based Chiral Thioureas on MCF-7 and HT-29 Cancer Cell Lines | (OP37) Emir Akın AK<br>Electrochemical Detection of Kidney Injury Molecule-1 Using Au/3-Mercaptopropionic Acid Functionalized ITO-PET Based Biosensor |
| 15:05-15:10 | (OP23) Öykü İrmak DİKKATLİ<br>Synergistic Cytotoxicity of Doxorubicin and Phenylboronic Acid in GelMA-Encapsulated Tumor Spheroids   | (OP38) İlke KARAKAŞ<br>Evaluation of Antimicrobial Activities of Prodigiosin Produced Using Alternative Substrates                                    |
| 15:10-15:15 | (OP24) Elif Deniz YEŞİLYAPRAK<br>Synthesis of Benzene-1,4-diboronic Acid and Investigation of its Anticancer Potential               | (OP39) Ozan YEŞİLTEPE<br>Development of Nanofiber-based Transdermal Nicotine Delivery Systems                                                         |
| 15:15-15:20 | (OP25) Ahmet Burak BERK<br>Investigation of In Vitro Efficacy of Novel Benzoxazaborine Derivatives as PARP Inhibitors                | (OP40) Eda GÜNAY<br>Comparative Evaluation of Salt Tolerance in Sunflower (Helianthus annuus L.) Genotypes Cultivated in Türkiye                      |
| 15:20-15:25 | (OP26) Merve ÖZTÜRK<br>Selective Adsorption of Fluoxetine from Aqueous Solutions Using Glutamic Acid Incorporated Microbeads         | (OP41) Müge TEKER YILDIZ<br>Biochemical Responses to Exogenous Nitroxyl (HNO) Application in Tomato (Solanum lycopersicum L.) Under Drought Stress    |
| 15:25-15:30 | (OP27) Handan ÜSTÜKARCI<br>Potential Applications of Anthocyanins from a Green Chemistry and Sustainability Perspective              | (OP42) Sinemnaz Karçıga<br>Electrochemical Dual-Analyte Detection: A Novel Sensor for Simultaneous Quantification of Kynurenic Acid and Tryptophan    |

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>15:30-15:35</b> | <b>(OP28) Şenol ALPAT</b>                                                                                                                                                                        | <b>(OP43) Görkem TEKÇE</b>                                                                                                                                                                      |
|                    | Determination of Terbutaline with SnO <sub>2</sub> Nanoparticle Modified Carbon Paste                                                                                                            | Development of Biomedical Products for Oral and Dental Health with Antimicrobial Properties Integration of Berberine with Styrene-Butadiene Rubber Polymer Presentation                         |
| <b>15:35-15:40</b> | <b>(OP29) Emir KERMEN</b>                                                                                                                                                                        | <b>(OP44) Anıl BUL</b>                                                                                                                                                                          |
|                    | DETERMINATION OF THE PHYTOCHEMICAL PROPERTIES OF <i>Melissa officinalis</i> , <i>Hibiscus sabdariffa</i> , <i>Calendula officinalis</i> , <i>Althaea officinalis</i> ve <i>Salix babylonicae</i> | Extraction of Flavonoids and Antimicrobial Peptides from Plant Species Belonging to the <i>Artemisia</i> Genus Growing in Our Geographic Conditions and Evaluation of Their Synergistic Effects |
| <b>15:40-15:45</b> | <b>(OP30) Nurgün ABUL</b>                                                                                                                                                                        | <b>(OP45) Sevilay İNAL KABALA</b>                                                                                                                                                               |
|                    | Purification of Lactoperoxidase from Goat Milk by Hydroxamic Acid-Based Affinity Chromatography and Determination of Its Antibacterial Activity                                                  | Polyamines in Wound Healing: A Review of Metabolic and Clinical Perspectives                                                                                                                    |
| <b>15:45-15:50</b> | <b>(OP31) Umut MENGÜLLÜOĞLU</b>                                                                                                                                                                  | <b>(OP46) Osman Nuri ASLAN</b>                                                                                                                                                                  |
|                    | A Linear Chain Polymer-Based Enzymatic Biosensor for Enhanced Hydrogen Peroxide Detection in Food Samples                                                                                        | Synthesis, Characterization, and Bioactivity of Novel Hybrid Isoindole-Thiazole Molecules                                                                                                       |
| <b>15:50-15:55</b> | <b>(OP32) İlayda YILMAZ</b>                                                                                                                                                                      | <b>(OP47) Ozunur Mourat Moustafa</b>                                                                                                                                                            |
|                    | Investigation of Antioxidant and Wound Healing Effect of Carbon Nano-Structures                                                                                                                  | Phytochemical Characterization and Cytotoxic Evaluation of <i>Arum italicum</i> Extracts: Potential Protective Effects Against Skin and Liver Cancer-Related Oxidative Damage                   |
| <b>15:55-16:00</b> | <b>(OP33) İhsan KARABOĞA</b>                                                                                                                                                                     | <b>(OP48) Melina DÖNMEZ</b>                                                                                                                                                                     |
|                    | The Organoselenium Compound, Ebselen, Attenuates Lipopolysaccharide-induced Lung Injury; an Experimental Study                                                                                   | Effects of Olive Leaf Powder Addition on the Quality Parameters of Virgin Olive Oil                                                                                                             |



