

## Personal Information

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## International Researcher IDs

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ScopusID: 13205091800

Yoksis Researcher ID: 51776



## Education Information

Doctorate, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ,

Farmasötik Teknoloji (Dr), Turkey 1998 - 2005

Postgraduate, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ,

Farmasötik Teknoloji (YI) (Tezli), Turkey 1995 - 1998

Undergraduate, Anadolu University, ECZACILIK FAKÜLTESİ, Eczacılık Pr.,  
Turkey 1990 - 1995

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Farmasötik biyoteknolojide gen tedavisi amaçlı plazmit DNA taşıyıcı katyonik katı-lipit nano-veya mikropartiküllerin hazırlanması çalışmaları, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmasötik Teknoloji (Dr), 2005

Postgraduate, Zizyphus jujuba (Hünnap) bitkisinin S/Y emülsiyon sistemi halinde formülasyonu ve değerlendirilmesi, Anadolu University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Farmasötik Teknoloji (YI) (Tezli), 1998

## Research Areas

Pharmaceutical Biotechnology, Pharmaceutical Technology

## Academic Titles / Tasks

Associate Professor, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK TEKNOLOJİSİ BÖLÜMÜ, 2018 - Continues

Assistant Professor, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK TEKNOLOJİSİ BÖLÜMÜ, 2008 - 2018

Lecturer, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK TEKNOLOJİSİ BÖLÜMÜ, 2005 - 2008

Research Assistant, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK TEKNOLOJİSİ BÖLÜMÜ, 1997 - 2005

## Academic and Administrative Experience

Anadolu University, 2006 - Continues

Anadolu University, 2011 - 2012

## Courses

İMMÜNÖTERAPÖTİK ÜRÜNLER VE TEKNOLOJİSİ, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

FARMASÖTİK BİYOTEKNOLOJİDE HEDEFLERİ YÖNTEMLERİ, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

ANTİSENS TEKNOLOJİSİ VE İNOVATİF YAKLAŞIMLAR, Postgraduate, 2017 - 2018

Biyobenzer Ürünler ve Ruhsatlandırıl. Genel Uygulamalar, Postgraduate, 2017 - 2018

FARMASÖTİK BİYOTEKNOLOJİ ÜRÜNLERİ VE UYGULAMA ALANLARI, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2007 - 2008

SEMİNER, Postgraduate, 2017 - 2018, 2016 - 2017, 2011 - 2012

MEZUNİYET PROJESİ I, Undergraduate, 2017 - 2018, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010

ONAYLI REKOMBİNANT ANTİKORLAR, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

TEZ, Postgraduate, 2017 - 2018, 2016 - 2017, 2012 - 2013, 2011 - 2012

DNA AŞILARI VE VİRAL VEKTÖRLER, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

PEPTİT VE PROTEİN YAPILI İLAÇLAR VE FARMAKOKİNETİKLERİ, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2011 - 2012, 2010 - 2011

UZMANLIK ALAN DERSİ, Postgraduate, 2017 - 2018, 2016 - 2017, 2012 - 2013, 2011 - 2012

Antisens Teknolojisi ve İnovatif Yaklaşımlar, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Mezuniyet Projesi, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Farmasötik Biyoteknoloji, Undergraduate, 2015 - 2016, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Protein/Peptit Dozaj Şekli Tasarımı ve Kontrolü, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Aşılar ve Üretim Teknolojileri, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Farmasötik Biyoteknoloji, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Farmasötik Biyoteknolojide Modern Taşıyıcı Sistemler, Undergraduate, 2014 - 2015

Hastane Eczanesi Teknikerliği, Undergraduate, 2013 - 2014

İmmünoterapötik İlaçlar ve Teknolojisi, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012

Farmasötik Biyoteknoloji Ürünler ve Uygulama İlkeleri, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

İlaç Taşıyıcı sistem Tasarımı Ve Değerlendirilmesi , Postgraduate, 2012 - 2013

Farmasötik Biyoteknolojide Üretim Ve Uygulama İlkeleri, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011

Mezuniyet Projesi II, Undergraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010

Eczane Hizmetleri İlkeleri ve Etik Kuralı, Undergraduate, 2012 - 2013

Hücre İçine İlaç Taşıyıcı Sistem Tasarımı, Undergraduate, 2012 - 2013, 2011 - 2012

Mesleki İngilizce, Associate Degree, 2011 - 2012

Biyoteknoloji ve Biyogüvenlik, Associate Degree, 2011 - 2012

Modern ilaç Taşıyıcı Sistemler, Postgraduate, 2011 - 2012

Mesleki İngilizce, Undergraduate, 2011 - 2012

Modern İlaç Taşıyıcı Sistemler, Doctorate, 2011 - 2012

Peptit ve Protein Yapılı İlaçlar, Postgraduate, 2011 - 2012, 2010 - 2011

Biyoteknoloji ve Biyogüvenlik, Undergraduate, 2011 - 2012  
Hastane Eczacılığı, Undergraduate, 2011 - 2012  
Eczacılık Mevzuatı, Undergraduate, 2010 - 2011, 2006 - 2007  
Akıllı İlaç Taşıyıcı Sistemler, Undergraduate, 2010 - 2011  
Pharmaceutical Thecnology I, Undergraduate, 2010 - 2011  
Farmasötik Teknoloji Uygulamaları III, Undergraduate, 2010 - 2011, 2009 - 2010, 2007 - 2008, 2006 - 2007, 2005 - 2006  
İlaç Araştırma-Geliştirme Laboratuvar Disiplini , Undergraduate, 2010 - 2011  
Pharmaceutical Technology I, Undergraduate, 2010 - 2011  
Farmasötik Teknoloji Uygulamaları II, Undergraduate, 2009 - 2010, 2007 - 2008, 2006 - 2007, 2005 - 2006  
Farmasötik Teknoloji Uygulamaları IV, Undergraduate, 2009 - 2010, 2007 - 2008, 2006 - 2007, 2005 - 2006  
Farmasötik Biyoteknolojiye Başlangıç, Undergraduate, 2009 - 2010, 2007 - 2008, 2006 - 2007  
Farmasötik Biyoteknolojinin Esasları, Undergraduate, 2007 - 2008  
Farmasötik Teknoloji Uygulamaları I, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006

