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Personal Information

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Address: Hacettepe Üniversitesi Eczacılık Fakültesi Eczacılık Temel Bilimleri Ab.D. Kat 8 Sıhhiye/ANKARA

Education Information

Doctorate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik Anabilim Dalı, Turkey 2013 - 2019

Postgraduate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik Anabilim Dalı, Turkey 2011 - 2013

Undergraduate, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 2004 - 2009

Dissertations

Doctorate, Poli(polio)l)sebakat bazlı biyobozunur elastomerlerin sentezi ve jiro eğrilmiş fiber destekli hidrojel doku iskelelerinin geliştirilmesi, Hacettepe University, Fen Bilimleri Enstitüsü, 2019

Postgraduate, Üreteral stentlerde enfeksiyon önleyici antibakteriyel fırça tipi polimer aşılamanın geliştirilmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), 2013

Research Areas

Basic Pharmaceutics Sciences, Health Sciences, Pharmacology and Therapeutics, Basic Sciences of Pharmacy

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2020 - Continues

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2012 - 2020

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Assessment of electromechanically stimulated bone marrow stem cells seeded acellular cardiac patch in a rat myocardial infarct model**
Öztürk Ş., Shahbazi R., Zeybek N. D. , Kürüm B., Gültekinöğlü Bayram M., Aksoy E. A. , Demircin M., Ulubayram K.
BIOMEDICAL MATERIALS, vol.16, no.5, 2021 (Journal Indexed in SCI)
- II. **Co-Axial Gyro-Spinning of PCL/PVA/HA Core-Sheath Fibrous Scaffolds for Bone Tissue Engineering**
Mahalingam S., BAYRAM C., GÜLTEKİNOĞLU BAYRAM M., ULUBAYRAM K., Homer-Vanniasinkam S., Edirisinghe M.
MACROMOLECULAR BIOSCIENCE, 2021 (Journal Indexed in SCI)
- III. **Current approaches and future prospects of nanofibers: a special focus on antimicrobial drug delivery**
Topcu B., GÜLTEKİNOĞLU BAYRAM M., TİMUR S. S. , EROĞLU İ., ULUBAYRAM K., EROĞLU H.
JOURNAL OF DRUG TARGETING, 2020 (Journal Indexed in SCI)
- IV. **Effectiveness of Oil-Layered Albumin Microbubbles Produced Using Microfluidic T-Junctions in**

Series for In Vitro Inhibition of Tumor Cells

Khan A. H. , Jiang X., Surwase S., GÜLTEKİNOĞLU BAYRAM M., BAYRAM C., Sathisaran I., Bhatia D., Ahmed J., Wu B., ULUBAYRAM K., et al.

LANGMUIR, vol.36, no.39, pp.11429-11441, 2020 (Journal Indexed in SCI)

