

Doç.Dr. MURAT DEMİRBİLEK

Kişisel Bilgiler

E-posta: mrt@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/mrt>

Posta Adresi: HACETTEPE ÜNİ. İLERİ TEKNOLOJİLER UYGULAMA VE ARAŞTIRMA MERKEZİ BEYTEPE ANKARA

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0001-6990-5607

Yoksis Araştırmacı ID: 120688

Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji-Nanotıp, Türkiye 2007 - 2011

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik, Türkiye 2001 - 2004

Ön Lisans, Ankara Üniversitesi, Fen Fakültesi, Biyoloji, Türkiye 1992 - 1996

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Sinir doku onarımı için polimerik nanofiber doku iskeleleri, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp (YI) (Tezli), 2011

Yüksek Lisans, Cu(II)/1,4,8,11-tetra-azasiklotetradekan ("cyclam") ve Cu(II)-cyclam/poliakrilik asit kompleksinin tümör hücreleri (HeLa) üzerine etkilerinin araştırılması, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), 2004

Araştırma Alanları

Biyomedikal Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Uzman, Hacettepe Üniversitesi, Rektörlük, 2011 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Evaluation of triacetin on mechanical strength and free surface energy of PHBHHx: The prevention of intra-abdominal adhesion**
Akkurt Yıldırım M., DEMİRBİLEK M., Kızılbaş K., KAPLAN E., TÜRKOĞLU N.
Journal of Bioactive and Compatible Polymers, cilt.38, sa.3, ss.270-283, 2023 (SCI-Expanded)

- II. **In vitro comparison of nanofibrillar and macroporous-spongy composite tissue scaffolds for periodontal tissue engineering**
ŞAHBAZOĞLU K. B., DEMİRBİLEK M., BAYARI S., BÜBER E., Toklucu S., TÜRK M., KARABULUT E., AKALIN F. A.
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- III. **Manipulating cell behavior on a bacterial macro-polymer poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) via tuning the S-doped graphene ratio**
Yildirim M. A., DEMİRBİLEK M., GÜRSU H., ŞAHİN Y., TÜRKÖĞLU N.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.182, ss.2076-2086, 2021 (SCI-Expanded)
- IV. **Evaluation of paraffin wax and poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) blend patch for tissue engineering**
Yildirim M. A., DEMİRBİLEK M., TÜRKÖĞLU N.
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- V. **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., Celik E., Ercan N., DEMİRBİLEK M., NOHUTCU R. M.
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- VI. **Development of an Anti-Inflammatory Drug-Incorporated Biomimetic Scaffold for Corneal Tissue Engineering**
Celebier S. K., Pehlivan S., DEMİRBİLEK M., Akinci M., VURAL İ., AKDAĞ ÇAYLI Y., Yuruker S., Unlu N.
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- VII. **3-Hydroxyhexanoate-based polycationic nanoparticle system for delivering reprogramming factors**
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- VIII. **A study on bone tissue engineering: Injectable chitosan-g-stearic acid putty**
Yalman V., Celik E., Arslan O., Alkan F., TÜRKÖĞLU N., Sirin H. T., Arslan A. K., DEMİRBİLEK M.
TECHNOLOGY AND HEALTH CARE, cilt.28, sa.3, ss.227-239, 2020 (SCI-Expanded)
- IX. **A virus-free vector for the transfection of somatic cells to obtain iPSC**
VARLI H. S., Alkan F., DEMİRBİLEK M., TÜRKÖĞLU N.
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- X. **Bacterial hyaluronic acid production through an alternative extraction method and its characterization**
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- XI. **In vitro and in vivo bacterial antifouling properties of phosphite of plasma-treated- silicone**
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SURFACE INNOVATIONS, cilt.7, sa.2, ss.122-132, 2019 (SCI-Expanded)
- XII. **Experimental Exploration of Thermostable Poly (-Hydroxybutyrate)s by Geobacillus kaustophilus Using Box-Behnken Design**
Gedikli S., ÇELİK P. A., DEMİRBİLEK M., Mutlu M. B., DENKBAŞ E. B., ÇABUK A.
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- XIII. **A Comparative Study of Receptor-Targeted Magnetosome and HSA-Coated Iron Oxide Nanoparticles as MRI Contrast-Enhancing Agent in Animal Cancer Model**
Erdal E., DEMİRBİLEK M., Yeh Y., Akbal Ö., Ruff L., Bozkurt D., Cabuk A., Senel Y., Gumuskaya B., ALGIN O., et al.
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- XIV. **Optimization of hyaluronic acid production and its cytotoxicity and degradability characteristics**
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- XV. **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., DEMİRBİLEK M.

