

## Prof. Dr. SEVDA ŐENEL

### KiŐisel Bilgiler

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ScopusID: 55951230800

Yoksis AraŐtırmacı ID: 3264

### Eđitim Bilgileri

Doktora, Hacettepe Üniversitesi, Eczacılık Fakóltesi, Farmasötik Teknoloji, Türkiye 1985 - 1989

Yüksek Lisans, Hacettepe Üniversitesi, Eczacılık Fakóltesi, Farmasötik Teknoloji, Türkiye 1981 - 1984

Lisans, Ankara Üniversitesi, Eczacılık Fakóltesi, Türkiye 1976 - 1980

### Yabancı Diller

Almanca, B2 Orta Üstü

Fransızca, B2 Orta Üstü

İngilizce, C1 İleri

### Yaptığı Tezler

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

### AraŐtırma Alanları

Sađlık Bilimleri, Eczacılık, Eczacılık Teknolojisi, Farmasötik Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Eczacılık Fakóltesi, Eczacılık Teknolojisi Bölümü, 2002 - Devam Ediyor

### Akademik İdari Deneyim

Hacettepe Üniversitesi, Rektörlük, 2002 - 2012

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

## Yönetilen Tezler

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

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Applications of Chitosan in Prevention and Treatment Strategies of Infectious Diseases**  
SİNANİ G., Sessevmez M., ŞENEL S.  
PHARMACEUTICS, sa.9, 2024 (SCI-Expanded)
- II. **Special issue on drug delivery research in Turkey**  
ŞENEL S., VARAN C.  
Journal of Drug Delivery Science and Technology, cilt.81, 2023 (SCI-Expanded)
- III. **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, cilt.80, 2023 (SCI-Expanded)
- IV. **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, cilt.626, 2022 (SCI-Expanded)
- V. **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, cilt.11, sa.4, ss.1703-1734, 2021 (SCI-Expanded)
- VI. **An Overview of Physical, Microbiological and Immune Barriers of Oral Mucosa**  
ŞENEL S.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, cilt.22, sa.15, 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, cilt.61, 2021 (SCI-Expanded)
- VIII. **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, cilt.11, sa.1, ss.318-327, 2021 (SCI-Expanded)
- IX. **An Overview on Chitosan-Based Adjuvant/ Vaccine Delivery Systems**  
PARMAKSIZ S., ŞENEL S.  
CHITOSAN FOR BIOMATERIALS IV: BIOMEDICAL APPLICATIONS, cilt.288, ss.293-379, 2021 (SCI-Expanded)
- X. **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, cilt.10, sa.6, ss.1644-1674, 2020 (SCI-Expanded)
- XI. **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, cilt.578, 2020 (SCI-Expanded)

- XII. **Current status and future of chitosan in drug and vaccine delivery**  
ŞENEL S.  
Reactive and Functional Polymers, cilt.147, 2020 (SCI-Expanded)
- XIII. **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, cilt.559, ss.102-112, 2019 (SCI-Expanded)
- XIV. **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, cilt.124, ss.208-216, 2018 (SCI-Expanded)
- XV. **In vivo evaluation of chitosan based local delivery systems for atorvastatin in treatment of periodontitis.**  
Özdöğ an A., İlarıslan Y., Kösemehmetođlu K., Akca G., Kutlu H., Comerdov E., Iskit A. B., Şenel S.  
International journal of pharmaceutics, cilt.550, ss.470-476, 2018 (SCI-Expanded)
- XVI. **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, cilt.44, sa.8, ss.4811-4825, 2018 (SCI-Expanded)
- XVII. **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.  
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- XVIII. **Orally disintegrating tablets, fast-dissolving, buccal and sublingual formulations**  
ŞENEL S., Comoglu T.  
Pharmaceutical Development and Technology, cilt.23, sa.5, ss.431, 2018 (SCI-Expanded)
- XIX. **Moxifloxacin Loaded Chitosan Gel Formulations for the Treatment of Periodontal Diseases**  
AZERAN N., NTB Z., DOĐAN S. S., DOĐAN A., EKİZOĐLU M., RAVI S., KEMAL D., SAHU P., ŞENEL S.  
Journal Of Polymer Materials, 2017 (SCI-Expanded)
- XX. **Moxifloxacin loaded chitosan gel formulations for the treatment of periodontal diseases**  
Bintiazeran N. S., Diyanabintizazali N., Sedatimur S. S., Özdođan A. L., EKİZOĐLU M., Sheshala R., Dua K., Sahu P. S., ŞENEL S.  
Journal of Polymer Materials, cilt.34, sa.1, ss.157-169, 2017 (SCI-Expanded)
- XXI. **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, cilt.91, 2016 (SCI-Expanded)
- XXII. **Meet our editorial board member**  
Xu H.  
Current Drug Delivery, cilt.13, sa.2, ss.171, 2016 (SCI-Expanded)
- XXIII. **Oral Mucosa for Delivery of Drugs, Allergens and Vaccines: Where are we Now?**  
ŞENEL S.  
CURRENT DRUG DELIVERY, cilt.13, sa.2, ss.172-174, 2016 (SCI-Expanded)
- XXIV. **Design and Development of Systemic Oral Mucosal Drug Delivery Systems**  
Rathbone M. J., ŞENEL S., Pather I.  
ORAL MUCOSAL DRUG DELIVERY AND THERAPY, ss.149-167, 2015 (SCI-Expanded)
- XXV. **Oral Mucosal Drug Delivery and Therapy Preface**