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| 16:00-16:05 | (OP34) Demet KIZIL                                                                                                           | (OP49) Mukaddes Saklan                                                                                                              |
|             | Inhibitory Potential of Newly Synthesized Hydrazone Schiff Base and Some Plant Extracts on the Acetylcholinesterase Activity | Removal of Diuron from Aqueous Solutions Using the New Generation Adsorbent UiO-66-NH <sub>2</sub>                                  |
| 16:05-16:10 | (OP35) Adem COŞKUN                                                                                                           | (OP50) Mimoza Jakupi                                                                                                                |
|             | Inhibition Effects of Some Novel Aminocyclitols and Their Derivatives on Carbonic Anhydrase Isoenzymes                       | Assessment of Genetic Diversity among Local Maize (Zea mays) Genotypes from Kosovo through Retrotransposon- Based IRAP-PCR Analysis |
| 16:10-16:15 | (OP36) İlgin YALÇINÖZ                                                                                                        | (OP51) Seda AĞÇAM                                                                                                                   |
|             | Sensitive Detection of Adiponectin Using 4-MBA-Modified Disposable Electrodes                                                | Phenolic Profile and $\alpha$ -Amylase Inhibitory Potential of Gemlik Olive Leaf Extract Cultivated in Hatay, Türkiye               |
| 16:15-16:20 |                                                                                                                              |                                                                                                                                     |

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|-------------|----------------------|--------|
| 16:20-17:20 | Poster Presentations | Hall A |
| 19:00       | Dinner               |        |



**November 08, 2025 Saturday**

**Session 6 – Chair: Prof. Mamas PRODROMIDIS**

**Hall A**

|             |                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:00-09:35 | <b>Invited Speaker (IS6) Prof. Konstantinos VLACHONASIOS</b><br><b>"Histone Acetyltransferase GCN5 and the Associated Coactivators ADA2-From Evolution of the SAGA Complex to the Biological Roles in Plants"</b> |
| 09:35-09:50 | <b>Oral Presentation (OP10) Fazilet Özlem KAHRAMAN</b><br>Plant Growth-Promoting Bacteria as Biocontrol Agents: Molecular and Physiological Responses in Fusarium-Infected Tomato                                 |
| 09:50-10:05 | <b>Oral Presentation (OP11) Zeynep KARPUZOĞLU</b><br>Investigation of Psyllium Husk Incorporated Alginate Beads as a Promising Platform for Intestinal Drug Delivery                                              |
| 10:05-10:20 | <b>Oral Presentation (OP12) Esma AYBAKAN</b><br>Development of Isothermal Nucleic Acid Amplification Methods at Room Temperature                                                                                  |
| 10:20-10:35 | <b>Oral Presentation (OP13) Paola PELUSO</b><br>Computational approaches to study liquid-phase separation and enantioseparation processes in pharmaceutical and biomedical sciences                               |
| 10:35-10:55 | <b>Coffee Break</b>                                                                                                                                                                                               |





**November 08, 2025 Saturday**

**Session 7 – Chair: Prof. Paola PELUSO**

**Hall A**

**10:55-11:30**

**Invited Speaker (IS7) Prof. Karl-Josef DIETZ**

**“Bioorganic synthesis of oxylipins and a library of derivatives as new tool to distinguish cell signaling mechanisms”**

**10:30-11:45**

**Oral Presentation (OP14) Neşe AYŞİT**

**Functionalization of Gold Nanoparticles and Their Effects on Neuronal Viability**

**11:45-12:00**

**Oral Presentation (OP15) Hichem MOULAHOU**

**Laser-Printed Microfluidic Paper-Based Analytical Devices (LP-μPAD): Versatile Platforms for Environmental and Clinical Sensing**

**12:00-12:15**

**Oral Presentation (OP16) Mimoza JAKUPI**

**Antioxidant Responses of Kosovo Maize Genotypes to PEG-Induced Drought Stress**

**12:15-13:45 Lunch**



## November 08, 2025 Saturday

Session 8 – Chair: Prof. Bezhan CHANKVETADZE

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13:45-14:20

**Invited Speaker (IS8) Prof. Sibel Ayşıl ÖZKAN**

**" The Future of Biochemical Sensing: Innovations with Molecularly Imprinted Polymers"**

14:20-14:35

**Oral Presentation (OP17) Serpil DEMİRCİ**

Haloperoxidases Synthesis of New Heterocyclic Compounds by Multicomponent Reactions and investigation of Their Anticancer Activities

14:35-14:50

**Oral Presentation (OP18) Kerem TOK**

Affinity-Driven Gadobutrol Enhanced Trp-Isa Functionalized MNPs for Biological Exploration in U-87 Cell Lines

