

## Prof. SİBEL PEHLİVAN

### Personal Information

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### Education Information

Doctorate, Hacettepe Üniversitesi, Eczacılık Fakültesi, Farmasötik Teknoloji, Turkey 1997 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, BEYİN TÜMÖRLERİNİN TEDAVİSİNE YÖNELİK MİTOKSANTRON İÇEREN MİKROPARTİKÜLER SİSTEMLERİN TASARIMI VE DEĞERLENDİRİLMESİ, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2003

### Research Areas

Health Sciences, Pharmacology and Therapeutics, Pharmaceutics Technology, Pharmaceutical Technology

### Advising Theses

PEHLİVAN S., In vitro/in vivo evaluation of dendrimeric systems for retinal drug delivery, Doctorate, B.YAVUZ(Student), 2014

PEHLİVAN S., Malign Gliomların Tedavisi İçin Lipit ile İşlevselleştirilmiş PLGA Nanopartiküllerinin Tasarımı, İn Vitro ve İn Vivo Değerlendirilmesi, Post Graduate, A.KAFFASHİ(Student), 2013

PEHLİVAN S., Kornea onarımında kullanılmak üzere antiinflamatuar etkin madde içeren destek matriks (Doku iskelesi) formülasyonlarının tasarımı ve değerlendirilmesi, Post Graduate, S.KAYIRAN(Student), 2010

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

- I. **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.  
Journal of Ocular Pharmacology and Therapeutics, vol.36, no.6, pp.433-446, 2020 (Journal Indexed in SCI Expanded)
- II. **A thermosensitive gel loaded with an enzyme and an antibiotic drug for the treatment of periprosthetic joint infection**

Sarigol E., EKİZOĞLU M., Pehlivan S., BODUR E., SAĞIROĞLU M., ÇALIŞ S.

JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.43, pp.423-429, 2018 (Journal Indexed in SCI)

