

Lect. PhD EBRU ERDAL

Personal Information

Fax Phone: [+90 0505 563 7735](tel:+9005055637735)

Email: ebruerdal@aybu.edu.tr

Other Email: ebru.erdal.bio@gmail.com

Web: <https://avesis.aybu.edu.tr/eerdal>

International Researcher IDs

ORCID: 0000-0001-5384-5961

Yoksis Researcher ID: 200707

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., Turkey 2009 - 2015

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., Turkey 2008 - 2009

Undergraduate, Hacettepe University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 2001 - 2007

Dissertations

Doctorate, MRI KONTRAST ARTTIRICI AJAN OLARAK MAGNETOZOM VEHSA KAPLI DEMİROKSİT NANOPARTİKÜLLERİN KARŞILAŞTIRILMASI, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., 2015

Postgraduate, MANYETİK ÖZELLİKLERE SAHİP BAKTERİYEL POLYESTER ESASLI NANOKÜRELERİN HAZIRLANMASI VE KARAKTERİZASYONU, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., 2009

Research Areas

Health Sciences

Academic Titles / Tasks

Expert PhD, Ankara Yıldırım Beyazıt University, Tıp Fakültesi, 2018 - Continues

Research Assistant, Aksaray University, Faculty Of Science And Letters, Department Of Biology, 2015 - 2018

Research Assistant, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp Anabilim Dalı (Disiplinlerarası), 2007 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Tumour-specific hybrid nanoparticles in therapy of breast cancer**
Kilicay E., ERDAL E., Elci P., Hazer B., Denkbaz E.
Journal of Microencapsulation, vol.41, no.1, pp.45-65, 2024 (SCI-Expanded)
- II. Injectable nanogels to improve triamcinolone acetonide delivery and toxicity on the treatment of eye diseases**

ERDAL E.

Journal of Biomaterials Applications, 2024 (SCI-Expanded)

- III. **Ocular pharmacokinetics and toxicity of nanoparticulate acetazolamide: In vivo distribution and safety of PHBV-ACZ nanoparticle**
ERDAL E., BAKICI C., Arslan A., BATUR B., YAMAN M. E., Alçıgır M. E., AKYOL M., EKİM O., SALİH B., UĞURLU N.
International Journal of Pharmaceutics, vol.645, 2023 (SCI-Expanded)
- IV. **Biological Activities and Biocompatibility Properties of Eu(OH)₃ and Tb(OH)₃ Nanorods: Evaluation for Wound Healing Applications**
ÇİNAR AVAR E., Türkmen K. E., ERDAL E., LOĞOĞLU E., KATIRCIOĞLU H.
Biological Trace Element Research, vol.201, no.4, pp.2058-2070, 2023 (SCI-Expanded)
- V. **Evaluation of sphingolipid metabolism on diabetic retinopathy.**
Ensari Delioğlu E. N., Uğurlu N., Erdal E., Malekghasemi S., Çağıl N.
Indian journal of ophthalmology, vol.69, no.11, pp.3376-3380, 2021 (SCI-Expanded)
- VI. **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 O., 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)
- VII. **Comparison of protein- and polysaccharide-based nanoparticles for cancer therapy: synthesis, characterization, drug release, and interaction with a breast cancer cell line**
Akbal Ö., Erdal E., VURAL T., Kavaz D., DENKBAŞ E. B.
Artificial Cells, Nanomedicine and Biotechnology, vol.45, no.2, pp.193-203, 2017 (SCI-Expanded)
- VIII. **Antisense oligonucleotide delivery to cancer cell lines for the treatment of different cancer types**
Kilicay E., Erdal E., Hazer B., Türk M., DENKBAŞ E. B.
Artificial Cells, Nanomedicine and Biotechnology, vol.44, no.8, pp.1938-1948, 2016 (SCI-Expanded)
- IX. **Aligned bacterial PHBV nanofibrous conduit for peripheral nerve regeneration**
Demirbilek M., Sakar M., Karahaliloğlu Z., Erdal E., Yalcin E., Bozkurt G., KORKUSUZ P., BİLGİÇ E., TEMUÇİN Ç. M., DENKBAŞ E. B.
Artificial Cells, Nanomedicine and Biotechnology, vol.43, no.4, pp.243-251, 2015 (SCI-Expanded)
- X. **Titania nanotubes with adjustable dimensions for drug reservoir sites and enhanced cell adhesion**
Çalışkan N., BAYRAM C., Erdal E., Karahaliloğlu Z., DENKBAŞ E. B.
Materials Science and Engineering C, vol.35, no.1, pp.100-105, 2014 (SCI-Expanded)
- XI. **Preparation and characterization of magnetically responsive bacterial polyester based nanospheres for cancer therapy**
Erdal E., Kavaz D., Şam M., DEMİRBILEK M., Demirbilek M. E., SAĞLAM N., DENKBAŞ E. B.
Journal of Biomedical Nanotechnology, vol.8, no.5, pp.800-808, 2012 (SCI-Expanded)
- XII. **Oxidative stress parameters of L929 cells cultured on plasma-modified PDLLA scaffolds**
Demirbilek M. E., DEMİRBILEK 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)

