

NEAR EAST UNIVERSITY



NEAR EAST UNIVERSITY  
DESAM RESEARCH INSTITUTE

17 October-20 October 2024

# BIOTECHNOLOGY CONGRESS

Location: Near East University

## Scientific Program

October17, Thursday (MAIN HALL / IRFAN GUNSEL CONGRESS CENTER, HALL 1)	
08.30-09.30	Registration
09.30-10.00	Welcoming Speeches
10.00-10.45	<p>'Fostering Biotechnology for a Sustainable Future with a Co-Creation and Succeeding Together Approach'</p> <p><b>OPENING LECTURE: Prof. Dr. Hasan Mandal</b></p> <p>Istanbul Technical University Rector, Former President of TUBITAK, Acting Chairman of the Science, Technology, and Innovation Policies Council of the Presidency of the Republic of Turkey</p> <p>Chair: <b>Prof. Dr. Murat Ozgoren</b></p>
10-45-11.15	Coffee Break

11.15-12.00	<p style="text-align: center;">Oral Presentations</p> <ul style="list-style-type: none"> <li>● 11.15-11.30 'Development of a qRT-PCR Kit for Detecting Feline Coronavirus (FCoV) That Recently Caused Numerous Cat Deaths in Cyprus' <b>Gulten Tuncel Dereboylu</b>, Gokce Akan, Melis Kalayci, Cenk Serhan Ozverel and Tamer Sanlidag</li> <li>● 11.30-11.45 'Revolutionizing Hepatitis D Diagnostics: Developing an In-House qRT-PCR Kit for Exceptional Detection of HDV' Kivanç Günhan, H. Seda Vatansever, Tamer Şanlıdağ, Murat Sayan, Sinem Akçalı, Hilal Kabadayı Ensarioğlu, Ferdi Çetin, Gökçe Akan, Gulten Tuncel Dereboylu and <b>Melis Kalaycı</b></li> <li>● 11.45-12.00 'Development of RP-HPLC Method for Simultaneous Estimation of Combinations of Metformin and curcumin' <b>Bahareh Noshadi</b>, Emine Vildan Burgaz and Leyla Beba Pozharani</li> </ul>
<b>Lunch Break</b>	
14.00-16.40	<p style="text-align: center;"><b>Session 1</b></p> <p style="text-align: center;"><b>Medical Biotechnology</b></p> <p style="text-align: center;">Chair: <b>Prof. Dr. Seda Vatansever, Dr. Ahmet Caglar Ozketen</b></p>
14.00-14.40	<p style="text-align: center;">'Chemically Generated Singlet Oxygen as a Potential Therapeutic Agent'</p> <p style="text-align: center;"><b>Prof. Dr. Engin Umut Akkaya</b></p> <p style="text-align: center;">Bilkent University, Ankara, Türkiye</p>
14.40-15.40	<p style="text-align: center;">Oral Presentations</p> <ul style="list-style-type: none"> <li>● 14.40-14.55 'Synthesis and cytotoxic effects of various thiosemicarbazide compounds on primary and metastatic breast cancer cell lines' <b>Hilal Kabadayı</b> Ensarioğlu, Eda Becer, Faika Basoglu, Nuray Ulusoy-Güzeldemirci and Hafize Seda Vatansever</li> <li>● 14.55-15.10</li> </ul>

	<p>'Protocol for Obtaining Stem Cells from Menstrual Blood'Aslınur Aktaş, Hilal Kabadayı Ensarioğlu, Yıldız Uyar and <b>Hafize Seda Vatansever</b></p> <ul style="list-style-type: none"> <li>● 15.10-15.25 'Critical Parameters in Pharmaceutical Manufacturing of Biosimilars' <b>Yildiz Ozalp</b> and Motunrayo Mayowa Onayo</li> <li>● 15.25-15.40 'Evaluation of Taurodont and Pyramidal Mandibular Molars Prevalance in a Group of Turkish Cypriot Population by CBCT' Dilan Kırmızı, Umut Aksoy, Seçil Aksoy, <b>Nildem İnönü</b> and Kaan Orhan</li> </ul>
<b>15.40-16.00</b>	<b>Coffee Break</b>
16.00-16.45	<p>Oral Presentations</p> <ul style="list-style-type: none"> <li>● 16.00-16.15 'Influence of Prefabricated Auxiliary Device Design and Intraoral Scanner Type on the 3D Trueness of Intraoral Scans' Özay Önöral, <b>Selin Çakır</b> and Sevcan Kurtulmuş Yılmaz</li> <li>● 16.15-16.30 'Biological Network Analysis of Genes and Non-coding Genes in PCOS' <b>Bitâ Ostad Hasanzadeh</b>, Zahra Lotfi Sousefi, Parham Ostad Hasanzadeh and Pinar Tulay</li> <li>● 16.30-16.45 'Stimulation by Exosomes Under Hypoxia Enhances Tumorigenic Properties of Primary and Metastatic Colon and Breast Cancer Cells' İbrahim Halil Gürçınar, <b>Hilal Kabadayı Ensarioğlu</b>, Remziye Kendirci-Katırcı and Hafize Seda Vatansever</li> </ul>
<b>17.00-18.00</b>	<b>Poster Sessions</b>
<b>18.30-20.00</b>	<b>Welcome Reception (Location: NEU Car Museum)</b>
<p><b>October 18, Friday</b></p> <p><b>(MAIN HALL / IRFAN GUNSEL CONGRESS CENTER, HALL 1)</b></p>	

