

# Prof. MURAT DEMİRBILEK

## Personal Information

**Office Phone:** [+90 312 546 1341](tel:+903125461341)

**Email:** [murat.demirbilek@hbv.edu.tr](mailto:murat.demirbilek@hbv.edu.tr)

**Web:** <https://avesis.hacibayram.edu.tr/murat.demirbilek>

## International Researcher IDs

ORCID: 0000-0001-6990-5607

Yoksis Researcher ID: 120688

## Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp (Dr), Turkey 2008 - 2011

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Ankara University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1992 - 1996

## Dissertations

Doctorate, Sinir doku onarımı için polimerik nanofiber doku iskeleleri, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp (Dr), 2011

Postgraduate, Cu(II)/1,4,8,11-tetra-azasiklotetradekan ('xx'xxcyclam'xx'xx) ve Cu(II)-cyclam/poliakrilik asit kompleksinin tümör hücreleri (HeLa) üzerine etkilerinin araştırılması, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), 2004

## Research Areas

Tissue Engineering

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Dye decolorization of magnetically retrievable formulation of laccase with amine-functionalized microparticles**  
KORKMAZ F., NURAL YAMAN B., Gedikli S., AYTAR ÇELİK P., Demirbilek M., ÇABUK A.  
Journal of Microbiological Methods, vol.211, 2023 (SCI-Expanded)
- II. **The effect of alginate scaffolds on bone healing in defects formed with drilling model in rat femur diaphysis**  
Arslan A. K., Aydoğdu A., Tolunay T., Basat Ç., Bircan R., Demirbilek M.  
Journal of Biomedical Materials Research - Part B Applied Biomaterials, vol.111, no.6, pp.1299-1308, 2023 (SCI-Expanded)
- III. **GO containing PHBHX bone scaffold: GO concentration and in vitro osteointegration**  
Arslan A. K., Çelik E., Alkan F., Demirbilek M.  
Polymer Bulletin, vol.79, no.8, pp.5939-5954, 2022 (SCI-Expanded)
- IV. **In vitro comparison of nanofibrillar and macroporous-spongy composite tissue scaffolds for periodontal tissue engineering**

Şahbazoğlu K. B., Demirbilek M., Bayarı S. H., BÜBER E., Toklucu S., Türk M., KARABULUT E., AKALIN F. A. *Connective Tissue Research*, vol.63, no.2, pp.183-197, 2022 (SCI-Expanded)

