

POSTERS LIST

BIOMATERIALS FOR HARD TISSUE REPAIR AND REGENERATION

PN	
P-001	<p>Osteogenic coatings of hydroxyapatite and strontium ranelate for titanium implants</p> <p><u>M.T. Vurat</u>¹, A.E. Elçin^{1,2}, Y.M. Elçin^{1,3}</p> <p>¹ Ankara University TEBNL (elcinlab.org), Ankara, TR ² Ankara University Stem Cell Institute, Ankara, TR ³ Biovalda Health Technologies, Inc., Ankara, TR</p>
P-002	<p>Osteogenic differentiation of mesenchymal stem cells on silk/reduced graphene oxide nanofibers</p> <p><u>H. Nalvuran</u>^{1,2}, A. E. Elçin^{1,3}, Y.M. Elçin^{1,2}</p> <p>¹Biovalda Health Technologies, Inc., Ankara, TR ²Ankara University TEBNL (elcinlab.org), Ankara, TR ³Ankara University Stem Cell Institute, Ankara, TR</p>
P-003	<p>Microstructure analysis of Cu²⁺/SiO₄⁴⁻ co-doped nanohydroxyapatite</p> <p><u>S. Öncü</u>, B. Yedekçi, A.Z. Alshemary, A. Tezcaner, D. Keskin, Z. Evis</p> <p>Middle East Technical U., Ankara, TR</p>
P-004	<p>Investigating the layer-wise interaction of the serum albumin protein and clay as a biocompatible material with the FT-IR spectroscopy</p> <p><u>Y. Adıgüzel</u></p> <p>İstanbul Kemerburgaz U., İstanbul, TR</p>
P-005	<p>Effect of dental tomography irradiation on the micro-hardness of CAD/CAM ceramics</p> <p>Ö. Sağsöz, N. Polat-Sağsöz, <u>M.E. Sağsöz</u></p> <p>Atatürk U., Erzurum, TR</p>
P-006	<p>Fabrication and cellular investigation of biomimetic collagen nanopillar films</p> <p><u>P. Alpaslan</u>, S. Altuntaş, F. Büyükserin</p> <p>TOBB U. Economics and Technology, Ankara, TR</p>
P-007	<p>In vitro response of pre-osteoblast cells to graphene /13-93B3 borate- based bioactive glass scaffolds</p> <p><u>M. Türk</u>, A.M. Deliormanlı</p> <p>Manisa Celal Bayar U., Manisa, TR</p>
P-008	<p>Comparison the effect of surface modification of nanofibers with glutamic acid and aspartic acid enriched peptide on osteogenic differentiation of human mesenchymal stem cells</p> <p><u>G. Onak</u>¹, B. Garipcan², O. Karaman¹</p> <p>¹İzmir Katip Çelebi U., İzmir, TR ²Boğaziçi U., İstanbul, TR</p>

P-009	<p>Surface modification of aligned polycaprolactone nanofibers by different glutamic acid sequences containing peptides for enhanced biomineralization</p> <p><u>G. Onak</u>, A.G. Tatar, H.K. Bilgili, N. Erdoğan, O. Karaman İzmir Katip Çelebi U., İzmir, TR</p>
P-010	<p>Investigation of osteogenic potential of silicate hydroxyapatite particles in electrospun PCL scaffold</p> <p><u>A.D. Dalgıç</u>¹, A.Z. Alshemary², A. Tezcaner¹, Z. Evis¹, D. Keskin¹ ¹Middle East Technical U., Ankara, TR ²Karabük U., Karabük, TR</p>
P-011	<p>Synergistic effect of beta-lactam antibiotics with boron-doped nanohydroxyapatites</p> <p><u>D. Çakır</u>, F. Asghari-Sana, M. Gümüşderelioğlu Hacettepe U., Ankara, TR</p>
P-012	<p>Preparation of nanosized beta-tricalcium phosphate (β-TCP) based graft material for hard tissue applications</p> <p>A. Toraman, E. Yürük, <u>A.B. Hazar-Yoruç</u> Yıldız Technical U., İstanbul, TR</p>
P-013	<p>nHAp & modified-nHAp/PMMA based bionanocomposites: preparation, characterization and some biological application</p> <p><u>M.E. Diken</u>, Y. Turhan, S. Doğan, M. Doğan Balıkesir U., Balıkesir, TR</p>
P-014	<p>Evaluation of zeolite/PCL-PEG-PCL composite scaffolds on bone regeneration in rabbit unicortical tibial defect</p> <p><u>A.E. Pazarçeviren</u>¹, Ö. Erdemli², M. Volkan Yaprakçı³, D. Keskin¹, A. Tezcaner¹ ¹Middle East Technical U., Ankara, TR ²Çankaya U., Ankara, TR ³Afyon Kocatepe U., Afyon, TR</p>
P-015	<p>Perfusion mode bone-tissue bioreactors: investigation of cell seeding, proliferation and differentiation</p> <p>I.G. Beşkardeş, G. Aydın, <u>Ş. Bektaş</u>, A. Cengiz, M. Gümüşderelioğlu Hacettepe U., Ankara, TR</p>
P-016	<p>PCL-Fibrin scaffolds for bone tissue engineering applications</p> <p><u>E. Malikmammadov</u>, T.T. Endoğan, A. Kızıltay, V. Hasırcı, N. Hasırcı Middle East Technical U., Ankara, TR</p>
P-017	<p>Microwave-induced production of boron-doped HAp (B-HAp) and B-HAp coated composite scaffolds</p> <p><u>Ö.E. Tunçay</u>, T.T. Demirtaş, M. Gümüşderelioğlu Hacettepe U., Ankara, TR</p>
P-018	<p>Strontium and zinc decorated polysaccharide composite gel fibers</p> <p><u>B.S. Yağcı</u>, G. Manap, S. Çalamak, E.A. Aksoy, K. Ulubayram Hacettepe U., Ankara, TR</p>
P-019	<p>Local delivery of bioactive agents for enhanced bone tissue engineering</p> <p><u>H.A. Alam</u>, A.D. Dalgıç, A. Tezcaner, C. Özen, D. Keskin Middle East Technical U., Ankara, TR</p>

P-020	Production of biodegradable Mg-alloy scaffolds for tissue engineering applications <u>İ. Mutlu</u> İstanbul U., İstanbul, TR
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HYDROGELS FOR CARTILAGE AND SOFT TISSUE REPAIR AND REGENERATION