- III. **Development and evaluation of orally disintegrating tablets comprising taste-masked mirtazapine granules**  
Yildiz S., AYTEKİN E., Yavuz B., Pehlivan S. B., VURAL İ., UNLU N.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.23, no.5, pp.488-495, 2018 (Journal Indexed in SCI)
- IV. **A potential non-invasive glioblastoma treatment: Nose-to-brain delivery of farnesylthiosalicylic acid incorporated hybrid nanoparticles**  
SEKERDAG E., Lule S., PEHLIVAN S. B., Ozturk N., KARA A., KAFFASHI A., VURAL İ., Isikay I., Yavuz B., OGUZH K. K., et al.  
JOURNAL OF CONTROLLED RELEASE, vol.261, pp.187-198, 2017 (Journal Indexed in SCI)
- V. **Effects of curcumin-loaded PLGA nanoparticles on the RG2 rat glioma model**  
Orunoğlu M., Kaffashi a., PEHLIVAN S., ŞAHİN S., SÖYLEMEZOĞLU A. F., KARLI OĞUZ H. K., MUT AŞKUN M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.78, pp.32-38, 2017 (Journal Indexed in SCI)
- VI. **Design and evaluation of gamma-sterilized vancomycin hydrochloride-loaded poly(ε-caprolactone) microspheres for the treatment of biofilm-based medical device-related osteomyelitis**  
SARIGÖL E., PEHLIVAN S., EKİZOĞLU M., SAĞIROĞLU M., ÇALIŞ S.  
Pharmaceutical Development and Technology, vol.22, no.6, pp.706-714, 2017 (Journal Indexed in SCI Expanded)
- VII. **In vivo tissue distribution and efficacy studies for cyclosporin A loaded nano-decorated subconjunctival implants**  
Yavuz B., Pehlivan S., Kaffashi A., ÇALAMAK S., ULUBAYRAM K., PALASKA E., Cakmak H. B., Unlu N.  
DRUG DELIVERY, vol.23, no.9, pp.3279-3284, 2016 (Journal Indexed in SCI)
- VIII. **Dexamethasone - PAMAM dendrimer conjugates for retinal delivery: preparation, characterization and in vivo evaluation**  
Yavuz B., Pehlivan S., Bolu B. S., Sanyal R. N., VURAL İ., UNLU N.  
JOURNAL OF PHARMACY AND PHARMACOLOGY, vol.68, no.8, pp.1010-1020, 2016 (Journal Indexed in SCI)
- IX. **Formulation studies for mirtazapine orally disintegrating tablets**  
YILDIZ S., AYTEKİN E., Yavuz B., Pehlivan S., UNLU N.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.42, no.6, pp.1008-1017, 2016 (Journal Indexed in SCI)
- X. **In Vitro/In Vivo Evaluation of Dexamethasone/PAMAM Dendrimer Complexes for Retinal Drug Delivery**  
Yavuz B., Pehlivan S., VURAL İ., UNLU N.  
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.104, no.11, pp.3814-3823, 2015 (Journal Indexed in SCI)
- XI. **Preparation and in vitro/in vivo evaluation of cyclosporin A-loaded nanodecorated ocular implants for subconjunctival application**  
PEHLIVAN S., Yavuz B., ÇALAMAK S., ULUBAYRAM K., KAFFASHI A., VURAL İ., Cakmak H. B., DURGUN M. E., DENKBAŞ E. B., UNLU N.  
Journal of Pharmaceutical Sciences, vol.104, no.5, pp.1709-1720, 2015 (Journal Indexed in SCI Expanded)
- XII. **Dendrimeric systems and their applications in ocular drug delivery**  
Yavuz B., PEHLIVAN S., UNLU N.  
The Scientific World Journal, vol.2013, 2013 (Journal Indexed in SCI Expanded)
- XIII. **Nanotechnology-Based Drug Delivery Systems for Targeting, Imaging and Diagnosis of Neurodegenerative Diseases**  
Pehlivan S.  
PHARMACEUTICAL RESEARCH, vol.30, no.10, pp.2499-2511, 2013 (Journal Indexed in SCI)
- XIV. **An Overview on Dry Eye Treatment: Approaches for Cyclosporin A Delivery**  
Yavuz B., Pehlivan S., Unlu N.  
SCIENTIFIC WORLD JOURNAL, 2012 (Journal Indexed in SCI)
- XV. **Evaluation of drug-excipient interaction in the formulation of celecoxib tablets**  
Bozdog-Pehlivan S., Subasi B., VURAL İ., Unlu N., ÇAPAN Y.

Acta Poloniae Pharmaceutica - Drug Research, vol.68, no.3, pp.423-433, 2011 (Journal Indexed in SCI Expanded)

