

NEAR EAST UNIVERSITY



NEAR EAST UNIVERSITY
DESAM RESEARCH INSTITUTE

17 October-20 October 2024

BIOTECHNOLOGY CONGRESS

Location: Near East University

Scientific Program

October 17, 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>“Biotechnology related research infrastructures landscape across Europe”</p> <p>OPENING LECTURE: Prof. Dr. Murat Özgören</p> <p>Near East University, Head of NERITA; Chair Brain and Conscious States Research Center Chair Biophysics, Faculty of Medicine</p> <p>Chair: Prof. Dr. H. Seda VATANSEVER</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"> ● 11.15-11.30 ‘Development of a qRT-PCR Kit for Detecting Feline Coronavirus (FCoV) That Recently Caused Numerous Cat Deaths in Cyprus’ Gulten Tuncel Dereboylu, Gokce Akan, Melis Kalayci, Cenk Serhan Ozverel and Tamer Sanlidag ● 11.30-11.45 ‘Revolutionizing Hepatitis D Diagnostics: Developing an In-House qRT-PCR Kit for Exceptional Detection of HDV’ Kıvanç Günhan, H. Seda Vatansever, Tamer Şanlıdağ, Murat Sayan, Sinem Akçalı, Hilal Kabadayı Ensarioğlu, Ferdi Çetin, Gökçe Akan, Gulten Tuncel Dereboylu and Melis Kalaycı ● 11.45-12.00 ‘Development of RP-HPLC Method for Simultaneous Estimation of Combinations of Metformin and curcumin’ Bahareh Noshadi, Emine Vildan Burgaz and Leyla Beba Pozharani
Lunch Break	
14.00-16.40	<p style="text-align: center;">Session 1</p> <p style="text-align: center;">Medical Biotechnology</p> <p style="text-align: center;">Chair: Prof. Dr. Doğa Kavaz, Dr. Ahmet Caglar Ozketen</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;">Prof. Dr. Engin Umut Akkaya</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"> ● 14.40-14.55 ‘Synthesis and cytotoxic effects of various thiosemicarbazide compounds on primary and metastatic breast cancer cell lines’ Hilal Kabadayı Ensarioğlu, Eda Becer, Faika Basoglu, Nuray Ulusoy-Güzeldemirci and Hafize Seda Vatansever

	<ul style="list-style-type: none"> • 14.55-15.10 'Protocol for Obtaining Stem Cells from Menstrual Blood' Ashnur Aktaş, Hilal Kabadayı Ensarioğlu, Yıldız Uyar and Hafize Seda Vatansever • 15.10-15.25 'Critical Parameters in Pharmaceutical Manufacturing of Biosimilars' Yildiz Ozalp and Motunrayo Mayowa Onayo • 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, Nildem İnönü and Kaan Orhan
15.40-16.00	Coffee Break
16.00-16.45	<p style="text-align: center;">Oral Presentations</p> <ul style="list-style-type: none"> • 16.00-16.15 'Influence of Prefabricated Auxiliary Device Design and Intraoral Scanner Type on the 3D Trueness of Intraoral Scans' Özey Önöral, Selin Çakır and Sevcan Kurtulmuş Yılmaz • 16.15-16.30 'Biological Network Analysis of Genes and Non-coding Genes in PCOS' Bitā Ostad Hasanzadeh, Zahra Lotfi Sousefi, Parham Ostad Hasanzadeh and Pinar Tulay • 16.30-16.45 'Stimulation by Exosomes Under Hypoxia Enhances Tumorigenic Properties of Primary and Metastatic Colon and Breast Cancer Cells' İbrahim Halil Gürçınar, Hilal Kabadayı Ensarioğlu, Remziye Kendirci-Katırcı and Hafize Seda Vatansever
17.00-18.00	Poster Sessions
18.30-20.00	Welcome Reception (Location: NEU Car Museum)
October 18, Friday	

(MAIN HALL / IRFAN GUNSEL CONGRESS CENTER, HALL 1)

09.00-12.10	<p style="text-align: center;">Session 2</p> <p style="text-align: center;">Microbial Biotechnology</p> <p style="text-align: center;">Chair: Assoc. Prof. Cenk Serhan Ozverel, Dr. Gokce Akan</p>
09.00-09.40	<p style="text-align: center;">‘Organ-on-chips and Applications in Infectious Diseases’</p> <p style="text-align: center;">Assoc. Prof. Dr. Buket Baddal</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">● 09.40-09.55 ‘In Silico Optimization of Antifungal Therapies: Exploring Biosurfactant-Antifungal Synergy Against Trichophyton Species’ Cemile Bagkur, Cenk Serhan Ozverel and Emine Erdag● 09.55-10.10 ‘Triazole Derivatives as Potential MCR-1 Inhibitors: A Promising Approach to Overcome Colistin Resistance’ Emine Erdag, Cenk Serhan Ozverel and Cemile Bagkur● 10.10-10.25 ‘Necessity of Alternative Strategies to Combat Antibiotic Resistant Strains Detected in Northern Cyprus’ Elisabeth Opawoye, Emrah Guler, Kaya Süer and Ayse Arikan● 10.25-10.40 ‘Molecular Characterization of Newcastle Disease Virus Circulating in Pakistan’ Uswa Siddique and Ijaz Ali
10.40-11.00	Coffee Break
11.00-12.00	<p style="text-align: center;">‘Opportunities of Natural Fibers in Automotive Industry’</p>