PN	
P-021	Reinforcing agarose and GelMA hydrogels with 3D printed PCL: a novel scaffold for use in meniscus tissue engineering <u>G. Bahçecioğlu</u> ¹ , N. Hasırcı ¹ , B. Bilgen ^{2,3} , V. Hasırcı ¹ ¹ Middle East Technical U., Ankara, TR ² Brown U. and Rhode Island Hospital, USA ³ Providence VA Medical Center, Providence, USA
P-022	Cartilage tissue engineering using 3D chitosan-based scaffolds and human adipose-derived mesenchymal stem cells <u>Y. Çetin</u> , Z. Koçer, S. Sezer Tubitak MRC, Kocaeli, TR
P-023	Evaluation of pHEMA nanofibers for chondrocyte attachment and viability <u>K.G. İmrak</u> ¹ , Ö. Özdemir ¹ , S. Karahan ¹ , M. Türk ¹ , A. Kürüm ¹ , B. Kürüm ¹ , M. Uğurlu ² ¹ Kırıkkale U., Kırıkkale, TR ² Yıldırım Beyazıt U., Ankara, TR
P-024	Evaluation of electrospun chitosan coated PHEMA nanofibers for chondrogenic potential <u>Ö. Özdemir</u> ¹ , K.G. İmrak ¹ , S. Karahan ¹ , M. Türk ¹ , A. Kürüm ¹ , B. Kürüm ¹ , M. Uğurlu ² ¹ Kırıkkale U., Kırıkkale, TR ² Yıldırım Beyazıt U., Ankara, TR
P-025	Evaluation of dexamethosane loaded hyaluronic acid nanoparticles for chondrocyte viability <u>S. Birdane</u> ¹ , R. Akçapınar ¹ , M. Türk ¹ , S. Karahan ¹ , N. Şahiner ² ¹ Kırıkkale U., Ankara, TR ² Çanakkale Onsekiz Mart U., Çanakkale, TR
P-026	Spatial mimicry of articular cartilage via photochemically fused hydrogel structures <u>C. Bayram</u> , E. Çelik, E.B. Denkbaş Hacettepe U., Ankara, TR
P-027	Zeolite containing gelatin/pullulan sponges for cartilage tissue engineering <u>D. Atilla</u> ¹ , A. Karataş ² , D. Keskin ¹ , A. Tezcaner ¹ ¹ Middle East Technical U., Ankara, TR ² İstanbul Technical U., İstanbul, TR
P-028	GelMA-HEMA BCN hydrogels for corneal stroma engineering C.K. Bektaş, <u>V. Hasırcı</u> Middle East Technical U., Ankara, TR

P-029	<p>Alginate-gelatin hydrogels loaded with doxycycline and vitamin E containing mPEG-b-PCL micelles for periodontal tissue regeneration</p> <p><u>G. Işık</u>, A. Kızıltay, N. Hasırcı, A. Tezcaner Middle East Technical U., Ankara, TR</p>
P-030	<p>Determination of properties of sodium alginate/silk fibroin scaffold cross-linked with mechanical effect</p> <p><u>N. Emin</u> Kastamonu U., Kastamonu, TR</p>
P-031	<p>Effects of different neutralization methods on physicochemical properties and cytocompatibility of chitosan</p> <p>Ş. Bektaş¹, <u>T. Gültan</u>^{1,2}, D. Çetin-Altındal¹, M. Gümüşderelioğlu¹ ¹Hacettepe U., Ankara, TR ²Atılım U., Ankara, TR</p>
P-032	<p>Mechanical and rheological properties of chitosan hydrogels as biomaterials</p> <p>F. Tuğcu-Demiröz¹, <u>S. Tort</u>¹, S. İlbasmış-Tamer¹, F. Acartürk Gazi U., Ankara, TR</p>
P-033	<p>Structural characterization of sulfated chitosan using sodium sulfate</p> <p>A.F. Moraes¹, A.P. Cunha¹, A. C. Guastaldi², D. Mantovani³, <u>R.S. Vieira</u>¹ ¹Federal University of Ceará, Fortaleza, BR ²Paulista U., Sao Paulo, BR ³Laval U., Quebec City, CA</p>
P-034	<p>Hyaluronic acid gel preparation for interstitial cystitis treatment</p> <p>V. Uğraşkan, <u>A.B. Hazar-Yoruç</u> Yıldız Technical U., İstanbul, TR</p>
P-035	<p>Collagen Based Bio-nanomaterials for Bioscience and Bioengineering Applications</p> <p><u>E. Eryılmaz</u> Selçuk U., Ankara TR</p>
P-185	<p>Engineered chitosan as bio-ink for 3D bioprinting</p> <p><u>T.T. Demirtaş</u>, G. Irmak, M. Gümüşderelioğlu. Hacettepe U., Ankara, TR</p>

WOUND REPAIR BIOMATERIALS

PN	
P-036	<p>Multifunctional bilayer wound dressing with pain reliever and antimicrobial delivery</p> <p><u>Ç. Mirasyedioğlu</u>, V. Hasırcı Middle East Technical U., Ankara, TR</p>
P-037	<p>The effects of UV sterilization on physical properties of nanofiber wound dressings</p> <p><u>S. Tort</u>¹, S. Yıldız², F. Acartürk¹ ¹Gazi U., Ankara, TR ²Ankara U., Ankara, TR</p>

P-038	Atelocollagen-based hydrogels for wound healing <u>C. Yılmaz-Özdoğan</u> , E. Doğer, H. Kenar Kocaeli U., Kocaeli, TR
P-039	Development of regenerative active material entrapped wound dressing hydrogel <u>H. Mutlu</u> , R. Çakır-Koç, Y. Budama-Kılınç Yıldız Technical U., İstanbul, TR
P-040	Polyelectrolyte microstructured scaffolds modified with hyaluronic acid <u>G. Manap</u> , B. Süyümbike-Yağcı, S. Çalamak, E.A. Aksoy, K. Ulubayram Hacettepe U., Ankara, TR
P-041	Effect of RGD peptide on wound healing potential of mouse fibroblasts E. Kahraman, E.A. Demirci, G. Onak, <u>O. Karaman</u> İzmir Katip Çelebi U., İzmir, TR
P-042	The effect of bFGF administration on the wound tissue NOx levels S. Erarslan, B. Balabanlı, <u>Ş. Coşkun-Cevher</u> Gazi U., Ankara, TR
P-043	Comparative evaluation of direct and fluid mediated cold atmospheric pressure plasma treatments on wound healing Z.G. Tanyolaç ¹ , E.A. Demirci ¹ , G. Onak ^{1,2} , <u>O. Karaman</u> ^{1,2} , U.K. Ercan ^{1,2} ¹ Ege U., İzmir, TR ² İzmir Katip Çelebi U., İzmir, TR