09.00-12.10	<p style="text-align: center;"><b>Session 2</b></p> <p style="text-align: center;"><b>Microbial Biotechnology</b></p> <p style="text-align: center;">Chair: <b>Assoc. Prof. Dr. Cenk Serhan Ozverel, Dr. Gokce Akan</b></p>
09.00-09.40	<p style="text-align: center;">‘Organ-on-chips and Applications in Infectious Diseases’</p> <p style="text-align: center;"><b>Assoc. Prof. Dr. Buket Baddal</b></p> <p style="text-align: center;">Near East University, Nicosia, Cyprus</p>
09.40-10.40	<p style="text-align: center;">Oral Presentations</p> <ul style="list-style-type: none"> <li>● 09.40-09.55 ‘In Silico Optimization of Antifungal Therapies: Exploring Biosurfactant-Antifungal Synergy Against Trichophyton Species’ <b>Cemile Bagkur</b>, Cenk Serhan Ozverel and Emine Erdag</li> <li>● 09.55-10.10 ‘Triazole Derivatives as Potential MCR-1 Inhibitors: A Promising Approach to Overcome Colistin Resistance’ <b>Emine Erdag</b>, Cenk Serhan Ozverel and Cemile Bagkur</li> <li>● 10.10-10.25 ‘Necessity of Alternative Strategies to Combat Antibiotic Resistant Strains Detected in Northern Cyprus’ Elisabeth Opawoye, <b>Emrah Guler</b>, Kaya Süer and Ayse Arıkan</li> <li>● 10.25-10.40 ‘Molecular Characterization of Newcastle Disease Virus Circulating in Pakistan’ <b>Uswa Siddique</b> and Ijaz Ali</li> </ul>
10.40-11.00	<p style="text-align: center;"><b>Coffee Break</b></p>
11.00-12.00	<p style="text-align: center;">“Opportunities of Bio-based Materials in Automotive Industry”</p> <p style="text-align: center;"><b>Aytun Kazmaci</b></p>

	GUNSEL
<b>Lunch Break</b>	
14.00-16.30	<b>Session 3</b>  <b>Experimental Health: DESAM</b>  <b>Chairs: Assoc. Prof. Dr. Cenk Serhan Özverel, Dr. Gulden Tuncel</b>
14.00-14.40	‘DESAM’s Capabilities and Innovative Approaches’  <b>Assoc. Prof. Dr. Cenk Serhan Özverel</b>  Near East University, Nicosia, Cyprus
14.40-15.40	<b>Oral Presentations</b> <ul style="list-style-type: none"> <li>● 14.40-14.55 ‘Does RAB31 Continue to Play a Role in Exosome Biogenesis of Adipose-Derived Mesenchymal Stem Cells in 2D and 3D Culture Conditions in Hypoxic Environment?’ <b>Hafize Seda Vatansever</b>, Hilal Kabadayi Ensarioglu, Aslınur Aktaş, Burak Kutlu Aydın, Nadire Kiyak and Mehmet Vatansever</li> <li>● 14.55-15.10 Adipose Mesenchymal Stem Cell-Derived Exosomes Prevent Testicular Torsion Injury Controlling Apoptosis and Necroptosis’ <b>Hilal Kabadayi Ensarioglu</b>, Fatma Bilgecan Şimşek, Hafize Seda Vatansever, Hasan Çayırılı and Aydın Şencan</li> <li>● 15.10-15.25 ‘In vivo Evaluation of Microemulsion Formulation Containing Capsaicin For the Treatment of Neuropathic Pain’ Rumooz Shayyah, Umay M G Bölgen, Ares Alizade, Serpil D Kayıran, Sonia Ebrahimi and <b>Fazilet Aksu</b></li> <li>● 15.25-15.40 ‘Synthesis of Chitosan Functionalized Zinc Oxide Nanocomposite using Moringa Stenopetala Extract and Assessment of its Antibacterial and Cytotoxic Potentials’ <b>Huzaiifa Umar</b>, Natacha Usanase, Basil Bartholomew Duwa and Dilber Uzun Ozsahin</li> </ul>

