

## Prof. SEVDA ŐENEL

### Personal Information

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### International Researcher IDs

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ScopusID: 55951230800

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### Education Information

Doctorate, Hacettepe University, Eczacılık Fakóltesi, Farmasötik Teknoloji, Turkey 1985 - 1989

Postgraduate, Hacettepe University, Eczacılık Fakóltesi, Farmasötik Teknoloji, Turkey 1981 - 1984

Undergraduate, Ankara University, Eczacılık Fakóltesi, Turkey 1976 - 1980

### Foreign Languages

German, B2 Upper Intermediate

French, B2 Upper Intermediate

English, C1 Advanced

### Dissertations

Doctorate, Sürekli salınma sađlayan potasyum klorür tabletlerinin formülasyonu ve in vitro-in vivo deđerlendirilmesi, Hacettepe Üniversitesi, Eczacılık Fakóltesi, Eczacılık Teknolojisi Bölümü, 1989

### Research Areas

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

### Academic Titles / Tasks

Professor, Hacettepe University, Eczacılık Fakóltesi, Eczacılık Teknolojisi Bölümü, 2002 - Continues

### Academic and Administrative Experience

Hacettepe Üniversitesi, Rektörlük, 2002 - 2012

Hacettepe Üniversitesi, Eczacılık Fakóltesi, Eczacılık Teknolojisi Bölümü, 2003 - 2006

## Advising Theses

- ŞENEL S., Doku mühendisliği için kitosan içeren doku iskelesi geliştirilmesi: Formülasyon ve in vitro değerlendirmeler, Postgraduate, S.BURÇİN(Student), 2012
- ŞENEL S., HIV enfeksiyonlarında görülen oral lezyonların tedavisi için girişimsel olmayan ilaç taşıyıcı sistemlerin geliştirilmesi, Postgraduate, Z.GÜLŞEN(Student), 2011
- ŞENEL S., Development and in vitro characterization of vaccine delivery systems for mucosal immunization against bovine Herpes Virus Type 1 (BHV-1) infections, Postgraduate, M.GÜNBEYAZ(Student), 2010
- ŞENEL S., Development of non-invasive vaccine carriers, Doctorate, B.SAYIN(Student), 2007
- ŞENEL S., Oral mukozit tedavisinde kullanılacak etkin bir oklüzif mukoadezif sistemin geliştirilmesi ve değerlendirilmesi, Postgraduate, P.AKSUNGUR(Student), 2003

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

- I. **Special issue on drug delivery research in Turkey**  
ŞENEL S., VARAN C.  
Journal of Drug Delivery Science and Technology, vol.81, 2023 (SCI-Expanded)
- II. **A safe bioadhesive system for topical delivery of combined antimicrobials in treatment of skin infections in veterinary medicine**  
Türkmen E., PARMAKSIZ S., NİGİZ Ş., Sağıroğlu M., ŞENEL S.  
Journal of Drug Delivery Science and Technology, vol.80, 2023 (SCI-Expanded)
- III. **Development of multistage recombinant protein vaccine formulations against toxoplasmosis using a new chitosan and porin based adjuvant system**  
PARMAKSIZ S., Gul A., Alak S. E., Karakavuk M., Can H., Gul C., Karakavuk T., Lopez-Macias C., PURALI N., Doskaya M., et al.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.626, 2022 (SCI-Expanded)
- IV. **Current status and future of delivery systems for prevention and treatment of infections in the oral cavity**  
ŞENEL S., Ozdogan A. I., AKCA G.  
DRUG DELIVERY AND TRANSLATIONAL RESEARCH, vol.11, no.4, pp.1703-1734, 2021 (SCI-Expanded)
- V. **An Overview of Physical, Microbiological and Immune Barriers of Oral Mucosa**  
ŞENEL S.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.22, no.15, 2021 (SCI-Expanded)
- VI. **Mucoadhesive bilayered buccal platform for antifungal drug delivery into the oral cavity**  
Uzunoglu B., Wilson C. G., SAĞIROĞLU M., YÜKSEL S., ŞENEL S.  
DRUG DELIVERY AND TRANSLATIONAL RESEARCH, vol.11, no.1, pp.318-327, 2021 (SCI-Expanded)
- VII. **Development and in vitro evaluation of gel formulation of atorvastatin solid dispersions**  
Ozdogan A. I., AKCA G., ŞENEL S.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.61, 2021 (SCI-Expanded)
- VIII. **An Overview on Chitosan-Based Adjuvant/ Vaccine Delivery Systems**  
PARMAKSIZ S., ŞENEL S.  
CHITOSAN FOR BIOMATERIALS IV: BIOMEDICAL APPLICATIONS, vol.288, pp.293-379, 2021 (SCI-Expanded)
- IX. **Chitosan-based particulate systems for drug and vaccine delivery in the treatment and prevention of neglected tropical diseases**  
ŞENEL S., YÜKSEL S.  
DRUG DELIVERY AND TRANSLATIONAL RESEARCH, vol.10, no.6, pp.1644-1674, 2020 (SCI-Expanded)
- X. **Development and in vitro evaluation of a new adjuvant system containing Salmonella Typhi porins and chitosan**  
YÜKSEL S., PEKCAN M., PURALI N., ESENDAĞLI G., Tavukcuoglu E., Rivero-Arredondo V., Ontiveros-Padilla L., Lopez-Macias C., ŞENEL S.

INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.578, 2020 (SCI-Expanded)

- XI. **Current status and future of chitosan in drug and vaccine delivery**  
ŞENEL S.  
Reactive and Functional Polymers, vol.147, 2020 (SCI-Expanded)
- XII. **Localized drug delivery with mono and bilayered mucoadhesive films and wafers for oral mucosal infections**  
TİMUR S. S., Yüksel S., Akca G., ŞENEL S.  
International Journal of Pharmaceutics, vol.559, pp.102-112, 2019 (SCI-Expanded)
- XIII. **Development and in vitro evaluation of chitosan based system for local delivery of atorvastatin for treatment of periodontitis**  
Işıl Özdöğ an A., AKCA G., ŞENEL S.  
European Journal of Pharmaceutical Sciences, vol.124, pp.208-216, 2018 (SCI-Expanded)
- XIV. **In vivo evaluation of chitosan based local delivery systems for atorvastatin in treatment of periodontitis.**  
Özdöğ an A., İlarıslan Y., Kösemehmetođ lu K., Akca G., Kutlu H., Comerıdov E., Iskit A. B., Şenel S.  
International journal of pharmaceutics, vol.550, pp.470-476, 2018 (SCI-Expanded)
- XV. **Comparison of different types and sources of chitosan for the treatment of infections in the oral cavity**  
AKCA G., Özdemir A., Öner Z. G., ŞENEL S.  
Research on Chemical Intermediates, vol.44, no.8, pp.4811-4825, 2018 (SCI-Expanded)
- XVI. **Network on veterinary medicines initiated by the European Federation For Pharmaceutical Sciences**  
Mochel J. P., Tyden E., Hellmann K., Vendrig J. C., ŞENEL S., Dencker L., Cristina R. T., Linden H., Schmerold I.  
JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS, vol.41, no.3, pp.378-383, 2018 (SCI-Expanded)
- XVII. **Orally disintegrating tablets, fast-dissolving, buccal and sublingual formulations**  
ŞENEL S., Comoglu T.  
Pharmaceutical Development and Technology, vol.23, no.5, pp.431, 2018 (SCI-Expanded)
- XVIII. **Moxifloxacin Loaded Chitosan Gel Formulations for the Treatment of Periodontal Diseases**  
AZERAN N., NTB Z., DOĐ AN S. S., DOĐ AN A., EKİZOĐ LU M., RAVI S., KEMAL D., SAHU P., ŞENEL S.  
Journal Of Polymer Materials, 2017 (SCI-Expanded)
- XIX. **Moxifloxacin loaded chitosan gel formulations for the treatment of periodontal diseases**  
Bintiazeran N. S., Diyanabintizazali N., Sedatimur S. S., Özdöğ an A. L., EKİZOĐ LU M., Sheshala R., Dua K., Sahu P. S., ŞENEL S.  
Journal of Polymer Materials, vol.34, no.1, pp.157-169, 2017 (SCI-Expanded)
- XX. **Position Paper: EUFEPS Network on Veterinary Medicines Initiative: An interdisciplinary forum to support Veterinary Pharmacology and promote the development of new pharmaceuticals for Animal Health**  
Dencker L., Hellmann K., Mochel J., ŞENEL S., Tyden E., vendrig J., Lİnden H., schmerold I.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.91, 2016 (SCI-Expanded)
- XXI. **Meet our editorial board member**  
Xu H.  
Current Drug Delivery, vol.13, no.2, pp.171, 2016 (SCI-Expanded)
- XXII. **Oral Mucosa for Delivery of Drugs, Allergens and Vaccines: Where are we Now?**  
ŞENEL S.  
CURRENT DRUG DELIVERY, vol.13, no.2, pp.172-174, 2016 (SCI-Expanded)
- XXIII. **Oral Mucosal Drug Delivery and Therapy Preface**  
Rathbone M. J., ŞENEL S., Pather I.  
ORAL MUCOSAL DRUG DELIVERY AND THERAPY, 2015 (SCI-Expanded)
- XXIV. **Overview of Oral Mucosal Delivery**  
Rathbone M. J., Pather I., ŞENEL S.  
ORAL MUCOSAL DRUG DELIVERY AND THERAPY, pp.17-29, 2015 (SCI-Expanded)
- XXV. **Design and Development of Systemic Oral Mucosal Drug Delivery Systems**