- XVI. **In vitro evaluation of gentamicin- and vancomycin-containing minitablets as a replacement for fortified eye drops**  
Bozdag S., Weyenberg W., Adriaens E., Dhondt M. M. M. , Vergote V., Vervaeet C., De Prijck K., Nelis H. J. , De Spiegeleer B., Ludwig A., et al.  
Drug Development and Industrial Pharmacy, vol.36, no.11, pp.1259-1270, 2010 (Journal Indexed in SCI Expanded)
- XVII. **Effect of doxycycline on postoperative scarring after trabeculectomy in an experimental rabbit model**  
Sen E., Balikoglu-Yilmaz M., Bozdag-Pehlivan S., Sungu N., Aksakal F. N. , Altinok A., Tuna T., Unlu N., Ustun H., Koklu G., et al.  
Journal of Ocular Pharmacology and Therapeutics, vol.26, no.5, pp.399-406, 2010 (Journal Indexed in SCI Expanded)
- XVIII. **Formulation and in vitro evaluation of cysteamine hydrochloride viscous solutions for the treatment of corneal cystinosis**  
Bozdag S., Gumus K., GÜMÜŞ Ö., Unlu N.  
European Journal of Pharmaceutics and Biopharmaceutics, vol.70, no.1, pp.260-269, 2008 (Journal Indexed in SCI Expanded)
- XIX. **Eosinophilic angiocentric fibrosis of the orbit**  
KIRATLI H., Oender S., Yildiz S., Oezseker H.  
CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY, vol.36, no.3, pp.274-276, 2008 (Journal Indexed in SCI)
- XX. **Evaluation of the physicochemical characteristics and activity of various kinds of ciprofloxacin HCl-loaded cationic nanoparticles**  
Dillen K., Bozdag S., Vandervoort J., Ludwig A.  
Journal of Drug Delivery Science and Technology, vol.17, no.1, pp.49-56, 2007 (Journal Indexed in SCI Expanded)
- XXI. **Treatment of malignant gliomas with mitoxantrone-loaded poly (lactide-co-glycolide) microspheres**  
Yemisci M., Vural İ., Bozdag S., Cetin M., Soylemezoglu F., Capan Y., Dalkara T.  
Neurosurgery, vol.59, no.6, pp.1296-1302, 2006 (Journal Indexed in SCI Expanded)
- XXII. **Characterization and in vivo evaluation of ocular minitablets prepared with different bioadhesive Carbopol-starch components**  
Weyenberg W., Bozdag S., Foreman P., Remon J., Ludwig A.  
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.62, no.2, pp.202-209, 2006 (Journal Indexed in SCI)
- XXIII. **Rheological evaluation of dispersions, prepared with different non- and gamma-irradiated bioadhesive cospray dried powder mixtures**  
Bozdag S., Weyenberg W., Ludwig A.  
Pharmazie, vol.60, no.8, pp.593-597, 2005 (Journal Indexed in SCI Expanded)
- XXIV. **The effect of freeze-drying with different cryoprotectants and gamma-irradiation sterilization on the characteristics of ciprofloxacin HCl-loaded poly(D,L-lactide-glycolide) nanoparticles**  
Bozdag S., Dillen K., Vandervoort J., Ludwig A.  
Journal of Pharmacy and Pharmacology, vol.57, no.6, pp.699-707, 2005 (Journal Indexed in SCI Expanded)
- XXV. **Formulation and in vitro bioactivity of mitoxantrone-loaded biodegradable microspheres on rat glioma (RG2) cells**  
Bozdag S., Capan B., Vural I., Dalkara T., Dogan A., Guc D., Hincal A., DeLuca P.  
Journal of Drug Delivery Science and Technology, vol.15, no.3, pp.201-206, 2005 (Journal Indexed in SCI Expanded)
- XXVI. **In vitro cytotoxicity of mitoxantrone-incorporated albumin microspheres on acute promyelocytic leukaemia cells**  
Bozdag S., Capan Y., Vural I., Dalkara T., Dogan A., Guc D., Hincal A., Deluca P.  
Journal of Microencapsulation, vol.21, no.7, pp.751-760, 2004 (Journal Indexed in SCI Expanded)
- XXVII. **Mitoxantrone loaded poly(DL-lactide-co-glycolide) microspheres for treatment of brain tumors I. formulation and release characteristics**

Bozdağ S., ÇAPAN Y., VURAL İ., Hincal A., DeLuca P.

Technology and Health Care, vol.10, pp.353-355, 2002 (Journal Indexed in SCI Expanded)

**XXVIII. In vitro evaluation and intra-articular administration of biodegradable microspheres containing naproxen sodium**

Bozdağ S., Calis S., Kas H., Ercan M., Peksoy I., Hincal A.

Journal of Microencapsulation, vol.18, no.4, pp.443-456, 2001 (Journal Indexed in SCI Expanded)

**XXIX. Formulation and stability evaluation of enteric-coated omeprazole formulations**

Bozdağ S., Calis S., Sumnu M.