- V. **Liposome-based combination therapy for acne treatment**
EROĞLU İ., Aslan M., Yaman U., Gultekinoglu M., ÇALAMAK S., KART D., ULUBAYRAM K.
JOURNAL OF LIPOSOME RESEARCH, vol.30, no.3, pp.263-273, 2020 (Journal Indexed in SCI)
- VI. **Bacterial cellulose micro-nano fibres for wound healing applications**
Ahmed J., Gultekinoglu M., Edirisinghe M.
BIOTECHNOLOGY ADVANCES, vol.41, 2020 (Journal Indexed in SCI)
- VII. **Self-assembled micro-stripe patterning of sessile polymeric nanofluid droplets**
Gultekinoglu M., Jiang X., BAYRAM C., Wu H., ULUBAYRAM K., Edirisinghe M.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.561, pp.470-480, 2020 (Journal Indexed in SCI)
- VIII. **Preparation of poly(glycerol sebacate) fibers for tissue engineering applications**
Gultekinoglu M., Orturk Ş., Chen B., Edirisinghe M., ULUBAYRAM K.
EUROPEAN POLYMER JOURNAL, vol.121, 2019 (Journal Indexed in SCI)
- IX. **Biofabrication of Gelatin Tissue Scaffolds with Uniform Pore Size via Microbubble Assembly**
BAYRAM C., Jiang X., Gultekinoglu M., ÖZTÜRK Ş., ULUBAYRAM K., Edirisinghe M.
MACROMOLECULAR MATERIALS AND ENGINEERING, vol.304, no.11, 2019 (Journal Indexed in SCI)
- X. **Gel network comprising UV crosslinked PLGA-b-PEG-MA nanoparticles for ibuprofen topical delivery**
EROĞLU İ., Gultekinoglu M., BAYRAM C., Erikci A., Ciftci S. Y. , AKSOY E. A. , ULUBAYRAM K.
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.24, no.9, pp.1144-1154, 2019 (Journal Indexed in SCI)
- XI. **Honeycomb-like PLGA-?-PEG Structure Creation with T-Junction Microdroplets**
GÜLTEKİNOĞLU M., Jiang X., BAYRAM C., ULUBAYRAM K., Edirisinghe M.
LANGMUIR, vol.34, no.27, pp.7989-7997, 2018 (Journal Indexed in SCI)
- XII. **Gold nano-decorated aligned polyurethane nanofibers for enhancement of neurite outgrowth and elongation**
DEMİR U. S. , SHAHBAZI R., ÇALAMAK S., ÖZTÜRK Ş., GÜLTEKİNOĞLU M., ULUBAYRAM K.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.106, no.6, pp.1604-1613, 2018 (Journal Indexed in SCI)
- XIII. **Synthesis of biodegradable polyurethanes chain-extended with (2S)-bis(2-hydroxypropyl) 2-aminopentane dioate**
AKSOY E. A. , TAŞKOR G., GÜLTEKİNOĞLU M., KARA F., ULUBAYRAM K.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, no.5, 2018 (Journal Indexed in SCI)
- XIV. **Polyethyleneimine brushes effectively inhibit encrustation on polyurethane ureteral stents both in dynamic bioreactor and in vivo**
GULTEKINOGLU M., Kurum B., Karahan S., KART D., SAĞIROĞLU M., Ertas N., ÖZEN A. H. , ULUBAYRAM K.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.71, pp.1166-1174, 2017 (Journal Indexed in SCI)
- XV. **Donepezil loaded PLGA-b-PEG nanoparticles: their ability to induce destabilization of amyloid fibrils and to cross blood brain barrier in vitro**
BAYSAL İ., UÇAR G., GULTEKINOGLU M., ULUBAYRAM K., Yabanoglu-Ciftci S.
JOURNAL OF NEURAL TRANSMISSION, vol.124, no.1, pp.33-45, 2017 (Journal Indexed in SCI)
- XVI. **An overview of nanofiber-based antibacterial drug design**
ÇALAMAK S., SHAHBAZI R., EROĞLU İ., Gultekinoglu M., ULUBAYRAM K.
EXPERT OPINION ON DRUG DISCOVERY, vol.12, no.4, pp.391-406, 2017 (Journal Indexed in SCI)
- XVII. **Nanoscale characteristics of antibacterial cationic polymeric brushes and single bacterium interactions probed by force microscopy**
Gultekinoglu M., OH Y. J. , HINTERDORFER P., DUMAN M., CATCAT D., ULUBAYRAM K.
RSC ADVANCES, vol.6, no.21, pp.17092-17099, 2016 (Journal Indexed in SCI)
- XVIII. **Designing of dynamic polyethyleneimine (PEI) brushes on polyurethane (PU) ureteral stents to**

prevent infections

Gultekinoglu M., SARISOZEN Y. T. , Erdogdu C., SAĞIROĞLU M., AKSOY E. A. , OH Y. J. , HINTERDORFER P., ULUBAYRAM K.

ACTA BIOMATERIALIA, vol.21, pp.44-54, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Alleviating the toxicity concerns of antibacterial cinnamon-polycaprolactone biomaterials for healthcare-related biomedical applications**

Ahmed J., GÜLTEKİNOĞLU BAYRAM M., BAYRAM C., KART D., ULUBAYRAM K., Edirisinghe M.

MEDCOMM, vol.2, no.2, pp.236-246, 2021 (Journal Indexed in ESCI)

Books & Book Chapters

- I. **Biyomalzemeler İçin Yüzey Modifikasyonu Stratejileri**

Gültekinoglu Bayram M., Aksoy E. A.

in: İleri Malzemeler; Biyomalzeme ve Nanomalzeme Uygulamaları, Filiz Kuralay, Editor, Palme Yayın Dağıtım, Ankara, pp.133-146, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Microbubble generation via T-junction microfluidics as a versatile tool for the fabrication of highly uniform porous biomaterials**

GÜLTEKİNOĞLU M., Xinyue J., BAYRAM C., ÖZTÜRK Ş., ULUBAYRAM K., Edirisinghe M.

24th International Biomedical Science and Technology Symposium, İzmir, Turkey, 17 - 20 October 2019

- II. **The Behavioral Changes Of Donepezil-Loaded Plga-B-Peg Nanoparticles On Beta-Amyloid 25-35 Injected Rat Model Of Alzheimer's Disease.**

ÇINAR E., TEL B. C. , BAYSAL İ., GÜLTEKİNOĞLU M., ULUBAYRAM K., YABANOĞLU ÇİFTÇİ S., UÇAR G.