- Rathbone M. J., ŞENEL S., Pather I.  
ORAL MUCOSAL DRUG DELIVERY AND THERAPY, pp.149-167, 2015 (SCI-Expanded)
- XXVI. **Chitosan-based systems for intranasal immunization against foot-and-mouth disease**  
ÇOKÇALIŞKAN C., ÖZYÖRÜK F., GÜRSOY R. N., ALKAN M., GÜNBEYAZ M., Arca H. C., UZUNLU E., ŞENEL S.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.19, no.2, pp.181-188, 2014 (SCI-Expanded)
- XXVII. **Characterization of Protein and Peptide Binding to Nanogels Formed by Differently Charged Chitosan Derivatives**  
Zubareva A., Ilyina A., Prokhorov A., Kurek D., Efremov M., Varlamov V., ŞENEL S., Ignatyev P., Svirshchevskaya E.  
MOLECULES, vol.18, no.7, pp.7848-7864, 2013 (SCI-Expanded)
- XXVIII. **Developing and advancing dry powder inhalation towards enhanced therapeutics**  
Stegemann S., Kopp S., Borchard G., Shah V. P., ŞENEL S., Dubey R., Urbanetz N., Cittero M., Schoubben A., Hippchen C., et al.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.48, pp.181-194, 2013 (SCI-Expanded)
- XXIX. **Two percent chitosan mouthwash: A microbiological and clinical comparative study**  
URAZ A., Boynuegri D., ÖZCAN G., Karaduman B., Uc D., ŞENEL S., Pehlivan S., ÖĞÜŞ E., Sultan N.  
JOURNAL OF DENTAL SCIENCES, vol.7, no.4, pp.342-349, 2012 (SCI-Expanded)
- XXX. **Recent developments in buccal and sublingual delivery systems**  
ŞENEL S., Rathbone M. J., Cansiz M., Pather I.  
EXPERT OPINION ON DRUG DELIVERY, vol.9, no.6, pp.615-628, 2012 (SCI-Expanded)
- XXXI. **Fundamentals of Vaccine Delivery in Infectious Diseases**  
ŞENEL S.  
FUNDAMENTALS AND APPLICATIONS OF CONTROLLED RELEASE DRUG DELIVERY, pp.517-532, 2012 (SCI-Expanded)
- XXXII. **Chitosan-Based Particulate Systems for Non-Invasive Vaccine Delivery**  
ŞENEL S.  
CHITOSAN FOR BIOMATERIALS I, vol.243, pp.111-137, 2011 (SCI-Expanded)
- XXXIII. **Chitosan based delivery systems for mucosal immunization against bovine herpesvirus 1 (BHV-1)**  
Gunbeyaz M., Faraji A., Ozkul A., PURALI N., ŞENEL S.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.41, pp.531-545, 2010 (SCI-Expanded)
- XXXIV. **Effects of Platelet-Rich Plasma and Chitosan Combination on Bone Regeneration in Experimental Rabbit Cranial Defects**  
Oktay E. O., Demiralp B., Demiralp B., ŞENEL S., AKMAN A. C., Eratalay K., Akincibay H.  
JOURNAL OF ORAL IMPLANTOLOGY, vol.36, no.3, pp.175-184, 2010 (SCI-Expanded)
- XXXV. **Potential applications of chitosan in oral mucosal delivery**  
Senel S.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.20, no.1, pp.23-32, 2010 (SCI-Expanded)
- XXXVI. **TMC-MCC (N-trimethyl chitosan-mono-N-carboxymethyl chitosan) nanocomplexes for mucosal delivery of vaccines**  
Sayin B., Somavarapu S., Li X. W., Sesardic D., ŞENEL S., Alpar O. H.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.4, pp.362-369, 2009 (SCI-Expanded)
- XXXVII. **PREPARATION OF A CHITOSAN-BASED FORMULATION FOR THE TREATMENT OF ORAL MUCOSAL DISORDERS**  
Ozdemir A., AKCA G., Oner Z. G., Gunbeyaz M., ŞENEL S.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.1, pp.106-108, 2009 (SCI-Expanded)
- XXXVIII. **Clinical and Radiographic Evaluations of Chitosan Gel in Periodontal Intraosseous Defects: A Pilot Study**  
Boynuegri D., ÖZCAN G., ŞENEL S., Uc D., URAZ A., ÖĞÜŞ E., Cakilci B., Karaduman B.  
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.1, pp.461-466, 2009 (SCI-Expanded)
- XXXIX. **Chitosan-based systems for the delivery of vaccine antigens**  
Arca H. C., Guenbeyaz M., ŞENEL S.