SCAFFOLDS FOR TISSUE ENGINEERING

PN	
P-044	In-vivo evaluation of decellularized bovine cardiac tissue as an injectable scaffold <u>H. Ercan</u> ¹ , A.E. Elçin ^{1,2} , Y.M. Elçin ^{1,3} ¹ Ankara University TEBNL (elcinlab.org), Ankara, TR ² Ankara University Stem Cell Institute, Ankara, TR ³ Biovalda Health Technologies, Inc., Ankara, TR
P-045	Cell adhesion potential on different decellularized tissue scaffolds <u>M. Sesli</u> , E. Akbay, M.A. Onur Hacettepe U., Ankara, TR
P-046	Potential application of PLLA:PBS sponges in neural tissue engineering <u>İ.A. Kanneci-Altınışık</u> ¹ , D. Yücel ^{2,4} , F.N. Kök ^{1,4} , G. Torun-Köse ^{3,4} ¹ İstanbul Technical U., İstanbul, TR ² Acibadem U., İstanbul, TR ³ Yeditepe U., İstanbul, TR ⁴ Middle East Technical U., Ankara, TR
P-047	Development of GelMA-pHEMA hydrogel blend for nerve tissue engineering applications <u>T. Dursun</u> ¹ , D. Yücel ^{1,2} , V. Hasırcı ¹ ¹ Middle East Technical U., Ankara, TR ² Acibadem U., İstanbul, TR

P-048	Bioinspired electromagnetic fields enhance neuronal differentiation <u>A. Özgün</u> , B. Garipcan Boğaziçi U., İstanbul, TR
P-049	Stimulation of neural differentiation in SH-SY5Y neuronal cell line by extremely low-frequency electromagnetic fields interacted with iron oxide nanoparticles H. Gürbüz, <u>A.A. Doğan</u> , A. Şendemir-Ürkmez Ege U., İzmir, TR
P-050	Coacervate usage in tissue engineering Ö. Karabıyık-Acar ¹ , <u>S. Bedir</u> ¹ , B. Kayıtmazer ² , G. Torun-Köse ¹ ¹ Yeditepe U., İstanbul, TR ² Boğaziçi U., İstanbul, TR
P-051	Pectin/fibroin scaffolds for tissue engineering applications S. Türkkkan, D. Atila, A. Akdağ, <u>A. Tezcaner</u> Middle East Technical U., Ankara, TR
P-052	Polymeric nanofibers for tissue engineering <u>G. Özgün-Eren</u> , Y. Budama-Kılınc, R. Çakır-Koç, K. Çiçek, M.T. Yılmaz Yıldız Technical U., İstanbul, TR

DEVELOPMENTS IN IMPLANTS AND MEDICAL DEVICES

PN	
P-053	Designing and performance of antibacterial polymeric brushed ureteral stents in-vivo <u>M. Gültekinöğlü</u> ¹ , B. Kürüm ² , D. Kart ¹ , E.A. Aksoy ¹ , S. Karahan ² , M. Sağıroğlu ¹ , A.H. Özen ¹ , K. Ulubayram ¹ ¹ Hacettepe U., Ankara, TR ² Kırıkkale U., Kırıkkale, TR
P-054	Amoxicillin releasing shape-memory hydrogel as a novel tissue expander S. Shahirdavarpanah, <u>G. Irmak</u> , T.T. Demirtaş, M. Gümüşderelioğlu Hacettepe U., Ankara, TR
P-055	Surface characteristic dependent ex situ and in vitro biocompatibility analysis of NiTi alloys <u>S.M. Toker</u> ¹ , B. Uzer ² , D. Canadinç ² ¹ Eskişehir Osmangazi U., Eskişehir, TR ² Koç U., İstanbul, TR
P-056	Development of electrospun nanofiber-based implants coated with different polymers for topical ocular therapy K.H. Polat, S. Çalamak, E. Aytekin, <u>S. Bozdağ-Pehlivan</u> , K. Ulubayram, S. Çalış Hacettepe U., Ankara, TR
P-057	In vivo evaluation of cyclosporin a loaded nano-decorated subconjunctival implants

	B. Yavuz, <u>S. Bozdağ-Pehlivan</u> , A. Kaffashi, S. Çalamak, K. Ulubayram, E. Palaska, H.B. Çakmak, N. Ünlü Hacettepe U., Ankara, TR
P-058	B-nHAp coated polyetheretherketone (PEEK) implants <u>Ü. Bozoğlu</u> , Ö.E. Tunçay, A. Kiremitçi, M. Gümüşderelioğlu Hacettepe U., Ankara, TR
P-059	Increased osteogenic activity of PEEK implants with surface roughness <u>T. Gültan</u> ^{1,2} , M. Çapkın-Yurtsever ^{1,3} , M. Gümüşderelioğlu ¹ ¹ Hacettepe U., Ankara, TR ² Atılım U., Ankara, TR ³ Adana Science and Technology U., Adana, TR
P-060	Osseointegrated amputation prosthesis <u>B. Ercan</u> Middle East Technical U., Ankara, TR
P-061	In Vitro Bioactivity of Ceramic Coatings on Magnesium Implant Materials by PEO <u>E.E. Şüküroğlu</u> , S. Şüküroğlu, E. Namlı, Y.Totik, A.Ö. Düzgün Gümüşhane U., Gümüşhane, TR
P-062	Structure and Wear Resistance of TiO2 Coating Fabricated on NiTi Implant Materials by MAO <u>E.E. Şüküroğlu</u> , S. Şüküroğlu, E. Namlı, Y.Totik Gümüşhane U., Gümüşhane, TR

DRUG DELIVERY AND NANOMEDICINE

PN	
P-063	Formulation development and evaluation of S-Adenosyl-L-methionine loaded solid lipid nanoparticles using different lipid carriers Ö. Erkan, G. Amasya, <u>Z. Sezgin-Bayındır</u> , N. Yüksel Ankara U., Ankara, TR
P-064	Preparation and optimization of S-adenosyl-L-methionine loaded pectin based nanoparticles for colon targeted delivery <u>A.D. Ergin</u> , Z. Sezgin-Bayındır, N. Yüksel Ankara U., Ankara, TR
P-065	Hyaluronic acid-polyethylenimine delivery system for gene silencing <u>B. Çağdaş-Tunalı</u> ^{1,2} , E. Çelik ² , M. Türk ¹ ¹ Kırıkkale U., Kırıkkale, TR ² Hacettepe U., Ankara, TR
P-066	Design and characterization of cationic microbubbles for siRNA transfer <u>E.C. Köken</u> ¹ , Ine Lentacker ² ¹ Adnan Menderes U., Aydın, TR ² Ghent U., Ghent, BE

