

# Prof. CEYDA TUBA ŞENGEL TÜRK

## Personal Information

Office Phone: [+90 312 203 3152](tel:+903122033152)

Fax Phone: [+90 312 213 1081](tel:+903122131081)

Web: <https://avesis.ankara.edu.tr/ctsengel>

Address: Ankara Üniversitesi Eczacılık Fakültesi Farmasötik Teknoloji AbD Anadolu / ANKARA

## International Researcher IDs

ORCID: 0000-0003-4123-7226

Publons / Web Of Science ResearcherID: AAF-7174-2020

ScopusID: 16680444000

Yoksis Researcher ID: 107136

## Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), Turkey 2003 - 2009

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (YI) (Tezli), Turkey 2000 - 2003

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1996 - 2000

## Dissertations

Doctorate, Kolona hedeflendirilmek üzere nanopartiküler ilaç taşıyıcı sistemlerin geliştirilmesi ve değerlendirilmesi, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), 2009

Postgraduate, Diltiazem hidroklorür yüklenmiş mikroküreler ve modifiye salım yapan tablet formülasyonlarının geliştirilmesi, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (YI) (Tezli), 2003

## Research Areas

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

## Academic Titles / Tasks

Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2024 - Continues

Associate Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2017 - 2024

Assistant Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2014 - 2017

Research Assistant, Ankara University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2002 - 2014

## Courses

Kontrollü Salım Yapan Sistemler ve Salım Mekanizmaları, Undergraduate, 2022 - 2023

Farmasötik Teknoloji-IV (Pratik), Undergraduate, 2021 - 2022

Kontrollü Salım Sağlayan İlaç Sistemleri, Doctorate, 2022 - 2023

Sürekli Etki Sağlayan İlaç Şekilleri, Postgraduate, 2022 - 2023

ÇÖZÜNME HIZI ANALİZLERİ VE VERİ DEĞERLENDİRME, Postgraduate, 2022 - 2023  
CONTROLLED RELEASE SYSTEMS AND DRUG TARGETING, Undergraduate, 2021 - 2022  
Farmasötik Teknoloji-III (Teorik), Undergraduate, 2022 - 2023  
Araştırma Projesi-I, Undergraduate, 2022 - 2023  
PHARMACEUTICAL TECHNOLOGY IV, Undergraduate, 2021 - 2022  
CONTROLLED DRUG DELIVERY AND RELEASE MECHANISMS, Undergraduate, 2022 - 2023  
RESEARCH PROJECT I, Undergraduate, 2022 - 2023  
Kontrollü Salım Mekanizması ve İlaç Hedefleme, Doctorate, 2022 - 2023, 2021 - 2022  
İleri Araştırma Yöntemleri, Doctorate, 2022 - 2023  
PHARMACEUTICAL TECHNOLOGY PRACTICE IV, Undergraduate, 2021 - 2022  
PHARMACEUTICAL TECHNOLOGY III, Undergraduate, 2022 - 2023  
İlaç ve Kozmetik Ürünler ile Tıbbi Cihazlarda Ruhsatlandırma İşlemleri, Undergraduate, 2022 - 2023  
İlaçlardan Salım Kinetikleri, Postgraduate, 2022 - 2023, 2021 - 2022  
PHARMACEUTICAL TECHNOLOGY PRACTICE III, Undergraduate, 2022 - 2023  
Farmasötik Teknoloji-III (Pratik), Undergraduate, 2022 - 2023  
Biyofarmasötik ve Farmakokinetik, Doctorate, 2021 - 2022  
Biyoyararlanım, Biyoeshdeğerlik Tayinlerinde Ve Dozaj Formları Tasarımında Çözünme Hızı Tayinleri Önemi, Undergraduate, 2022 - 2023  
Araştırma Projesi II, Undergraduate, 2021 - 2022  
Endüstriyel Eczacılıkta İlaç Formülasyonlarının Tasarımı ve Gelişimi, Undergraduate, 2021 - 2022

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

- I. **Electrospun nanofibers: building blocks for the repair of bone tissue**  
SERİM T. M., AMASYA ÇELİK TEN G., Eren-Boncu T., ŞENGEL TÜRK C. T., Ozdemir A. N.  
BEILSTEIN JOURNAL OF NANOTECHNOLOGY, pp.941-953, 2024 (SCI-Expanded)
- II. **Effect of Trastuzumab and Lonidamine-Loaded Lipid Nanoparticles (LNP) on HER2+ Breast Cancer**  
Ozlem Zurnaci F., Ozdatli Kurtulus S., ŞENGEL TÜRK C. T., HASÇIÇEK C., GÜZEL M.  
ChemistrySelect, vol.9, no.22, 2024 (SCI-Expanded)
- III. **The state of the art in core-shell-type lipid-polymer hybrid nanocarriers and beyond**  
ŞENGEL TÜRK C. T., Paksoy A. O., Alptürk O.  
Polymer Bulletin, vol.81, no.6, pp.4771-4800, 2024 (SCI-Expanded)
- IV. **Bacterial Membrane Vesicles as Smart Drug Delivery and Carrier Systems: A New Nanosystems Tool for Current Anticancer and Antimicrobial Therapy**  
Aytar Çelik P., Erdogan-Gover K., Barut D., Enuh B. M., Amasya G., Sengel-Türk C. T., Derkus B., Çabuk A.  
PHARMACEUTICS, vol.15, no.4, 2023 (SCI-Expanded)
- V. **Capecitabine-loaded bacterial membrane vesicles derived from Enterococcus faecalis promotes apoptosis in HT-29 colon cancer cells**  
Erdogan Gover K., Isik M., Barut D., ŞENGEL TÜRK C. T., AMASYA G., DERKUŞ B., ÇABUK A., AYTAR ÇELİK P.  
Biochemical Engineering Journal, vol.189, 2022 (SCI-Expanded)
- VI. **Lonidamine loaded Poly(ethylene glycol)-block-poly(epsilon-caprolacton) nanocarriers inhibited the proliferation of colorectal cancer cells through G0/G1 cell cycle arrest**  
BAKAR ATEŞ F., ŞENGEL TÜRK C. T.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.77, 2022 (SCI-Expanded)
- VII. **Development of salting-out extraction methodology for the determination of piroxicam from polymeric based nanocarriers and biological samples**  
Tok K. C., Gümüştas M., Şengel Türk C. T., Amasya G., Bayram B., Arıoğlu İnan E.  
Journal of Pharmaceutical and Biomedical Analysis, vol.219, 2022 (SCI-Expanded)
- VIII. **Box-Behnken design optimization and in vitro cell based evaluation of piroxicam loaded core-shell type hybrid nanocarriers for prostate cancer**