15.40-16.00	<b>Coffee Break</b>
16.00-17.15	<p style="text-align: center;">Oral Presentations</p> <p>16.00-16.15</p> <ul style="list-style-type: none"> <li>•</li> </ul> <p>16.15-16.30</p> <ul style="list-style-type: none"> <li>• 'Investiagion of Behavioral Changes and Histopathological Changes in the Brain In Alzheimer's Modelled Mice with Aluminium Chloride' Derya D Kanan, Işıl Aydemir, Ares Alizade, <b>Fazilet Aksu</b> and Sonia Ebrahimi</li> </ul> <p>16.30-16.45</p> <ul style="list-style-type: none"> <li>• 'Renal Artery Variations and Clinical Importance: CT Angiography Study in TRNC Population' <b>Yasemin Küçükçiloğlu</b> and Mehtap Yüksel Tiryakioğlu</li> </ul> <p>16.45-17.00</p> <ul style="list-style-type: none"> <li>• 'Does scan aid use improve the 3D trueness of digital implant impressions with different inter-implant distances?' Sevcan Kurtulmuş Yılmaz, <b>Tezcan Muslu</b> and Özay Önöral</li> </ul> <p>17.00-17.15</p> <ul style="list-style-type: none"> <li>• 'Allelic frequencies of FSHR gene and biological network analysis of non-coding genes in PCOS' <b>Sana Madhher</b>, Bitra Ostad Hasanzadeh, Burcu Ozbakir, Ali Cenk Ozay and Pinar Tulay</li> </ul>
17.00-18.00	<b>Poster Presentations</b>
<p><b>October 19, Saturday</b></p> <p><b>(MAIN HALL / IRFAN GUNSEL CONGRESS CENTER, HALL 1)</b></p>	
09.00-12.10	<p><b>Session 4</b></p> <p><b>AI and New Era of Biotechnology</b></p>

	Chair: <b>Prof. Dr. Dilber Uzun Özşahin</b>
09.00-09.30	<p style="text-align: center;">‘Unlocking the potential of Collective Intelligence in Medicine’</p> <p style="text-align: center;"><b>Prof. Dr. Shadi Albarqouni</b></p> <p style="text-align: center;">University of Bonn, Germany</p>
09.30-10.00	<p style="text-align: center;">‘High Resolution and High Sensitivity Molecular Imaging: Are We There yet?’</p> <p style="text-align: center;"><b>Prof. Dr. Georges El Fakhri</b></p> <p style="text-align: center;">Yale University, USA</p>
10.00-10.30	<p style="text-align: center;">Oral Presentations</p> <p style="text-align: center;">10.00-10.15</p> <ul style="list-style-type: none"> <li>● ‘Early prediction of mortality due to carbapenem-resistant Gram-negative bacterial infection in intensive care units using machine learning’ <b>Buket Baddal</b>, Cemile Bagkur and Bardia Arman</li> <li>● 10.15-10.30 ‘Ensemble Learning for Diabetes Classification Using Voting Classifier on CDC Health Indicators Dataset’ <b>Bardia Arman</b>, Kian Jazayeri, Erbuğ Çelebi, Kezban Alpan and Kamil Dimililer</li> </ul>
<b>10.30-11.00</b>	<b>Coffee Break</b>
11.00-12.00	<p style="text-align: center;">Oral Presentations</p> <p style="text-align: center;">11.00-11.15</p> <ul style="list-style-type: none"> <li>● ‘Voronoi-Based Data Augmentation Techniques in Supervised Learning’ <b>Bardia Arman</b>, Erbug Celebi, Emre Özbilge and Raif Usal</li> <li>● 11.15-11.30 ‘Detection of Keratoconus through YOLOV8 ROI Preprocessing and Pretrained Convolutional Neural Networks using 2D Images’ Muhammed Sideeq Anwar and <b>Emre Özbilge</b></li> <li>● 11.30-11.45 ‘Evaluating the Latent Tuberculosis Diagnostic Tests Using Fuzzy PROMETHEE: A Multi-Criteria Decision Approach’ Declan Emegano, <b>Nazife</b></li> </ul>