P-067	<p>Determination of lymphocyte sub-groups with flow cytometry after oral administration of ritonavir nanosuspensions</p> <p><u>A. Karaküçük</u>¹, H. Canpınar², N. Çelebi¹</p> <p>¹Gazi U., Ankara, TR ²Hacettepe U., Ankara, TR</p>
P-068	<p>Effect of chondroitin sulfate concentration on the chitosan-based nanoparticles for protein delivery</p> <p><u>B. Devrim</u>, B. Arpaç, A. Bozkır</p> <p>Ankara U., Ankara, TR</p>
P-069	<p>Development of HPLC method for thymoquinone quantification and preliminary investigation on nanoparticle production</p> <p><u>S.F. Konca</u>^{1,2}, U.C. Öz¹, A. Bozkır¹</p> <p>¹Ankara U., Ankara, TR ²Erciyes U., Kayseri, TR</p>
P-070	<p>Preparation, characterization and self-assembly of solid lipid nanoparticles for drug delivery</p> <p><u>G.D. Kalaycıoğlu</u>, Nihal Aydoğan</p> <p>Hacettepe University, Ankara, TR</p>
P-071	<p>Comparison studies on peptide-18 conjugated liposomes</p> <p><u>O.M. Saka</u>¹, U.C. Öz¹, S. Gülyüz², Ö. Yılmaz², A. Bozkır¹</p> <p>¹Ankara U., Ankara, TR ²Tubitak MRC, Kocaeli, TR</p>
P-072	<p>Development and in vitro evaluation of topical nanoemulsions for hypopigmentation disorders</p> <p><u>B. Özkan</u>¹, Y. Budama-Kılınç¹, R. Çakır-Koç¹, E. Altuntaş²</p> <p>¹Yıldız Technical U., İstanbul, TR ²İstanbul U., İstanbul, TR</p>
P-073	<p>Synthesis of organic-inorganic hybrid nanostructures from amphipathic amino acids and their antimicrobial properties</p> <p>Ç. Çelik, D. Taşdemir, <u>İ. Öçsoy</u></p> <p>Erciyes U., Kayseri, TR</p>
P-074	<p>Aggregation of DNA aptamer conjugated magnetic graphene oxide and methicillin-resistant staphylococcus aureus cells for rapid and effective photothermal destruction</p> <p><u>M. Arslan-Öçsoy</u>, R. Köse, A. Ülgen, İ. Öçsoy</p> <p>Erciyes U., Kayseri, TR</p>
P-075	<p>Design, synthesis and characterization of functional copolymer-silane modified halloysite nanotubes</p> <p><u>G.Üner</u>, B. Uysaler, H. Kaplan-Can</p> <p>Hacettepe U., Ankara, TR</p>
P-076	<p>Ellipsoidal hybrid nanocarriers for triggered delivery</p> <p><u>Z. Çimen</u>, G. Birlik-Demirel</p> <p>Gazi U., Ankara, TR</p>
P-077	<p>pH-sensitive polymeric surfaces for drug delivery</p>

	<u>N. Dükar</u> , F. Kuralay Ordu U., Ordu, TR
P-078	Influence of crosslinker type on interactions with different drug and biomolecules of biocompatible PHEMA hydrogels <u>S. Ekici</u> , M. Çetik-Erkol Çanakkale Onsekiz Mart U., Çanakkale, TR
P-079	Tenoxicam loaded PLGA microparticles and chitosan thermogel combination system for intra-articular injection <u>C. Hasçıçek</u> ¹ , B.S. Sunar ² ¹ Ankara U., Ankara, TR ² Karadeniz Technical U., Trabzon, TR
P-080	A comparative study on the magnetic polymer nanocomposites for drug delivery systems <u>C. Atila-Dinçer</u> , N. Yıldız Ankara U., Ankara, TR
P-081	Development and in vitro characterization of levodopa and glutathione co-loaded liposomal formulations Z. Gürtürk ¹ , A. Tezcaner ¹ , A.D. Dalgıç ¹ , S. Korkmaz ² , <u>D. Keskin</u> ¹ ¹ Middle East Technical U., Ankara, TR ² Ali Raif Pharmaceutical Corporation, İstanbul, TR
P-082	Effects of a mometasone furoate containing temperature sensitive in situ gel on a rat allergic rhinitis model <u>E. Altuntaş</u> ¹ , G. Yener ¹ , R. Doğan ² , F. Aksoy ² ¹ İstanbul U., İstanbul, TR ² Bezmialem Vakıf U., İstanbul, TR
P-083	Formulation and evaluation of thermoreversible in situ nasal gels containing mometasone furoate for allergic rhinitis <u>E. Altuntaş</u> , G. Yener İstanbul U., İstanbul, TR
P-084	Improved drug localization in the skin via topical nano-micellar carriers <u>E. Kahraman</u> , N. Neşetoğlu, E. Öztaş, G. Özhan, D.Ş. Ünal, S. Güngör, Y. Özsoy İstanbul U., İstanbul, TR
P-085	Fabrication and characterization of nano-micelles for topical ocular therapy M.E Durgun, <u>E. Kahraman</u> , S. Güngör, Y. Özsoy İstanbul U., İstanbul, TR
P-086	Characterization and efficacy of inhalable nanocomposite microparticles loaded ciprofloxacin hydrochloride <u>G.R. Çamca-Topal</u> , B. Devrim, M. Eryılmaz, A. Bozkır Ankara U., Ankara, TR
P-087	Penetration of nanostructured lipid carriers through pulmonary mucus layer <u>G. Alp</u> , N. Aydoğan Hacettepe U., Ankara, TR
P-088	Investigation on the interactions of drug molecules with the pulmonary surfactant M. Gökdemir, <u>G. Alp</u> , N. Aydoğan

	Hacettepe U., Ankara, TR
P-089	The effect of negatively charged phospholipid on liposome behavior <u>A. Kılıç</u> , Enes Güney, F.N. Kök İstanbul Technical U., İstanbul, TR
P-090	Photocrosslinked styrene-butadiene-styrene-polyethylene glycol (SBS-PEG) hybrid gels for sustained drug release <u>D. Aydın</u> ¹ , S. Kızılel ¹ ¹ Koç U., İstanbul, TR
P-091	Characterization of natamycin containing alginate biofilms G. Sarıtaş, Ö.F. Çelik, B.G. Mazı, <u>H. Türe</u> Ordu U., Ordu, TR

