

## Asst. Prof. BERRİN KÜÇÜKTÜRKMEN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-1216-2020

ScopusID: 57190007532

Yoksis Researcher ID: 120750

### Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), Turkey 2008 - 2014

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Yl) (Tezli), Turkey 2005 - 2008

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 2001 - 2005

### Dissertations

Doctorate, Kan-beyin bariyerinden etken madde geçişinin artırılmasına yönelik ilaç taşıyıcı sistemlerin hazırlanması ve karakterizasyonu, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), 2014

Postgraduate, Siprofloksasin ve Hidroksipropil-beta-siklodestrin kompleksini içeren oftalmik in-situ jel formülasyonlarının geliştirilmesi ve değerlendirilmesi, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Yl) (Tezli), 2008

### Research Areas

Pharmaceutics Technology, Pharmaceutical Biotechnology, Pharmaceutical Technology

### Academic Titles / Tasks

Assistant Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2021 - Continues

Research Assistant, Ankara University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2005 - 2021

### Courses

Araştırma Projesi II, Undergraduate, 2022 - 2023, 2021 - 2022

Peptid Ve Proteinlerde Dozaj Şekli Tasarımı, Postgraduate, 2022 - 2023, 2021 - 2022

İlaç Üretimi Ve Kontrolunde Kullanılan Cihazlar , Postgraduate, 2022 - 2023, 2021 - 2022

Farmasötik Teknoloji Giriş, Undergraduate, 2022 - 2023, 2021 - 2022

Farmasötik Teknoloji II, Undergraduate, 2022 - 2023, 2021 - 2022

Farmasötik Teknoloji Uygulama II, Undergraduate, 2022 - 2023, 2021 - 2022

Sıvı İlaç Şekilleri Teknolojisi I Teorik, Postgraduate, 2022 - 2023, 2021 - 2022

Farmasötik Biyoteknolojiye Giriş Önemi Ve Uygulama Alanları, Postgraduate, 2022 - 2023, 2021 - 2022