- V. **Manipulating cell behavior on a bacterial macro-polymer poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) via tuning the S-doped graphene ratio**  
Yıldırım M. A., Demirbilek M., GÜRSU H., ŞAHİN Y., TÜRKOĞLU N.  
*International Journal of Biological Macromolecules*, vol.182, pp.2076-2086, 2021 (SCI-Expanded)
- VI. **Evaluation of paraffin wax and poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) blend patch for tissue engineering**  
Yıldırım M. A., Demirbilek M., TÜRKOĞLU N.  
*Materials Technology*, vol.36, no.2, pp.105-117, 2021 (SCI-Expanded)
- VII. **A Cationic Stearamide-based Solid Lipid Nanoparticle for Delivering Yamanaka Factors: Evaluation of the Transfection Efficiency**  
Alkan F., Varlı H. S., Demirbilek M., Kaplan E., Laçın N. T.  
*ChemistryOpen*, vol.9, no.11, pp.1181-1189, 2020 (SCI-Expanded)
- VIII. **Dual delivery of platelet-derived growth factor and bone morphogenetic factor-6 on titanium surface to enhance the early period of implant osseointegration**  
KEÇELİ H. G., BAYRAM C., Çelik E., Ercan N., Demirbilek M., NOHUTCU R. M.  
*Journal of Periodontal Research*, vol.55, no.5, pp.694-704, 2020 (SCI-Expanded)
- IX. **Development of an Anti-Inflammatory Drug-Incorporated Biomimetic Scaffold for Corneal Tissue Engineering**  
Kayıran Çelebi S., Bozdağ Pehlivan S., Demirbilek M., Akıncı M., VURAL İ., Akdağ Y., Yürüker S., Ünlü N.  
*Journal of Ocular Pharmacology and Therapeutics*, vol.36, no.6, pp.433-446, 2020 (SCI-Expanded)
- X. **3-Hydroxyhexanoate-based polycationic nanoparticle system for delivering reprogramming factors**  
Varlı H. S., Alkan F., Kırmızıtaş F. C., Demirbilek M., Laçın N. T.  
*Journal of Microencapsulation*, vol.37, no.4, pp.332-340, 2020 (SCI-Expanded)
- XI. **A virus-free vector for the transfection of somatic cells to obtain iPSC**  
Varlı H. S., Alkan F., Demirbilek M., TÜRKOĞLU N.  
*Journal of Nanoparticle Research*, vol.21, no.11, 2019 (SCI-Expanded)
- XII. **Bacterial hyaluronic acid production through an alternative extraction method and its characterization**  
Güngör G., Gedikli S., Toptaş Y., Akgün D. E., Demirbilek M., YAZIHAN N., AYTAR ÇELİK P., Denkbaşı E. B., ÇABUK A.  
*Journal of Chemical Technology and Biotechnology*, vol.94, no.6, pp.1843-1852, 2019 (SCI-Expanded)
- XIII. **Experimental Exploration of Thermostable Poly ( $\beta$ -Hydroxybutyrates) by *Geobacillus kaustophilus* Using Box-Behnken Design**  
Gedikli S., Çelik P. A., Demirbilek M., Mutlu M. B., DENKBAŞ E. B., ÇABUK A.  
*Journal of Polymers and the Environment*, vol.27, no.2, pp.245-255, 2019 (SCI-Expanded)
- XIV. **Optimization of hyaluronic acid production and its cytotoxicity and degradability characteristics**  
Gedikli S., Güngör G., Toptaş Y., AKGÜN D. E., Demirbilek M., YAZIHAN N., AYTAR ÇELİK P., DENKBAŞ E. B., BÜTÜN V., ÇABUK A.  
*Preparative Biochemistry and Biotechnology*, vol.48, no.7, pp.610-618, 2018 (SCI-Expanded)
- XV. **A Comparative Study of Receptor-Targeted Magnetosome and HSA-Coated Iron Oxide Nanoparticles as MRI Contrast-Enhancing Agent in Animal Cancer Model**  
Erdal E., Demirbilek M., Yeh Y., AKBAL VURAL Ö., Ruff L., Bozkurt D., ÇABUK A., Senel Y., Gumuskaya B., ALGIN O., et al.  
*Applied Biochemistry and Biotechnology*, vol.185, no.1, pp.91-113, 2018 (SCI-Expanded)
- XVI. **Regenerative potential of chitosan-coated poly-3-hydroxybutyrate conduits seeded with mesenchymal stem cells in a rat sciatic nerve injury model**  
Ozer H., BOZKURT H., Bozkurt G., DEMİRBILEK M.  
*INTERNATIONAL JOURNAL OF NEUROSCIENCE*, vol.128, no.9, pp.828-834, 2018 (SCI-Expanded)
- XVII. **Magnetic silk fibroin e-gel scaffolds for bone tissue engineering applications**  
Karahaliloglu Z., Yalçın E., Demirbilek M., DENKBAŞ E. B.