NANOMEDICINE AND CANCER

PN	
P-092	Antiproliferative effect of cisplatin loaded PHB coated magnetic nanoparticles on SKBR-3, MCF-7, MDA-MB-231 breast cancer cell lines <u>S. Yalçın-Azarkan</u> ¹ , Ufuk Gündüz ² ¹ Ahi Evran U., Kırşehir, TR ² Middle East Technical U., Ankara, TR
P-093	Regulation of MRP1 gene expression by etoposide-loaded PHB coated magnetic nanoparticles in etoposide resistance MCF-7 cells <u>S. Yalçın-Azarkan</u> ¹ , Ufuk Gündüz ² ¹ Ahi Evran U., Kırşehir, TR ² Middle East Technical U., Ankara, TR
P-094	Co-delivery of pemetrexed and miR-21 antisense oligonucleotide by cationic solid lipid nanoparticles and effects on glioblastoma cells <u>B. Küçüktürkmen</u> , A. Bozkır Ankara U., Ankara, TR
P-095	Investigating the effect of yttrium oxide nanoparticle in U87MG glioma and PC3 prostate cancer cells on apoptosis, necrosis and cytochrome p450 metabolism with molecular approaches <u>E. Aydın</u> , Ö. Özdemir, H. Türkez, A. Yazıcı Erzurum Technical U., Erzurum, TR
P-096	The effects of crystalline form boron trioxide (α-B₂O₃) over colon cancer cells: in vitro studies O. Albuz ¹ , <u>B. Çağdaş-Tunalı</u> ² , M. Türk ² ¹ Beytepe Murat Erdi Eker United Hospital, Ankara, TR ² Kırıkkale U., Kırıkkale, TR
P-097	Treatment of tumor spheroids with graphene oxide <u>C. Gürçan</u> ¹ , H. Taheri ¹ , Irene De Lazaro ² , Kostas Kostarelos ² , Açelya Yılmaz ¹ ¹ Ankara U., Ankara, TR ² Manchester U., Manchester, UK

P-098	Anti-cancerogen effect of polycaprolacton GHK encapsulated nanoparticles in vitro <u>B. Aslan</u> , Y. Budama-Kılınç, R. Çakır-Koç Yıldız Technical U., İstanbul, TR
P-099	Nitrobenzyl p-tert-butylcalix[4]aren nanofiber studies in primary breast cancer cells <u>G. Koygun</u> , S. Saeed-Ali, S. Demircan, Ş. Ertul, F. Özcan Selçuk U., Konya, TR
P-100	Use of p-tert-butylcalix[4]arene nanofibers with the amino group in the MCF-7 breast cancer therapy <u>S. Demircan</u> , M.F. Ahmed, G. Koygun, Ş. Ertul, F. Özcan Selçuk U., Konya, TR
P-101	Use of functionalized p-tert-butylcalix[4]arene nanofibers in MCF-7 cancer therapy <u>F. Özcan</u> , G. Koygun, M.F. Ahmed, S. Saeed-Ali, S. Demircan, Ş. Ertul Selçuk U., Konya, TR

NANOTOXICITY

PN	
P-102	Investigation of cytotoxicity of polyacrylonitrile nanoparticles E. Babaarslan ¹ , <u>C.A. Dinçer</u> ² , A. Karakeçili ² , N. Yıldız ² ¹ Turkish Ministry of Labor and Social Security, OHSI, Ankara, TR ² Ankara U., Ankara, TR
P-103	Cytotoxicity of poly(vinyl alcohol)-poly(acrylic acid)-hydroxyapatite nanocomposite hydrogel films E. Tamahkar-Irmak ¹ , <u>B. Yılmaz</u> ² , M.E. Diken ² , S. Doğan ² ¹ Hitit U., Çorum, TR ² Balıkesir U., Balıkesir, TR
P-104	Cytotoxicity of long-term denture materials M. Çakırbay-Tanış ¹ , C. Akay ² , <u>H. Sevim</u> ³ ¹ Ministry of Health Karapürçek Oral and Dental Health Center, Ankara, TR ² Eskişehir Osman Gazi U., Eskişehir, TR ³ Hacettepe U., Ankara, TR
P-105	Evaluation of cytotoxicity effect of boron modified bioactive glass nanoparticles on human dental pulp stem cells <u>R.M. Rad</u> ¹ , A.Z. Alshemary ¹ , D. Keskin ¹ , Z. Evis ¹ , S. Şahin ² , A. Tezcaner ¹ ¹ Middle East Technical U., Ankara, TR ² Topraklık Mouth and Teeth Health Center, Ankara, TR
P-106	Antibacterial activity of ciprofloxacin loaded chitosan microparticles against <i>E. coli</i> and <i>P. aeruginosa</i> and their cytotoxic effect on human lung epithelial cells V. Özaslan, H. Uzuner, A. Karadenizli, <u>C. Yılmaz-Özdoğan</u> , H. Kenar Kocaeli U., Kocaeli, TR

P-107	<p>Molecular genetic responses in primary human airway epithelial, liver hepatocytes and peripheral blood cell cultures exposed to iron-zinc oxide based nanoparticles in vitro</p> <p><u>E. Aydın</u>¹, E. Sönmez², E. Öztetik³, H. Türkez¹, M.E. Arslan¹</p> <p>¹Erzurum Technical U., Erzurum, TR ²Atatürk U., Erzurum, TR ³Anadolu U., Eskişehir, TR</p>
P-108	<p>Enhanced preferential cytotoxicity through surface modification and comparative in vitro evaluation of water soluble supramolecular calixarene</p> <p><u>P. Uyar-Arpaç</u>, M. Ağaç, F. Özcan, Ş. Ertul</p> <p>Selçuk U., Konya, TR</p>

STEM CELLS AND REGENERATIVE MEDICINE

PN	
P-184	<p>Isolation and Culture of Good Manufacturing Practice Grade Human Bone Marrow-Derived Mesenchymal Stem Cells for Clinical Applications</p> <p><u>A. Eser Elçin</u>^{1,2}, Ş. Şeker^{1,2}, P. Baydın¹, K. Dalva¹, M. Parmaksız^{1,2}, Ö. Lalegül^{1,2}, G. Ç.-Deniz¹, E. Atilla³, G. Gürman^{1,3}, Ö. Arslan³ and Y.M. Elçin^{1,2,4}</p> <p>¹Ankara University Stem Cell Institute, Ankara, TR ²Ankara University TEBNL (elcinlab.org), Ankara, TR ³Ankara University Faculty of Medicine ⁴Biovalda Health Technologies, Inc., Ankara, TR</p>
P-109	<p>Gene expression profiles of osteogenic differentiation of human adipose derived mesenchymal stem cells under the influence of cancellous bone chips soluble molecules</p> <p><u>A. Atasoy</u>¹, T. Beyzadeoglu², A. Ivkovic³, C. Evans⁴, G. Torun-Köse¹</p> <p>¹Yeditepe U., İstanbul, TR ²Haliç U., İstanbul, TR ³Rijeka U., Rijeka, HR ⁴Harvard Medical School, Boston, USA</p>
P-110	<p>Determination of the stability of standard reference genes of mesenchymal stem cells during in-vitro expansion and differentiation</p> <p><u>F.B. Ayanoglu</u>^{1,2}, Y.M. Elçin^{1,3}, A.E. Elçin^{1,2}</p> <p>¹Ankara University TEBNL (elcinlab.org), Ankara, TR ²Ankara University Stem Cell Institute, Ankara, TR ³Biovalda Health Technologies, Inc., Ankara, TR</p>
P-111	<p>Evaluating osteogenic induction of adipose tissue-derived mesenchymal stem cells on fibrin glue or fibronectin-coated Ceraform®</p> <p><u>A. Kılıç-Süloğlu</u>¹, E. Karacaoğlu¹, E.A. Koçkaya², G. Selmanoğlu¹</p> <p>¹Hacettepe U., Ankara, TR ²Gazi U., Ankara, TR</p>
P-112	<p>A scanning electron microscope examination of osteogenic and adhesive potentials of adipose-derived stem cells on Ceraform®</p>