Araştırma Projesi I, Undergraduate, 2022 - 2023, 2021 - 2022

Farmasötik Teknoloji Uygulama I, Undergraduate, 2022 - 2023, 2021 - 2022

Farmasötik Teknoloji I , Undergraduate, 2022 - 2023, 2021 - 2022

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

- I. **Design and in vitro/in vivo Evaluation of Polyelectrolyte Complex Nanoparticles Filled in Enteric-Coated Capsules for Oral Delivery of Insulin**  
Arpaç B., DEVRİM GÖKBERK B., KÜÇÜKTÜRKMEN B., ÖZAKCA GÜNDÜZ I., PALABIYIK İ. M., BOZKIR A.  
Journal of Pharmaceutical Sciences, vol.112, no.3, pp.718-730, 2023 (SCI-Expanded)
- II. **Investigation on formulation parameters of donepezil HCl loaded solid lipid nanoparticles**  
Topal G. R., Küçüktürkmen B., Öz U. C., Özkan E., Bakar Ateş F., Bozkır A.  
BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.59, no.59, pp.1-11, 2023 (SCI-Expanded)
- III. **Microfluidic-Assisted Fabrication of Dual-Coated pH-Sensitive Mesoporous Silica Nanoparticles for Protein Delivery.**  
Küçüktürkmen B., Inam W., Howaili F., Gouda M., Prabhakar N., Zhang H., Rosenholm J. M.  
Biosensors, vol.12, no.3, 2022 (SCI-Expanded)
- IV. **Development of Zoledronic Acid Containing Biomaterials for Enhanced Guided Bone Regeneration**  
KÜÇÜKTÜRKMEN B., ÖZ U. C., Toptas M., DEVRİM GÖKBERK B., SAKA O. M., Bilgili H., Deveci M. S., ÜNSAL E., BOZKIR A.  
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.110, no.9, pp.3200-3207, 2021 (SCI-Expanded)
- V. **A robust optimization approach for the breast cancer targeted design of PEtOx-b-PLA polymersomes**  
ÖZ U. C., Bolat Z. B., Ozkose U. U., Gulyuz S., KÜÇÜKTÜRKMEN B., PARLAK KHALILY M., ÖZÇUBUKÇU S., Yilmaz O., TELCİ D., ESENDAĞLI G., et al.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.123, 2021 (SCI-Expanded)
- VI. **Stimuli-Responsive, Plasmonic Nanogel for Dual Delivery of Curcumin and Photothermal Therapy for Cancer Treatment**  
Howaili F., Ozliseli E., KÜÇÜKTÜRKMEN B., Razavi S. M., Sadeghzadeh M., Rosenholm J. M.  
FRONTIERS IN CHEMISTRY, vol.8, 2021 (SCI-Expanded)
- VII. **Guided bone regeneration by the development of alendronate sodium loaded in-situ gel and membrane formulations**  
ÖZ U. C., Toptas M., KÜÇÜKTÜRKMEN B., DEVRİM GÖKBERK B., SAKA O. M., Deveci M. S., Bilgili H., ÜNSAL E., BOZKIR A.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.155, 2020 (SCI-Expanded)
- VIII. **Central Composite Design for Optimization of Zoledronic Acid Loaded PLGA Nanoparticles**  
SAKA O. M., ÖZ U. C., KÜÇÜKTÜRKMEN B., DEVRİM GÖKBERK B., BOZKIR A.  
JOURNAL OF PHARMACEUTICAL INNOVATION, vol.15, no.1, pp.3-14, 2020 (SCI-Expanded)
- IX. **Development and Optimization of Alendronate Sodium Loaded PLGA Nanoparticles by Central Composite Design**  
ÖZ U. C., KÜÇÜKTÜRKMEN B., DEVRİM GÖKBERK B., SAKA O. M., BOZKIR A.  
MACROMOLECULAR RESEARCH, vol.27, no.9, pp.857-866, 2019 (SCI-Expanded)
- X. **Design of Colloidally Stable and Non-Toxic Petox-Based Polymersomes for Cargo Molecule Encapsulation**  
ÖZ U. C., KÜÇÜKTÜRKMEN B., ÖZKÖSE U. U., Gulyuz S., Bolat Z. B., TELCİ D., ŞAHİN F., Yilmaz O., BOZKIR A.  
CHEM NANOMAT, vol.5, no.6, pp.766-775, 2019 (SCI-Expanded)
- XI. **Development and characterization of cationic solid lipid nanoparticles for co-delivery of pemetrexed and miR-21 antisense oligonucleotide to glioblastoma cells**

- KÜÇÜKTÜRKMEN B., BOZKIR A.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.44, no.2, pp.306-315, 2018 (SCI-Expanded)
- XII. **Co-delivery of pemetrexed and miR-21 antisense oligonucleotide by lipid-polymer hybrid nanoparticles and effects on glioblastoma cells**  
KÜÇÜKTÜRKMEN B., DEVRİM GÖKBERK B., SAKA O. M., Yilmaz S., Arsoy T., BOZKIR A.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.43, no.1, pp.12-21, 2017 (SCI-Expanded)
- XIII. **Thermosensitive and pH induced in situ ophthalmic gelling system for ciprofloxacin hydrochloride: Hydroxypropyl- $\beta$ -cyclodextrin complex**  
Basaran B., BOZKIR A.  
Acta Poloniae Pharmaceutica - Drug Research, vol.69, no.6, pp.1137-1147, 2012 (SCI-Expanded)
- XIV. **Effect of hydroxypropyl- $\beta$ -cyclodextrin on the solubility, stability and in-vitro release of ciprofloxacin for ocular drug delivery**  
BOZKIR A., Denli Z. F., Basaran B.  
Acta Poloniae Pharmaceutica - Drug Research, vol.69, no.4, pp.719-724, 2012 (SCI-Expanded)
- XV. **PH INDUCED IN SITU OPHTHALMIC GELLING SYSTEM FOR CIPROFLOXACIN/HP-B-CD COMPLEX**  
Basaran B., BOZKIR A.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.1, pp.111-112, 2009 (SCI-Expanded)