14:50-15:00

Coffee Break



## November 08, 2025 Saturday

|             | Short Oral Presentation<br>Chair 1: Prof. Hülya YAĞAR<br>Hall A                                                                                                                             | Short Oral Presentation<br>Chair 1: Prof. Şenol ALPAT<br>Hall B                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00-15:05 | (OP52) Deniz KÜÇÜK<br>Dyestuff Removal by pHEMA-Cryogel Based Nanocomposites Loaded with Silver Nanoparticles Obtained from Pseudomonas fragi by Green Synthesis Method                     | (OP62) Busenur ORAL<br>Mechanochemical C(sp <sup>2</sup> )-H Alkylation of Biologically Relevant Chromane and Coumaran with para-Quinone Methides |
| 15:05-15:10 | (OP53) Ahmet ÇETİNKAYA<br>Molecular Imprinting Technology-Enabled Electrochemical Platform for High-Fidelity Detection of Zanamivir                                                         | (OP63) Emine KIZILATES<br>In Vitro Evaluation of a Calcium-Boron-Ascorbic Acid Ester with Enhanced Bioactivity                                    |
| 15:10-15:15 | (OP54) İbrahim KIRKIZ<br>Development of a Vaccine Targeting the TadE Protein to Solve the Acne Problem                                                                                      | (OP64) Senem KANBER<br>Integration of ROS/NO and Kinase Signaling in ABA-Induced Stomatal Closure: AtPUB19 Perspective                            |
| 15:15-15:20 | (OP55) Duygu ZABİTLER<br>TNF- $\alpha$ as a Key Biomarker: A Novel Sandwich-Type Aptamer-Based Electrochemical Biosensor on Screen-Printed Electrodes                                       | (OP65) Eda GÜNAY<br>Histochemical Analysis of Superoxide Radical and Hydrogen Peroxide Accumulation in Wheat Seedlings under Drought Stress       |
| 15:20-15:25 | (OP56) Hasan Yiğit YILMAZ<br>Development and Characterization of Drug Delivery Systems Based on Hydrogels Loaded with Quercetin Containing Silver Nanoparticles Obtained by Green Synthesis | (OP66) Müge TEKER YILDIZ<br>Biochemical Effects of Halomonas sp. Isolated from Marine Habitat on Barley Under Salt Stress                         |
| 15:25-15:30 | (OP57) Harun BUDAK<br>Evernic Acid, an Inhibitor of TrxR1, Blocks STAT3 Activity in Breast Cancer Cells                                                                                     | (OP67) Ayşenur YILMAZ KABACA<br>Electrochemical Sensor for the Simultaneous Determination of Epinephrine and Norepinephrine                       |



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| 15:30-15:35 | (OP58) Harun BUDAK                                                                                                                | (OP68) Melike BİLGİ KAMAÇ                                                                                                 |
|             | Anticancer Potential of Lobaric Acid in Breast Cancer: Role of Oxidative Stress                                                   | Electrochemical panel biosensor for the determination of cancer biomarkers                                                |
| 15:35-15:40 | (OP59) Esra ÜLKER                                                                                                                 | (OP69) Neda KHOSHNAVAZ                                                                                                    |
|             | A Novel Platform of Electrochemical Aptasensor Based on Microfabricated Gold Electrodes for Ultra-Sensitive Detection of Atrazine | Investigation of Kinetic Parameters of Hesperidin Inhibitor Using Tyrosinase-Based MWCNT Modified Carbon Paste Electrode  |
| 15:40-15:45 | (OP60) Zeynep Yağmur Çelik                                                                                                        | (OP70) Merve YILMAZ ÇİLÇAR                                                                                                |
|             | Discovery of Potential DcpS Inhibitors for SMA Treatment: Virtual Screening and Molecular Dynamics Simulation Studies             | Electrochemical Detection of AFP Using Nanostructured SPCEs                                                               |
| 15:45-15:50 | (OP61) Tuğba TAŞ ÖZDEMİR                                                                                                          | (OP71) Saffet ÇELİK                                                                                                       |
|             | Targeting the Colchicine-binding site: Discovery of Microtubule-destabilizing Small Molecules                                     | Phenethylquinazoline-Based Inhibitor of Human G6PH Suppresses Breast Cancer Cell Viability by Targeting Redox Homeostasis |

|             |                      |        |
|-------------|----------------------|--------|
| 16:00-17:00 | Poster Presentations | Hall A |
| 19:00       | Dinner               |        |