## Advising Theses

Büyükköroğlu G., Development and evaluation of multiferroic nanoparticle-based drug delivery system, Doctorate, G.SEVİM(Student), 2023  
Büyükköroğlu G., Preparation and characterization of in situ gelling system containing meis protein inhibitor loaded albumin nanoparticles and iRGD peptide, Postgraduate, G.DEĞER(Student), 2021  
GÜLAY B., Kurkumin içeren yara iyi edici sistem geliştirmek için bakteriden polihidroksialkanoatlar (PHA)'ın üretilmesi, Postgraduate, B.LATİFE(Student), 2020  
GÜLAY B., Development and Evaluation of Multiferroic Nanoparticle-Based Drug Delivery System, Doctorate, G.SEVİM(Student), 2020  
GÜLAY B., Bacillus suşu kullanılarak kısa zincir uzunluğunda (SCL) polihidroksialkanoat (PHS) sentezi, karakterizasyonu ve kollajen ile formülasyonu, Postgraduate, M.YILMAZ(Student), 2020  
GÜLAY B., Gen taşıyıcı sistem olarak hdl (Yüksek-yoğunluklu lipoprotein) mikro-ve nanopartiküllerinin hazırlanması, Postgraduate, R.MASIMOV(Student), 2019  
Büyükköroğlu G., Development and evaluation of venetoclax and siRNA loaded albumin based carrier systems, Postgraduate, B.ÇALIŞKAN(Student), 2019  
Büyükköroğlu G., DEVELOPMENT OF ALTERNATIVE GEL FORMULATION FOR REPAIRING CARTILAGE TISSUE DAMAGE, Postgraduate, M.BEKİROĞLU(Student), 2019  
Büyükköroğlu G., siRNA yüklü albumin taşıyıcı sistemlerin inhaler uygulama için geliştirilmesi ve değerlendirilmesi, Postgraduate, S.ALAGÖZ(Student), 2019  
Büyükköroğlu G., Micro- and nanoparticles that will be used for pharmaceutical purpose, are attached to antibody and research of their efficiencies, Postgraduate, S.GEZGİN(Student), 2013  
Yazan E. Y., Büyükköroğlu G., Developing and evaluating studies on sirna delivery systems, Doctorate, B.ŞENEL(Student), 2012

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

- I. **HDL-Chitosan Nanoparticles for siRNA Delivery as an SR-B1 Receptor Targeted System**  
Masimov R., Büyükköroğlu G.  
Combinatorial Chemistry & High Throughput Screening, vol.26, pp.2541-2553, 2023 (SCI-Expanded)
- II. **Formulation and characterization studies of inclusion complexes of voriconazole for possible ocular application**  
BAŞARAN E., AYKAÇ K., Yenilmez E., BÜYÜKKÖROĞLU G., TUNALI Y., DEMİREL M.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.27, no.2, pp.228-241, 2022 (SCI-Expanded)
- III. **Preparation and Characterization of Palladium Derivate-Loaded Micelle Formulation in Vitro as an**

### **Innovative Therapy Option against Non-Small Cell Lung Cancer Cells**

Erkisa M., ARI F., BÜYÜKKÖROĞLU G., ŞENEL B., YILMAZ V. T., ULUKAYA E.

CHEMISTRY & BIODIVERSITY, vol.18, no.9, 2021 (SCI-Expanded)