### Articles Published in Other Journals

- I. **PREPARATION AND IN VITRO CHARACTERIZATION OF SOLID LIPID MICROPARTICLES FOR PROTEIN DELIVERY PROTEİN VERİLİSİ İÇİN KATI LİPİT MİKROPARTİKÜLLERİN HAZIRLANMASI VE İN VİTRO KARAKTERİZASYONU**  
KÜÇÜKTÜRKMEN B., ÖZ U. C., BOZKIR A.  
Ankara Üniversitesi Eczacılık Fakultesi Dergisi, vol.46, no.3, pp.872-882, 2022 (Scopus)
- II. **Drugs subject to special storage conditions or cold chain and evaluation in terms of applications**  
Özel saklama koşulu gerektiren veya soğuk zincire tabi ilaçlar ve uygulamalar açısından değerlendirilmeler  
KÜÇÜKTÜRKMEN B., BOZKIR A.  
Turk Hijyen ve Deneysel Biyoloji Dergisi, vol.75, no.3, pp.305-322, 2018 (Scopus)
- III. **In Situ Hydrogel Formulation for Intra-Articular Application of Diclofenac Sodium-Loaded Polymeric Nanoparticles**  
KÜÇÜKTÜRKMEN B., ÖZ U. C., BOZKIR A.  
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.14, no.1, pp.56-64, 2017 (ESCI)
- IV. **Lubricant efficiency of magnesium stearate in direct compressible powder mixtures comprising cellactose®80 and pyridoxine hydrochloride**  
YÜKSEL N., Türkmen B., ALGAN A. H., Başaran B., Erkin J., Baykara T.  
Fabad Journal of Pharmaceutical Sciences, vol.32, no.4, pp.173-183, 2007 (Scopus)

### Books & Book Chapters

- I. **Mesoporous Silica Nanoparticles as Carriers for Biomolecules in Cancer Therapy**  
KÜÇÜKTÜRKMEN B., ROSENHOLM J.  
in: Bio-Nanomedicine for Cancer Therapy, Fontana Flavia, Santos Hélder A., Editor, Springer Nature Switzerland AG 2021, pp.99-120, 2021
- II. **Biyobenzer Ürünler, Genel Bakış ve Kılavuzlar Doğrultusunda Değerlendirmeler**  
Topal G. R., Küçüktürkmen B., Bozkır A.  
in: Eczacılıkta Yenilikler 3, Gülbün Özçelikay, İlkay Yıldız, Editor, Ankara Üniversitesi, Ankara, pp.359-370, 2020
- III. **Aşı Lojistiği ve Soğuk Zincir**

- Küçüktürkmen B., Bozkır A.  
in: AŞİ Akademik, Endüstriyel ve Resmi Otorite Yönüyle, Sevda Şenel, M. Kürşat Derici, Editor, Hipokrat yayınevi, Ankara, pp.141-146, 2019
- IV. A new approach for drug targeting to the central nervous system: Lipid nanoparticles**  
KÜÇÜKTÜRKMEN B., BOZKIR A.  
in: Nanoarchitectonics in Biomedicine, Alexandru Mihai Grumezescu, Editor, elsevier, bükreş, pp.335-369, 2019