Articles Published in Other Journals

- I. **Vancomycin-Loaded Gel Ocular Drug Delivery System for Treatment of Endophthalmitis**
Erdal E.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.3, pp.579-588, 2024 (Peer-Reviewed Journal)
- II. **Effectiveness of carbonic anhydrase inhibitor loaded nanoparticles in the treatment of diabetic retinopathy**
UĞURLU N., ERDAL E., Malekghasemi S., Demirbilek M.
Biomedical physics & engineering express, vol.10, no.1, 2023 (ESCI)
- III. **Preparation and Characterization of Nanoparticulate Systems For Topical Treatment of Ocular Infections**

Erdal E., Uğurlu N., Altay Y.

Hacettepe Journal of Biology and Chemistry, vol.48, no.1, pp.49-58, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **GLYCEROLDIALDEHYDE-CARBOXYMETHYL CHITOSANHYDROGELS WITH SELF-HEALING ABILITY**
BAYRAM C., ERDAL E., KILIÇAY E., KAVAZ D.
24th Biomedical Science and Technology Symposium (BIOMED2019), 17 - 20 October 2019
- II. **PLGA Based Nanoparticulate Systems For Topical Treatment of Ocular Infections**
ERDAL E., ALTAY Y., UĞURLU N.
24. Biomedical Science and Technology Symposium, 17 - 20 October 2019
- III. **DELIVERY SYSTEMS FOR USE IN TREATMENT OF UVEITIS**
Alkan F., DEMİRBILEK M., UĞURLU N., ERDAL E., ÇETİN E., TÜRKÖĞLU N., Batur B., Çakal C.
2. ULUSLARARASI ERCİYESBİLİMSEL ARAŞTIRMALAR KONGRESİ 27-29 EYLÜL 2019 KAYSERİ, 27 - 29 September 2019
- IV. **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
- V. **Comparison of Magnetosome and HSA Coated Iron Oxide Nanoparticles as MRI Contrast Enhancing Agent**
ERDAL E., DEMİRBILEK M., Yasan Y., AKBAL Ö., Laura r., bozkurt d., ÇABUK A., yasin ş., GÜMÜŞKAYA ÖCAL B., oktay A., et al.
Nanotech Italy 2015, 25 - 27 November 2015
- VI. **Bio Production of Silver Nanoparticles Using Gypsophila eriocalyx Plant Extract and Evaluation of Their Anti Microbial Activities**
AKBAL Ö., VURAL T., ERDAL E., KARABACAK O., DENKBAŞ E. B.
Nanotech Italy 2015, 25 - 27 November 2015

Supported Projects

UĞURLU N., ERDAL E., Project Supported by Higher Education Institutions, Diyabetik Retinopati Olgularında İn vivo Farmakokinetik Çalışmalar, 2020 - 2022

Erdal E., Demirbilek M., TUBITAK Project, Üveit Tedavisinde Kullanılmak Üzere Taşıyıcı Sistemler, 2018 - 2021

Uğurlu N., Çakır B., Şahin S., Özensoy Güler Ö., Erdal E., Ekim O., Çakal C., TUBITAK Project, Maküler Ödem Tedavisinde Kullanılmak Üzere Hedefe Yönelik Yeni Nesil Nanobiyoterapötiklerin Geliştirilmesi, 2018 - 2021

Erdal E., Bayram C., TUBITAK Project, Dinamik Kovalent Bağlar ile Kendi Kendini Onarma Özelliğine Sahip Hidrojellerin Sentezi, Karakterizasyonu ve Hücre Taşınım Racı Potansiyelinin Araştırılması, 2017 - 2019

Erdal E., Denkbaş E. B., Project Supported by Higher Education Institutions, MRI Kontrast Arttırıcı Ajan Olarak Magnetozom ve HSA Kaplı Demiroksit Nanopartiküllerin Karşılaştırılması, 2014 - 2015

Scientific Refereeing

AVRUPA BİLİM VE TEKNOLOJİ DERGİSİ, National Scientific Refreed Journal, August 2019

HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, National Scientific Refreed Journal, January 2019

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Journal Indexed in SCI-E, September 2018

Metrics

Publication: 23
Citation (WoS): 3
Citation (Scopus): 143
H-Index (WoS): 1
H-Index (Scopus): 6

Awards

Erdal E., Hacettepe Üniversitesi Grup Başarı Ödülü, Hacettepe Üniversitesi, October 2009

Non Academic Experience

Aksaray Üniversitesi