- Journal of Bioactive and Compatible Polymers, vol.32, no.6, pp.596-614, 2017 (SCI-Expanded)
- XVIII. **In vitro evaluation of biocompatibility and immunocompatibility of 2,3 dialdehyde cellulose hydrogel membranes for wound healing**  
TÜRKOĞLU N., KAPLAN E., Demirbilek M., Mazmanci M. A., Mazmanci B., ÇAVAŞ T.  
Journal of Biomaterials and Tissue Engineering, vol.7, no.9, pp.822-828, 2017 (SCI-Expanded)
- XIX. **Active nano/microlayer hemostatic agents for diabetic rat bleeding model**  
Karahaliloğlu Z., Demirbilek M., Ulusoy İ., Gümüşkaya B., DENKBAŞ E. B.  
Journal of Biomedical Materials Research - Part B Applied Biomaterials, vol.105, no.6, pp.1573-1585, 2017 (SCI-Expanded)
- XX. **VitD3-loaded solid lipid nanoparticles: stability, cytotoxicity and cytokine levels**  
Demirbilek M., TÜRKOĞLU N., Aktürk S., AKÇA C.  
Journal of Microencapsulation, vol.34, no.5, pp.454-462, 2017 (SCI-Expanded)
- XXI. **Targeted delivery of etoposide to osteosarcoma cells using poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) nanoparticles**  
Alp E., Çirak T., Demirbilek M., Mustafa T., GÜVEN E.  
Turkish Journal of Biology, vol.41, no.5, pp.719-733, 2017 (SCI-Expanded)
- XXII. **Hemostatic activities of nano/microporous bilayer dressings in a femoral artery bleeding rat model**  
Karahaliloğlu Z., Demirbilek M., Ulusoy I., Gümüşkaya B., Baki Denkbaş E.  
Journal of Applied Polymer Science, vol.133, no.28, 2016 (SCI-Expanded)
- XXIII. **Comparison of the topical haemostatic efficacy of nano-micro particles of clinoptilolite and kaolin in a rat model of haemorrhagic injury**  
Bayır A., Eryılmaz M., Demirbilek M., DENKBAŞ E. B., Arzıman I., Durusu M.  
European Journal of Trauma and Emergency Surgery, vol.42, no.1, pp.77-86, 2016 (SCI-Expanded)
- XXIV. **Surface-modified bacterial nanofibrillar PHB scaffolds for bladder tissue repair**  
Karahaliloğlu Z., Demirbilek M., Şam M., SAĞLAM N., Mizrak A. K., DENKBAŞ E. B.  
Artificial Cells, Nanomedicine and Biotechnology, vol.44, no.1, pp.74-82, 2016 (SCI-Expanded)
- XXV. **Effect of tributyl citrate on chitosan scaffold: chemical, physical properties, pro/anti inflammation cytokines**  
Demirbilek M.  
Journal of Porous Materials, vol.22, no.2, pp.395-402, 2015 (SCI-Expanded)
- XXVI. **Aligned bacterial PHBV nanofibrous conduit for peripheral nerve regeneration**  
Demirbilek M., SAKAR M., Karahaliloglu Z., Erdal E., Yalcin E., Bozkurt G., KORKUSUZ P., Bilgic E., TEMUÇİN Ç. M., DENKBAŞ E. B.  
Artificial Cells, Nanomedicine and Biotechnology, vol.43, no.4, pp.243-251, 2015 (SCI-Expanded)
- XXVII. **Polyhydroxybutyrate and hydroxyvalerate production by Bacillus megaterium strain A1 isolated from hydrocarbon-contaminated soil**  
Güngörmedi G., Demirbilek M., MUTLU M. E., DENKBAŞ E. B., ÇABUK A.  
Journal of Applied Polymer Science, vol.131, no.15, 2014 (SCI-Expanded)
- XXVIII. **Osteoblast response on co-modified titanium surfaces via anodization and electrospinning**  
BAYRAM C., Demirbilek M., Yalçın E., BOZKURT M. C., DOĞAN M., DENKBAŞ E. B.  
Applied Surface Science, vol.288, pp.143-148, 2014 (SCI-Expanded)
- XXIX. **The effect of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBHHx) and human mesenchymal stem cell (hMSC) on axonal regeneration in experimental sciatic nerve damage**  
Sakar M., KORKUSUZ P., Demirbilek M., Çetinkaya D. U., Arslan S., DENKBAŞ E. B., TEMUÇİN Ç. M., BİLGİÇ E., Hazer D. B., Bozkurt G.  
International Journal of Neuroscience, vol.124, no.9, pp.685-696, 2014 (SCI-Expanded)
- XXX. **Photocatalytic performance of melt-electrospun polypropylene fabric decorated with TiO<sub>2</sub> nanoparticles**  
Karahaliloglu Z., Hacker C., Demirbilek M., Seide G., DENKBAŞ E. B., Gries T.  
Journal of Nanoparticle Research, vol.16, no.9, 2014 (SCI-Expanded)
- XXXI. **Plasma polymerization-modified bacterial polyhydroxybutyrate nanofibrillar scaffolds**