S.T.P. Pharma Sciences, vol.9, no.4, pp.321-327, 1999 (Journal Indexed in SCI Expanded)

## Articles Published in Other Journals

**I. Bakteriyel Keratit Tedavisinde Yeni İlaç Taşıyıcı Sistemlerin Uygulanması**

POLAT H. K. , PEHLİVAN S., ÇALIŞ S.

Türkiye Klinikleri Journal of Ophthalmology, vol.27, no.4, pp.289-301, 2018 (Other Refereed National Journals)

**II. Beyne İlaç Taşınması ve Dağılımının Farmakokinetiği**

ÇOPUR T., PEHLİVAN S., ÖNER L.

Hacettepe Üniversitesi Eczacılık Fakültesi Dergisi, vol.37, no.2, pp.81-104, 2017 (Other Refereed National Journals)

**III. Neurofibromatosis Type 2: Optic Nerve Sheath Meningioma in one Orbit, Intramuscular Schwannoma in the Other**

KIRATLI H., Yıldız S., Soylemezoglu F.

ORBIT-AN INTERNATIONAL JOURNAL ON ORBITAL DISORDERS AND FACIAL RECONSTRUCTIVE SURGERY, vol.27, no.6, pp.451-454, 2008 (Journal Indexed in ESCI)

**IV. Method Validation in Determination of Mitoxantrone by HPLC**

Bozdağ S., ÇAPAN Y., VURAL İ., Hincal A. A.

Acta Pharmaceutica Turcica, vol.46, no.1, pp.43-47, 2004 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

**I. Confocal reflectance microscopy for metal and lipid nanoparticle visualization in the brain**

ÇAKIR AKTAŞ C., ERDENER Ş. E. , Teke B., PEHLİVAN S., Kaya Z., TAŞKIRAN SAĞ A., DALKARA T., MUT AŞKUN M.  
Society for Neuroscience 2019, 19 - 23 October 2019

**II. In Vitro Evaluation of Ocular Insert Formulations Containing Besifloxacin HCl**

POLAT H. K. , ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.

8th BBBB International Conference on Pharmaceutical Sciences, Turkey, 14 - 16 October 2019

**III. Development of Besifloxacin HCl Loaded Insert Formulations for the Treatment of Bacterial Keratitis**

POLAT H. K. , ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.

8th BBBB International Conference on Pharmaceutical Sciences, Turkey, 14 - 16 October 2019

**IV. Fluorescence Labeled Nanostructured Lipid Carriers: Uptake by RG2 Glioma Cells**

TEKE B., ÇAKIR AKTAŞ C., AYTEKİN E., PEHLİVAN S., MUT AŞKUN M.

8th BBBB, 14 - 16 October 2019

**V. Ex-Vivo And In-Vivo Evaluation of Riboflavin Containing Solid Lipid Nanoparticles For The Treatment Of Keratoconus Disease**

AYTEKİN E., PEHLİVAN S., ÇALIŞ S.

8th BBBB International Conference on Pharmaceutical Sciences, Turkey, 14 - 16 October 2019

**VI. Application of Central Composite Design in the optimization of blank poly(lactic-coglycolic acid) nanoparticles**

ÇOPUR T., PEHLİVAN S., YET B., ÖNER L.

8th BBBB International Conference on Pharmaceutical Sciences, 14 - 16 October 2019