	<p><b>Sultanoglu</b>, Efe Precious Onakpojeruo, Berna Uzun, Dilber Uzun Ozsahin and Tamer Sanlidag</p> <ul style="list-style-type: none"> <li>• 11.45-12.00 ‘Contribution of Multi-Criteria Decision-Making Approach in Choosing the Most Appropriate Rapid Diagnostic Tests in an Outbreak’ <b>Ayse Arikan</b>, Berna Uzun, Murat Sayan, Dilber Uzun Ozsahin and Tamer Sanlidag</li> </ul>
<b>Lunch Break</b>	
14.00-16.00	<p style="text-align: center;"><b>Session 5</b></p> <p style="text-align: center;"><b>Molecular Biotechnology</b></p> <p style="text-align: center;">Chairs: <b>Prof. Dr. Murat Sayan, Prof. Dr. Pinar Tulay</b></p>
14.00-14.30	<p>‘Development of a Diagnostic Kit Using Two-Dimensional Multiplex RT-PCR Technique with Molecular Beacon’</p> <p style="text-align: center;"><b>Dr. Onur Bilenođlu</b></p> <p style="text-align: center;">Diagnotech Biotechnology, İstanbul, Türkiye</p>
14.30-15.00	<p>“Next-Generation Multiomic Approaches with Oxford Nanopore Technologies”</p> <p style="text-align: center;"><b>Onur Yavuz</b></p> <p style="text-align: center;">Project Specialist, Massive Bioinformatics, İzmir, Türkiye</p>
15.00-15.30	<p>‘ABC and AVITI – Opening a gateway to the next evolution of sequencing’</p> <p style="text-align: center;"><b>Ferda Altaytas</b></p> <p style="text-align: center;">ATQ Biotechnology, Ankara, Türkiye</p>
15.30-16.00	<p>‘Serum proteome profiling by deep parallel Multiplexing NGS’</p>



	<p style="text-align: center;"><b>Prof. Dr. Kamil Önder</b></p> <p style="text-align: center;">Procomcure Biotech GmbH, Salzburg, Austria</p>
16.00-16.30	<p style="text-align: center;"><b>Coffee Break</b></p>
16.30-17.45	<p style="text-align: center;"><b>Session 6</b></p> <p style="text-align: center;"><b>Food Biotechnology</b></p> <p style="text-align: center;">Chairs: <b>Prof. Dr. Beyza Ulusoy, Prof. Dr. Özge Özden</b></p>
16.30-17.00	<p style="text-align: center;">‘Effects of Climate Change on Nature and Bees’</p> <p style="text-align: center;"><b>Prof. Dr. Nevzat Artik</b></p> <p style="text-align: center;">Ankara University, Ankara, Türkiye</p>
17.00-17.45	<p style="text-align: center;">Oral Presentations</p> <ul style="list-style-type: none"> <li>● 17.00-17.15 ‘Phenolic Profile and Antioxidant Properties of Sarıulak Olive Fermented with Red Beetroot’ <b>Şebnem Güler</b>, Perihan Adun, Mehmet Karagözlü and Hüseyin Erten</li> <li>● 17.15-17.30 ‘The cytotoxic activity of rosemary essential oil on PANC-1 cells’ <b>Mustafa Hoca</b>, Eda Becer, Abdussalam Yakubu and Hafize Seda Vatansever</li> <li>● 17.30-17.45 ‘Examining the Resistance to Technological Process and In-vitro Probiotic Properties of Saccharomyces boulardii’ <b>Kabola Bornu</b>, Beyza Hatice Ulusoy, Fatma Kaya Yildirim, Kaynarca and Markus</li> </ul>
20.00-00.00	<p style="text-align: center;"><b>Gala Dinner</b></p>
<p style="text-align: center;"><b>October 20, Sunday</b></p>	

**(MAIN HALL / IRFAN GUNSEL CONGRESS CENTER, HALL I)**

09.00-10.30

**Session 7**

**Future of Science**

Chairs: **Prof. Dr. Tamer Şanlıdag, Assoc. Prof. Dr. Cenk Serhan Ozverel**

**10.30-11.00**

**Conference Closing Ceremony**