**November 09, 2025 Sunday**

**Session 9 – Chair: Prof. Levent CAVAŞ**

**Hall A**

**09:00-09:35**

**Invited Speaker (IS9) Assoc. Prof. Burak BARUT**

**"A new approach to cancer treatment: Photodynamic therapy and its applications"**

**09:35-09:50**

**Oral Presentation (OP19) Münteha Nur SONUÇ KARABOĞA**

**From Design to Validation: Analytical Performance of a Portable Retinol Binding Protein Biosensor**

**09:50-10:05**

**Oral Presentation (OP20) Burçin GÜNGÖR**

**Chronic Statin Administration Re-orchestrates Metabolic Activity in Breast Cancer Cell Lines**

**10:05-10:20**

**Oral Presentation (OP21) Elifnur AYAN**

**Evaluation of Synergistic Effects of Traditional Medicinal Plants on Antioxidant and Antimicrobial Properties**

**10:05-10:25**

**Coffee Break**

**Session 10 – Chair: Prof. Konstantinos VLACHONASIOS**

**Hall A**

**10:25-11:00**

**Invited Speaker (IS10) Prof. Serap EVRAN**

**"In vitro selection of aptamers for proteins and small molecules: Applications in biorecognition and inhibition"**

**11:00-12:00**

**Closing Ceremony**



## TITLE OF PRESENTATIONS

### INVITED SPEAKER (IS)

|      |                                 |                                                                                                                                                                           |
|------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IS1  | Prof. Reinhard STERNER          | A new approach to cancer treatment: Photodynamic therapy and its applications                                                                                             |
| IS2  | Prof. Mamas PRODROMIDIS         | Generation of Nanomaterials via Spark Discharge: A Rapid, Environmentally Friendly, and Versatile Method for In-Situ Modification of Electrochemical (bio)sensing devices |
| IS3  | Prof. Hülya AYAR KAYALI         | Next-generation biotechnological drugs for targeted therapies                                                                                                             |
| IS4  | Prof. Bezhana CHANKVETADZE      | Isomeric drugs of abuse: Current analytical challenges and possible solutions                                                                                             |
| IS5  | Prof. Nicole JAFFREZIC-RENAULT  | VOC biosniffers for food quality control and breath control                                                                                                               |
| IS6  | Prof. Konstantinos VLACHONASIOS | Histone Acetyltransferase GCN5 and the Associated Coactivators ADA2-From Evolution of the Complex to the Biological Roles in Plants"                                      |
| IS7  | Prof. Karl-Josef DIETZ          | Bioorganic synthesis of oxylipins and a library of derivatives as new tool to distinguish cell signaling mechanisms                                                       |
| IS8  | Prof. Sibel Aysıl ÖZKAN         | The Future of Biochemical Sensing: Innovations with Molecularly Imprinted Polymers                                                                                        |
| IS9  | Prof. Burak BARUT               | Artificial photo-control of enzyme activity and allostery by unnatural amino acids"                                                                                       |
| IS10 | Prof. Serap EVRAN               | In vitro selection of aptamers for proteins and small molecules: Applications in biorecognition and inhibition                                                            |



## ORAL PRESENTATION (OP)

|      |                        |                                                                                                                                     |
|------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| OP01 | Suna ÇELİK             | Remediation of İzmir Bay from Heavy Metal Pollution and Improvement of Secondary Microalgal Treatment Using Biochar                 |
| OP02 | Pınar ÇAKIR HATIR      | Molecularly Imprinted Magnetic Nanoparticles for Protein Detection                                                                  |
| OP03 | Doruk Akdoğan          | $\beta$ -Galactosidase Immobilization Into Polyvinyl Alcohol-Chitosan Hydrogels                                                     |
| OP04 | Esma AYBAKAN           | Development of Isothermal Nucleic Acid Amplification Methods at Room Temperature                                                    |
| OP05 | Melike BOR             | "GABA" A Universal Regulator in Plants, Microorganisms and Animals                                                                  |
| OP06 | Hamdi Ben HALIMA       | Highly Sensitive Electrochemical Sensor Based on Zn Porphyrin for Environmental Monitoring of Glyphosate                            |
| OP07 | Sema AKBABA            | Fibroin/Sulfated Alginate Membranes Loaded with Hydroxyapatite Treated Stem Cell Exosomes for Periosteal Tissue Engineering         |
| OP08 | Albina Kika KRASNIQI   | Effect of Grafting on the Morphological Parameters of Pepper Plant ( <i>Capsicum annum</i> L.) in Open Field Conditions             |
| OP09 | Marian J.M. GHUNAIN    | Recombinant L-Asparaginase Production                                                                                               |
| OP10 | Fazilet Özlem ALBAYRAK | Plant Growth-Promoting Bacteria as Biocontrol Agents: Molecular and Physiological Responses in Fusarium-Infected Tomato             |
| OP11 | Zeynep KARPUZOĞLU      | Investigation of Psyllium Husk Incorporated Alginate Beads as a Promising Platform for Intestinal Drug Delivery                     |
| OP12 | Canan Özyurt           | Development of a Paper-Based Colorimetric Aptasensor for Detecting the Peanut Allergen Ara h1                                       |
| OP13 | Paola PELUSO           | Computational approaches to study liquid-phase separation and enantioseparation processes in pharmaceutical and biomedical sciences |
| OP14 | Neşe AYŞİT             | Functionalization of Gold Nanoparticles and Their Effects on Neuronal Viability                                                     |





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| <b>OP15</b> | Hichem MOULAHOU            | Laser-Printed Microfluidic Paper-Based Analytical Devices (LP- $\mu$ PAD): Versatile Platforms for Environmental and Clinical Sensing |
| <b>OP16</b> | Mimoza JAKUPI              | Antioxidant Responses of Kosovo Maize Genotypes to PEG-Induced Drought Stress                                                         |
| <b>OP17</b> | Serpil DEMİRCİ             | Synthesis of New Heterocyclic Compounds by Multicomponent Reactions and investigation of Their Anticancer Activities                  |
| <b>OP18</b> | Kerem TOK                  | Affinity-Driven Gadobutrol Enhanced Trp-Isa Functionalized MNPs for Biological Exploration in U-87 Cell Lines                         |
| <b>OP19</b> | Münteha Nur SONUÇ KARABOĞA | From Design to Validation: Analytical Performance of a Portable Retinol Binding Protein Biosensor                                     |
| <b>OP20</b> | Burçin GÜNGÖR              | Chronic Statin Administration Re-orchestrates Metabolic Activity in Breast Cancer Cell Lines                                          |
| <b>OP21</b> | Elifnur AYAN               | Evaluation of Synergistic Effects of Traditional Medicinal Plants on Antioxidant and Antimicrobial Properties                         |