	<p><u>E. Karacaoglu</u>¹, A.K. Süloğlu¹, E.A. Koçkaya^{1,2}, G. Selmanoğlu¹</p> <p>¹Hacettepe U., Ankara, TR ²Gazi U., Ankara, TR</p>
P-113	<p>Chondrogenic potential of genetically engineered rat bone marrow-derived mesenchymal stem cells</p> <p><u>A.C. Çalikoğlu-Koyuncu</u>^{1,2}, A.H. Nayman¹, D. Telci¹, G. Torun-Köse^{1,2}</p> <p>¹Yeditepe U., İstanbul, TR ²Middle East Technical U., Ankara, TR</p>
P-114	<p>Cardiomyocyte differentiation of human adipose-derived mesenchymal stem cells on silk fibroin scaffolds</p> <p>M.G. Şahin¹, <u>F.N. Kök</u>¹, Y. Çetin²</p> <p>¹İstanbul Technical U., İstanbul, TR ²Tubitak MRC, Kocaeli, TR</p>
P-115	<p>Influence of surface engineered substrates on the cardiac differentiation of murine induced pluripotent stem cells</p> <p>M.Ö. Öztürk-Öncel¹, C.O. Heras-Bautista², L. Uzun³, K. Pfannkuche², <u>B. Garipcan</u>¹</p> <p>¹Boğaziçi U., İstanbul, TR ²Cologne U., Köln, DE ³Hacettepe U., Ankara, TR</p>
P-116	<p>Cellular alignment enhance the mechanical properties of ASC laden fibrin microfibers</p> <p><u>E. Ergene</u>^{1,2}, E. Malikmammadov², P. Yılgör-Huri^{1,2}, V. Hasırcı¹</p> <p>¹Ankara U., Ankara, TR ²Middle East Technical U., Ankara, TR</p>
P-117	<p>Investigation of the effects of mesenchymal stem cells on the contractile force of the carotid artery in a rat aneurysm model</p> <p>Ö. Atalay, <u>Ö.A. Gürpınar</u>, H. Sevim, M.A. Onur</p> <p>Hacettepe U., Ankara, TR</p>
P-118	<p>Dental pulp stem cells differentiation by endogenous release of VEGF and BMP-2</p> <p><u>Ş. Öztürk</u>, H. Aksel, E.E. Aslantaş, K. Ulubayram</p> <p>Hacettepe U., Ankara, TR</p>
P-119	<p>The effect of cellular reprogramming on the tumorigenicity of melanoma cells</p> <p><u>H. Taheri</u>, A. Yılmaz</p> <p>Ankara U., Ankara, TR</p>
P-120	<p>Promoting local immunosuppression for graft tolerance</p> <p><u>D.C. Oran</u>, T. Lokumcu, Ö. Albayrak, T. Bal, T. Bağcı-Önder, M. Erkan, F. Can, S. Kızılel</p> <p>Koç U., İstanbul, TR</p>
P-121	<p>siRNA Based High-Throughput Screen Reveals the Signaling Proteome of Topography Mediated Early Osteogenesis</p> <p><u>T. Özdemir</u>¹, J.L. Brown²</p> <p>¹Gaziosmanpaşa U., Tokat, TR ²Pennsylvania State U., Pennsylvania, USA</p>

IN-VITRO MICROTISSUE MODELS

PN	
P-122	<p>Comparison of microtissue forming capacity of differentiated and non-differentiated PC12 neuron-like cells</p> <p><u>A.A. Doğan</u>, Ş. Taşdemir, C. Görgün, A. Şendemir-Ürkmez Ege U., İzmir, TR</p>
P-123	<p>Neurodegenerative disease modeling in 3D microfluidic system</p> <p><u>O.B. Akbulud</u>, H. Yanık, A.K. Baş, S. Güven Dokuz Eylül U., İzmir, TR</p>
P-124	<p>Generation of bone-cartilage interface in microfluidic system</p> <p><u>H. Yanık</u>, O.B. Akbulud, A.K. Baş, S. Güven Dokuz Eylül U., İzmir, TR</p>
P-125	<p>Assessment of high aspect ratio micropillar array displacement at different viscosities</p> <p><u>A. Eser</u>¹, A. Erten², A. Mustafa¹, Ö. Yalçın¹ ¹Koç U., İstanbul, TR ²Osmaniye Korkut Ata U., Osmaniye, TR</p>
P-126	<p>Effect of serum concentration on 3D microtissue formation via human umbilical vein endothelial cells (HUVEC)</p> <p><u>Z.B. Yaralı</u>, O. Karaman İzmir Katip Çelebi U., İzmir, TR</p>
P-127	<p>VEGF/BMP-2 loaded engineered tooth model enhancing angiogenic and odontogenic differentiation of human dental pulp stem cells</p> <p>H. Aksel, <u>Ş. Öztürk</u>, A. Serper, K. Ulubayram Hacettepe U., Ankara, TR</p>
P-128	<p>Decellularized adipose tissue in-vitro model for cancer cell growth and treatment</p> <p><u>E. Akbay</u>, M. Sesli, M.A. Onur Hacettepe U., Ankara, TR</p>
P-129	<p>Comparison of collagen and bacterial cellulose membranes for 3D culture on implantation models</p> <p>R. Kendirci¹, A. Şendemir-Ürkmez², E. Hameş², <u>H.S. Vatansever</u>^{1,3} ¹Manisa Celal Bayar U., Manisa, TR ²Ege U., İzmir, TR ³Near East U., Nicosia, TRNC</p>

BIOSENSORS

PN	
P-130	<p>New biosensing platform using biomimetic cell membranes on electrospun conductive nanofiber mats</p> <p>Ş. Seherler, Z.G. Gökçe, <u>F.N. Kök</u>, A.S. Saraç İstanbul Technical U., İstanbul, TR</p>