International Multidisciplinary Symposium on Drug Research Development (DRD 2019), 1 - 03 July 2019

- III. **The Effect of Ibuprofen Loaded nanogel Formulations on Collagen Synthesis**

EROĞLU İ., GÜLTEKİNOĞLU M., YABANOĞLU ÇİFTÇİ S., ERİKÇİ A., BAYRAM C., AKSOY E. A. , ULUBAYRAM K.

19th International Pharmaceutical Technology Symposium (IPTS), Antalya, Turkey, 17 - 19 September 2018

- IV. **Synthesis and Characterization of Polyethylene glycol-co-poly(glycerol) Sebacate (PEGS)**

GÜLTEKİNOĞLU M., ULUBAYRAM K.

28th Annual Conference of the European Society for Biomaterials (ESB), 4 - 08 September 2017

- V. **Designing and Performance of Antibacterial Polymeric Brushed Ureteral Stents In-vivo**

GULTEKINOGLU M., KART D., KÜRÜM B., AKSOY E. A. , KARAHAN S., SAĞIROĞLU M., ÖZEN A. H. , ULUBAYRAM K.

International Biomedical Science and Technology Symposium, Ankara, Turkey, 12 - 14 May 2017

- VI. **Formulation of Plga b peg Nanoparticles as Nanogel Networks for Dermal Drug Delivery**

EROĞLU İ., GÜLTEKİNOĞLU M., BAYRAM C., AKSOY E. A. , ULUBAYRAM K.

18th International Pharmaceutical Technology Symposium, 18 - 21 September 2016

- VII. **Synthesis and Characterization of Amphiphilic Poly ol sebacate Derivatives**

GÜLTEKİNOĞLU M., ULUBAYRAM K.

46th IUPAC WORLD POLYMER CONGRESS, 17 - 21 July 2016

- VIII. **Polycationic Polymeric Brush Decoration on Polyurethane for Dual Effective Antibacterial Activity**

GÜLTEKİNOĞLU M., SARIZÖZEN TUNÇ Y., ERDOĞDU C., SAĞIROĞLU M., OH JİN Y., HINTERDORFER P., AKSOY E. A. , ULUBAYRAM K.

46th IUPAC WORLD POLYMER CONGRESS, 17 - 21 July 2016

- IX. Synergistic effects of chemical biological and electromechanical stimulations on cardiomyogenic differentiation of BMSCs**
Öztürk Ş., Shahbazi R., GÜLTEKİNOĞLU M., ZEYBEK N. D. , AKSOY E. A. , DEMİRCİN M., ULUBAYRAM K.
TERMIS-European Chapter Meeting of the Tissue Engineering and Regenerative Medicine International Society
2016, Sweden, 28 June - 01 July 2016
- X. UV Crosslinkable PLGA b PEG Nanoparticle Integrated Gel Networks for Topical Drug Delivery**
GÜLTEKİNOĞLU M., EROĞLU İ., BAYRAM C., AKSOY E. A. , ULUBAYRAM K.
Nanotech France 2016 Conference and Exhibition, Paris, France, 1 - 03 June 2016
- XI. Elucidation of interactions between single bacterium and polycationic brushes by force microscopy**
YOO JİN O., GÜLTEKİNOĞLU M., HINTERDORFER P., DUMAN M., CATCAT D., ULUBAYRAM K.
6th Multifrequency AFM Conference, 30 March - 01 April 2016
- XII. Biodegradable Polyurethanes Extended with L Glutamic Acid Derivatives**
AKSOY E. A. , TAŞKOR G., GÜLTEKİNOĞLU M., Kara F., ULUBAYRAM K.
21st International Biomedical Science and Technology Symposium, 22 - 24 October 2015
- XIII. Nanoscale Adhesion Kinetics of Single Bacteria Polymeric Brushes via Single Cell Force Microscopy**
GÜLTEKİNOĞLU M., YOO JİN O., DUMAN M., PETER H., ULUBAYRAM K.
21st International Biomedical Science and Technology Symposium 22 - 24 October 2015, Antalya, Turkey, 22 - 24 October 2015
- XIV. Behavioural changes in donepezil loaded PLGA b PEG nanoparticles on beta amyloid 25 35 injected rat model of Alzheimer s disease**
Tel B. C. , Çınar E., Mutluay S. U. , Baysal İ., Erikçi A., Gültekinöğlü M., Ulubayram K., Yabanoğlu Çiftçi S., Uçar G.
IBRO 2015, Rio De Janeiro, Brazil, 7 - 11 July 2015, pp.55
- XV. Nanoscale Characterization of Cationic Polymeric Brushes and Bacterial Interactions Probed by Force Microscopy**
GÜLTEKİNOĞLU M., OH Y. J. , DUMAN M., Hinterdorfer P., ULUBAYRAM K.
26th European Conference on Biomaterials(ESB), 31 August - 03 September 2014
- XVI. Dynamic PEI brushes against Gram-negative bacteria species with a contact-active strategy**
GÜLTEKİNOĞLU M., Tunç Sarısözen Y., ERDOĞDU C., SAĞIROĞLU M., ULUBAYRAM K.
16. Annual Linz Winterworkshop, 30 January - 02 February 2014
- XVII. Polymeric Brushes to Develop Antibacterial Polyurethane Surfaces**
GÜLTEKİNOĞLU M., Tunç Sarısözen Y., ERDOĞDU C., SAĞIROĞLU M., ULUBAYRAM K.
European Society for Biomaterials(ESB)25th Annual Meeting, Madrid, Spain, 8 - 12 September 2013