- IV. **Anticancer Potential of Albumin Bound Wnt/beta-Catenin Pathway Inhibitor Niclosamide in Breast Cancer Cells**  
ARI F., Erkisa M., Pekel G., Erturk E., BÜYÜKKÖROĞLU G., ULUKAYA E.  
CHEMISTRYSELECT, vol.6, no.29, pp.7463-7475, 2021 (SCI-Expanded)
- V. **Moxifloxacin Hydrochloride-Loaded Eudragit (R) RL 100 and Kollidon (R) SR Based Nanoparticles: Formulation, In vitro Characterization and Cytotoxicity**  
YURTDAS KIRIMLIOĞLU G., ÖZER S., BÜYÜKKÖROĞLU G., Yazan Y.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, vol.24, no.3, pp.328-341, 2021 (SCI-Expanded)
- VI. **Graphene quantum dots: Synthesis, characterization, cell viability, genotoxicity for biomedical applications**  
ŞENEL B., DEMİR N., BÜYÜKKÖROĞLU G., Yildiz M.  
SAUDI PHARMACEUTICAL JOURNAL, vol.27, no.6, pp.846-858, 2019 (SCI-Expanded)
- VII. **Spray-dried Ketoprofen Lysine-incorporated PLGA Nanoparticles; Formulation, Characterization, Evaluation and Cytotoxic Profile**  
Elmaskaya A., ÖZTÜRK A. A., BÜYÜKKÖROĞLU G., Yenilmez E.  
INDIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.81, no.4, pp.640-650, 2019 (SCI-Expanded)
- VIII. **Vaginal Suppositories with siRNA and Paclitaxel-Incorporated Solid Lipid Nanoparticles for Cervical Cancer: Preparation and In Vitro Evaluation**  
BÜYÜKKÖROĞLU G., ŞENEL B., Yenilmez E.  
RNA INTERFERENCE AND CANCER THERAPY: METHODS AND PROTOCOLS, vol.1974, pp.303-328, 2019 (SCI-Expanded)
- IX. **Formulation and In Vitro Evaluation of Moxifloxacin Hydrochloride-Loaded Polymeric Nanoparticles for Ocular Application**  
YURTDAS KIRIMLIOĞLU G., ÖZER S., BÜYÜKKÖROĞLU G., Yazan Y.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.37, no.9, pp.1850-1862, 2018 (SCI-Expanded)
- X. **Techniques for Protein Analysis**  
BÜYÜKKÖROĞLU G., DEMİR DORA D., ÖZDEMİR F., Hizel C.  
OMICS TECHNOLOGIES AND BIO-ENGINEERING: TOWARDS IMPROVING QUALITY OF LIFE, VOL 1: EMERGING FIELDS, ANIMAL AND MEDICAL BIOTECHNOLOGIES, pp.317-351, 2018 (SCI-Expanded)
- XI. **Nanocarriers for Vaccine and Gene Delivery Application**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
MULTIFUNCTIONAL NANOCARRIERS FOR CONTEMPORARY HEALTHCARE APPLICATIONS, pp.381-414, 2018 (SCI-Expanded)
- XII. **Engineering Monoclonal Antibodies: Production and Applications**  
BÜYÜKKÖROĞLU G., ŞENEL B.  
OMICS TECHNOLOGIES AND BIO-ENGINEERING: TOWARDS IMPROVING QUALITY OF LIFE, VOL 1: EMERGING FIELDS, ANIMAL AND MEDICAL BIOTECHNOLOGIES, pp.353-389, 2018 (SCI-Expanded)
- XIII. **Preparation and In Vitro Evaluation of DNA-Bonded Polymeric Nanoparticles as New Approach for Transcutaneous Vaccination**  
BÜYÜKKÖROĞLU G., ŞENEL B., Karabacak R. B.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.36, no.4, pp.730-739, 2017 (SCI-Expanded)
- XIV. **Preparation and in vitro evaluation of vaginal formulations including siRNA and paclitaxel-loaded SLNs for cervical cancer**  
BÜYÜKKÖROĞLU G., ŞENEL B., BAŞARAN E., Yenilmez E., Yazan Y.  
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.109, pp.174-183, 2016 (SCI-Expanded)
- XV. **The simultaneous delivery of paclitaxel and Herceptin (R) using solid lipid nanoparticles: In vitro evaluation**  
BÜYÜKKÖROĞLU G., ŞENEL B., Gezgin S., Tan Dinh T. D.

- JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.35, pp.98-105, 2016 (SCI-Expanded)
- XVI. **Development of paclitaxel-loaded liposomal systems with anti-her2 antibody for targeted therapy**  
BÜYÜKKÖROĞLU G., ŞENEL B., BAŞARAN E., Gezgin S.  
TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH, vol.15, no.5, pp.895-903, 2016 (SCI-Expanded)
- XVII. **Preparation and physicochemical characterizations of solid lipid nanoparticles containing DOTAP for DNA delivery**  
BÜYÜKKÖROĞLU G., YAZAN E. Y., Oner A. F.  
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.5, pp.1012-1024, 2015 (SCI-Expanded)
- XVIII. **Chitosan nanoparticles for ocular delivery of cyclosporine A**  
BAŞARAN E., Yenilmez E., BERKMAN M. S., BÜYÜKKÖROĞLU G., Yazan Y.  
JOURNAL OF MICROENCAPSULATION, vol.31, no.1, pp.49-57, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Formulation and Characterization Studies of Paclitaxel Incorporated Kollidon® Sr and Chitosan Nanoparticles: An In Vitro Evaluation For Potential Use for Colorectal Cancer Treatment**  
Koca Ö. A., Büyükköroğlu G., Başaran E.  
Letters in Drug Design and Discovery, vol.1, no.1, pp.1386-1398, 2023 (Peer-Reviewed Journal)
- II. **Development of Solid Lipid Gene Delivery System**  
BÜYÜKKÖROĞLU G.  
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.13, no.2, pp.249-258, 2016 (Scopus)
- III. **Development of solid lipid gene delivery system Katı lipit gen taşıyıcı sistem geliştirilmesi**  
BÜYÜKKÖROĞLU G.  
Turkish Journal of Pharmaceutical Sciences, vol.13, no.2, pp.249-258, 2016 (Scopus)
- IV. **Paclitaxel loaded cationic solid lipid nanoparticle formulation, preparation and evaluation**  
ÖZTÜRK A. A., ŞENEL B., YENİLMEZ E., BAŞARAN E., BÜYÜKKÖROĞLU G.  
JOURNAL OF NANOMEDICINE AND NANOTECHNOLOGY, vol.5, no.5, pp.202, 2014 (Peer-Reviewed Journal)
- V. **Enhanced Bioavailability of Cinnarizine Using Solid Dispersion: In Vitro and In Vivo Evaluation**  
Demirel M., BÜYÜKKÖROĞLU G., SIRMAGÜL B., Kalava B. S., Ozturk N., Yazan Y.  
CURRENT DRUG THERAPY, vol.9, no.4, pp.294-301, 2014 (ESCI)
- VI. **Enhancement of the Ocular Bioavailability of Cyclosporine A by Cationic Polymeric Nanoparticles**  
BAŞARAN E., YENİLMEZ E., BÜYÜKKÖROĞLU G., BERKMAN M. S., YAZAN E. Y.  
JOURNAL OF BIOEQUIVALENCE AND BIOAVAILABILITY, vol.5, no.3, pp.45, 2013 (Peer-Reviewed Journal)
- VII. **Development and Evaluation of a Cosmetic W O Emulsion System Containing a Model Plant Extract**  
BÜYÜKKÖROĞLU G., YAZAN E. Y.  
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.1, no.1, pp.31-46, 2004 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Nucleic Acid-Loaded Nanomedicines with Enhanced Anticancer Potential**  
Şenel B., Büyükköroğlu G.  
in: Bioactive-Loaded Nanomedicine for the Management of Health and Disease, Mahfoozur Rahman, Sarwar Beg, Khalid S. Alharbi, Waleed Hassan Almalki, Nabil K. Alruwaili, Majed Al Robaian, Editor, CRC, New York, Burlington, pp.37-60, 2023
- II. **Biotechnology in cosmetics**  
BÜYÜKKÖROĞLU G., ŞENEL B., SEVİM G.  
in: Biotechnology in Healthcare, Volume 2: Applications and Initiatives, Barh, Debmalya, Editor, Elsevier, Oxford, pp.273-287, 2022
- III. **Biotechnology in cosmetics**