- EXPERT REVIEW OF VACCINES, vol.8, no.7, pp.937-953, 2009 (SCI-Expanded)
- XL. **Mono-N-carboxymethyl chitosan (MCC) and N-trimethyl chitosan (TMC) nanoparticles for non-invasive vaccine delivery**  
Sayin B., Somavarapu S., Li X. W., Thanou M., Sesardic D., Alpar H. O., ŞENEL S.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.363, pp.139-148, 2008 (SCI-Expanded)
- XLI. **Current status and the future of buccal drug delivery systems**  
Pather S. I., Rathbone M. J., ŞENEL S.  
EXPERT OPINION ON DRUG DELIVERY, vol.5, no.5, pp.531-542, 2008 (SCI-Expanded)
- XLII. **Application of chitosan gel in the treatment of chronic periodontitis**  
Akincibay H., ŞENEL S., YETKİN AY Z.  
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.2, pp.290-296, 2007 (SCI-Expanded)
- XLIII. **Development and in vitro/in vivo evaluations of bioadhesive buccal tablets for nicotine replacement therapy**  
Ikinci G., ŞENEL S., Tokgozoglu L., Wilson C., Sumnu M.  
PHARMAZIE, vol.61, no.3, pp.203-207, 2006 (SCI-Expanded)
- XLIV. **Potential applications of chitosan in veterinary medicine**  
Senel S., McClure S.  
ADVANCED DRUG DELIVERY REVIEWS, vol.56, no.10, pp.1467-1480, 2004 (SCI-Expanded)
- XLV. **Development of a buccal bioadhesive nicotine tablet formulation for smoking cessation**  
Ikinci G., ŞENEL S., Wilson C., Sumnu M.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.277, pp.173-178, 2004 (SCI-Expanded)
- XLVI. **Chitosan supports the initial attachment and spreading of osteoblasts preferentially over fibroblasts**  
Fakhry A., Schneider G., Zaharias R., Senel S.  
BIOMATERIALS, vol.25, no.11, pp.2075-2079, 2004 (SCI-Expanded)
- XLVII. **The release of model macromolecules may be controlled by the hydrophobicity of palmitoyl glycol chitosan hydrogels**  
Martin L., Wilson C., Koosha F., Tetley L., Gray A., Senel S., Uchegbu I.  
JOURNAL OF CONTROLLED RELEASE, vol.80, pp.87-100, 2002 (SCI-Expanded)
- XLVIII. **Effect of chitosan on a periodontal pathogen Porphyromonas gingivalis**  
Ikinci G., Senel S., Akincibay H., Kas S., Ercis S., Wilson C., Hincal A.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.235, pp.121-127, 2002 (SCI-Expanded)
- XLIX. **Drug permeation enhancement via buccal route: possibilities and limitations**  
Senel S., Hincal A.  
JOURNAL OF CONTROLLED RELEASE, vol.72, pp.133-144, 2001 (SCI-Expanded)
- L. **The effect of calcitonin on osseous healing in guinea pig mandible**  
Dogan H. S., Ozcelik B., Gedikoglu G., Senel S.  
JOURNAL OF ENDODONTICS, vol.27, no.3, pp.160-163, 2001 (SCI-Expanded)
- LI. **Enhancing effect of chitosan on peptide drug delivery across buccal mucosa**  
Senel S., Kremer M., Kas S., Wertz P., Hincal A., Squier C.  
BIOMATERIALS, vol.21, no.20, pp.2067-2071, 2000 (SCI-Expanded)
- LII. **Chitosan films and hydrogels of chlorhexidine gluconate for oral mucosal delivery**  
Senel S., Ikinci G., Kas S., Yousefi-Rad A., Sargon M. F., Hincal A.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.193, no.2, pp.197-203, 2000 (SCI-Expanded)
- LIII. **In vitro/in vivo studies on a buccal bioadhesive tablet formulation of carbamazepine**  
İKİNCİ G., ÇAPAN Y., ŞENEL S., Alaaddinoglu E., DALKARA T., Hincal A.  
Pharmazie, vol.55, no.10, pp.762-765, 2000 (SCI-Expanded)
- LIV. **Formulation and in vitro in vivo investigation of carbamazepine controlled-release matrix tablets**  
Ikinci G., Capan Y., Senel S., Dalkara T., Hincal A.  
PHARMAZIE, vol.54, no.2, pp.139-141, 1999 (SCI-Expanded)
- LV. **Histological and bioadhesion studies on buccal bioadhesive tablets containing a penetration**