- Rathbone M. J., ŞENEL S., Pather I.  
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- XXVI. **Overview of Oral Mucosal Delivery**  
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- XXVII. **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.  
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- XXVIII. **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, cilt.18, sa.7, ss.7848-7864, 2013 (SCI-Expanded)
- XXIX. **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.  
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- XXX. **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.  
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- XXXI. **Recent developments in buccal and sublingual delivery systems**  
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EXPERT OPINION ON DRUG DELIVERY, cilt.9, sa.6, ss.615-628, 2012 (SCI-Expanded)
- XXXII. **Fundamentals of Vaccine Delivery in Infectious Diseases**  
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- XXXIII. **Chitosan-Based Particulate Systems for Non-Invasive Vaccine Delivery**  
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- XXXIV. **Chitosan based delivery systems for mucosal immunization against bovine herpesvirus 1 (BHV-1)**  
Gunbeyaz M., Faraji A., Ozkul A., PURALI N., ŞENEL S.  
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- XXXV. **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.  
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- XXXVI. **Potential applications of chitosan in oral mucosal delivery**  
Senel S.  
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- XXXVII. **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.  
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- XXXVIII. **PREPARATION OF A CHITOSAN-BASED FORMULATION FOR THE TREATMENT OF ORAL MUCOSAL DISORDERS**  
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- XXXIX. **Clinical and Radiographic Evaluations of Chitosan Gel in Periodontal Intraosseous Defects: A Pilot Study**  
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- XL. **Chitosan-based systems for the delivery of vaccine antigens**  
Arca H. C., Guenbeyaz M., ŞENEL S.  
EXPERT REVIEW OF VACCINES, cilt.8, sa.7, ss.937-953, 2009 (SCI-Expanded)
- XLI. **Mono-N-carboxymethyl chitosan (MCC) and N-trimethyl chitosan (TMC) nanoparticles for non-invasive vaccine delivery**  
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- XLII. **Current status and the future of buccal drug delivery systems**  
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- XLIII. **Application of chitosan gel in the treatment of chronic periodontitis**  
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- XLIV. **Development and in vitro/in vivo evaluations of bioadhesive buccal tablets for nicotine replacement therapy**  
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PHARMAZIE, cilt.61, sa.3, ss.203-207, 2006 (SCI-Expanded)
- XLV. **Potential applications of chitosan in veterinary medicine**  
Senel S., McClure S.  
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- XLVI. **Development of a buccal bioadhesive nicotine tablet formulation for smoking cessation**  
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INTERNATIONAL JOURNAL OF PHARMACEUTICS, cilt.277, ss.173-178, 2004 (SCI-Expanded)
- XLVII. **Chitosan supports the initial attachment and spreading of osteoblasts preferentially over fibroblasts**  
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- XLVIII. **The release of model macromolecules may be controlled by the hydrophobicity of palmitoyl glycol chitosan hydrogels**  
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JOURNAL OF CONTROLLED RELEASE, cilt.80, ss.87-100, 2002 (SCI-Expanded)
- XLIX. **Effect of chitosan on a periodontal pathogen Porphyromonas gingivalis**  
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- L. **Drug permeation enhancement via buccal route: possibilities and limitations**  
Senel S., Hincal A.  
JOURNAL OF CONTROLLED RELEASE, cilt.72, ss.133-144, 2001 (SCI-Expanded)
- LI. **The effect of calcitonin on osseous healing in guinea pig mandible**  
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JOURNAL OF ENDODONTICS, cilt.27, sa.3, ss.160-163, 2001 (SCI-Expanded)
- LII. **Enhancing effect of chitosan on peptide drug delivery across buccal mucosa**  
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- LIII. **Chitosan films and hydrogels of chlorhexidine gluconate for oral mucosal delivery**  
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- LIV. **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.  
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- LV. **Formulation and in vitro in vivo investigation of carbamazepine controlled-release matrix tablets**