- Karahaliloğlu Z., Demirbilek M., Şam M., Erol-Demirbilek M., SAĞLAM N., DENKBAŞ E. B.  
Journal of Applied Polymer Science, vol.128, no.3, pp.1904-1912, 2013 (SCI-Expanded)
- XXXII. **Preparation and characterization of magnetically responsive bacterial polyester based nanospheres for cancer therapy**  
Erdal E., Kavaz D., Şam M., Demirbilek M., Demirbilek M. E., SAĞLAM N., DENKBAŞ E. B.  
Journal of Biomedical Nanotechnology, vol.8, no.5, pp.800-808, 2012 (SCI-Expanded)
- XXXIII. **Comparative evaluation of cyclosporine A/HPβCD-incorporated PLGA nanoparticles for development of effective ocular preparations**  
Aksungur P., Demirbilek M., DENKBAŞ E. B., Ünlü N.  
Journal of Microencapsulation, vol.29, no.6, pp.605-613, 2012 (SCI-Expanded)
- XXXIV. **Preparation and characterization of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBHHX) based nanoparticles for targeted cancer therapy**  
Kiliay E., Demirbilek M., Türk M., GÜVEN E., Hazer B., DENKBAŞ E. B.  
European Journal of Pharmaceutical Sciences, vol.44, no.3, pp.310-320, 2011 (SCI-Expanded)
- XXXV. **Development and characterization of Cyclosporine A loaded nanoparticles for ocular drug delivery: Cellular toxicity, uptake, and kinetic studies**  
Aksungur P., Demirbilek M., DENKBAŞ E. B., Vandervoort J., Ludwig A., Ünlü N.  
Journal of Controlled Release, vol.151, no.3, pp.286-294, 2011 (SCI-Expanded)
- XXXVI. **Oxidative stress parameters of L929 cells cultured on plasma-modified PDLA scaffolds**  
Demirbilek M. E., Demirbilek M., Karahaliloğlu Z., Erdal E., Vural T., Yalçın E., SAĞLAM N., DENKBAŞ E. B.  
Applied Biochemistry and Biotechnology, vol.164, no.6, pp.780-792, 2011 (SCI-Expanded)
- XXXVII. **Bleomycin loaded magnetic chitosan nanoparticles as multifunctional nanocarriers**  
Kavaz D., ODABAŞ S., GÜVEN E., Demirbilek M., Denkbaş E. B.  
Journal of Bioactive and Compatible Polymers, vol.25, no.3, pp.305-318, 2010 (SCI-Expanded)
- XXXVIII. **Evaluation of cytotoxic and mutagenic effects of Coriolus versicolor and Funalia trogii extracts on mammalian cells**  
Ünyayar A., Demirbilek M., Turkoglu M., Celik A., Mazmanci M. A., Erkurt E. A., Ünyayar S., Cecik Ö., Atacag H.  
Drug and Chemical Toxicology, vol.29, no.1, pp.69-83, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effect of Surfactant on controlling the Size of Octadecylamine-based Solid Lipid Nanoparticles and Toxicity**  
Ceren K. F., Sevgi V. H., Murat D., Nelisa T.  
Research Journal of Biotechnology, vol.18, no.7, pp.131-141, 2023 (ESCI)
- II. **Effects of Bacterial Phbv-Conduit Used for Nerve Regeneration on Oxidative Stress Parameters in Rats**  
EROL DEMİRBILEK M., DEMİRBILEK M., ERDAL E., SAKAR M., BOZKURT G.  
Hacettepe Journal of Biology and Chemistry, 2020 (Peer-Reviewed Journal)
- III. **Silk fibroin/nylon-6 blend nanofilter matrix for copper removal from aqueous solution**  
Yalcin E., Gedikli S., ÇABUK A., Karahaliloğlu Z., Demirbilek M., BAYRAM C., Şam M., Saçlam N., DENKBAŞ E. B.  
Clean Technologies and Environmental Policy, vol.17, no.4, pp.921-934, 2015 (Scopus)
- IV. **Effects of Copper Cyclam and Copper Cyclam PolymerComplexes on HeLa Cells**  
DEMİRBILEK M., BİŞKİN E.  
HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.36, no.4, pp.263-271, 2008 (Peer-Reviewed Journal)
- V. **Preparation and Characterization of Polyhydroxybutyrate Scaffolds to be Used in Tissue EngineeringApplications**  
GÜVEN E., DEMİRBILEK M., SAĞLAM N., KARAHALİLOĞLU Z., ERDAL E., BAYRAM C., DENKBAŞ E. B.  
HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.36, no.4, pp.305-311, 2008 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **MODİFİYE KEMİK DOKU İSKELELERİNİN İN-VİTRO VE İNVİVO ETKİLERİ**  
DEMİRBILEK M., ARSLAN A. K.  
International Harran Health Sciences Congress - II, Turkey, 06 May 2021
- II. **DELIVERY SYSTEMS FOR USE IN TREATMENT OF UVEITIS**  
Alkan F., DEMİRBILEK M., UĞURLU N., ERDAL E., ÇETİN E., TÜRKOĞLU N., Batur B., Çakal C.  
2. ULUSLARARASI ERCİYESBİLİMSEL ARAŞTIRMALAR KONGRESİ 27-29 EYLÜL 2019 KAYSERİ, 27 - 29 September 2019
- III. **Kitosan bazlı enjekte edilebilir kemik greftlerinin sentezi ve karakterizasyonu**  
Yaman V., Alkan F., DEMİRBILEK M., TÜRKOĞLU N.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 - 29 June 2019
- IV. **PHBHHX BAZLI POLİMERİK NANOPARTİKÜLLERİN HAZIRLANMASI VE KARAKTERİZASYON ÇALIŞMALARININ TAMAMLANMASI**  
Varlı H. S., Kırmızıtaş F. C., DEMİRBILEK M., TÜRKOĞLU N.  
5. BİYOMALZEME GÜNLERİ, Turkey, 22 - 23 October 2018
- V. **STEARAMİD BAZLI KATYONİK LİPİD NANOPARTİKÜLLERİN HAZIRLANMASI VE FİBROBLAST HÜCRELERİNE GEN TRANSFERİNDE KULLANIMI**  
Alkan F., DEMİRBILEK M., TÜRKOĞLU N.  
III. Yaşam Bilimleri Kongresi, Turkey, 23 - 24 February 2018
- VI. **Preparation and Characterization of Cerium Oxide Nanoparticles for Biomedical Applications**  
ERDAL E., Malekghasame S., AKBAL Ö., VURAL T., DEMİRBILEK M., UĞURLU N., DENKBAŞ E. B.  
Nanotech / Biotech / Surtech Middle East 2017, 4 - 06 December 2017
- VII. **Hyaluronik Asitin Fiziksel Koşullardaki Kararlılığı**  
Gedikli S., Güngörmedi G., DEMİRBILEK M., Toptaş Y., SEZGİN D. E., Çelik Aytar P., DENKBAŞ E. B., BÜTÜN V., ÇABUK A.  
Uluslararası Katılımlı 19. Ulusal Biyoteknoloji Kongresi, Turkey, 1 - 03 December 2017
- VIII. **Deneysel Tasarım ile Mikrobiyal Hyaluronik Asit Üretim Koşullarının Optimizasyonu**  
Güngörmedi G., Gedikli S., DEMİRBILEK M., Toptaş Y., SEZGİN D. E., AYTAZ ÇELİK P., DENKBAŞ E. B., BÜTÜN V., ÇABUK A.  
19. Uluslararası Katılımlı Ulusal Biyoteknoloji Kongresi, Turkey, 1 - 03 December 2017
- IX. **Termal Kararlılığa Sahip Biyopolimer Üretimi**  
Gedikli S., Çelik Aytar P., DEMİRBILEK M., DENKBAŞ E. B., MUTLU M. B., BÜTÜN V., ÇABUK A.  
Uluslararası Katılımlı 19. Ulusal Biyoteknoloji Kongresi, Turkey, 1 - 03 December 2017
- X. **In vitro comparison of nanofiber and macroporous-spongy composite tissue-scaffolds in periodontal tissue engineering**  
Şahbazoglu K. B., AKALIN F. A., DEMİRBILEK M., TÜRK M., BAYARI S.  
Turkish society of periodontology 47 international scientific congress and 26 scientific symposium, 17 - 18 November 2017
- XI. **Nano micro porous bilayer dressings for use as a hemostatic agent**  
KARAHALİLOĞLU Z., DEMİRBILEK M., Ulusoy İ., GÜMÜŞKAYA ÖCAL B., DENKBAŞ E. B.  
Nanotechnology and nanomedicine dubai conferences | Nanomed 2016, 28 - 29 November 2016
- XII. **Magnetic SF Silk Fibroin E Gel Scaffolds Containing bFGF Conjugated Fe<sub>3</sub>O<sub>4</sub> Nanoparticles**  
KARAHALİLOĞLU Z., YALÇIN E., DEMİRBILEK M., DENKBAŞ E. B.  
ICNB 2016 : 18th International Conference on Nanotechnology and Biotechnology, 24 - 25 March 2016
- XIII. **Comparison of Magnetosome and HSA Coated Iron Oxide Nanoparticles for Targeting to Breast Cancer Cell Line**  
ERDAL E., DEMİRBILEK M., Yeh Y., AKBAL Ö., Laura R., Bozkurt D., Yasin Ş., ÇABUK A., GÜMÜŞKAYA ÖCAL B., Oktay A., et al.  
International Nanotechnology, Bologna, Italy, 25 - 27 November 2015