ŞENEL B., BÜYÜKKÖROĞLU G., SEVİM G.

in: Biotechnology in Healthcare, Volume 2: Applications and Initiatives, Debmalya Bahr, Editor, Elsevier, pp.273-288, 2022

- IV. **Biotechnology applications in clinical trials**  
BÜYÜKKÖROĞLU G., ŞENEL B., ŞALVA E., Çalışkan B.  
in: Biotechnology in Healthcare, Volume 2: Applications and Initiatives, Debmalya Bahr, Editor, Elsevier, pp.163-196, 2022
- V. **Nucleic Acid-Loaded Nanomedicines with Enhanced**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
in: BIOACTIVE-LOADED NANOMEDICINE FOR THE MANAGEMENT OF HEALTH AND DISEASE, Mahfoozur Rahman, Sarwar Beg, Khalid S. Alharbi, Waleed Hassan Almalki, Nabil K. Alruwaili, Majed Al Robaian, Editor, Apple Academic Press Inc, Burlington, pp.37-59, 2022
- VI. **Biotechnology applications in clinical trials**  
BÜYÜKKÖROĞLU G., ŞENEL B., ŞALVA E., Çalışkan B.  
in: Biotechnology in Healthcare, Volume 2: Applications and Initiatives, Barh, Debmalya, Editor, Elsevier, Oxford, pp.163-216, 2022
- VII. **Vaginal Suppositories with siRNA and Paclitaxel-Incorporated Solid Lipid Nanoparticles for Cervical Cancer: Preparation and In Vitro Evaluation**  
BÜYÜKKÖROĞLU G., ŞENEL B., YENİLMEZ E.  
in: RNA Interference and Cancer Therapy, Kumar, Lekha Dinesh, Editor, springer, pp.303-328, 2019
- VIII. **Techniques for Protein Analysis**  
BÜYÜKKÖROĞLU G., DEMİR DORA D., ÖZDEMİR F., Hızıl C.  
in: Omics Technologies and Bio-engineering Volume 1 :Towards Improving Quality of Life, Debmalya Barh and Vasco Azevedo,, Editor, Elsevier Inc., Academic Press, pp.317-352, 2018
- IX. **Techniques for Protein Analysis**  
BÜYÜKKÖROĞLU G., DEMİR DORA D., ÖZDEMİR F., HIZEL C. H.  
in: Omics Technologies and Bio-engineering Volume 1: Towards Improving Quality of Life, Debmalya Barh and Vasco Azevedo, Editor, Elsevier Inc Academic Press, pp.317-352, 2018
- X. **Biyolojik ve Biyoteknolojik Ürünler Çalışma Grubu (Analiz Yöntemleri-Konak Hücre Protein Tayini İşlemleri)**  
ŞENEL S., BOZKIR A., ÖNER A. F., KARAAĞAOĞLU A. E., KANTARCI A. G., VURAL İ., ALPAR C. R., GÜRSOY R. N., bilge dağalap s., GÜRHAN S. İ., et al.  
in: Türk Farmakopesi 2017, Türkiye İlaç ve Tıbbi Cihaz Kurumu Yayın Komisyonu (Dr. Ali Alkan, Eray Kaplan, Oğuzhan Koyuncu, Selin Ergün Ayan, Editor, T.C. Sağlık Bakanlığı, Türkiye İlaç ve Tıbbi Cihaz Kurumu, Artı 6 Matbaa Ltd. Sti., Ankara, pp.267-272, 2018
- XI. **Engineering Monoclonal Antibodies: Production and Applications**  
BÜYÜKKÖROĞLU G., ŞENEL B.  
in: Omics Technologies and Bio-engineering Volume 1 :Towards Improving Quality of Life, Debmalya Barh and Vasco Azevedo, Editor, Elsevier Inc., Academic Press, pp.353-390, 2018
- XII. **Nanocarriers for Vaccine and Gene Delivery Application**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
in: Multifunctional Nanocarriers for Contemporary Healthcare Applications, Md. Abul Barkat , Harshita A.B. , Sarwar Beg and Farhan J. Ahmad, Editor, IGI GLOBAL, pp.381-414, 2018
- XIII. **Nanocarriers for Vaccine and Gene Delivery Application**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
in: Multifunctional Nanocarriers for Contemporary Healthcare Applications, Abul Barkat, Harshita A.B., Sarwar Beg and Farhan J. Ahmad, Editor, IGI Global, pp.381-414, 2018
- XIV. **Engineering Monoclonal Antibodies: Production and Applications**  
BÜYÜKKÖROĞLU G., ŞENEL B.  
in: OMICS TECHNOLOGIES AND BIO-ENGINEERING: Towards Improving Quality of Life, Debmalya Barh, Vasco Azevedo, Editor, Elsevier, pp.353-389, 2018