### Refereed Congress / Symposium Publications in Proceedings

- I. **Development and Evaluation of Nanoparticulate Prototype Vaccine Formulations Against COVID-19**  
Sena A., Küçüktürkmen B., Öz U. C., Bozkır A.  
4. ULUSLARARASI AŞİ BİLİMİ KONGRESİ, Ankara, Turkey, 03 November 2022
- II. **Ayçiçek S, Küçüktürkmen B, Can Öz U, Ensoy M, Cansaran D, Bozkır A. Development and evolution of nanoparticulate prototype vaccine formulations against COVID-19.** 3-5 Kasım 2022, Ankara, Türkiye.  
ayçiçek s., KÜÇÜKTÜRKMEN B., Öz C., ENSOY M., CANSARAN DUMAN D., BOZKIR A.  
4. Uluslararası Aşı Bilimi Kongresi, Turkey, 03 November 2022
- III. **PREPARATION AND IN VITRO EVALUATION OF APO-E MODIFIED SOLID LIPID NANOPARTICLES FOR DELIVERY OF HUMANIN PEPTIDE**  
TOPAL G. R., MÉSZÁROS M., PORKOLÁB G., SZECSKÓ A., KÜÇÜKTÜRKMEN B., ÖZ U. C., DELI M., VESZELKA S., BOZKIR A.  
13th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 22 - 25 June 2021
- IV. **Polyelectrolyte Complex Nanoparticles-Filled Enteric-coated Capsules for Oral Insulin Delivery**  
Devrim Gökberk B., Arpaç B., Küçüktürkmen B., Özakça Gündüz I., Bozkır A.  
13th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 22 - 25 June 2021, pp.29-30
- V. **Development and in vitro/in vivo evaluation of a gelling system comprising bisphosphonate loaded plga nanoparticles for guided bone regeneration**  
ÖZ U. C., KÜÇÜKTÜRKMEN B., topbaş m., SAKA O. M., DEVRİM B., DEVECİ M. S., ÜNSAL E., BOZKIR A.  
8th BBBB international Conference on Pharmaceutical Scieneces, İzmir, Turkey, 14 - 16 October 2019
- VI. **Nanocarrier-mediated co-delivery of pemetrexed and miR-21 antisense oligonucleotide for glioblastoma treatment**  
KÜÇÜKTÜRKMEN B., SAKA O. M., DEVRİM B., YILMAZ Ş., ARSOY T., BOZKIR A.  
GPSS 2017, Ankara, Turkey, 11 - 13 October 2017
- VII. **IN-VITRO CHARACTERISATION OF PEPTIDE-563 CONJUGATED LIPOSOMES**  
SAKA O. M., ÖZ U. C., KÜÇÜKTÜRKMEN B., BOZKIR A.  
GPSS 2017, Ankara, Turkey, 11 - 13 October 2017
- VIII. **Characterisation and Evaluation of Targeted Liposomes. I- In vitro studies**  
SAKA O. M., ÖZ U. C., KÜÇÜKTÜRKMEN B., Gülyüz S., Özgür Y., BOZKIR A.  
BBBB International Conference on Pharmaceutical Sciences, 5 - 07 October 2017
- IX. **Development and in vitro / in vivo evaluation of bisphosphonate loaded membranes for guided bone regeneration**  
ÖZ U. C., KÜÇÜKTÜRKMEN B., SAKA O. M., DEVRİM B., topbaş m., ÖZDEMİR Ö., bilgili h., DEVECİ M. S., ÜNSAL E., BOZKIR A.  
12th International symposium on pharmaceutical sciences, Ankara, Turkey, 26 - 29 June 2018
- X. **Co-delivery of Pemetrexed and miR-21 Antisense Oligonucleotide by Cationic Solid Lipid Nanoparticles and Effects on Glioblastoma Cells**  
KÜÇÜKTÜRKMEN B., BOZKIR A.  
BIOMED 2017, Ankara, Turkey, 12 - 14 May 2017
- XI. **Preparation and Evaluation of Cationic Liposomes for Cancer Treatment**  
SAKA O. M., KÜÇÜKTÜRKMEN B., BOZKIR A.