- INTERNATIONAL JOURNAL OF NEUROSCIENCE, cilt.128, sa.9, ss.828-834, 2018 (SCI-Expanded)
- XVI. **Magnetic silk fibroin e-gel scaffolds for bone tissue engineering applications**
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- XVII. **In Vitro Evaluation of Biocompatibility and Immunocompatibility of 2,3 Dialdehyde Cellulose Hydrogel Membranes for Wound Healing**
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- XVIII. **Active nano/microbilayer hemostatic agents for diabetic rat bleeding model**
Karahaliloglu Z., DEMİRBİLEK M., ULUSOY I., Gumuskaya B., DENKBAŞ E. B.
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- XIX. **Targeted delivery of etoposide to osteosarcoma cells using poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) nanoparticles**
Alp E., Cirak T., DEMİRBİLEK M., TÜRK M., GÜVEN E.
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- XX. **N-Acetylglucoseamine modified alginate sponges as scaffolds for skin tissue engineering**
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- XXIV. **Aligned bacterial PHBV nanofibrous conduit for peripheral nerve regeneration**
Demirbilek M., Sakar M., Karahaliloglu Z., Erdal E., YALCIN E., Bozkurt G., KORKUSUZ P., BİLGİÇ E., TEMUÇİN Ç. M., DENKBAŞ E. B.
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- XXV. **Silk fibroin/nylon-6 blend nanofilter matrix for copper removal from aqueous solution**
yalçın e., Gedikli S., ÇABUK A., KARAHALİLOĞLU Z., DEMİRBİLEK M., BAYRAM C., ŞAM M., SAĞLAM N., DENKBAŞ E. B.
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- XXVI. **Effect of tributyl citrate on chitosan scaffold: chemical, physical properties, pro/anti inflammation cytokines**
Demirbilek M.
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- XXVII. **Chlorogenic Acid Containing Bioinspired Polyurethanes: Biodegradable Medical Adhesive Materials**
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- XXVIII. **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., DEMİRBİLEK M., Cetinkaya D. U., Arslan S., DENKBAŞ E. B., TEMUÇİN Ç. M., BİLGİÇ E., Hazer D. B., Bozkurt G.
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- XXIX. **Photocatalytic performance of melt-electrospun polypropylene fabric decorated with TiO2 nanoparticles**

- KARAHALİLOĞLU Z., Hacker C., DEMİRBİLEK M., Seide G., DENKBAŞ E. B., Gries T.
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- XXX. **Osteoblast response on co-modified titanium surfaces via anodization and electrospinning**
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- XXXI. **Plasma polymerization-modified bacterial polyhydroxybutyrate nanofibrillar scaffolds**
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- XXXII. **Preparation and Characterization of Magnetically Responsive Bacterial Polyester Based Nanospheres for Cancer Therapy**
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- XXXIII. **Characterization and optimization of poly(3-hydroxybutyrate) produced by bacteria isolated from hydrocarbon polluted soil**
Gungormedi G., DEMİRBİLEK M., ÇABUK A., MUTLU M. B., ŞAM M., DENKBAŞ E. B.
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- XXXIV. **Osteoblast Activity on Anodized Titania Nanotubes: Effect of Simulated Body Fluid Soaking Time**
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- XXXV. **Comparative evaluation of cyclosporine A/HP beta CD-incorporated PLGA nanoparticles for development of effective ocular preparations**
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- XXXVI. **Preparation and characterization of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBHHX) based nanoparticles for targeted cancer therapy**
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- XXXVII. **Oxidative Stress Parameters of L929 Cells Cultured on Plasma-Modified PDLLA Scaffolds**
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- XXXVIII. **Development and characterization of Cyclosporine A loaded nanoparticles for ocular drug delivery: Cellular toxicity, uptake, and kinetic studies**
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- XXXIX. **Bleomycin Loaded Magnetic Chitosan Nanoparticles as Multifunctional Nanocarriers**
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- XL. **Apoptosis and proliferation in gastric epithelium due to Helicobacter pylori: An immunohistochemical and ultrastructural study**
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- XLI. **A quasi-static analysis for a class of induced-current EIT systems using discrete coils**
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- XLII. **Distinguishability analysis of an induced current EIT system using discrete coils**
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- I. **Effectiveness of carbonic anhydrase inhibitor loaded nanoparticles in the treatment of diabetic retinopathy**
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- II. **Preparation and Characterization of Polyhydroxybutyrate Scaffolds to be Used in Tissue Engineering Applications**
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- II. **In vitro comparison of nanofiber and macroporous-spongy composite tissue- scaffolds in periodontal tissue engineering**
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- III. **Porous Thermoplastic Polyurethane Films by Breath Figure Approach**
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- IV. **Ciliates in Nanotechnology A Separation Experiment by Using Magnetic Nanoparticles**
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- V. **Nanoplatforms for Detection, Remediation and Protection Against Chem-Bio Warfare Nanoplatforms Against Chem-Bio Warfare**
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Desteklenen Projeler

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DEMİRBİLEK M., BAYRAM C., Sanayi Tezleri Projesi, Biyoyapay Pankreas Pankreas Hücrelerinin Enkapsülasyonu ile Hücre Tedaviler, 2014 - 2016

DEMİRBİLEK M., Sanayi Tezleri Projesi, Midkin uygulamasının sıçanlarda oluşturulacak yara modellerinde etkisinin belirlenmesi Farklı modellerde uygulanabilir yeni bir yara örtüsü geliştirilmesi, 2014 - 2016

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İskeleleri Proje kodu 1002Proje no 114S775, 2014 - 2015

Metrikler

Yayın: 49

Atıf (WoS): 574

Atıf (Scopus): 477

H-İndeks (WoS): 10

H-İndeks (Scopus): 11