**XV. Breast Cancer Gene Therapy**

BÜYÜKKÖROĞLU G., ABBASOĞLU D., HIZEL C.

in: OMICS APPROACHES IN BREAST CANCER Towards Next Generation Diagnosis Prognosis and Therapy, Debmalya Barh, Editor, Springer, pp.519-534, 2014

**Refereed Congress / Symposium Publications in Proceedings**

- I. **A MOBILE APPLICATION TO THEORETICALLY CALCULATE THE PHYSICAL PROPERTIES OF MAGNETO-ELECTRIC EFFECT NANOSTRUCTURES THAT CAN TARGET TO CANCER CELLS**  
SEVİM G., BÜYÜKKÖROĞLU G.  
ASES III. INTERNATIONAL HEALTH, ENGINEERING AND SCIENCES CONFERENCE, Çanakkale, Turkey, 14 October 2022, pp.115-122
- II. **PH STANDARDIZATION FOR THE SYNTHESIS OF MAGNETIC NANOSTRUCTURES USED IN TARGETED DRUG DELIVERY SYSTEMS**  
SEVİM G., BÜYÜKKÖROĞLU G.  
5th International Congress Of Multidisciplinary Studies In Medical Sciences, Ankara, Turkey, 23 September 2022, pp.261-262
- III. **Preparation and Characterization of Meis Protein Inhibitor Loaded Albumin Nanoparticles**  
Değer G., BÜYÜKKÖROĞLU G.  
Uluslararası Türkiye Biyoteknoloji Kongresi Bio Türkiye, İstanbul, Turkey, 09 September 2021
- IV. **AKILCI İLAÇ KULLANIMI**  
BÜYÜKKÖROĞLU G.  
Uluslararası Türkiye Biyoteknoloji Kongresi Bio Türkiye, İstanbul, Turkey, 09 September 2021
- V. **Using of HDL Nanoparticles as a Gene Carrier System for Targeting Liver Cancer Cells**  
BÜYÜKKÖROĞLU G., Masimov R.  
International Pharmaceutical Biotechnology Virtual Symposium, İzmir, Turkey, 08 October 2021
- VI. **Development and Evaluation of venetoclax and siRNA loaded albumin based carrier systems**  
Çalışkan B., ŞENEL B., BÜYÜKKÖROĞLU G.  
Uluslararası Biyoteknoloji Kongresi (BioTürkiye), İstanbul, Turkey, 09 September 2021
- VII. **The studies on siRNA Delivery Systems for Colon Carcinomas**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
ICEP 2019, PRAG, Czech Republic, 15 August 2019
- VIII. **The studies on siRNA delivery for colon carcinomas**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
3rd International Congress and Exhibition on Pharmacy", Prag, Czech Republic, 15 - 16 August 2019
- IX. **SYNERGISTIC EFFECT OF siRNA AND PACLITAXEL-LOADED SLNs ON FOUR CANCER CELL LINES**  
ŞENEL B., BÜYÜKKÖROĞLU G., BAŞARAN E., YENİLMEZ E.  
International Multidisciplinary Symposium on Drug Research Development (DRD 2019), Malatya, Turkey, 1 - 03 July 2019, vol.1, pp.103-106
- X. **VORICONAZOLE INCORPORATED INCLUSION COMPLEXES FOR IMPROVED OCULAR DELIVERY**  
BAŞARAN E., YENİLMEZ E., BÜYÜKKÖROĞLU G., DEMİREL M.  
EUFEPS Annual Meeting 2019, Frankfurt, Germany, 6 - 08 March 2019, vol.1, pp.91
- XI. **Effectiveness of Combined siRNA and Docetaxel-Loaded SLNs on Different Breast Cancer Cell Lines**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
Uluslararası İVEK Biyoteknoloji Kongresi (İVEK BİO 2018), İstanbul, Turkey, 26 - 28 November 2018
- XII. **Production and Applications of Microbial Polyhydroxyalkanoates (PHAs) as Drug Delivery Systems**  
BÜYÜKKÖROĞLU G., ŞENEL B.  
Uluslararası İVEK Bio Kongresi, İstanbul, Turkey, 26 - 28 November 2018
- XIII. **Cytotoxicity effect of graphene quantum dots-metal nanocomposite on human A549 and MCF-7 cells**  
BOYACIOĞLU B., ŞENEL B., BÜYÜKKÖROĞLU G., ÜNVER H., YILDIZ M., DEMİR N., YILDIRIM N., ELMALI A.