Ikinci G., Capan Y., Senel S., Dalkara T., Hincal A.  
PHARMAZIE, cilt.54, sa.2, ss.139-141, 1999 (SCI-Expanded)

**LVI. Histological and bioadhesion studies on buccal bioadhesive tablets containing a penetration enhancer sodium glycodeoxycholate**

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**LVII. 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, cilt.51, ss.107-113, 1998 (SCI-Expanded)

**LVIII. 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, cilt.45, sa.2, ss.153-162, 1997 (SCI-Expanded)

**LIX. FORMULATION AND INVITRO - INVIVO EVALUATIONS ON SUSTAINED-RELEASE ACETYSALICYLIC-ACID TABLETS**

CAPAN Y., ŞENEL S., CALIS S., TAKKA S., HINCAL A.  
PHARMAZEUTISCHE INDUSTRIE, cilt.51, sa.4, ss.443-448, 1989 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

**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, cilt.43, sa.1, ss.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, cilt.8, sa.10, ss.1313-1317, 1991 (Scopus)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

**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, Slovenya, 15 - 17 Eylül 2022, ss.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, Slovenya, 15 - 17 Eylül 2022, ss.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, Türkiye, 14 - 16 Ekim 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 Eylül 2018

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

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

CRS Annual Meeting, Valencia, İspanya, 21 - 24 Temmuz 2019, ss.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., Ontiveros-Padilla L., Lopez-Macias C., Şenel S.  
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- 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., Ontiveros-Padilla L., Lopez-Macias C., et al.  
AAPS PharmSci 360, Washington, Amerika Birleşik Devletleri, 4 - 07 Kasım 2018, ss.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, Türkiye, 17 - 19 Eylül 2018, ss.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 Ağustos 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, Japonya, 27 - 30 Ağustos 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., Ontiveros-Padilla L., Lopez-Macias C., Şenel S.  
CRS Annual Meeting and Exposition, New-York, Amerika Birleşik Devletleri, 22 - 24 Temmuz 2018, ss.1
- XII. **Development of mono and bilayered bioadhesive film formulations for oral mucosal drug delivery**  
Timur S. S., Yüksel S., Şenel S.  
ISOPS, Ankara, Türkiye, 26 - 29 Nisan 2018, ss.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 Kasım 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, Türkiye, 11 - 15 Haziran 2011, cilt.66, ss.724
- XV. **Comparative statistical analysis of ex vivo permeation and antifungal. Activity studies of Terbinafine hydrochloride chitosan gels**  
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Yayın: 86

Atıf (WoS): 2169

Atıf (Scopus): 1903

H-İndeks (WoS): 23

H-İndeks (Scopus): 18

## **Akademi Dışı Deneyim**

YÜKSEKÖĞRETİM KALİTE KURULU BAŞKANLIĞI

ECZAKDER

TİTCK

YÜKSEKÖĞRETİM KURULU BAŞKANLIĞI

TÜBİTAK