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Senel S., Capan Y., Sargon M. F., Giray C. B., Hincal A.

INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.170, no.2, pp.239-245, 1998 (SCI-Expanded)

LVI. **In vitro studies on enhancing effect of sodium glycocholate on transbuccal permeation of morphine hydrochloride**

Senel S., Duchene D., Hincal A., Capan Y., Ponchel G.

JOURNAL OF CONTROLLED RELEASE, vol.51, pp.107-113, 1998 (SCI-Expanded)

LVII. **Enhancement of transbuccal permeation of morphine sulfate by sodium glycodeoxycholate in vitro**

Senel S., Capan Y., Sargon M. F., İkinci G., Solpan D., Guven O., Bodde H., Hincal A.

JOURNAL OF CONTROLLED RELEASE, vol.45, no.2, pp.153-162, 1997 (SCI-Expanded)

LVIII. **FORMULATION AND INVITRO - INVIVO EVALUATIONS ON SUSTAINED-RELEASE ACETYLSALICYLIC-ACID TABLETS**

CAPAN Y., ŞENEL S., CALIS S., TAKKA S., HINCAL A.

PHARMAZEUTISCHE INDUSTRIE, vol.51, no.4, pp.443-448, 1989 (SCI-Expanded)

## **Articles Published in Other Journals**

I. **An Overview of In Vitro Release Test Methods Used In The Study of Nanoparticulate Drug Delivery Systems Nanopartiküler İlaç Taşıyıcı Sistemlerinin İncelenmesinde Kullanılan İn Vitro Salım Testi Yöntemlerine Genel Bir Bakış**

Çobanoğlu E., ŞENEL S.

Hacettepe University Journal of the Faculty of Pharmacy, vol.43, no.1, pp.78-98, 2023 (Scopus)

II. **Formulation, Bioavailability, and Pharmacokinetics of Sustained-Release Potassium Chloride Tablets**

ŞENEL S., ÇAPAN Y., DALKARA T., İnanç N., Hincal A. A.