NANO-2018, Kiev, Ukraine, 27 - 30 August 2018

- XIV. **Biyoteknolojik İlaçlarda Stabilite**  
BÜYÜKKÖROĞLU G.  
Biyoteknolojik İlaçlarda Üretim ve Uygulamalar' temalı I.Farmasötik Biyoteknoloji Çalıştayı, Turkey, 3 - 04 November 2017
- XV. **Palladium nanoparticles selectively induce apoptosis in lung cancer cells through reactive oxygen species.**  
Erkisa M., BÜYÜKKÖROĞLU G., ŞENEL B., YILMAZ V. T., ULUKAYA E., ARI F.  
XV.Ulusal Tıbbi Biyoloji ve Genetik Kongresi (Uluslararası katılımlı), Fethiye, Turkey, 26 - 29 October 2017, pp.204
- XVI. **Palladium Incorporated Micelle: A Promising Material for Future Non-Small Cell Lung Cancer.**  
Erkisa M., BÜYÜKKÖROĞLU G., ŞENEL B., YILMAZ V. T., ULUKAYA E., ARI F.  
VI. International Congress of Molecular Medicine, İstanbul, Turkey, 22 - 25 May 2017
- XVII. **Palladium Incorporated Micelle: A Promising Material For Future Non-Small Cell Lung Cancer**  
Erkisa M., BÜYÜKKÖROĞLU G., ŞENEL B., YILMAZ V. T., ULUKAYA E., ARI F.  
VI. International Congress of Molecular Medicine : Molecular Medicine From the Updates Till The Future, İstanbul, Turkey, 22 - 25 May 2017
- XVIII. **DESLORATADINE-CONTAINING ALBUMIN NANOPARTICLESINTENDED FOR INHALATION**  
BÜYÜKKÖROĞLU G., ŞENEL B.  
3rd Annual Formulation Drug Delivery Congress and 2nd Annual Inhalation Respiratory Drug Delivery Congress, Londa, England, 8 - 09 May 2017
- XIX. **Development Of Cationic Lipid Nanoparticle Formulation For pDNA Delivery**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
3rd Formulation Drug Delivery Congress and 2nd Inhalation Respiratory Drug Delivery Congress, Londrina, Brazil, 8 - 09 May 2017
- XX. **DEVELOPMENT of CATIONIC LIPID NANOPARTICLE FORMULATION for pDNA DELIVERY**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
3rd Annual Formulation Drug Delivery Congress and 2nd Annual Inhalation Respiratory Drug Delivery Congress, Londrina, Brazil, 8 - 09 May 2017
- XXI. **Tıp terimleri e seminer I**  
akçiçek e., ŞENEL TEKİN P., KARAMAN B. İ., ÜNAL N., ULUPINAR E., güzey g., BÜYÜKKÖROĞLU G.  
Tıp terimleri e-seminer I, Turkey, 06 December 2016
- XXII. **Particulate Systems mediated DNA Vaccines**  
BÜYÜKKÖROĞLU G.  
12th Asia Pacific Global Summit and Expo on Vaccines and Vaccination, Melbourne, Australia, 24 - 25 November 2016
- XXIII. **Targeted Drug Delivery Systems Designed for Cancer Treatment**  
BÜYÜKKÖROĞLU G.  
6. Multidisipliner Kanser Araştırma Kongresi, Konya, Turkey, 27 - 30 October 2016
- XXIV. **Akreditasyon Süreci Çalışmalarının Eczacılık Fakültelerine Kazandırdıkları I Anadolu Üniversitesi Eczacılık Fakültesi**  
BÜYÜKKÖROĞLU G.  
I. Ulusal Eczacılık Eğitimi ve Akreditasyon Kongresi, Ankara, Turkey, 9 - 10 May 2016
- XXV. **Improved DNA Vaccination using Cationic Polymeric Nanoparticles for Transcutaneous Immunization**  
BÜYÜKKÖROĞLU G., ŞENEL B., Öztürk A., Karabacak R. B.  
Functional Nanomaterials in Industrial Applications: Academic-Industry Meet, Preston, England, 29 - 31 March 2016
- XXVI. **Evaluation Of Paclitaxel Loaded Liposomal System With Anti Her2 Antibody**  
BÜYÜKKÖROĞLU G., ŞENEL B.  
International Multidisciplinary Symposium on Drug Research and Development, Eskişehir, Turkey, 15 - 17 October 2015