## ORAL PRESENTATION (OP)

|      |                        |                                                                                                                                                             |
|------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OP22 | Kardelen Damla ALKİM   | Antiproliferative Activity of Quinazoline-Based Chiral Thioureas on MCF-7 and HT-29 Cancer Cell Lines                                                       |
| OP23 | Öykü İrmak DİKKATLİ    | Synergistic Cytotoxicity of Doxorubicin and Phenylboronic Acid in GelMA-Encapsulated Tumor Spheroids                                                        |
| OP24 | Elif Deniz YEŞİLYAPRAK | Synthesis of Benzene-1,4-diboronic Acid and Investigation of its Anticancer Potential                                                                       |
| OP25 | Ahmet Burak BERK       | Investigation of In Vitro Efficacy of Novel Benzoxazaborine Derivatives as PARP Inhibitors                                                                  |
| OP26 | Merve ÖZTÜRK           | Selective Adsorption of Fluoxetine from Aqueous Solutions Using Glutamic Acid Incorporated Microbeads                                                       |
| OP27 | Handan ÜSTÜKARCI       | Potential Applications of Anthocyanins from a Green Chemistry and Sustainability Perspective                                                                |
| OP28 | Şenol ALPAT            | Determination of Terbutaline with SnO <sub>2</sub> Nanoparticle Modified Carbon Paste                                                                       |
| OP29 | Emir KERMEN            | Determination of the Phytochemical Properties of Melissa Officinalis, Hibiscus Sabdariffa, Calendula Officinalis, Althaea Officinalis and Salix Babylonicae |
| OP30 | Nurgün ABUL            | Purification of Lactoperoxidase from Goat Milk by Hydroxamic Acid-Based Affinity Chromatography and Determination of Its Antibacterial Activity             |
| OP31 | Umut MENGÜLLÜOĞLU      | A Linear Chain Polymer-Based Enzymatic Biosensor for Enhanced Hydrogen Peroxide Detection in Food Samples                                                   |
| OP32 | İlayda YILMAZ          | Investigation of Antioxidant and Wound Healing Effect of Carbon Nano-Structures                                                                             |
| OP33 | İhsan KARABOĞA         | The Organoselenium Compound, Ebselen, Attenuates Lipopolysaccharide-induced Lung Injury; an Experimental Study                                              |
| OP34 | Demet KIZIL            | Inhibitory Potential of Newly Synthesized Hydrazone Schiff Base and Some Plant Extracts on the Acetylcholinesterase Activity                                |
| OP35 | Adem COŞKUN            | Inhibition Effects of Some Novel Aminocyclitols and Their Derivatives on Carbonic Anhydrase Isoenzymes                                                      |
| OP36 | İlgin YALÇINÖZ         | Sensitive Detection of Adiponectin Using 4-MBA-Modified Disposable Electrodes                                                                               |



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|------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OP37 | Emir Akın AK           | Electrochemical Detection of Kidney Injury Molecule-1 Using Au/3-Mercaptopropionic Acid Functionalized ITO-PET Based Biosensor                                                                  |
| OP38 | İlke KARAKAŞ           | Evaluation of Antimicrobial Activities of Prodigiosin Produced Using Alternative Substrates                                                                                                     |
| OP39 | Ozan YEŞİLTEPE         | Development of Nanofiber-based Transdermal Nicotine Delivery Systems                                                                                                                            |
| OP40 | Eda GÜNAY              | Comparative Evaluation of Salt Tolerance in Sunflower ( <i>Helianthus annuus</i> L.) Genotypes Cultivated in Türkiye                                                                            |
| OP41 | Müge TEKER YILDIZ      | Biochemical Responses to Exogenous Nitroxyl (HNO) Application in Tomato ( <i>Solanum lycopersicum</i> L.) Under Drought Stress                                                                  |
| OP42 | Sinemnaz Karçığa       | Electrochemical Dual-Analyte Detection: A Novel Sensor for Simultaneous Quantification of Kynurenic Acid and Tryptophan                                                                         |
| OP43 | Görkem TEKÇE           | Development of Biomedical Products for Oral and Dental Health with Antimicrobial Properties Integration of Berberine with Styrene-Butadiene Rubber Polymer Presentation                         |
| OP44 | Anıl BUL               | Extraction of Flavonoids and Antimicrobial Peptides from Plant Species Belonging to the <i>Artemisia</i> Genus Growing in Our Geographic Conditions and Evaluation of Their Synergistic Effects |
| OP45 | Sevilay İNAL KABALA    | Polyamines in Wound Healing: A Review of Metabolic and Clinical Perspectives                                                                                                                    |
| OP46 | Osman Nuri ASLAN       | Synthesis, Characterization, and Bioactivity of Novel Hybrid Isoindole–Thiazole Molecules                                                                                                       |
| OP47 | Oznour Mourat Moustafa | Phytochemical Characterization and Cytotoxic Evaluation of <i>Arum italicum</i> Extracts: Potential Protective Effects Against Skin and Liver Cancer-Related Oxidative Damage                   |
| OP48 | Melina DÖNMEZ          | Effects of Olive Leaf Powder Addition on the Quality Parameters of Virgin Olive Oil                                                                                                             |
| OP49 | Mukaddes Saklan        | Removal of Diuron from Aqueous Solutions Using the New Generation Adsorbent UiO-66-NH <sub>2</sub>                                                                                              |
| OP50 | Mimoza Jakupi          | Assessment of Genetic Diversity among Local Maize ( <i>Zea mays</i> ) Genotypes from Kosovo through Retrotransposon- Based IRAP-PCR Analysis                                                    |