ŞENGEL TÜRK C. T., Ozkan E., BAKAR ATEŞ F.

Journal of Pharmaceutical and Biomedical Analysis, vol.216, 2022 (SCI-Expanded)

- IX. **Design, characterization and evaluation of cucurbitacin B-loaded core-shell-type hybrid nano-sized particles using DoE approach**  
ŞENGEL TÜRK C. T., ÖZMEN N., BAKAR ATEŞ F.  
POLYMER BULLETIN, vol.78, no.6, pp.3327-3351, 2021 (SCI-Expanded)
- X. **Clinicopathological and immunohistochemical evaluation of lonidamine-entrapped lipid-polymer hybrid nanoparticles in treatment of benign prostatic hyperplasia: An experimental rat model**  
ŞENGEL TÜRK C. T., ALÇIĞIR M. E., EKİM O., BAKAR ATEŞ F., HASÇIÇEK C.  
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.157, pp.211-220, 2020 (SCI-Expanded)
- XI. **Encapsulation of cucurbitacin B into lipid polymer hybrid nanocarriers induced apoptosis of MDAMB231 cells through PARP cleavage**  
BAKAR ATEŞ F., Ozkan E., ŞENGEL TÜRK C. T.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.586, 2020 (SCI-Expanded)
- XII. **SLN enriched hydrogels for dermal application: Full factorial design study to estimate the relationship between composition and mechanical properties**  
AMASYA G., İNAL Ö., ŞENGEL TÜRK C. T.  
CHEMISTRY AND PHYSICS OF LIPIDS, vol.228, 2020 (SCI-Expanded)
- XIII. **Design and in-vitro cell-based evaluation of lonidamine-loaded vitamin E TPGS-conjugated polymeric nanoparticles**  
Bakar-Ates F., ŞENGEL TÜRK C. T.  
FEBS OPEN BIO, vol.8, pp.249, 2018 (SCI-Expanded)
- XIV. **Fulvestrant-loaded polymer-based nanoparticles for local drug delivery: Preparation and in vitro characterization**  
Hascicek C., ŞENGEL TÜRK C. T., GÜMÜŞTAŞ M., Ozkan A. S., Bakar F., Das-Evcimen N., Savaser A., Ozkan Y.  
Journal of Drug Delivery Science and Technology, vol.40, pp.73-82, 2017 (SCI-Expanded)
- XV. **Design of lipid-polymer hybrid nanoparticles for therapy of BPH: Part I. Formulation optimization using a design of experiment approach**  
ŞENGEL TÜRK C. T., HASÇIÇEK C.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.39, pp.16-27, 2017 (SCI-Expanded)
- XVI. **Comparative Evaluation of Nimesulide-Loaded Nanoparticles for Anticancer Activity Against Breast Cancer Cells**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., BAKAR ATEŞ F., Simsek E.  
AAPS PHARMSCITECH, vol.18, no.2, pp.393-403, 2017 (SCI-Expanded)
- XVII. **Optimization of Stability Indicating LC Method for the Sensitive In vitro Determination from Solid Lipid Nanoparticles and Ex vivo Analysis from Rat Skin of Etofenamate**  
Gümüştaş M., Şengel Türk C. T., Badıllı F. U., Amasya G., Özkan S. A., Tarimci N.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.13, no.1, pp.63-71, 2017 (SCI-Expanded)
- XVIII. **Effect of Polymer-Based Nanoparticles on the Assay of Antimicrobial Drug Delivery Systems**  
Gümüştaş M., Şengel Türk C. T., Gumustas A., Ozkan S. A., Uslu B.  
MULTIFUNCTIONAL SYSTEMS FOR COMBINED DELIVERY, BIOSENSING AND DIAGNOSTICS, pp.67-108, 2017 (SCI-Expanded)
- XIX. **Novel Drug Delivery System for Dermal Uptake of Etofenamate: Semisolid SLN Dispersion**  
BADILLI F. U., ŞENGEL TÜRK C. T., AMASYA G., Tarimci N.  
CURRENT DRUG DELIVERY, vol.14, no.3, pp.386-393, 2017 (SCI-Expanded)
- XX. **DEVELOPMENT OF SOLID LIPID NANOCARRIERS FOR ORAL DELIVERY OF CANDESERTAN CILEXETIL**  
UĞURLU T., Nalbantoglu A., ŞENGEL TÜRK C. T.  
ACTA POLONIAE PHARMACEUTICA, vol.73, no.6, pp.1631-1638, 2016 (SCI-Expanded)
- XXI. **Development of Etofenamate-Loaded Semisolid SLN Dispersions and Evaluation of Anti-Inflammatory Activity for Topical Application**  
BADILLI F. U., ŞENGEL TÜRK C. T., BEŞİKCİ A., Tarimci N.