- XXVII. **Evaluation Of Niclosamide Loaded Solid Lipid Nanoparticles**  
BÜYÜKKÖROĞLU G., ŞENEL B., ARI F., ULUKAYA E.  
International Multidisciplinary Symposium on Drug Research and Development, Eskişehir, Turkey, 15 - 17 October 2015
- XXVIII. **Development Of Nanoparticle For siRNA Delivery**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
International Multidisciplinary Symposium on Drug Research and Development, Eskişehir, Turkey, 15 - 17 October 2015
- XXIX. **In vitro evaluation of vaginal suppository including siRNA and paclitaxel loaded SLNs for cervical cancer**  
BÜYÜKKÖROĞLU G.  
International Conference and Expo on Biopharmaceutics, Baltimor, United States Of America, 21 - 22 September 2015
- XXX. **Vaginal vaccination with DNA loaded nano particles**  
BÜYÜKKÖROĞLU G.  
6th Euro Global Summit and Expo on Vaccines & Vaccination, Birmingham, England, 17 - 19 August 2015, vol.6, pp.48
- XXXI. **FORMULATION AND CHARACTERIZATION OF DIRITHROMYCINE NANOPARTICLES FOR TOPICAL TREATMENT Sözlü Bildiri**  
ÖZTÜRK A. A., ŞENEL B., YENİLMEZ E., BAŞARAN E., BÜYÜKKÖROĞLU G.  
4th International Conference on Nanotek Exposition, San-Francisco, Costa Rica, 1 - 03 December 2014, vol.5, pp.111
- XXXII. **OCULAR APPLICATION OF DIRITHROMYCIN WITH CHITOSAN BASED POLYMERIC NANOPARTICLES Sözlü Bildiri**  
ÖZTÜRK A. A., ŞENEL B., YENİLMEZ E., BAŞARAN E., BÜYÜKKÖROĞLU G.  
4th International Conference on Nanotek Exposition, San-Francisco, Costa Rica, 1 - 03 December 2014, vol.5, pp.112
- XXXIII. **Paclitaxel Loaded Cationic Solid Lipid Nanoparticle Formulation, Preparation and Evaluation**  
ÖZTÜRK A. A., ŞENEL B., YENİLMEZ E., BAŞARAN E., BÜYÜKKÖROĞLU G.  
4th International Conference on Nanotek and Expo, San Fransisko, United States Of America, 1 - 03 December 2014, vol.5
- XXXIV. **PACLITAXEL LOADED CATIONIC SOLID LIPID NANOPARTICLE FORMULATION PREPARATION AND EVALUATION Poster Bildiri**  
ÖZTÜRK A. A., ŞENEL B., YENİLMEZ E., BAŞARAN E., BÜYÜKKÖROĞLU G.  
4th International Conference on Nanotek Exposition, San-Francisco, Costa Rica, 1 - 03 December 2014, vol.5, pp.202
- XXXV. **Targeting of Liposomal System with anti HER2 Antibody**  
BÜYÜKKÖROĞLU G., Gezgin S.  
EACR Conference Series 2014, 30 January - 01 February 2014
- XXXVI. **In vitro studies of Vaginal Vaccination with DNA encapsulated solid lipid nanoparticles**  
BÜYÜKKÖROĞLU G., ŞENEL B.  
3rd Conference on "Innovation in Drug Delivery: Advances in Local Drug Delivery, PİSA, Italy, 22 - 25 September 2013
- XXXVII. **Development and optimization Of SLN formulations for siRNA delivery to the vagina**  
ŞENEL B., BÜYÜKKÖROĞLU G., YAZAN E. Y.  
3rd Conference on "Innovation in Drug Delivery: Advances in Local Drug Delivery, PİSA, Italy, 22 - 25 September 2013
- XXXVIII. **Enhancement of the Ocular Bioavailability of Cyclosporine A by Cationic Polymeric Nanoparticles**  
BAŞARAN E., YENİLMEZ E., BÜYÜKKÖROĞLU G., BERKMAN M. S., YAZAN E. Y.  
4th World Congress on Bioavailability and Bioequivalence: Pharmaceutical RD Summit, San-Francisco, Costa Rica, 20 - 22 May 2013, vol.5, pp.45

- XXXIX. **Preliminary Studies on Polymeric Particle Formulations of Chitosan Eudragit Complexes as A Gene Delivery System**  
ŞENEL B., BÜYÜKKÖROĞLU G., YAZAN E. Y.  
16th International Pharmaceutical Technology Symposium, Antalya, Turkey, 10 - 12 September 2012
- XL. **Formulation and Evaluation of Various Cationic Solid Nanoparticles with Octadecylamine**  
BÜYÜKKÖROĞLU G., ŞENEL B., KOPARAL A. T., BOSTANCIOĞLU B.  
14th International Pharmaceutical Technology Symposium, Antalya, Turkey, 06 September 2010 - 10 September 2009
- XLI. **Studies on cationic chitosan nanoparticle formulations for gene delivery**  
BÜYÜKKÖROĞLU G., ŞENEL B., YAZAN E. Y.  
11th International Conference on Chitin and Chitosan and The 8th Asia-Pacific Chitin and Chitosan Symposium, Taipei, Taiwan, 6 - 09 September 2009
- XLII. **Preliminary Study on Formulation And Evaluation of Cationic SLNs for Gene Delivery Systems**  
ŞENEL B., BÜYÜKKÖROĞLU G.  
6th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, BARCELONA, Spain, 7 - 10 April 2008