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| OP51 | Seda AĞÇAM          | Phenolic Profile and $\alpha$ -Amylase Inhibitory Potential of Gemlik Olive Leaf Extract Cultivated in Hatay, Türkiye                                          |
| OP52 | Deniz KÜÇÜK         | Dyestuff Removal by pHEMA-Cryogel Based Nanocomposites Loaded with Silver Nanoparticles Obtained from <i>Pseudomonas fragi</i> by Green Synthesis Method       |
| OP53 | Ahmet ÇETİNKAYA     | Molecular Imprinting Technology-Enabled Electrochemical Platform for High-Fidelity Detection of Zanamivir                                                      |
| OP54 | İbrahim KIRKIZ      | Development of a Vaccine Targeting the TadE Protein to Solve the Acne Problem                                                                                  |
| OP55 | Duygu ZABİTLER      | TNF- $\alpha$ as a Key Biomarker: A Novel Sandwich-Type Aptamer-Based Electrochemical Biosensor on Screen-Printed Electrodes                                   |
| OP56 | Hasan Yiğit YILMAZ  | Development and Characterization of Drug Delivery Systems Based on Hydrogels Loaded with Quercetin Containing Silver Nanoparticles Obtained by Green Synthesis |
| OP57 | Harun BUDAK         | Evernic Acid, an Inhibitor of TrxR1, Blocks STAT3 Activity in Breast Cancer Cells                                                                              |
| OP58 | Harun BUDAK         | Anticancer Potential of Lobaric Acid in Breast Cancer: Role of Oxidative Stress                                                                                |
| OP59 | Esra ÜLKER          | A Novel Platform of Electrochemical Aptasensor Based on Microfabricated Gold Electrodes for Ultra-Sensitive Detection of Atrazine                              |
| OP60 | Zeynep Yağmur Çelik | Discovery of Potential DcpS Inhibitors for SMA Treatment: Virtual Screening and Molecular Dynamics Simulation Studies                                          |
| OP61 | Tuğba TAŞ ÖZDEMİR   | Targeting the Colchicine-binding site: Discovery of Microtubule-destabilizing Small Molecules                                                                  |
| OP62 | Busenur ORAL        | Mechanochemical C(sp <sup>2</sup> )-H Alkylation of Biologically Relevant Chromane and Coumaran with para-Quinone Methides                                     |
| OP63 | Emine KIZILATES     | In Vitro Evaluation of a Calcium-Boron-Ascorbic Acid Ester with Enhanced Bioactivity                                                                           |



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| OP64 | Senem KANBER          | Integration of ROS/NO and Kinase Signaling in ABA-Induced Stomatal Closure: AtPUB19 Perspective                          |
| OP65 | Eda GÜNAY             | Histochemical Analysis of Superoxide Radical and Hydrogen Peroxide Accumulation in Wheat Seedlings under Drought Stress  |
| OP66 | Müge TEKER YILDIZ     | Biochemical Effects of Halomonas sp. Isolated from Marine Habitat on Barley Under Salt Stress                            |
| OP67 | Ayşenur YILMAZ KABACA | Electrochemical Sensor for the Simultaneous Determination of Epinephrine and Norepinephrine                              |
| OP68 | Melike BİLGİ KAMAÇ    | Electrochemical panel biosensor for the determination of cancer biomarkers                                               |
| OP69 | Neda KHOSHNAVAZ       | Investigation of Kinetic Parameters of Hesperidin Inhibitor Using Tyrosinase-Based MWCNT Modified Carbon Paste Electrode |
| OP70 | Merve YILMAZ ÇİLÇAR   | Electrochemical Detection of AFP Using Nanostructured SPCEs                                                              |
| OP71 | Saffet ÇELİK          | Phenethylquinazoline-Based Inhibitor of Human G6PH Suppresses Breast Cancer Cell Viabilityby Targeting Redox Homeostasis |



**POSTER PRESENTATION (PP and OP)**

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|-------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PP01</b> | Hatice DENİZ      | Synthesis of Methyl-Functionalized Vulpinic Acid Derivative and Investigation of Its Anticancer Effects on Human Breast Cancer MCF-7 Cells                        |
| <b>PP02</b> | Dilruba TIRPANLAR | Evaluation of RAC1 Activation upon Hypoxic Conditions in MCF7 Cells                                                                                               |
| <b>PP03</b> | Zülal Sevgi DEDE  | Biological Evaluation of Tubulin Polymerization Inhibiting Novel Indole-Thiazolidinone Hybrids in MCF-7 Cells                                                     |
| <b>PP04</b> | Tuğçe ÇİTOĞLU     | Investigation of Hyperlipidemia Drugs Efflux Using HPLC in Breast Cancer Cells                                                                                    |
| <b>PP05</b> | Busenur ORAL      | 1,4 Addition of Alcohols Benzofuran-Based Azadiens                                                                                                                |
| <b>PP06</b> | Büşra ERDOĞAN     | Foliar Application Effects of Ascorbic Acid and Salicylic Acid on Targeted Salt-Responsive Gene Expression Levels in Citrus aurantium L. Plants Under Salt Stress |
| <b>PP07</b> | Çağrı TARTAN      | Thiophene-3-boronic Acid Based Molecularly Imprinted Polymers for Selective and Reusable Bacterial Detection                                                      |
| <b>PP08</b> | Asiye ÜÇER        | Binding constant quantification of norfloxacin-DNA interaction using the UV spectrophotometric method                                                             |
| <b>PP09</b> | Damla EREN        | Chitosan-Coated Magnetic Nanoparticles for the Efficient Capture of Salmonella Typhimurium                                                                        |
| <b>PP10</b> | İlyas ÖZÇİÇEK     | Development of Gold Nanoparticle/Quercetin Coated, and Nano-channeled PLGA/SF Film Scaffolds for the Oriented Growth of DRG Sensory Neurons                       |
| <b>PP11</b> | Ebrar TUTAR       | Development of an RNA-Based Diagnostic Kit Supporting Early Detection of Colorectal Cancer                                                                        |
| <b>PP12</b> | Tamar Jankhoteli  | Biomonitoring of lead and other toxic elements in humans                                                                                                          |
| <b>PP13</b> | Gökçe Seyhan      | Novel Quinoline-derived Silicon(IV) Phthalocyanines as PDT for the Treatment of Endometrial Cancer                                                                |
| <b>PP14</b> | Dilan AKTAŞ       | Development of DNA Aptamers for FadA Protein of Fusobacterium nucleatum                                                                                           |
| <b>PP15</b> | Yavuz ÖZGÜRLER    | Investigation of DNazyme Activity for in vitro Selection Applications                                                                                             |