- 22nd International Symposium on Biomedical Science and Technology, 12 - 14 May 2017
- XII. **Preparation and evaluation of zolendronic acid loaded PLGA nanoparticles**  
DEVRİM B., SAKA O. M., öz u. c., KÜÇÜKTÜRKMEN B., BOZKIR A.  
arhiv za farmaciju, 22 - 24 September 2016
- XIII. **Preparation and Evaluation of Zoledronic Acid Loaded PLGA Nanoparticles**  
DEVRİM B., SAKA O. M., ÖZ U. C., KÜÇÜKTÜRKMEN B., BOZKIR A.  
11th Central European Symposium on Pharmaceutical Technology, 22 - 24 September 2016
- XIV. **Evaluation of Nanoparticle Production Process via central composite design for efficient zolendronik acid delivery**  
umut can o., KÜÇÜKTÜRKMEN B., SAKA O. M., DEVRİM B., BOZKIR A.  
AAPS Annual Meeting and Exposition, 25 - 29 October 2015
- XV. **Evaluation of nanoparticle production process via central composite design for efficient zoledronic acid delivery**  
ÖZ U. C., KÜÇÜKTÜRKMEN B., SAKA O. M., DEVRİM B., BOZKIR A.  
AAPS Annual Meeting and Exposition, 25 - 29 October 2015
- XVI. **Optimization of Alendronat Sodium Loaded Nanoparticle Formulation for Higher Efficiency**  
kuçukturkmen B., umut can o., DEVRİM B., SAKA O. M., BOZKIR A.  
AAPS Annual Meeting and Exposition, 25 - 29 October 2015
- XVII. **Optimization of alendronate sodium loaded nanoparticle formulation for higher efficiency**  
KÜÇÜKTÜRKMEN B., ÖZ U. C., DEVRİM B., SAKA O. M., BOZKIR A.  
AAPS Annual Meeting and Exposition, 25 - 29 October 2015
- XVIII. **Polymeric Nanoparticles for Intra Articular Application of Diclofenac Sodium**  
ÇANKAYA Z. A., YILMAZ E., KÜÇÜKTÜRKMEN B., ÖZ U. C., BOZKIR A.  
11th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 9 - 12 June 2015
- XIX. **Preparation and characterization of microRNA 21 antisense oligonucleotide and anticancer drug loaded lipid polymer hybrid nanoparticles and antitumor effects on glioblastoma cells**  
KÜÇÜKTÜRKMEN B., DEVRİM B., SAKA O. M., YILMAZ Ş., ARSOY T., BOZKIR A.  
AAPS Annual Meeting and Exposition, 2 - 06 November 2014
- XX. **The effect of high pressure homogenization process on the particle size of solid lipid nanoparticles**  
KÜÇÜKTÜRKMEN B., BOZKIR A.  
16th International Pharmaceutical Technology Symposium, Antalya, Turkey, 10 - 12 September 2012
- XXI. **Partial least squares and principal component regression for the simultaneous quantitative estimation of diphenhydramine hydrochloride in dry powder and syrup forms in the presence of excipient effects**  
DEVRİM B., KÜÇÜKTÜRKMEN B., DİNÇ E., BOZKIR A.  
1st International Conference on New Trends in Chemometrics and Applications, 8 - 11 October 2011
- XXII. **Thermoreversible In Situ Gelling Solutions for Ophthalmic Delivery of Pilocarpine Hydrochloride**  
ANASIZ Y., KÜÇÜKTÜRKMEN B., BOZKIR A.  
3rd PharmSciFair, PRAG, Czech Republic, 13 - 17 June 2011
- XXIII. **pH induced in situ ophthalmic gelling system for ciprofloxacin HP & CD complex**  
BAŞARAN B., BOZKIR A.  
3rd BBBB International Conference on Pharmaceutical Sciences, Antalya, Turkey, 26 - 28 October 2009
- XXIV. **The preparation and characterization of poly lactide co glycolide microspheres containing ovalbumin**  
BOZKIR A., BAŞARAN B., SELİN Ç., DUYGU H., AMASYA G.  
9th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 23 - 26 June 2009
- XXV. **A study on lubricant efficiency of magnesium stearate in direct compressible powder mixtures**  
YÜKSEL N., TÜRKMEN B., KURTOĞLU A. H., BAŞARAN B., ERKİN J., BAYKARA T.  
9th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 23 - 26 June 2009
- XXVI. **Thermosensitive prolonged release ophthalmic gel for ciprofloxacin HP & CD complex**  
BAŞARAN B., BOZKIR A.

## Supported Projects

Küçüktürkmen B., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Rumatid Artrit Tedavisinde Kullanılmak Üzere Nanoteknolojik İlaç Taşıyıcı Sistemlerin Geliştirilmesi, 2023 - 2025

Küçüktürkmen B., Bozkır A., Öz U. C., Kurter S., Ayçiçek S., Project Supported by Higher Education Institutions, İleri Teknoloji Protein Taşıyıcı Formülasyonlarının Geliştirilmesi, 2022 - 2024

Öz U. C., Bozkır A., Küçüktürkmen B., Bakar Ateş F., TUBITAK Project, Alzheimer Hastalığı Tedavisine Yönelik Humanin İçeren Lipit Nanopartikül Formülasyonlarının Hazırlanması, İn-Vitro ve İn-Vivo Değerlendirilmesi, 2019 - 2021

Bozkır A., Devrim Gökberk B., KÜÇÜKTÜRK MEN B., TUBITAK Project, Oral İnsülin Verilişi İçin Protamin Bazlı Nanopartiküllerİ İçeren Enterik Kaplı Kapsüllerin Hazırlanması, İn Vitro ve İn Vivo Değerlendirilmesi, 2017 - 2019

Devrim Gökberk B., Saka O. M., Bozkır A., Ünsal E., KÜÇÜKTÜRK MEN B., TUBITAK Project, Bifosfonat Yüklü Membran ve in situ Jel Formülasyonlarının Yönlendirilmiş Kemik Rejenerasyonu Üzerine Etkisinin in vitro ve in vivo Değerlendirilmesi, 2013 - 2015

Saka O. M., Devrim Gökberk B., Küçüktürkmen B., Bozkır A., Project Supported by Higher Education Institutions, Kan beyin bariyerinde etkin madde geçişinin artırılmasına yönelik ilaç taşıyıcı sistemlerin hazırlanması ve karakterizasyonu, 2012 - 2014

## Metrics

Publication: 49

Citation (WoS): 195

Citation (Scopus): 251

H-Index (WoS): 8

H-Index (Scopus): 10