P-131	<p>QCM-D as a biosensing platform to evaluate cell – surface interactions of model cancerous and healthy cells</p> <p><u>A. Kılıç</u>, Ş. Üstünel, F.N. Kök İstanbul Technical U., İstanbul, TR</p>
P-132	<p>Development of molecularly imprinted surface plasmon resonance sensor for albumin detection</p> <p><u>Y. Saylan</u>¹, I. Göktürk¹, S. Akgönüllü¹, F. Yılmaz², A. Derazshamshir¹, A. Denizli¹ ¹Hacettepe U., Ankara, TR ²Abant İzzet Baysal U., Bolu, TR</p>
P-133	<p>Optimization studies of antibody coating on gold surfaces</p> <p><u>G. Ünsoy</u>, U. Gündüz Middle East Technical U., Ankara, TR</p>
P-134	<p>Site-directed antibody coating of gold surfaces</p> <p><u>G. Ünsoy</u>, U. Gündüz Middle East Technical U., Ankara, TR</p>
P-135	<p>Microwave hydrothermal synthesis of cyclodextrin- functionalized upconverting nanoparticles for host–guest based sensing</p> <p><u>T. Tecim</u>, R. Genç Mersin U., Mersin, TR</p>
P-136	<p>Synthesis and characterization of fluorescent carbon nanoparticles in deep eutectic solvents</p> <p>S.D. Çalhan, <u>M. Aşık</u>, F.N. Dinçer-Kaya, R. Genç Mersin U., Mersin, TR</p>
P-137	<p>DNA-anticancer drug interaction with polypyrrole/graphene nanocomposite coated electrode</p> <p><u>D.Y. Bayramlı</u>^{1,2}, F. Kuralay¹ ¹Ordu U., Ordu, TR ²Giresun U., Giresun, TR</p>
P-138	<p>Preparation of graphene/poly(glycine) composite modified graphite surfaces and their applications for acetaminophen detection</p> <p><u>N. Dükar</u>, F. Kuralay Ordu U., Ordu, TR</p>
P-139	<p>Electrochemical polymerization of L-lysine for biosensing applications</p> <p><u>D.Y. Bayramlı</u>^{1,2}, F. Kuralay¹ ¹Ordu U., Ordu, TR ²Giresun U., Giresun, TR</p>
P-140	<p>Development of biocompatible graphene platform for biomedical applications</p> <p><u>E. Demirel</u>, Y.Y. Durmaz İstanbul Medipol U., İstanbul, TR</p>
P-141	<p>Specific bioaffinity of hashimoto’s thyroiditis antibodies conjugated ferritin nanocages</p> <p><u>H. Tümtürk</u>¹, E. Turan¹, F. Şahin² ¹Gazi U., Ankara, TR ²Turkish Ministry of Health, TMMDA, Ankara, TR</p>

P-142	Conjugation of latex nanoparticles with toxoplasma gondii-specific IgY antibodies for diagnostic aim E. Üstün, R.Ç. Koç, Y. Budama-Kılınc Yıldız Technical U., İstanbul, TR
P-143	A disposable voltammetric aptasensor based on sandwich assay for pesticide detection G. Aydoğdu-Tığ ¹ , M.B. Koçer ² , G. Günendi ¹ , Ş. Pekyardımcı ¹ ¹ Ankara U., Ankara, TR ² Selçuk U., Konya, TR
P-144	Determination of glucose using CuO NPs-based biosensor in ionic samples H. Nadaroğlu, A. Alaylı-Güngör Atatürk U., Erzurum, TR
P-145	Biosensor based on ZnO NPs as a biomimetic enzyme for in situ detection of H₂O₂ released from food samples E. Taşğın, A. Alaylı-Güngör, H. Nadaroğlu Atatürk U., Erzurum, TR
P-146	Determination of glucose by peroxidase mimic iron oxide nanoparticles N. Kışhalı, H. Nadaroğlu, A. Alaylı-Güngör, D. Demirci-Gültekin Atatürk U., Erzurum, TR
P-147	Detection of hydrogen peroxide with nano iron synthesized by cimin grape extract N. Kışhalı, A. Alaylı-Güngör, H. Nadaroğlu, T. Öznülüer Atatürk U., Erzurum, TR

ENZYME IMMOBILIZATION, BIOACTIVE MOLECULES AND PRODUCTS

PN	
P-148	Kinetic parameters of the AChE enzyme immobilized on new supports with ortho- and para- fluorine substitution N. Kurnaz-Yetim ^{1,2} , E. Hasanoğlu-Özkan ¹ , A. Dişli ¹ , N. Sarı ¹ ¹ Gazi U., Ankara, TR ² Kırklareli U., Kırklareli, TR
P-149	Attachment of GOx to -H, -F, -Cl, -Br substituted spheres, determination of glucose concentration using trinder method E. Hasanoğlu-Özkan ¹ , N. Kurnaz-Yetim ^{1,2} , N. Sarı ¹ ¹ Gazi U., Ankara, TR

	² Kırklareli U., Kırklareli, TR
P-150	Immobilization of lipase enzyme on nanosized materials and investigation of the enzymatic activity <u>G. Coşkun</u> , Z. Çıplak, N. Yıldız, Ü. Mehmetoğlu Ankara U., Ankara, TR
P-151	Obtaining of laccase enzyme from weicella viridescens LB37 bacteria and it's immobilization onto magnetic chitosan nanoparticules <u>H. Nadaroğlu</u> , G. Mosber, A. Adıgüzel Atatürk U., Erzurum, TR
P-152	Purification of the enzyme laccase from pseudomonas frageri bacteria, immobilization to magnetic florisil NPs and determination of its usability <u>E. Taşğın</u> , H. Nadaroğlu, S.S. Soleimani, N. Dikbaş Atatürk U., Erzurum, TR
P-153	Peroxidase immobilization on pumice <u>M.E. Diken</u> , P. Turan-Beyli, S. Doğan, M. Doğan Balıkesir U., Balıkesir, TR
P-154	Role of Pd(II) attached-dendron in reduction of glucose as catalytic <u>E. Hasanoğlu-Özkan</u> , N. Sarı Gazi U., Ankara, TR
P-155	Phosmet control by means of acetylcholinesterase immobilized <u>E. Hasanoğlu-Özkan</u> ¹ , N. Kurnaz-Yetim ^{1,2} , N. Sarı ¹ , A. Dişli ¹ ¹ Gazi U., Ankara, TR ² Kırklareli U., Kırklareli, TR
P-156	The effect of rhizopus oryzae growth parameters to the biocatalytic deracemization of racemic propranolol <u>R. Songür</u> , Ü. Mehmetoğlu Ankara U., Ankara, TR
P-157	Purification and characterization of protease enzyme from bacillus megaterium <u>E. Çınar-Avar</u> , M. İşmarcı, E. Loğoğlu Gazi U., Ankara, TR
P-158	Purification and characterization of protease enzyme from <i>Bacillus subtilis</i> (RSKK-11014) <u>E. Çınar-Avar</u> , S. Özden-İşler, E. Loğoğlu Gazi U., Ankara, TR
P-159	Comparison of serum paraoxonase1 (PON1) activities among different cattle races and ages M. Demir, M. Arslan, <u>A. Ergün</u> Balıkesir U., Balıkesir, TR
P-160	In vitro effects of some pesticides on polyphenol oxidase enzyme activity <u>A. Ergün</u> , N. Gençer, O. Arslan Balıkesir U., Balıkesir, TR
P-161	The effect of tragopogon dshimilensis on the collagen levels of wound tissue in diabetic rats