- XIV. **In vitro Studies of the Scaffolds for Wound Healing**  
DEMİRBILEK M., YAZIHAN N., MİMİROĞLU D., DENKBAŞ E. B.  
BIOMED2015, 21 - 24 October 2015
- XV. **Magnetic silk fibroin E gel scaffolds for bone tissue engineering application**  
KARAHALİOĞLU Z., Yalçın E., DEMİRBILEK M., DENKBAŞ E. B.  
Biomedical engineering society, 7 - 10 October 2015
- XVI. **Photocatalytic remediation of model methyl orange dyes by melt electrospun polypropylene fabrics**  
KARAHALİOĞLU Z., Hacker C., DEMİRBILEK M., DENKBAŞ E. B., Gunnar S.  
Nanofibers applications and related technologies, 31 August - 02 September 2015
- XVII. **Melt Elektrospun Polypropylene Fabrics functionalized with TiO<sub>2</sub> Nanoparticles for effective photocatalytic decolorization**  
KARAHALİOĞLU Z., Christoph H., DEMİRBILEK M., Gunnar S., DENKBAŞ E. B., Thomas G.  
17th international conference on nanoscience and technology, 17 - 18 August 2015
- XVIII. **Bacterial nanofiber PHB and PHBV for medical dress**  
DEMİRBILEK M., YAZIHAN N., MİMİROĞLU D., DENKBAŞ E. B.  
NanoTR 11, 22 - 25 June 2015
- XIX. **Biyomalzemelerin uyumluluğunun artırılması**  
DEMİRBILEK M.  
Ulusal biyoloji kongresi, Eskişehir, Turkey, 23 - 27 June 2014
- XX. **Characterization and optimization of poly 3 hydroxybutyrate produced by bacteria isolated from hydrocarbon polluted soil**  
GÖKHAN G., DEMİRBILEK M., ÇABUK A., MUTLU M. B., ŞAM M., DENKBAŞ E. B.  
NEW BIOTECHNOLOGY, Berlin, Germany, 23 - 26 September 2012, vol.29, pp.71
- XXI. **Comparison of clinoptilolite and kaolin s topical hemostatic efficacy in a rat model of hemorrhagic injury**  
AYTEKİN B., MEHMET E., DEMİRBILEK M., DENKBAŞ E. B., İBRAHİM A., MURAT D.  
World trauma congress, Rio de Janeiro, Brazil, 22 - 25 August 2012
- XXII. **Magnetic polyhydroxybutyrate carboxymethylated chitosan PHB CMCh nanoparticles for atherosclerotic plaque theragnosis**  
DAMLA T., KAVAZ D., DEMİRBILEK M., TÜRK M., DENKBAŞ E. B.  
8th Nanoscience and Nanotechnology Congress, Ankara, Turkey, 25 - 29 June 2012
- XXIII. **Polymeric Nanofibrous Scaffolds for Peripheral Nerve Regeneration**  
DEMİRBILEK M., KARAHALİOĞLU Z., ERDAL E., YALÇIN E., SAKAR M., BOZKURT G., TEMUÇİN Ç. M., KORKUSUZ P., BİLGİÇ E., DENKBAŞ E. B.  
8th Nanoscience and Nanotechnology Congress, Ankara, Turkey, 25 - 29 June 2012
- XXIV. **Plasma Polymerization Modified Bacterial Polyhydroxybutyrate PHB Nanofibrillar Scaffolds**  
KARAHALİOĞLU Z., DEMİRBILEK M., ŞAM M., MELİKE D. E., SAĞLAM N., DENKBAŞ E. B.  
8th Nanoscience and Nanotechnology Congress, Ankara, Turkey, 25 - 29 June 2012
- XXV. **Ciliates in nanotechnology a separation experiment by using magnetic nanoparticles**  
DENİZ NAZLI E., KAVAZ D., DEMİRBILEK M., DENKBAŞ E. B., ÇAPAN S.  
8th Nanoscience and Nanotechnology Congress, Ankara, Turkey, 25 - 29 June 2012
- XXVI. **Heavy metal removal studies with calcium phosphate incorporated silk Nylon 6 nanofilters**  
YALÇIN E., DEMİRBILEK M., BAYRAM C., ÇABUK A., KARAHALİOĞLU Z., ŞAM M., SAĞLAM N., DENKBAŞ E. B.  
8th Nanoscience and Nanotechnology Congress, Ankara, Turkey, 25 - 29 June 2012
- XXVII. **Synthesis and characterization of calcium phosphate coated silk nylon 6 nanofiber membranes**  
YALÇIN E., DEMİRBILEK M., KARAHALİOĞLU Z., BAYRAM C., ŞAM M., SAĞLAM N., DENKBAŞ E. B.  
7th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 27 June - 01 July 2011
- XXVIII. **Preparation and characterization of polyhydroxybutyrate coated superparamagnetic iron oxide nanoparticles**  
ERDAL E., KAVAZ D., ŞAM M., DEMİRBILEK M., MELİKE D. E., SAĞLAM N., DENKBAŞ E. B.  
16th International Biomedical Science and Technology Symposium, Antalya, Turkey, 28 September - 02 October