- CURRENT DRUG DELIVERY, vol.12, no.2, pp.200-209, 2015 (SCI-Expanded)
- XXII. **Optimization of a validated stability-indicating RP-LC method for the determination of fulvestrant from polymeric based nanoparticle systems, drugs and biological samples**  
Gümüştas M., Şengel Türk C. T., Hasçıçek C., Özkan S. A.  
BIOMEDICAL CHROMATOGRAPHY, vol.28, no.10, pp.1409-1417, 2014 (SCI-Expanded)
- XXIII. **Formulation and Optimization of Nonionic Surfactants Emulsified Nimesulide-Loaded PLGA-Based Nanoparticles by Design of Experiments**  
ŞENGEL TÜRK C. T., ÖZ U. C., SERİM T. M., HASÇİÇEK C.  
AAPS PHARMSCITECH, vol.15, no.1, pp.161-176, 2014 (SCI-Expanded)
- XXIV. **Surface modification and evaluation of PLGA nanoparticles: the effects on cellular uptake and cell proliferation on the HT-29 cell line**  
ŞENGEL TÜRK C. T., Hascicek C., Dogan A. L., ESENDAĞLI G., Guc D., Gonul N.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.24, no.2, pp.166-172, 2014 (SCI-Expanded)
- XXV. **Preparation and in vitro evaluation of meloxicam-loaded PLGA nanoparticles on HT-29 human colon adenocarcinoma cells**  
ŞENGEL TÜRK C. T., HASÇİÇEK C., Dogan A. L., ESENDAĞLI G., Guc D., Gonul N.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.38, no.9, pp.1107-1116, 2012 (SCI-Expanded)
- XXVI. **Ethylcellulose-Based Matrix-Type Microspheres: Influence of Plasticizer RATIO as Pore-Forming Agent**  
ŞENGEL TÜRK C. T., HASÇİÇEK C., Gonul N.  
AAPS PHARMSCITECH, vol.12, no.4, pp.1127-1135, 2011 (SCI-Expanded)
- XXVII. **VITAMIN E TPGS COATED BIODEGRADABLE POLYMERIC NANOPARTICLES OF MELOXICAM FOR COLON-SPECIFIC DELIVERY**  
ŞENGEL TÜRK C. T., HASÇİÇEK C., Gonul N.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.1, pp.103-105, 2009 (SCI-Expanded)
- XXVIII. **Evaluation of drug-polymer interaction in polymeric microspheres containing diltiazem hydrochloride**  
Turk C. T., Hascicek C., Gonul N.  
Journal of Thermal Analysis and Calorimetry, vol.95, no.3, pp.865-869, 2009 (SCI-Expanded)
- XXIX. **Microsphere-based once-daily modified release matrix tablets for oral administration in angina pectoris**  
Sengel-Tuerk C. T., HASÇİÇEK C., Goenuel N.  
Journal of Microencapsulation, vol.25, no.4, pp.257-266, 2008 (SCI-Expanded)
- XXX. **Development and in-vitro evaluation of modified release tablets including ethylcellulose microspheres loaded with diltiazem hydrochloride**  
Sengel C. T., HASÇİÇEK C., Gonul N.  
Journal of Microencapsulation, vol.23, no.2, pp.135-152, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **CORE SHELL TYPE LIPID POLYMER HYBRID NANOCARRIERS AS A NOVEL-GENERATION DRUG DELIVERY PLATFORM**  
ŞENGEL TÜRK C. T.  
JOURNAL OF RESEARCH IN PHARMACY, vol.27, pp.1-3, 2023 (ESCI)
- II. **Nanofibers as implantable controlled release systems, Polymer science,**  
Serim T. M., Eren Böncü T., Amasya G., Şengel Türk C. T., Özdemir A. N.  
Polymer Science-PSPRJ, vol.2, no.5, 2022 (Peer-Reviewed Journal)
- III. **NEW GENERATION LIPID-BASED DRUG DELIVERY SYSTEMS: LIPID NANOKAPSÜLES YENİ NESİL LİPİT BAZLI İLAÇ TAŞIYICI SİSTEMLER: LİPİT NANOKAPSÜLLER**  
DEMİRTAŞ H., ŞENGEL TÜRK C. T.

- Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.46, no.1, pp.239-261, 2022 (Scopus)
- IV. **Gold nanoparticles and uses in cancer Altın nanopartiküller ve kanserde kullanımları**  
DEMİRTAŞ H., ŞENGEL TÜRK C. T.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.45, no.1, pp.70-95, 2021 (Scopus)
- V. **Development and in-vitro evaluation of chitosan chloride decorated PLGA based polymeric nanoparticles of nimesulide**  
ŞENGEL TÜRK C. T., Bayram B.  
JOURNAL OF RESEARCH IN PHARMACY, vol.25, no.4, pp.379-387, 2021 (ESCI)
- VI. **Development and Statistical Optimization of Solid Lipid Nanoparticle Formulations of Fluticasone Propionate**  
AMASYA G., ŞENGEL TÜRK C. T., Badilli U., Tarimci N.  
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.17, no.4, pp.359-366, 2020 (ESCI)
- VII. **Effects of Lonidamine-Loaded Lipid-Polymer Hybrid Nanoparticles on Cardiac Fibrosis Induced By High-Dose Testosterone Propionate In Adult and Neutered Male Rats**  
ALÇIĞIR M. E., ŞENGEL TÜRK C. T., HASÇIÇEK C., EKİM O.  
Kocatepe Veterinary Journal, vol.11, no.4, pp.402-413, 2018 (Peer-Reviewed Journal)
- VIII. **Influence of polymer molecular weight on in-vitro characteristics and cytotoxicity of fulvestrant loaded nanoparticles**  
Hasçicek C., Şengel Türk C. T., Gümüştaş M., Özkan S. A., Bakar Ateş F., Das-Evcimen N., Savaser A., Ozkan Y.  
Current Drug Therapy, vol.9, no.4, pp.239-249, 2015 (Scopus)
- IX. **Design of vitamin E D- $\alpha$ -tocopheryl polyethylene glycol 1000 succinate-emulsified poly (D,L-Lactide-co-glycolide) nanoparticles: Influence of duration of ultrasonication energy**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
Journal of Young Pharmacists, vol.3, no.3, pp.171-175, 2011 (ESCI)
- X. **Surface modification of polymeric nanoparticulate drug carrier systems Polimerik nanopartiküller ilaç taşıyıcı sistemlerde yüzey modifikasyonu**  
ŞENGEL TÜRK C. T., HASÇIÇEK C.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.38, no.2, pp.137-154, 2009 (Scopus)
- XI. **Preparation of polymeric nanoparticles using different stabilizing agents**  
ŞENGEL TÜRK C. T., SEZGİN BAYINDIR Z., BADILLI F. U.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.38, no.4, pp.257-268, 2009 (Scopus)
- XII. **Beyne İlaç Hedeflendirilmesinde Nanopartiküller İlaç Taşıyıcı Sistemler**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
Journal of Neurological Sciences (Turkish), vol.24, no.3, pp.254-263, 2007 (Peer-Reviewed Journal)
- XIII. **Colon targeted drug delivery systems Kolona hedeflenen ilaç taşıyıcı sistemler**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.35, no.2, pp.125-148, 2006 (Scopus)

## Books & Book Chapters

- I. **Formülasyon Tasarımı ve Dozaj Formu Geliştirilmesi**  
AMASYA G., ŞENGEL TÜRK C. T.  
in: İlaç Keşfi ve Geliştirilmesi, Mehmet Alp, Editor, Akademisyen Yayınevi, Ankara, pp.107-131, 2021
- II. **Nanolifler ve Eczacılıktaki Uygulamaları**  
SERİM T. M., EREN BÖNCÜ T., AMASYA G., ŞENGEL TÜRK C. T., ÖZDEMİR A. N.  
in: Eczacılıkta Yenilikler 3, Gülbin Özçelikay, İlkay Yıldız, Editor, Ankara Üniversitesi Yayınları, No: 698, Ankara, pp.403-424, 2020
- III. **Effect of Polymer-Based Nanoparticles on the Assay of Antimicrobial Drug Delivery Systems**  
GÜMÜŞTAŞ M., ŞENGEL TÜRK C. T., GÜMÜŞTAŞ A., ÖZKAN S. A., USLU B.  
in: Multifunctional Systems for Combined Delivery, Biosensing and Diagnostics, Alexandru Mihai Grumezescu,

Editor, Elsevier, Cambridge, pp.67-108, 2017

- IV. **Nano-sized Drug Carriers for Oral Delivery of Anti-Cancer Compounds and the Place of the Chromatographic Techniques**  
ŞENGEL TÜRK C. T., GÜMÜŞTAŞ M., USLU B., ÖZKAN S. A.  
in: Nano- and Microscale Drug Delivery Systems, 1st Edition, Alexandru Mihai Grumezescu, Editor, Elsevier, Cambridge, pp.165-195, 2017

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Enhancing Anticancer Potential: Optimization of Niclosamide Loaded Lipid Nanocapsules for Improved Delivery and Quantification**  
DEMİRTAŞ H., TOK K. C., GÜMÜŞTAŞ M., ŞENGEL TÜRK C. T.  
33rd International Symposium on Pharmaceutical and Biomedical Analysis (PBA2023), Ankara, Turkey, 02 July 2023
- II. **Development of Salting-out Extraction Method for the Determination of Piroxicam from Polymeric Based Nanocarriers and Biological Samples**  
Tok K. C., Gümüştaş M., Bayram B., Amasya G., Arıoğlu İnan E., Şengel Türk C. T.  
2nd European Sample Preparation e-Conference (EuSP2022), 14 - 16 March 2022, pp.1
- III. **IN VIVO EVALUATION ON FLUTICASONE PROPIONATE LOADED SEMI-SOLID LIPID NANOPARTICLE DISPERSIONS**  
BADILLI F. U., ŞENGEL TÜRK C. T., AMASYA G., ALÇIĞIR M. E., BEŞİKCİ A., AKSU N. B., TARIMCI M. N., HAZIROĞLU R.  
20th International Pharmaceutical Technology Symposium – IPTS 2022, Ankara, Turkey, 21 - 23 February 2022
- IV. **A Systematic Screening Design Study for Preparation of Niclosamide Loaded Lipid Nanocapsules**  
Demirtaş H., Şengel Türk C. T.  
20th International Pharmaceutical Technology Symposium (IPTS 2022), Ankara, Turkey, 21 - 23 February 2022, pp.234
- V. **Optimization of LC Method for the Determination of Fluticasone Propionate from Drug Delivery Systems**  
Tok K. C., Amasya G., Şengel Türk C. T., Badıllı F. U., Gümüştaş M.  
3rd International Gazi Pharma Symposium Series (GPSS2021), Kyoto, Japan, 08 September 2021
- VI. **A NEW PERSPECTIVE FOR DEXPANTHENOL ORALLY DISINTEGRATING FILMS THROUGH DESIGN OF EXPERIMENT APPROACH**  
İNAL Ö., KALFA N., ŞENGEL TÜRK C. T.  
3rd International Gazi Pharma Symposium Series (GPSS-2021), Ankara, Turkey, 8-10.09.2021, Ankara, Turkey, 08 September 2021
- VII. **Application of Design of Experiment Approach for Optimization of Piroxicam Loaded Polymeric Based Nanocarriers**  
Bayram B., Şengel Türk C. T.  
3rd International Gazi Pharma Symposium Series (GPSS-2021), Ankara, Turkey, 8 - 10 September 2021, pp.22
- VIII. **Optimization of HPLC method for the determination of piroxicam from polymeric based nanocarriers and biological samples**  
Gümüştaş M., Tok K. C., Bayram B., Amasya G., Arıoğlu İnan E., Şengel Türk C. T.  
31st International Symposium on Pharmaceutical and Biomedical Analysis, Kyoto, Japan, 29 August - 01 September 2021
- IX. **ATORVASTATIN-ENCAPSULATED CORE-SHELL TYPE HYBRID NANOCARRIERS FOR LOCAL THERAPY OF BREAST CANCER: FORMULATION AND OPTIMIZATION STUDIES**  
ŞENGEL TÜRK C. T., BAKAR ATEŞ F.  
13th International. Symposium on Pharmaceutical Science, 22 June 2021
- X. **DoE Based Approach for the Design of Piroxicam Loaded Polymeric Nanoparticles**  
Bayram B., Şengel Türk C. T.