	Aytun Kazmaci GUNSEL
Lunch Break	
14.00-16.30	Session 3 DESAM Chairs: Assoc. Prof. Cenk Serhan Ozverel, Dr. Gulden Tuncel
14.00-14.40	‘DESAM’s Capabilities and Innovative Approaches’ Assoc. Prof. Cenk Serhan Ozverel Near East University, Nicosia, Cyprus
14.40-15.40	Oral Presentations <ul style="list-style-type: none"> ● 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?’ Hafize Seda Vatansever, Hilal Kabadayi Ensarioglu, Aslınur Aktaş, Burak Kutlu Aydın, Nadire Kıyak and Mehmet Vatansever ● 14.55-15.10 Adipose Mesenchymal Stem Cell-Derived Exosomes Prevent Testicular Torsion Injury Controlling Apoptosis and Necroptosis’ Hilal Kabadayi Ensarioglu, Fatma Bilgecan Şimşek, Hafize Seda Vatansever, Hasan Çayırılı and Aydın Şencan ● 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 Fazilet Aksu ● 15.25-15.40 ‘Synthesis of Chitosan Functionalized Zinc Oxide Nanocomposite using Moringa Stenopetala Extract and Assessment of its Antibacterial and

	Cytotoxic Potentials' Huzaiifa Umar , Natacha Usanase, Basil Bartholomew Duwa and Dilber Uzun Ozsahin
15.40-16.00	Coffee Break
16.00-17.00	<p>Oral Presentations</p> <p>16.00-16.15</p> <ul style="list-style-type: none"> • 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, Fazilet Aksu, Sonia Ebrahimi <p>16.15-16.30</p> <ul style="list-style-type: none"> • 'Renal Artery Variations and Clinical Importance: CT Angiography Study in TRNC Population' Yasemin Küçükçiloğlu and Mehtap Yüksel Tiryakioğlu <p>16.30-16.45</p> <ul style="list-style-type: none"> • 'Does scan aid use improve the 3D trueness of digital implant impressions with different inter-implant distances?' Sevcen Kurtulmuş Yılmaz, Tezcan Muslu and Özay Önöral <p>16.45-17.00</p> <ul style="list-style-type: none"> • 'Allelic frequencies of FSHR gene and biological network analysis of non-coding genes in PCOS' Sana Madhher, Bita Ostad Hasanzadeh, Burcu Ozbakir, Ali Cenk Ozay and Pinar Tulay
17.00-18.00	Poster Presentations
<p>October 19, Saturday</p> <p>(MAIN HALL / IRFAN GUNSEL CONGRESS CENTER, HALL 1)</p>	
09.00-11.11	Session 4

	<p style="text-align: center;">Molecular Biotechnology</p> <p style="text-align: center;">Chairs: Prof. Dr. Murat Sayan, Prof. Dr. Pinar Tulay</p>
09.00-09.30	<p style="text-align: center;">‘Development of a Diagnostic Kit Using Two-Dimensional Multiplex RT-PCR Technique with Molecular Beacon’</p> <p style="text-align: center;">Dr. Onur Bilenoglu</p> <p style="text-align: center;">Diagnotech Biotechnology, İstanbul, Türkiye</p>
09.30-10.00	<p style="text-align: center;">‘Oxford Nanopore MiniOn Sequencing Technology’</p> <p style="text-align: center;">Onur Yavuz</p> <p style="text-align: center;">Project Specialist, Massive Bioinformatics, İzmir, Türkiye</p>
10.00-10.30	<p style="text-align: center;">‘ABC and AVITI – Opening a gateway to the next evolution of sequencing’</p> <p style="text-align: center;">Ferda Altaytas</p> <p style="text-align: center;">ATQ Biotechnology, Ankara, Türkiye</p>
10.30-11.00	<p style="text-align: center;">‘Serum proteome profiling by deep parallel Multiplexing NGS’</p> <p style="text-align: center;">Prof. Dr. Kamil Onder</p> <p style="text-align: center;">Procomcure Biotech GmbH, Salzburg, Austria</p>
11.00-11.15	Coffee Break
11.15-12.00	<p style="text-align: center;">“Fostering Biotechnology for a Sustainable Future with a Co-Creation and Succeeding Together Approach”</p> <p style="text-align: center;">Prof.Dr. Hasan Mandal</p> <p style="text-align: center;">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>