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| <b>PP16</b> | Zeliş YARAR            | Development of DNA Aptamers for Recognition of Sesame Allergen Protein                                                                                                                     |
| <b>PP17</b> | Aleyna TECER           | Preparation of an Electrically Conductive Flexible Coating onto the Polyester Films from Wool Keratin Particles/Poly(ethylene glycol dimethacrylate)/Polyaniline for Soft Electrode Design |
| <b>PP18</b> | Kübra TURAN            | Ultrasensitive Electrochemical Monitoring of Tau-441 Using a 3D-MoS <sub>2</sub> Nanoflowers–Molecularly Imprinted Polymer Platform                                                        |
| <b>PP19</b> | Özlem YALÇIN ÇAPAN     | Plant-Based Polymeric Nanoparticles for Curcumin and TP53 Co-Delivery: Towards Novel Therapeutic Strategies in Non-Small Cell Lung Cancer                                                  |
| <b>PP20</b> | Burhan BORA            | Peptide Aptamers Selective to CTX-M Extended Spectrum Beta Lactamase                                                                                                                       |
| <b>PP21</b> | Dilek ÜNAL             | Temperature-Dependent Modulation of Microplastic-Induced Oxidative Stress and Antioxidant Gene Expression in Arabidopsis thaliana                                                          |
| <b>PP22</b> | Iza Matarashvili       | Structure-retention and structure-selectivity dependence of novel chiral sulfoxides in high-performance liquid-chromatography                                                              |
| <b>PP23</b> | Nagihan SAĞLAM ERTUNGA | Investigation of DNA Binding Properties of Binuclear Cu (II) Complex Containing a Hydrazone Schiff Base                                                                                    |
| <b>PP24</b> | Begüm Ece DAĞLAR       | Apigenin from Plants: Extraction and Purification                                                                                                                                          |
| <b>PP25</b> | Seda DEMİREL TOPEL     | Non-Enzymatic Electrochemical Glucose Sensor Based on Multiwalled Carbon Nanotube-COOH/Screen Printed Carbon Electrode and Boronic acid Linked Viologen                                    |
| <b>PP26</b> | Sevilay İNAL KABALA    | An Alternative Clinical Monitoring Method for Osteoporosis: Osteopontin Biosensor                                                                                                          |
| <b>PP27</b> | Sefer DEMİRBAŞ         | Effects of Proline and Biofertilizer on Rye Germination under Osmotic Stress                                                                                                               |
| <b>PP28</b> | Şebnem Selen İŞBİLİR   | Anti-tyrosinase and DPPH Free Radical Scavenging Activities of Ethanol Extracts from Some Plants                                                                                           |



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| <b>PP29</b> | Ayşenur ERHAN          | The Role of Pancreatic Lipase Enzyme in Obesity and Evaluation of Pancreatic Lipase Enzyme Studies in 2024-2025               |
| <b>PP30</b> | İnci ULUDAĞ            | Design of a Lactate Dehydrogenase Immobilized Au-Spe Platform for Sensitive Lactate Determination                             |
| <b>PP31</b> | Hatice PALÜZAR         | Effect of Hicaz Pomegranate Peel Extract on Mushroom PPO Activity and Browning                                                |
| <b>PP32</b> | Melike Yıldırım Akatın | Isolation and Acute Oral Toxicity of a Bioactive Isolate from a Bryophyte, Mnium spinulosum                                   |
| <b>PP33</b> | İlyas ÖZÇİÇEK          | Development of Quercetin and Polyethyleneimine Modified Gold Nanorods for Anticancer Applications                             |
| <b>PP34</b> | Levent CAVAŞ           | Potential of Aronia melanocarpa (Michaux) Elliot in the Development of Functional Foods: A Sample Bioinformatics Study        |
| <b>PP35</b> | Mustafa TEKE           | Immobilization of Catalase onto Corn Silk and Characterization of Its Biochemical Properties                                  |
| <b>PP36</b> | Mustafa TEKE           | Electrospun PEO/Zein-Based Nanofibrous Scaffolds for Lipase Immobilization                                                    |
| <b>PP37</b> | Muhammed ELGASİ        | Binding constant determination of maprotiline hydrochloride-DNA interaction using UV spectrophotometric method                |
| <b>PP38</b> | Umutcan AYDIN          | Development of a DNA Aptamer for a Virulence Enzyme of Mycobacterium Tuberculosis                                             |
| <b>PP39</b> | Dilek ÜNAL             | Physicochemical Characterization and Bioactive Potential Assessment of Brown Algae Colpomenia sinuosa Extract                 |
| <b>PP40</b> | Uğur EVMEZ             | Development of DNA Aptamers Against Pistachio Allergen Protein Pis v 3                                                        |
| <b>PP41</b> | Deniz Aktaş UYGUN      | Development of aLabel-Free AuNPs-Ti <sub>2</sub> Nanostructured Imminosensor for Sensitive Carcinoembryonic Antigen Detection |
| <b>PP42</b> | Kader KELLE            | Synthesis and Characterization of Silver Nanoparticles from Eucalyptus globulus via Green Synthesis                           |