Supported Projects

ULUBAYRAM K., GÜLTEKİNOĞLU BAYRAM M., Project Supported by Higher Education Institutions, POLİ(POLİOL)SEBAKAT BAZLI BİYOBOZUNUR ELASTOMERLERİN SENTEZİ VE JİRO EĞRİLMİŞ FİBER DESTEKLİ HİDROJEL DOKU İSKELELERİNİN GELİŞTİRİLMESİ, 2017 - 2019

EROĞLU İ., ULUBAYRAM K., AKSOY E. A. , GÜLTEKİNOĞLU BAYRAM M., ÇALAMAK S., Project Supported by Higher Education Institutions, Kombine Etkili Nanolipozomların Geliştirilmesi, 2017 - 2018

BAYRAM C., KAVAZ D., Öztürk S., GÜLTEKİNOĞLU M., Project Supported by Higher Education Institutions, YüzeYden Başlangıçlı Polimerizasyon ile Titanyum Yüzeylerde Çift Kutuplu Fosforilkolin Temelli Fırça Tipli Polimer Zincirlerinin Eldesi Karakterizasyonu ve Mineralizasyona Etkisi, 2017 - 2018

EROĞLU İ., GÜLTEKİNOĞLU M., AKSOY E. A. , ULUBAYRAM K., Project Supported by Higher Education Institutions, Topikal Nanojel Formülasyonlarının Geliştirilmesi, 2016 - 2017

GÜLTEKİNOĞLU BAYRAM M., Project Supported by Higher Education Institutions, Nanotech France 2016 Kongre katılımı ve bilişim desteği, 2016 - 2016

AKSOY E. A. , ULUBAYRAM K., GÜLTEKİNOĞLU M., TAŞKOR G., KARA F., Project Supported by Higher Education Institutions, L-Glutamik Asit Türevleri ile Düzenlenmiş Biyobozunur Poliüretanlar, 2015 - 2015

GÜLTEKİNOĞLU BAYRAM M., Project Supported by Higher Education Institutions, BİYOFİLM OLUŞUMU VE TAŞLAŞMAYA

KARŞI FIRÇA TİPİ POLİETİLENİMİN PEI İLE POLİÜRETAN PU ÜRİNER STENTLERİN MODİFİKASYONU, 2015 - 2015
AKSOY E. A. , TAŞKOR G., CANSU C., GÜLTEKİNOĞLU M., Project Supported by Higher Education Institutions, YENİ NESİL
BİYOBÖZÜNÜR POLİMERLERİN SENTEZİ VE KARAKTERİZASYONU, 2014 - 2015

Memberships / Tasks in Scientific Organizations

Biomaterials and Tissue Engineering Society, Member, 2014 - Continues, Turkey

Tissue engineering and regenerative medicine, Member, 2015 - 2019, United States Of America

Scientific Refereeing

TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, National Scientific Refreed Journal, March 2021

JOURNAL OF COLLOID AND INTERFACE SCIENCE, SCI Journal, February 2020

LANGMUIR, SCI Journal, November 2019

ACS APPLIED MATERIALS & INTERFACES, SCI Journal, July 2018

JOURNAL OF MICROENCAPSULATION, SCI Journal, August 2016

MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, SCI Journal, March 2016

Mobility Activity

Other, Research During Graduate Education, University College London, England, 2017 - 2018

Other, Research During Graduate Education, Johannes Kepler Universitaet Linz, Austria, 2014 - 2014

Erasmus Programme, Get Education, University of Malta, Malta, 2007 - 2008

Citations

Total Citations (WOS):238

h-index (WOS):9

Awards

Gültekinöglu Bayram M., Hacettepe Üniversitesi Bilim Teşvik Ödülü, Hacettepe Üniversitesi, December 2020

Gültekinöglu Bayram M., Designing and Performance of Antibacterial Polymeric Brushed Ureteral Stents In-vivo,

Biyomalzeme Ve Doku Mühendisliği Deneği, May 2017