## Supported Projects

- BÜYÜKKÖROĞLU G., Magnetik demir nanopartiküllerine yüklenmiş siklopaminin insan meme kanseri kök hücreleri üzerindeki sitotoksik/apoptotik etkilerinin araştırılması. U.Ü Bilimsel Araştırma Projeleri Komisyon Başkanlığı. BUAP(F)-2014/3., 2014 - Continues
- DEMİREL M., BÜYÜKKÖROĞLU G., Piribedil in Biyoyararlanımını Arttırmak Amacı ile Katı Lipit Mikropartiküllerinin Hazırlanması ve In Vitro Değerlendirilmesi İnklüzyon Bileşikleri ile Karşılaştırılması, Continues
- Büyükköroğlu G., Sevim G., Project Supported by Higher Education Institutions, Development and Evaluation of Multiferroic Nanoparticle Based Drug Delivery System, 2019 - 2023
- BÜYÜKKÖROĞLU G., Meme Kanseri Tedavisinde Kullanılabilecek Yeni Bir Anti-Kanser Peptidin Anadolu İrki Bal Arısı Venomundan Saflaştırılması ve Yapısal Karakterizasyonu, 2029 - 2021
- BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, KURKUMİN İÇEREN YARA İYİ EDİCİ SİSTEM GELİŞTİRMEK İÇİN BAKTERİDEN POLİHİDROKSİALKANOATLAR (PHA)IN ÜRETİLMESİ, 2018 - 2021
- AKYIL E., BAŞARAN E., ŞENEL B., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Efrin Reseptörleri Üzerinde Etki Gösteren Doseksel ile kombine siRNA Taşıyan Emülsiyon Sistemlerinin Hazırlanması ve İn Vitro Değerlendirilmesi, 2017 - 2021
- BAŞARAN E., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Sildenafil Baz İçeren Farklı Taşıyıcı Sistemlerin Hazırlanması ve Karakterizasyonu, Anadolu Üniversitesi Bilimsel Araştırma Projeleri (BAP) Proje No: 1805S207, 2018 - 2019
- AKYIL E., ÖZTÜRK A. A., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Sildenafil Baz İçeren Farklı Taşıyıcı Sistemlerin Hazırlanması ve Karakterizasyonu, 2018 - 2019
- Çalışkan B., Şenel B., Büyükköroğlu G., Project Supported by Higher Education Institutions, Metastatik Kemik Kanseri için BCL-2 Genini Susturmaya Yönelik Zoledronik Asit ile Hedeflendirilmiş Albümin Taşıyıcı Sistemlerin Geliştirilmesi ve İn Vitro Değerlendirilmesi, 2018 - 2019
- BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Gen Taşıyıcı Sistem Olarak HDL (yüksek-yağunluk lipoprotein) Mikro-ve Nanopartiküllerinin Hazırlanması, 2018 - 2019
- BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, KARTİLAJ DOKU HASARINI ONARMAK İÇİN ALTERNATİF JEL FORMÜLASYONU GELİŞTİRİLMESİ, 2018 - 2019
- ÖZTÜRK A. A., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Ketoprofen Lizin İçeren Poli Laktik-Ko- Glikolik Asit (PLGA) Nanopartiküllerinin Hazırlanması ve İn Vitro Değerlendirilmesi, 2017 - 2019
- AKYIL E., BAŞARAN E., BÜYÜKKÖROĞLU G., OKÜLER UYGULAMAYA YÖNELİK VORİKONAZOL İÇEREN İNKLÜZYON KOMPLEKSLERİNİN FORMÜLASYON ÇALIŞMALARI Proje No: 2016S731, 2017 - 2019
- AKYIL E., DEMİREL M., BÜYÜKKÖROĞLU G., Oküler Uygulamaya Yönelik Vorikonazol İçeren İnklüzyon Komplekslerinin

Formülasyon Çalışmaları, 2017 - 2019

BERKMAN M. S., BÜYÜKKÖROĞLU G., DEMİRKİLİNÇ K. C., Project Supported by Higher Education Institutions, TGF-B1 VE EJAKÜLAT İÇEREN YENİ EMÜLSİYON SİSTEMLERİN HAZIRLANMASI VE TEKRARLAYAN DÜŞÜK VE BAŞARISIZ TÜP BEBEK TEDAVİSİNDE ARAŞTIRILMASI (PROJE NO: 1604S180), 2016 - 2019

ÖZER S., YURTDAŞ KIRIMLIOĞLU G., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Moxifloksasin Hidroklorür İçeren Oftalmik İlaç Taşıyıcı Sistem Geliştirilmesi ve Kararlılık Çalışmaları, 2016 - 2017

ŞENEL B., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Hepatit B Yüzey Antijeni Kodlayan Plasmid DNA Enkapsüle Edilmiş SLN İle Pulmoner Aşılama, 2015 - 2017

YAZAN E. Y., AKYIL E., ŞENEL B., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, RAHİM AĞZI KANSERİ İÇİN siRNA BAĞLI ve PAKLİTAKSEL İÇEREN PARTİKÜLLERLE HAZIRLANMIŞ VAJİNAL FORMÜLASYONLARIN HAZIRLANMASI DEĞERLENDİRİLMESİ ve KARŞILAŞTIRILMASI, 2013 - 2016

BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, Farmasötik amaç için kullanılacak olan micro ve nanopartiküllere antikor bağlama ve etkinliklerinin araştırılması, 2012 - 2013

BERKMAN M. S., YAZAN E. Y., AKYIL E., BÜYÜKKÖROĞLU G., BAŞARAN E., Project Supported by Higher Education Institutions, Siklosporin A İçeren Kitosan Nanopartiküllerinin Oftalmik Uygulamaya Yönelik Hazırlanması ve İn Vitro İn Vivo Değerlendirilmesi BAP Proje No 090344, 2009 - 2012

BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, siRNA Taşıyıcı Sistem Geliştirme Ve Değerlendirme Çalışmaları, Anadolu Üniversitesi Bilimsel Araştırma Projeleri, 2009 - 2012

ŞENEL B., BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, siRNA Taşıyıcı Sistem Geliştirme ve Değerlendirme Çalışmaları, 2009 - 2012

BÜYÜKKÖROĞLU G., TUBİTAK Project, PLAZMİT DNA BAĞLI KATI LİPİD NANOPARTİKÜLLERİN KLN GEN SALIM SİSTEMLERİ OLARAK DERİDEN AŞILAMAK İÇİN GELİŞTİRİLMESİ VE DEĞERLENDİRİLMELERİ, 2009 - 2009

BÜYÜKKÖROĞLU G., DEMİREL M., Project Supported by Higher Education Institutions, SİNNARİZİNİN BİYÖYARARLANIMINI ARTTIRMAK AMACI İLE KATI DİSPERSİYON VE KATI ÇÖZELTİLERİNİN HAZIRLANMASI VE İN VİTRO İN VİVO DEĞERLENDİRİLMESİ, 2001 - 2004

BÜYÜKKÖROĞLU G., Project Supported by Higher Education Institutions, FARMASÖTİK BİYOTEKNOLOJİDE GEN TEDAVİSİ AMAÇLI PLAZMİT DNA BAĞLANABİLECEK KATYONİK KATI LİPİT NANO VE MİKROPARTİKÜLLERİN HAZIRLANMASI VE TANINMASI ÇALIŞMALARI, 2001 - 2004