- VII. **Optimization of blank poly(lactic-coglycolic acid) nanoparticle formulations using Artificial Neural Networks**  
 ÇOPUR T., PEHLİVAN S., YET B., ÖNER L.  
 8th BBBB International Conference on Pharmaceutical Sciences, 14 - 16 October 2019
- VIII. **Validation of HPLC method for the determination of Carbenoxolone disodium**  
 ÇOPUR T., KURT N., PEHLİVAN S., ÖNER L.  
 8th BBBB International Conference on Pharmaceutical Sciences, 14 - 16 October 2019
- IX. **Development of biodegradable nanoparticles for the brain delivery of Ketorolac Tromethamine**  
 KURT N., ÇOPUR T., PEHLİVAN S., ÖNER L.  
 19th International Pharmaceutical Technology Symposium, 17 - 19 September 2018
- X. **Investigation of Riboflavin and Riboflavin-5-Phosphate Sodium Release from Ocular Hydrogels**  
 AYTEKİN E., PEHLİVAN S., ÇALIŞ S.  
 12th International Symposium on Pharmaceutical Sciences, Turkey, 26 - 29 June 2018
- XI. **Validation of an HPLC method for the determination of besifloxacin HCl from ocular insert based on polycaprolactone**  
 POLAT H. K. , PEHLİVAN S., KIR S., ÇALIŞ S.  
 12th International Symposium on Pharmaceutical Sciences, Turkey, 26 - 29 June 2018
- XII. **Effect of various formulation parameters on the characteristics of blank PLGA nanoparticles**  
 ÇOPUR T., PEHLİVAN S., ÖNER L.  
 12th International Symposium on Pharmaceutical Sciences (ISOPS), 26 - 29 June 2018
- XIII. **Development of Solid Lipid Nanoparticles Containing Riboflavin By Factorial Design**  
 AYTEKİN E., PEHLİVAN S., ÇALIŞ S.  
 European Federation for Pharmaceutical Sciences – EUFEPS Annual Meeting 2018, Greece, 24 - 26 May 2018
- XIV. **Nose-to-brain delivery of farnesylthiosalicylic acid loaded hybrid nanoparticles in the treatment of glioblastoma**  
 Sekerdag E., LULE S., PEHLİVAN S., KARA A., OZTURK N., KAFFASHI A., VURAL İ., YAVUZ B. B. , OGUZ K. K. , SOYLEMEZOGLU F., et al.  
 23rd World Congress of Neurology (WCN), Kyoto, Japan, 16 - 21 September 2017, vol.381, pp.171-172
- XV. **Development and Characterization Of Thermosensitive Hydrogel Systems Containing Riboflavin-5 Phosphate Sodium**  
 AYTEKİN E., PEHLİVAN S., ÇALIŞ S.  
 2nd International Gazi Pharma Symposium Series, Ankara, Turkey, 11 - 13 October 2017
- XVI. **IN VITRO PERMEATION STUDY FOR ORALLY DISINTEGRATING TABLETS CONTAINING MIRTAZAPINE**  
 yıldız s., AYTEKİN E., YAVUZ B., PEHLİVAN S., VURAL İ., Ünlü N.  
 2nd International Gazi Symposium Series, 11 - 13 October 2017
- XVII. **In vivo evaluation of cyclosporin a loaded nano-decorated subconjunctival implants**  
 YAVUZ B., PEHLİVAN S., KAFFASİ A., ÇALAMAK S., ULUBAYRAM K., PALASKA E., ÜNLÜ N.  
 22. International Biomedical Sciences and Technologies Symposium (BIOMED), 12 - 15 May 2017
- XVIII. **Development of Electrospun Nanofiber-Based Implants Coated with Different Polymers for Topical Ocular Therapy**  
 POLAT H. K. , ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.  
 The 22nd Biomedical Science and Technology Symposium, 12 - 14 May 2017
- XIX. **Dexamethasone Loaded Electrospun Nanofiber Based Implants for Topical Ocular Therapy**  
 POLAT H. K. , ÇALAMAK S., AYTEKİN E., PEHLİVAN S., ULUBAYRAM K., ÇALIŞ S.  
 18th International Pharmaceutical Technology Symposium, 18 - 21 September 2016
- XX. **Effects of Different Fillers and Disintegrants on Mirtazapine Orally Disintegrating Tablet characteristics**  
 Yıldız S., AYTEKİN E., YAVUZ B., PEHLİVAN S., Ünlü N.  
 GPSS 2015, 12 - 15 November 2015
- XXI. **Development of thermasensitive gel system combined with enzyme antibiotic and microspheres for the eradication of bacterial biofilm**

Sarıgöl E., PEHLİVAN S., EKİZOĞLU M., SAĞIROĞLU M., BODUR E., ÇALIŞ S.