	<u>K. Kaltalıoğlu</u> ¹ , B. Balabanlı ² , S. Coşkun-Cevher ² ¹ Giresun U., Giresun, TR ² Gazi U., Ankara, TR
P-162	The effect of <i>Potentilla erecta</i> on wound contraction in diabetic rats <u>K. Kaltalıoğlu</u> ¹ , B. Balabanlı ² , S. Coşkun-Cevher ² Giresun U., Giresun, TR Gazi U., Ankara, TR
P-163	Synthesis of 3-Cyano-N-pyridinyl acetamide derivatives and investigation of their antimicrobial effects A. Altundaş, E. Loğoğlu, B. Balabanlı, <u>Ş. Coşkun-Cevher</u> Gazi U., Ankara, TR
P-164	Green synthesis of magnetic ZnO nanoparticles using peroxidase enzyme from euphorbia (<i>euphorbia amygdaloides</i>) and investigation of it's antimicrobial activity <u>A. Babagil</u> , H. Nadaroğlu, A. Alaylı-Güngör Atatürk U., Erzurum, TR
P-165	Green synthesis of magnetic Fe₃O₄ nanoparticles and investigation of it's antimicrobial activity <u>A. Babagil</u> , A. Alaylı-Güngör, H. Nadaroğlu Atatürk U., Erzurum, TR
P-166	Antibacterial effect of coconut oil encapsulated chitosan nanoparticles <u>Z. Kaya</u> ¹ , R. Çakır-Koç ¹ , Y. Budama-Kılınç ¹ , B. Berber ² , E. Uçarkuş ² ¹ Yıldız Technical U., İstanbul, TR ² Nanomik Nanobiotechnology Co., İstanbul, TR

COMPUTATIONAL MODELS

PN	
P-167	Patient-specific image based computational fluid dynamics modelling in cardiovascular disease <u>G.N. Oğuz</u> , Ş. Pişkin, K. Pekkan Koç U., İstanbul, TR
P-168	An Ab initio investigation of the amidine formed by tacrine and saccharin N. Acar ¹ , <u>C. Selçuki</u> ¹ , E. Coşkun ² ¹ Ege U., İzmir, TR ² Ondokuz Mayıs U., Samsun, TR
P-169	Investigation of interactions between mefenamic acid and acesulfame by computational methods <u>N. Acar</u> ¹ , E. Coşkun ² ¹ Ege U., İzmir, TR ² Ondokuz Mayıs U., Samsun, TR
P-170	Investigation of interactions between mefenamic acid and saccharin by computational methods

	<u>N. Acar</u> ¹ , E. Coşkun ² ¹ Ege U., İzmir, TR ² Ondokuz Mayıs U., Samsun, TR
P-171	A computational study for lysine-isatin Schiff base formation mechanism <u>G. Ürgenç-Türkay</u> , C. Selçuki Ege U., İzmir, TR

BIOPHYSICS: PDT, RADIATION, METHODS

PN	
P-172	The efficiency of methylene blue mediated-sonophotodynamic therapy on prostate cancer cell lines <u>M. Aksel</u> , M.D. Bilgin, Ö. Bozkurt-Girit, M. Telli, E.H. Değirmenci, A. Özmen Adnan Menderes U., Aydın, TR
P-173	Effects of combined sonodynamic and photodynamic therapies with titanium dioxide on cancer cell lines <u>M. Aksel</u> ¹ , Ö. Kesmez ² , A. Yavaş ¹ , M.D. Bilgin ¹ ¹ Adnan Menderes U., Aydın, TR ² Akdeniz U., Antalya, TR
P-174	Ischemia-reperfusion effects on <i>DUSP1</i> and <i>CXCL2</i> gene expression in rat kidney tissues <u>Ş.H. Tekarslan-Şahin</u> ^{1,2} ¹ İstanbul Technical U., İstanbul, TR ² İstanbul U., İstanbul, TR
P-175	Botulinum toxin type a causes muscle extracellular matrix adaptations leading to inferior biomechanical effects <u>C.S. Kaya</u> , F. Ateş, C.A. Yücesoy Boğaziçi U., İstanbul, TR
P-176	Effect of 900 MHz radiofrequency radiation emitted from mobile phones on space between brain cells (a preliminary electron microscopical study) S. Daşdağ ¹ , <u>M.Z. Akdağ</u> ² , V. Akpolat ² and E. Devenci ² ¹ İstanbul Medeniyet U., İstanbul, TR ² Dicle U., Diyarbakır, TR
P-177	Effect of 900 MHz radiofrequency radiation on mandibular fracture healing: an experimental rabbit study M. Durgun ¹ , <u>S. Daşdağ</u> ² , S. Durgun ¹ , M.Z. Akdağ ³ ¹ Atatürk Education and Research Hospital, İzmir, TR ² İstanbul Medeniyet U., İstanbul, TR ³ Dicle U., Diyarbakır, TR
P-178	Do long term and excessive exposure of 900 MHz radiofrequency radiation emitted from mobile phones alter MicroRNAs expression in brain? S. Daşdağ ¹ , M.Z. Akdağ ² , M.E. Erdal ³ , <u>M.T. Kızıltuğ</u> ³ , B. Taşdelen ³ , N. Erdal ³ ¹ İstanbul Medeniyet U., İstanbul, TR ² Dicle U., Diyarbakır, TR ³ Mersin U., Mersin, TR

P-179	Ca²⁺ electroporation in chronic-B lymphocytic leukaemia (MEC-1) cells <u>A. Coşkun</u> , M.A. Esmekaya, H. Kayhan, M. Yağcı, A.G. Canseven Gazi U., Ankara, TR
P-180	The estimation of pore of size distribution on electroporated cell membrane M.A. Esmekaya, <u>A. Coşkun</u> , A.G. Canseven Gazi U., Ankara, TR
P-181	Simple structural characterization method for (maleic anhydride-co-vinyl acetate)/doxorubicin conjugate <u>G. Karakuş</u> ¹ , G.P. Coşkun Cumhuriyet U., Sivas, TR
P-182	Validation of HPLC analytical method for determination of netilmicin sulfate M. Arıcı, <u>A. Yurdasiper-Erdem</u> , M. Özyazıcı Ege U., İzmir, TR
P-183	Validation of HPLC analytical method for determination of triamcinolone acetone M. Arıcı, <u>A. Yurdasiper-Erdem</u> , M. Özyazıcı Ege U., İzmir, TR