2010

- XXIX. **Naproxen sodium incorporated scaffolds for corneal tissue engineering**  
SELEN K., SİBEL B. P., DEMİRBILEK M., YÜRÜKER S., ÇAKMAK H. B., DENKBAŞ E. B.  
15th International Pharmaceutical Technology Symposium, Antalya, Turkey, 13 - 15 September 2010
- XXX. **Bacterial Nanofibrillar PHB Scaffolds for Bladder Tissue Repair**  
KARAHALİLOĞLU Z., DEMİRBILEK M., ŞAM M., SAĞLAM N., KORAY M., DENKBAŞ E. B.  
International Academy of Nanomedicine. Second World Congress., Antalya, Turkey, 3 - 06 September 2010
- XXXI. **Preparation and characterization of Bacterial Polyester Based Nanospheres with Magnetic Properties**  
ERDAL E., KAVAZ D., ŞAM M., DEMİRBILEK M., MELİKE D. E., SAĞLAM N., DENKBAŞ E. B.  
International Academy of Nanomedicine. Second World Congress., Antalya, Turkey, 3 - 06 September 2010
- XXXII. **Etaposid Loaded Poly 3 hydroxybutyrate co 3 hydroxyhexanoate PHBHHX Nanoparticles for Cancer Therapy**  
KILIÇAY E., DEMİRBILEK M., TÜRK M., GÜVEN E., HAZER B., DENKBAŞ E. B.  
International Academy of Nanomedicine. Second World Congress., Antalya, Turkey, 3 - 06 September 2010
- XXXIII. **Osteoblast Activity on Anodized Titanium Surfaces Effect of SBF Immersion Time**  
BAYRAM C., DEMİRBILEK M., ÇALIŞKAN N., MELİKE D. E., DENKBAŞ E. B.  
International Academy of Nanomedicine. Second World Congress, Antalya, Turkey, 3 - 06 September 2010
- XXXIV. **Silver containing nanofibers for protective clothes**  
DEMİRBILEK M., KARAHALİLOĞLU Z., YALÇIN E., DENKBAŞ E. B.  
7th Nanoscience and Nanotechnology Conference., İstanbul, Turkey, 27 June - 01 July 2010
- XXXV. **Strontium Incorporated Titania Nanotubes for Hard Tissue Applications**  
GÖKÇE B., BAYRAM C., YALÇIN E., DEMİRBILEK M., DENKBAŞ E. B.  
7th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 27 June - 01 July 2010
- XXXVI. **Chitosan Based Nanoparticles for Cardiovascular System Therapies**  
KAVAZ D., TÜRKAY D., DEMİRBILEK M., MEHMET ALİ O., HÜRKAN K., DENKBAŞ E. B.  
7th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 27 June - 01 July 2010
- XXXVII. **Diphenylalanine Peptide Nanospheres for Targeted Therapy**  
DEMİR F., BETÜL P. B., ÇIRAK T., DEMİRBILEK M., DENKBAŞ E. B.  
7th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 27 June - 01 July 2010
- XXXVIII. **Bakteriyel kaynaklı polyesterlerin sentezi ve karakterizasyonu**  
ERDAL E., KARAHALİLOĞLU Z., ŞAM M., DEMİRBILEK M., YALÇIN E., MELİKE D. E., SAĞLAM N., DENKBAŞ E. B.  
Ekoloji Sempozyumu, Aksaray, Turkey, 5 - 07 May 2010
- XXXIX. **Polymeric systems and MDA levels**  
MELİKE D. E., DEMİRBILEK M., KARAHALİLOĞLU Z., VURAL T., DENKBAŞ E. B., SAĞLAM N.  
17th Meeting of Balkan Clinical Laboratory Federation & 5th Macedonian National Congress of Medical Biochemists Ohrid, Tirane, Albania, 16 - 19 September 2009
- XL. **Cyclosporine loaded nanoparticles for topical ocular drug delivery systems cellular toxicity and uptake study**  
PELİN A., DEMİRBILEK M., DENKBAŞ E. B., ANNICK L., ÜNLÜ N.  
14th international pharmaceutical technology symposium, Antalya, Turkey, 6 - 10 September 2008
- XLI. **Preparation and Characterization of Polyhydroxybutyrate Scaffoldsto be Used in Tissue Engineering Applications**  
GÜVEN E., SAĞLAM N., KARAHALİLOĞLU Z., ERDAL E., BAYRAM C., DEMİRBILEK M., DENKBAŞ E. B.  
14th Biomedical Science & Technology Symposium, Muğla, Turkey, 3 - 07 May 2008