1st International Gazi Pharma Symposium Series (GPSS 2015), 12 - 15 November 2015

**XXII. Development Of Thermosensitive Gel System Combined With Enzyme Antibiotic And Microspheres For The Eradication Of Bacterial Biofilm**

elif s., PEHLİVAN S., SAĞIROĞLU M., bodur E., ÇALIŞ S.

1st International Gazi Pharma Symposium, 12 - 15 November 2015

**XXIII. Sterilization by Gamma Radiation of Poly Epsilon Caprolactone Microspheres Containing Vancomycin Hydrochloride**

Sarıgöl E., PEHLİVAN S., EKİZOĞLU M., SAĞIROĞLU M., ÇALIŞ S.

2015 AAPS Annual Meeting, 25 - 29 October 2015

**XXIV. Effect of Milling Time on the Formulation Parameters of Nanosuspensions**

GÜLSÜN İNAL T., ÖZTÜRK N., PEHLİVAN S., ŞAHİN S., VURAL İ.

AAPS Annual Meeting and Exposition, San diego, United States Of America, 2 - 06 November 2014

**XXV. Effect of Precipitation Inhibitors on Supersaturation and Solubility of Furosemide**

ÖZTÜRK N., KARA A., GÜLSÜN İNAL T., PEHLİVAN S., VURAL İ., ŞAHİN S.

AAPS Annual Meeting and Exposition, san diego, United States Of America, 2 - 06 November 2014

**XXVI. A new approach on vancomycin activity potentiation using medical device related osteomyelitis therapy**

EKİZOĞLU M., Sarıgöl E., PEHLİVAN S., ÖZALP M., BODUR E., ÇAĞLAR Ö., ATİLLA B., ÇALIŞ S.

Biofilm-based healthcare-associated infections: from microbiology to clinics, 9 - 11 October 2014

## Supported Projects

PEHLİVAN S., VURAL İ., KAFFASHİ A., Project Supported by Higher Education Institutions, Farnesil Tiyosalisilik asit içeren nanopartikül formülasyonu, 2015 - 2019

PEHLİVAN S., Project Supported by Higher Education Institutions, Farnesiltiyosalisilik Asit Yüklü Lipid-Polietilen Glikol-Polimer Hibrit Nanopartiküllerin Nazal Uygulama Sonrası Gliomaya Karşı Antitümör Etkinliğinin Araştırılması, 2014 - 2019

ÇALIŞ S., SARIGÖL E., EKİZOĞLU M., SAĞIROĞLU M., PEHLİVAN S., ATİLLA B., Project Supported by Higher Education Institutions, Kontrollü Salm Sağlayan Vankomisin Mikroküreleri İle Serratiopeptidaz İçeren Jel Sistemleri, 2015 - 2018

PEHLİVAN S., Project Supported by Other Private Institutions, Hacettepe Üniversitesi Eczacılık Fakültesi İlaç ve Kozmetik Ar-Ge ve Kalite Kontrol Laboratuvarı (HUNIKAL) ARGEDS-2015/797-161, 2015 - 2017

PEHLİVAN S., Project Supported by Higher Education Institutions, GLIOBLASTOMA TEDAVISİNDE HİBRİD NANOPARTİKÜLLERİN NASAL YOLDAN TASINMASI İCİN FORMULASYON CALISMALARI, 2015 - 2016

PEHLİVAN S., AYTEKİN E., Project Supported by Higher Education Institutions, Farklı Kaplama Oranlarına Sahip Tat Maskeli Mirtazapin Granülleri İçeren Ağızda Dağılan Tabletlerin Karakterizasyonu, 2015 - 2016

PEHLİVAN S., Project Supported by Higher Education Institutions, Retinaya İlaç Taşınması Amacıyla Dendrimerik Sistemlerin In Vitro/In Vivo Olarak Değerlendirilmesi, 2014 - 2016

## Citations

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