Pharmaceutical Research: An Official Journal of the American Association of Pharmaceutical Scientists, vol.8, no.10, pp.1313-1317, 1991 (Scopus)

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

I. **In vivo efficiency of a new liposomal adjuvant system based on porins**

Parmaksız S., Türkmen E., Özkul A., Rivero-Arredondo V., Ontiveros-Padilla L., Hussein M. T., Andrew Forbes N. L., Lopez-Macias C., Perrie Y., Şenel S.

9th BBBB International Conference on Pharmaceutical Science, Ljubljana, Slovenia, 15 - 17 September 2022, pp.77-78

II. **A chitosan based bioadhesive gel for delivery of combined antimicrobials with enhanced activity in local treatment of skin infections in humans and animals**

Türkmen E., Parmaksız S., Nigiz Ş., Sağiroğlu M., Şenel S.

9th BBBB International Conference on Pharmaceutical Science, Ljubljana, Slovenia, 15 - 17 September 2022, pp.113-114

III. **In vivo studies on enhancement of immune responses by porins-chitosan adjuvant system**

Yüksel S., Pekcan M., Türkmen E., Özkul A., Puralı N., Rivero-Arredondo V., Ontiveros-Padilla L., Lopez-Macias C., Şenel S.

8th BBBB, İzmir, Turkey, 14 - 16 October 2019

IV. **Preparation and characterisation of chitosan/silver nanowires scaffolds for tissue engineering applications**

Aydın D., AKSOY E. A., DOĞANAY D., ÜNALAN H. E., ŞENEL S.

19th International Pharmaceutical Technology Symposium-IPTS-2018, 17 - 19 September 2018

V. **Activation of Dendritic Cells by an Adjuvant System Composed of Chitosan and Porins**

Ontiveros-Padilla L., Yüksel S., Rivero-Arredondo V., Pekcan M., Özkul A., Puralı N., Bonıfaz L., Şenel S., Lopez-

Macias C.

CRS Annual Meeting, Valencia, Spain, 21 - 24 July 2019, pp.1

- VI. **In Vitro Activation Of Murine Macrophages by Adjuvant System Composed Of Chitosan And Porins**  
Yüksel S., Pekcan M., Özkul A., Puralı N., Esendağlı G., Tavukçuoğlu E., Rivero-Arrendondo V., Ontveros-Padilla L., Lopez-Macias C., Şenel S.  
EUFEPS Annual Meeting 2019, Frankfurt, Germany, 6 - 08 March 2019, pp.1
- VII. **In Vitro Evaluation of Porin Encapsulated Chitosan Nanosystems for Mucosal Vaccine Delivery**  
Yüksel S., Pekcan M., Puralı N., Özkul A., Esendağlı G., Tavukçuoğlu E., Erdoğan S., Rivero-Arrendondo V., Ontveros-Padilla L., Lopez-Macias C., et al.  
AAPS PharmSci 360, Washington, United States Of America, 4 - 07 November 2018, pp.1
- VIII. **Comparison of two mucoadhesive polymers for local drug delivery into oral cavity**  
Timur S. S., Yüksel S., Akca G., Şenel S.  
19th International Pharmaceutical Technology Symposium , Antalya, Turkey, 17 - 19 September 2018, pp.1
- IX. **Micro and nano systems to enhance the immune responses**  
ŞENEL S.  
14th International Chitin and Chitosan Conference and 12th Asia-Pacific Chitin and Chitosan Symposium, 27 - 30 August 2018
- X. **Chitosan based bioadhesive film and wafer formulations for local delivery of antibiotics into oral cavity**  
Timur S. S., Yüksel S., Akca G., Şenel S.  
The 14th International Chitin and Chitosan Conference (14th ICC) & 12th Asia-Pacific Chitin and Chitosan Symposium , Osaka, Japan, 27 - 30 August 2018
- XI. **Development of a novel formulation for mucosal delivery based on chitosan and Salmonella typhi outer membrane proteins**  
Yüksel S., Pekcan M., Özkul A., Puralı N., Erdoğan S., Gündoğan E., Rivero-Arredondo V., Ontveros-Padilla L., Lopez-Macias C., Şenel S.  
CRS Annual Meeting and Exposition, New-York, United States Of America, 22 - 24 July 2018, pp.1
- XII. **Development of mono and bilayered bioadhesive film formulations for oral mucosal drug delivery**  
Timur S. S., Yüksel S., Şenel S.  
ISOPS, Ankara, Turkey, 26 - 29 April 2018, pp.1
- XIII. **Chitosan Based Gels for Local Delivery of Atorvastatin in Treatment of Periodontitis: In Vivo Studies in Periodontitis Induced Animal Model**  
Özdoğan A., İLARSLAN Y. D., KÖSEMEHMETOĞLU K., KUTLU H., EL C., ŞENEL S.  
AAPS Annual Meeting, 12 - 15 November 2017
- XIV. **Chitosan for mucosal antigen/allergen delivery**  
ŞENEL S., Hizmetli S., Gafvelin G., Zettergren L., Langebaeck J., Franzen H., Haellgren A., Andersson M.  
30th Congress of the European-Academy-of-Allergy-and-Clinical-Immunology (EAACI), İstanbul, Turkey, 11 - 15 June 2011, vol.66, pp.724
- XV. **Comparative statistical analysis of ex vivo permeation and antifungal. Activity studies of Terbinafine hydrochloride chitosan gels**  
Ozcan I., Aksu B., Abaci O., BOYACIOĞLU H., Haliki A., ŞENEL S., Ozer O., Guneri T.  
2nd BBBB Conference on Pharmaceutical Sciences, Tallinn-Tartu, Estonia, 13 - 15 September 2007, vol.32
- XVI. **Oxytetracycline hydrochloride incorporated gel and sponges Formulation and preliminary in Vivo studies**  
KORKUSUZ P., BİLGİLİ H., ŞENEL S.  
Controlled Release Society, 31st Annual Meeting Exposition, 12 June 2004 - 16 June 2006
- XVII. **Chitosan and alginate scaffolds for tissue regeneration**  
KORKUSUZ P., BİLGİLİ H., ŞENEL S.  
EUCHIS 6th International Conference of the European Chitin Society, 31 August - 03 September 2004
- XVIII. **Kemik defektlerinin tedavisinde oksitetrasiklin hidroklorür yüklü kitosan taşıyıcı sistemlerin kullanılması**