13th International Symposium on Pharmaceutical Sciences (ISOPS-13), Ankara, Turkey, 22 - 25 June 2021, pp.155

- XI. **Design of Experiment (DoE) based optimization and in-vitro cell culture studies of piroxicam loaded hybrid nanoparticles for prostate cancer**  
ŞENGEL TÜRK C. T., BAKAR ATEŞ F.  
EUFEPS Annual Meeting 2021, 07 June 2021
- XII. **Semisolid NLC dispersions: QbD based formulation optimization and ex vivo – in vivo evaluation**  
AMASYA G., ŞENGEL TÜRK C. T., BADILLI F. U., AKSU N. B., BEŞİKCİ A., TARIMCI M. N.  
EUFEPS Virtual Annual Meeting 2021 – Bridging the gap between the patient and product design, Sweden, 7 - 09 June 2021
- XIII. **Effects of Cucurbitacin B Hybrid Nanocarriers on Apoptosis of MDAMB231 Cells Through PARP Cleavage**  
BAKAR ATEŞ F., ÖZKAN E., ŞENGEL TÜRK C. T.  
7th International Drug Chemistry Conference, 14 - 17 March 2019
- XIV. **Formulation Design and Cytotoxic Effects of Cucurbitacin B Encapsulated Lipid-Polymer Hybrid Nanocarriers**  
ŞENGEL TÜRK C. T., ÖZMEN N., BAKAR ATEŞ F.  
7th International Drug Chemistry Conference, 14 - 17 March 2019
- XV. **Cucurbitacin B Loaded Lipid Polymer Hybrid Nanocarriers Induced a Significant Decrease in Mitochondrial Membrane Potential in Breast Cancer Cells**  
BAKAR ATEŞ F., ÖZKAN E., ŞENGEL TÜRK C. T.  
HDIR-5 Meeting, Zagreb, Croatia, 8 - 10 November 2018
- XVI. **ANTICANCER EFFECT OF CUCURBITACIN B LOADED HYBRID NANOCARRIERS ON HUMAN BREAST CANCER CELLS**  
BAKAR ATEŞ F., ÖZKAN E., ŞENGEL TÜRK C. T.  
TBD Uluslararası Biyokimya Kongresi - 29. Ulusal Biyokimya Kongresi, Turkey, 26 - 30 October 2018
- XVII. **PREPARATION OF CUCURBITACIN B ENCAPSULATED LIPID POLYMER HYBRID NANOCARRIERS AND EVALUATION OF THEIR CYTOTOXIC EFFECTS**  
ŞENGEL TÜRK C. T., ÖZMEN N., BAKAR ATEŞ F.  
19th International Pharmaceutical Technology Symposium, 17 - 19 September 2018
- XVIII. **Preparation and Optimization of Cucurbitacin B Loaded Core-Shell Type Hybrid Nanoparticles Using a Full Factorial Design Study**  
ŞENGEL TÜRK C. T., ÖZMEN N., BAKAR ATEŞ F.  
12th International Symposium on Pharmaceutical Sciences, 26 - 29 June 2018, pp.289
- XIX. **Design and in-vitro cell-based evaluation of lonidamine-loaded vitamin E TPGS-conjugated polymeric nanoparticles**  
BAKAR ATEŞ F., ŞENGEL TÜRK C. T.  
The 43rd FEBS Congress, 7 - 12 July 2018, pp.249
- XX. **Validation of HPLC Methods for the Analysis of Nanoparticle Based Drug Delivery Systems**  
GÜMÜŞTAŞ M., AMASYA G., ŞENGEL TÜRK C. T., BADILLI F. U., TARIMCI M. N., ÖZKAN S. A.  
8-th Annual Symposium on Physical and Analytical Chemistry (8th ASPAC), Tiflis, Georgia, 28 - 29 December 2017
- XXI. **Validation of HPLC Method for the Analysis of Nanoparticle Based Drug Delivery Systems**  
GÜMÜŞTAŞ M., AMASYA G., ŞENGEL TÜRK C. T., BADILLI F. U., TARIMCI M. N., ÖZKAN S. A.  
8th Annual Symposium on Physical and Analytical Chemistry at Tbilisi State University, 28 - 29 December 2017
- XXII. **Design and Optimization of Fluticasone Propionate Loaded Solid Lipid Nanoparticles by 32 Factorial Design**  
AMASYA G., ŞENGEL TÜRK C. T., BADILLI F. U., TARIMCI M. N.  
2nd International Gazi Pharma Symposium Series (GPSS 2017), Ankara, Turkey, 11 - 13 October 2017
- XXIII. **Design and optimization of fluticasone propionate loaded solid lipid nanoparticles by factorial design**  
AMASYA G., ŞENGEL TÜRK C. T., BADILLI F. U., TARIMCI M. N.  
2nd International Gazi Pharma Symposium, Ankara, Turkey, 11 - 13 October 2017