	Chair: Prof. Dr. Murat Ozgoren
12.00-14.00	Lunch
14.00-17.00	Session 5 AI and New Era of Biotechnology Chair: Prof. Dr. Dilber Uzun Ozsahin, Assist. Prof. Mubarak Auwalu Saleh
14.00-14.30	‘Unlocking the potential of Collective Intelligence in Medicine’ Prof. Dr. Shadi Albarqouni University of Bonn, Germany
14.30-15.00	‘High Resolution and High Sensitivity Molecular Imaging: Are We There yet?’ Prof. Dr. Georges El Fakhri Yale University, USA
15.00-15.30	Oral Presentations 15.00-15.15 <ul style="list-style-type: none"> ● ‘Early prediction of mortality due to carbapenem-resistant Gram-negative bacterial infection in intensive care units using machine learning’ Buket Baddal, Cemile Bagkur and Bardia Arman ● 15.15-15.30 ‘Ensemble Learning for Diabetes Classification Using Voting Classifier on CDC Health Indicators Dataset ’Bardia Arman, Kian Jazayeri, Erbuğ Çelebi, Kezban Alpan and Kamil Dimililer
15.30-15.45	Coffee Break
15.45-16.45	

	<p style="text-align: center;">Oral Presentations</p> <p>15.45-16.00</p> <ul style="list-style-type: none"> • ‘Voronoi-Based Data Augmentation Techniques in Supervised Learning’ Bardia Arman, Erbug Celebi, Emre Ozbilge and Raif Usal <p>16.00-16.15</p> <ul style="list-style-type: none"> • ‘Detection of Keratoconus through YOLOV8 ROI Preprocessing and Pretrained Convolutional Neural Networks using 2D Images’ Muhammed Sideeq Anwar and Emre Ozbilge <p>16.15-16.30</p> <ul style="list-style-type: none"> • ‘Evaluating the Latent Tuberculosis Diagnostic Tests Using Fuzzy PROMETHEE: A Multi-Criteria Decision Approach’ Declan Emegano, Nazife Sultanoglu, Efe Precious Onakpojeruo, Berna Uzun, Dilber Uzun Ozsahin and Tamer Sanlidag <ul style="list-style-type: none"> • 16.30-16.45 ‘Contribution of Multi-Criteria Decision-Making Approach in Choosing the Most Appropriate Rapid Diagnostic Tests in an Outbreak’ Ayşe Arıkan, Berna Uzun, Murat Sayan, Dilber Uzun Ozsahin and Tamer Sanlidag
16.45-17.00	Coffee Break
17.00-18.15	<p style="text-align: center;">Session 6</p> <p style="text-align: center;">Food Biotechnology</p> <p style="text-align: center;">Chairs: Prof. Dr. Beyza Ulusoy, Prof. Dr. Ozge Ozden</p>
17.00-17.30	<p style="text-align: center;">‘Effects of Climate Change on Nature and Bees’</p> <p style="text-align: center;">Prof. Dr. Nevzat Artık</p> <p style="text-align: center;">Ankara University, Ankara, Türkiye</p>
	Oral Presentations

	<ul style="list-style-type: none"> • 17.30-17.45 'Phenolic Profile and Antioxidant Properties of Sariolak Olive Fermented with Red Beetroot' Sebnem Guler, Perihan Adun, Mehmet Karagözlü and Hüseyin Erten • 17.45-18.00 'The cytotoxic activity of rosemary essential oil on PANC-1 cells' Mustafa Hoca, Eda Becer, Abdussalam Yakubu and Hafize Seda Vatansever • 18.00-18.15 'Examining the Resistance to Technological Process and In-vitro Probiotic Properties of Saccharomyces boulardii' Bornu Kabolobari Barielnu, Beyza Hatice Ulusoy, Fatma Kaya Yildirim, Kaynarca and Markus
20.00-00.00	Gala Dinner
<p>October 20, Sunday</p> <p>(MAIN HALL / IRFAN GUNSEL CONGRESS CENTER, HALL I)</p>	
09.00-10.30	<p style="text-align: center;">Session 7</p> <p style="text-align: center;">Future of Science Panel</p> <p style="text-align: center;">Prof. Dr. Murat Ozgoren, Prof. Dr. Mehmet Ozturk, Prof. Dr. H. Seda Vatansever, Prof.Dr. Murat Sayan, Prof.Dr. Beyza Ulusoy, Prof. Dr. Dilber Uzun Ozsahin</p> <p style="text-align: center;">Chairs: Prof. Dr. Tamer Sanlidag, Assoc. Prof. Cenk Serhan Ozverel</p>
10.30-11.00	Conference Closing Ceremony