KORKUSUZ P., BİLGİLİ H., ŞENEL S.

VII. Ulusal Histoloji ve Embriyoloji Kongresi, Turkey, 18 - 21 May 2004

## Supported Projects

ŞENEL S., Industrial Thesis Project, Yerli aşı geliştirme ve analiz çalışmaları, 2015 - Continues

İLARSLAN Y. D., KÖSEMEHMETOĞLU K., ŞENEL S., TUBITAK Project, Periodontal hastalıkların tedavisi amacıyla statin içeren bir taşıyıcı sistem geliştirilmesi, 2014 - Continues

ŞENEL S., TUBITAK Project, Position Paper EUFEPS Network on Veterinary Medicines Initiative Aninterdisciplinary forum to support Veterinary Pharmacology and promote the development of new pharmaceuticals for Animal Health, 2014 - Continues

ŞENEL S., SAĞIROĞLU M., TÜRKMEN E., YÜKSEL S., BATUR N., Project Supported by Higher Education Institutions, Veteriner alanda dermal enfeksiyonların topikal yolla tedavisinde kullanılacak kombine ilaç içeren biyoadeziv taşıyıcı sistem geliştirilmesi, 2020 - 2022

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ŞENEL S., Project Supported by Higher Education Institutions, Controlled Release Society Annual Meeting and Exhibiton (44th), 2017 - 2017

ŞENEL S., Project Supported by Higher Education Institutions, Oral Mukozal İlaç Taşınması: Bugünü ve geleceği, 2017 - 2017

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ŞENEL S., TUBITAK Project, DENTİN HASSASİYETİ TEDAVİSİNDE TAŞIYICI SİSTEMLERİN GELİŞTİRİLMESİ, 2015 - 2016

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## Metrics

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## Non Academic Experience

YÜKSEKÖĞRETİM KALİTE KURULU BAŞKANLIĞI

ECZAKDER

TİTCK

YÜKSEKÖĞRETİM KURULU BAŞKANLIĞI

TÜBİTAK