- XXIV. **Antiproliferative Activity and Safety of Lonidamine Encapsulated PEG-block-PCL Nanocarriers Against SW480 Colon Cancer Cells**  
ŞENGEL TÜRK C. T., BAKAR F.  
VI. International Congress of Molecular Medicine, İstanbul, Turkey, 22 - 25 May 2017
- XXV. **Design and In-Vivo Based Evaluation of Lonidamine Loaded Hybrid Nanoparticles for Treatment of Bening Prostatic Hyperplasia**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., EKİM O., ALÇIĞIR M. E., BAKAR ATEŞ F.  
22nd International Biomedical Science & Technology Symposium BIOMED 2017, 12 May 2017
- XXVI. **Design and In-vivo Model Based Evaluation of Lonidamine Loaded Hybrid Nanoparticles for Treatment of Benign Prostatic Hyperplasia**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., EKİM O., ALÇIĞIR M. E., BAKAR ATEŞ F.  
22th International Biomedical Science Technology Symposium, Ankara, Turkey, 12 - 14 May 2017
- XXVII. **ANTIPROLIFERATIVE POTENTIAL OF NANOPARTICLE BASED DELIVERY SYSTEM OF FULVESTRANT ON MCF 7 HUMAN BREAST CANCER CELLS**  
HASÇIÇEK C., ŞENGEL TÜRK C. T., BAKAR F., EVCİMEN N., GÜMÜŞTAŞ M., ÖZKAN S. A., SAVAŞER A., ÖZKAN Y.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXVIII. **Benign prostat hiperplazisinin tedavisine yönelik lipit-polimer sistemlerin geliştirilmesi ve değerlendirilmesi**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., EKİM O., ALÇIĞIR M. E.  
1. Ulusal Marmara Eczacılık Kongresi, Turkey, 3 - 05 November 2016
- XXIX. **Dermal behaviour of semisolid SLN dispersions of etofenamate**  
BADILLI F. U., ŞENGEL TÜRK C. T., AMASYA G., TARIMCI M. N.  
International Gazi Pharma Symposium, Antalya, Turkey, 12 - 15 November 2015
- XXX. **Design and characterization of hibrid nanaoparticulate systems for tratment of benigh prostatic hyperplasia**  
ŞENGEL TÜRK C. T., HASÇIÇEK C.  
International Gazi Pharma Symposium (GPSS 2015), 12 - 15 October 2015
- XXXI. **Optimization of sensitive and selective RP LC method for the determination of etofenamate from rat skin**  
AMASYA G., GÜMÜŞTAŞ M., ŞENGEL TÜRK C. T., BADİLLİ U., ÖZKAN S. A., TARIMCI M. N.  
The European Conference on Analytical Chemistry 18, Euroanalysis 2015, 6 - 10 September 2015
- XXXII. **Occlusive and mechanical characteristics of etofenamate encapsulated semisolid SLN formulations**  
BADILLI F. U., ŞENGEL TÜRK C. T., AMASYA G., TARIMCI M. N.  
11th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 9 - 12 June 2015
- XXXIII. **Development and Evaluation of a Lipid Polymer Hybrid Nanoparticulate System**  
ŞENGEL TÜRK C. T., HASÇIÇEK C.  
11th International Symposium on Pharmaceutical Sciences (ISOPS-11), Ankara, Turkey, 9 - 12 June 2015
- XXXIV. **Fulvetrantin Ters Faz Sivi Kromatografik Yontemle Biyolojik Sivilar ve Polimerik Bazlı Nanopartikullerden Analizi**  
GÜMÜŞTAŞ M., ŞENGEL TÜRK C. T., HASÇIÇEK C., ÖZKAN S. A., BAKAR F., EVCİMEN N., SAVAŞER A., ÖZKAN Y.  
15. Ulusal Kromatografi Kongresi (Kromatografi 2015), Turkey, 8 - 10 April 2015
- XXXV. **Fulvestrant in Ters Faz Sıvı Kromatografik Yöntemle Biyolojik Sıvılar ve Polimerik Bazlı Nanopartiküllerden Analizi**  
GÜMÜŞTAŞ M., ŞENGEL TÜRK C. T., HASÇIÇEK C., ÖZKAN S. A., BAKAR F., EVCİMEN N., savaşer a., ÖZKAN Y.  
15. Ulusal Kromatografi Kongresi Uşak Üniversitesi Mühendislik Fakültesi Gıda Mühendisliği Bölümü, AFYON, Turkey, 8 - 10 April 2015
- XXXVI. **Comparative Study of Losartan Potassium Release From Matrix Tablets with Kollidon SR or Ethylcellulose**  
ERGİN A. D., Eren T., TURHAN F., ŞENGEL TÜRK C. T., HASÇIÇEK C.  
3rd Conference on Innovation in Drug Delivery Advances in Local Drug Delivery (APGI-2013), Roma, 22 - 25 September 2014