## Supported Projects

Demirbilek M., TUBITAK Project, Çift Tabakalı Fıtık Yaması: In-Vitro Ve In-Vivo Karakterizasyon, 2020 - 2022

Demirbilek M., TUBITAK Project, Üveit Tedavisinde Kullanılmak Üzere Taşıyıcı Sistemler, 2018 - 2022

Demirbilek M., TUBITAK Project, Oral ve Maksillofasiyal Kemik Rekonstrüksiyonları İçin Yeni Bir Kompozit Biyomateryalin Üretimi, Karakterizasyonu ve Kullanımının In Vitro ve In Vivo Olarak Araştırılması, 2018 - 2021

Demirbilek M., TUBITAK Project, Maküler Ödem Tedavisinde Kullanılmak Üzere Hedefe Yönelik Yeni Nesil Nanobiyoterapötiklerin Geliştirilmesi, 2018 - 2021

Demirbilek M., Project Supported by Higher Education Institutions, Enjekte edilebilir kemik doku greftlerinin hazırlanması ve karakterize edilmesi, 2018 - 2019

Demirbilek M., TUBITAK Project, laç Tarama Ve Geliştirme Testlerinde Kullanıma Yönelik Üç Boyutlu Mikroakışkan Çip Üstü Organ Platformu Geliştirilmesi, 2017 - 2019

Demirbilek M., TUBITAK Project, Vitamin D3 Yüklü Katı Lipid Nanopartiküller Proje kodu 3001No 115Z018, 2015 - 2017

DEMİR BİLEK M., Project Supported by Higher Education Institutions, Transdermal emülsiyon sistemlerinin optimizasyonu Hacettepe Üni BAB Proje no 1522, 2015 - 2015

DEMİR BİLEK M., Project Supported by Higher Education Institutions, Etkin madde içeren yara örtü malzemeleri Hacettepe Üni BAB Proje kodu FHD 2015 5348, 2015 - 2015

## **Metrics**

Publication: 89

Citation (WoS): 13

Citation (Scopus): 769

H-Index (WoS): 1

H-Index (Scopus): 15

## **Non Academic Experience**

ANKARA BAYINDIR HASTANESİ LABORATUVARLARI