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| <b>PP43</b> | Burhan BORA            | Development of DNA Aptamer-Based Detection Platform for Clostridium perfringens Epsilon Toxin                                                                                                   |
| <b>PP44</b> | Ezgi MAN               | Selection and Characterization of a DNA Aptamer Targeting Succinylacetone, a Biomarker of Tyrosinemia Type I                                                                                    |
| <b>PP45</b> | Gözde AYDOĞDU TİĞ      | Enhanced DMD-Targeted Aptamer Discovery For Titin N-Terminal Fragment with SELEX                                                                                                                |
| <b>PP46</b> | Naz ÜNAL               | Investigating The Effect of LXR Agonist with Combination of Statin Drugs on Breast Cancer                                                                                                       |
| <b>PP47</b> | Ayça ÖZEL              | High sensitive and cost-effective lactate determination by an electrochemical biosensing system with a portable analyzer                                                                        |
| <b>OP22</b> | Kardelen Damla ALKIM   | Antiproliferative Activity of Quinazoline-Based Chiral Thioureas on MCF-7 and HT-29 Cancer Cell Lines                                                                                           |
| <b>OP23</b> | Öykü Irmak DİKKATLİ    | Synergistic Cytotoxicity of Doxorubicin and Phenylboronic Acid in GelMA-Encapsulated Tumor Spheroids                                                                                            |
| <b>OP24</b> | Elif Deniz YEŞİLYAPRAK | Synthesis of Benzene-1,4-diboronic Acid and Investigation of its Anticancer Potential                                                                                                           |
| <b>OP25</b> | Ahmet Burak BERK       | Investigation of In Vitro Efficacy of Novel Benzoxazaborine Derivatives as PARP Inhibitors                                                                                                      |
| <b>OP26</b> | Merve ÖZTÜRK           | Selective Adsorption of Fluoxetine from Aqueous Solutions Using Glutamic Acid Incorporated Microbeads                                                                                           |
| <b>OP27</b> | Handan ÜSTÜKARCI       | Potential Applications of Anthocyanins from a Green Chemistry and Sustainability Perspective                                                                                                    |
| <b>OP28</b> | Şenol ALPAT            | Determination of Terbutaline with SnO <sub>2</sub> Nanoparticle Modified Carbon Paste                                                                                                           |
| <b>OP29</b> | Emir KERMEN            | DETERMINATION OF THE PHYTOCHEMICAL PROPERTIES OF <i>Melissa officinalis</i> , <i>Hibiscus sabdariffa</i> , <i>Calendula officinalis</i> , <i>Althaea officinalis</i> ve <i>Salix babylonica</i> |
| <b>OP30</b> | Nurgün ABUL            | Purification of Lactoperoxidase from Goat Milk by Hydroxamic Acid-Based Affinity Chromatography and Determination of Its Antibacterial Activity                                                 |





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| OP31 | Umut MENGÜLLÜOĞLU | A Linear Chain Polymer-Based Enzymatic Biosensor for Enhanced Hydrogen Peroxide Detection in Food Samples                                                                  |
| OP32 | İlayda YILMAZ     | Investigation of Antioxidant and Wound Healing Effect of Carbon Nano-Structures                                                                                            |
| OP33 | İhsan KARABOĞA    | The Organoselenium Compound, Ebselen, Attenuates Lipopolysaccharide-induced Lung Injury; an Experimental Study                                                             |
| OP34 | Demet KIZIL       | Inhibitory Potential of Newly Synthesized Hydrazone Schiff Base and Some Plant Extracts on the Acetylcholinesterase Activity                                               |
| OP35 | Adem COŞKUN       | Inhibition Effects of Some Novel Aminocyclitols and Their Derivatives on Carbonic Anhydrase Isoenzymes                                                                     |
| OP36 | İlgin YALÇINÖZ    | Sensitive Detection of Adiponectin Using 4-MBA-Modified Disposable Electrodes                                                                                              |
| OP37 | Emir Akın AK      | Electrochemical Detection of Kidney Injury Molecule-1 Using Au/3-Mercaptopropionic Acid Functionalized ITO-PET Based Biosensor                                             |
| OP38 | İlke KARAKAŞ      | Evaluation of Antimicrobial Activities of Prodigiosin Produced Using Alternative Substrates                                                                                |
| OP39 | Ozan YEŞİLTEPE    | Development of Nanofiber-based Transdermal Nicotine Delivery Systems                                                                                                       |
| OP40 | Eda GÜNAY         | Comparative Evaluation of Salt Tolerance in Sunflower ( <i>Helianthus annuus</i> L.) Genotypes Cultivated in Türkiye                                                       |
| OP41 | Müge TEKER YILDIZ | Biochemical Responses to Exogenous Nitroxyl (HNO) Application in Tomato ( <i>Solanum lycopersicum</i> L.) Under Drought Stress                                             |
| OP42 | Sinemnaz Karçıga  | Electrochemical Dual-Analyte Detection: A Novel Sensor for Simultaneous Quantification of Kynurenic Acid and Tryptophan                                                    |
| OP43 | Görkem TEKÇE      | Development of Biomedical Products for Oral and Dental Health with Antimicrobial Properties<br>Integration of Berberine with Styrene-Butadiene Rubber Polymer Presentation |



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