- XXXVII. **Fabrication Of Fulvestrant Loaded Modified Released Nanoparticles: Effect Of Copolymer Molecular Weight On Particle Characteristics**  
HASÇIÇEK C., ŞENGEL TÜRK C. T., BAKAR F., EVCİMEN N., GÜMÜŞTAŞ M., ÖZKAN S. A.  
4 Th International Meeting On Pharmacy Pharmaceutical Sciences (Impps-4), 18 - 21 September 2014
- XXXVIII. **Fulvestrant Loaded Plga Nanoparticles: Influence Of Polymer Copolymer Composition On In-Vitro Properties And Anti-Proliferative Potencies Against Mcf-7 Breast Cancer Cells**  
HASÇIÇEK C., ŞENGEL TÜRK C. T., BAKAR F., EVCİMEN N., GÜMÜŞTAŞ M., ÖZKAN S. A.  
17 th International Pharmaceutical Technology Symposium, 8 - 10 September 2014
- XXXIX. **The Effect of Fulvestrant to Aromatase Activity on Human Preadipocyte Cells**  
BAKAR F., Net D. E., ŞENGEL TÜRK C. T., HASÇIÇEK C.  
EACR- Sponsored 2nd Anticancer Agents Congress & 5th Multidisciplinary Cancer Research Congress, Bodrum, Turkey, 23 - 24 April 2014
- XL. **Fabrication of Fulvestrant Loaded Modified Released Nanoparticles Comparison of Copolymer Molecular Weight**  
HASÇIÇEK C., ŞENGEL TÜRK C. T., GÜMÜŞTAŞ M., ÖZKAN S. A., Ayhan S., ÖZKAN Y.  
13th European Symposium on Controlled Drug Delivery, 16 - 18 April 2014
- XLII. **A Systematic Study of PLGA Nanoparticles Part II Effect Of Formulation Variables On Particle Characteristics**  
SERİM T. M., ÖZ U. C., ŞENGEL TÜRK C. T., HASÇIÇEK C.  
FIP World Congress, Towards a future vision for complex patients: Integrated care in a dynamic continuum (FIP-2013), Dublin, Ireland, 31 August - 05 September 2013
- XLIII. **A systemic study of PLGA nanoparticles: Part II. Effect of formulation variables on particle characteristics**  
SERİM T. M., ÖZ U. C., ŞENGEL TÜRK C. T., HASÇIÇEK C.  
73rd International Congress of FIP, World Congress of Pharmacy and Pharmaceutical Sciences, Dublin, Ireland, 31 August - 05 September 2013
- XLIV. **Kanser tedavisinde kullanılan Fulvestrant'ın ters faz sıvı kromatografik yöntemle analizi**  
GÜMÜŞTAŞ M., ŞENGEL TÜRK C. T., HASÇIÇEK C., ÖZKAN S. A.  
Kromatografi 2013, Bursa, Turkey, 19 - 22 June 2013
- XLV. **Effects of surface modifying agents on the cellular uptake and cell proliferation of PLGA nanoparticles on HT 29 cell line**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., DOĞAN A. L., ESENDAĞLI G., GÜÇ D., Nursin G.  
18th International Symposium on Microencapsulation, Antalya, Turkey, 12 September 2011 - 14 September 2012
- XLVI. **A full factorial design study of PLGA nanoparticles: Part I. Effect of two factors on encapsulation efficiency**  
ÖZ U. C., ŞENGEL TÜRK C. T., SERİM T. M., HASÇIÇEK C.  
16th International Pharmaceutical Technology Symposium, Antalya, Turkey, 10 - 12 September 2012
- XLVII. **Effect of stabilizing agents on the characteristics of plga nanoparticles**  
ŞENGEL TÜRK C. T., SEZGİN BAYINDIR Z., BADILLI F. U.  
International Symposium on Pharmaceutical Sciences- ISOPS 10th, 26 - 29 June 2012
- XLVIII. **A Full Factorial Design Study of PLGA Nanoparticles I Effect of Two Factors on Encapsulation Efficiency**  
ÖZ U. C., SERİM T. M., ŞENGEL TÜRK C. T., HASÇIÇEK C.  
16th International Pharmaceutical Technology Symposium (IPTs-2012), Antalya, Turkey, 10 - 12 April 2012
- XLIX. **Evaluation and Preparation of Nimesulide Loaded PLGA Nanoparticles Using Factorial Design for the Treatment of Rheumatoid Arthritis**  
ŞENGEL TÜRK C. T., SERİM T. M., ÖZ U. C., HASÇIÇEK C.  
8th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, İstanbul, Turkey, 19 - 22 March 2012
- XLX. **Preparation and In vitro Evaluation of Pegylated PLGA Nanoparticles of Meloxicam**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., nursin g., DOĞAN A. L., GÜÇ D.

70th International Congress of FIP, Lizbon, Portugal, 28 August - 02 September 2010

- L. **Development of PLGA Nanoparticles Surface Modified with Didodecyldimethylammonium Bromide Preparation and In vitro Characterization**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
36th Annual Meeting and Exposition of the Controlled Release Society, Copenhagen, 18 - 22 July 2009
- LI. **Effect of Sonication Time on the Physicochemical Characteristics of Vitamin E TPGS Emulsified Polymeric Nanoparticles**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
9th Interational Symposium on Pharmaceutical Sciences (ISOPS-2009), Ankara, Turkey, 23 - 26 June 2009
- LII. **Influence of the Molecular Weight of Poly vinyl alcohol on the In vitro Characterization of PLGA Nanoparti**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Nurşin G.  
Hacettepe Üniversitesi 14th International Pharmaceutical Technology Symposium (IPTS-2008), Antalya, Turkey, 6 - 10 September 2008
- LIII. **Preparation and in vitro characterization of indomethacin loaded PLGA microspheres**  
Sezgin Bayındır Z., Numanoğlu U., Devrim B., Şengel Türk C. T., Karataş A.  
13th International Pharmaceutical Technology Symposium, Ankara, Turkey, 10 - 13 September 2006
- LIV. **The Evaluation of Drug Polymer Interaction in Diltiazem Hydrochloride Loaded Microspheres**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
Proc. 5th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Geneva, 27 - 30 March 2006
- LV. **Microspheres Based Once Daily Modified Release Tablet Formulations of Diltiazem Hydrochloride**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Nurşin G.  
15th International Symposium on Microencapsulation, Parna, 18 - 21 September 2005
- LVI. **Preparation and In vitro Characterization of Modified Release Eudragit RS 100 Microspheres of Diltiazem Hydrochloride**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
PharmSciFair-The Pharmaceutical Sciences Fair and Exhibition, Nice, France, 12 - 17 June 2005
- LVII. **PharmSciFair The Pharmaceutical Sciences Fair and Exhibition**  
ŞENGEL TÜRK C. T., HASÇIÇEK C., Gönül N.  
The 4th International Postgraduate Research Symposium on Pharmaceutics (IPORSIP), İstanbul, Turkey, 20 - 22 September 2003

## Supported Projects

Şengel Türk C. T., GÜMÜŞTAŞ M., BAKAR ATEŞ F., TOK K. C., TUBITAK Project, Fibrosarkoma Tedavisine Yönelik STAT3 İnhibitörü İçeren Nanopartiküler İlaç Taşıyıcı Sistem Formülasyonlarının Geliştirilmesi ve In Vitro-In Vivo Değerlendirilmesi, 2023 - 2025

Şengel Türk C. T., Güney G., Gümüştaş M., TUBITAK Project, Üçlü Negatif Meme Kanserinde Abemasıklı Yüklü Lipid-Polimer Hibrit Nanopartiküllerin Terapötik Etkisinin Araştırılması, 2022 - 2024

Şengel Türk C. T., Aytar Çelik P., DERKUŞ B., TUBITAK Project, Enfekte Akut Yaraların İyileştirilmesinde Antimikrobiyal Venom Peptid İçeren Levam Taşıyıcı Sistemlerinin Geliştirilmesi, 2021 - 2024

Özdemir A. N., Şengel Türk C. T., Serim T. M., Project Supported by Higher Education Institutions, Yara tedavisinde kullanılmak üzere nanofiber formülasyonlarının geliştirilmesi ve in vitro karakterizasyonları, 2021 - 2023

Şengel Türk C. T., Project Supported by Higher Education Institutions, Hepatosellüler Karsinom Tedavisine Yönelik Antiproliferatif Ajan İçeren Nanopartikül Formülasyonlarının Geliştirilmesi ve Değerlendirilmesi, 2021 - 2022

Şengel Türk C. T., Bakar Ateş F., TUBITAK Project, Etopozid Yüklü Hibrit Nanopartiküler İlaç Taşıyıcı Sistemlerin Tasarımı ve Meme Kanseri Hücrelerinde Ferroptotik Etkinliğinin Araştırılması, 2020 - 2021

Şengel Türk C. T., Bakar Ateş F., TUBITAK Project, Kemopreventif Ajan İçeren Nanopartikül Formülasyonlarının Tasarımı, Optimizasyonu ve İnsan Prostat Kanseri Hücrelerindeki Antiproliferatif ve Apoptotik Etki Mekanizmalarının Araştırılması,

2019 - 2020

Şengel Türk C. T., Badıllı F. U., Amasya G., TUBITAK Project, Atopik Dermatit Tedavisi İçin Topikal Kortikosteroid Yüklü Yarıkatı Lipit Nanopartikül Dispersiyonlarının Geliştirilmesi ve İn vitro - İn vivo Değerlendirilmesi (117S967), 2018 - 2020

Şengel Türk C. T., Bakar Ateş F., TUBITAK Project, Kukurbitasin B'nin Lipid Polimer Hibrit Nanopartikül Formülasyonlarının Oluşturulması ve İnsan Meme Kanseri Hücrelerindeki Antiproliferatif ve Apoptotik Etki Mekanizmalarının Araştırılması, 2017 - 2019

ŞENGEL TÜRK C. T., TUBITAK Project, Benign Prostat Hiperplazisinin Tedavisine Yönelik Nano Sistemlerin Hazırlanması ve İn Vivo Değerlendirilmesi, 2014 - 2016

HASÇİÇEK C., BAKAR ATEŞ F., ÖZKAN S. A., ŞENGEL TÜRK C. T., TUBITAK Project, Meme kanseri tedavisinde kullanılmak üzere fulvestrant yüklü polimerik nanopartiküler sistemlerin geliştirilmesi, 2012 - 2015

HASÇİÇEK C., ŞENGEL TÜRK C. T., TUBITAK Project, Kolon Kanseri Tedavisine Yönelik Biyodegradable Nanopartiküller İlaç Taşıyıcı Sistemlerin Geliştirilmesi ve Hedeflendirilmesi, 2007 - 2009

ŞENGEL TÜRK C. T., Project Supported by Higher Education Institutions, Diltiazem Hidroklorür Yüklenmiş Mikrokürelerin Modifiye Kontrollü Salım Yapan Tablet Formülasyonlarının Tasarımı ve Geliştirilmesi, 2002 - 2003

## Activities in Scientific Journals

FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, Committee Member, 2021 - Continues

ANKARA UNIVERSİTESİ ECZACILIK FAKULTESİ DERGİSİ, Committee Member, 2020 - Continues

## Metrics

Publication: 106

Citation (WoS): 543

Citation (Scopus): 420

H-Index (WoS): 14

H-Index (Scopus): 14