

Prof. Dr. SEVDA ŞENEL

Kişisel Bilgiler

E-posta: ssenel@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/ssenel>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-1467-3471

Publons / Web Of Science ResearcherID: A-4700-2012

ScopusID: 55951230800

Yoksis Araştırmacı ID: 3264

Eğitim Bilgileri

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

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

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

Yabancı Diller

Almanca, B2 Orta Üstü

Fransızca, B2 Orta Üstü

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Sürekli salınma sağlayan potasyum klorür tabletlerinin formülasyonu ve in vitro-in vivo değerlendirilmesi,
Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 1989

Araştırma Alanları

Sağlık Bilimleri, Eczacılık, Eczacılık Teknolojisi, Farmasötik Teknoloji

Akademik Unvanlar / Görevler

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

Akademik İdari Deneyim

Hacettepe Üniversitesi, Rektörlük, 2002 - 2012

Hacettepe Üniversitesi, Eczacılık Fakültesi, 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. **Special issue on drug delivery research in Turkey**
ŞENEL S., VARAN C.
Journal of Drug Delivery Science and Technology, cilt.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, cilt.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, cilt.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, cilt.11, sa.4, ss.1703-1734, 2021 (SCI-Expanded)
- V. **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)
- 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, cilt.11, sa.1, ss.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, cilt.61, 2021 (SCI-Expanded)
- VIII. **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)
- 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, cilt.10, sa.6, ss.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, cilt.578, 2020 (SCI-Expanded)
- XI. **Current status and future of chitosan in drug and vaccine delivery**
ŞENEL S.
Reactive and Functional Polymers, cilt.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, cilt.559, ss.102-112, 2019 (SCI-Expanded)
- XIII. **Development and in vitro evaluation of chitosan based system for local delivery of atorvastatin for treatment of periodontitis**
İşilay Özdoğan A., AKCA G., ŞENEL S.
European Journal of Pharmaceutical Sciences, cilt.124, ss.208-216, 2018 (SCI-Expanded)
- XIV. **In vivo evaluation of chitosan based local delivery systems for atorvastatin in treatment of periodontitis.**
Özdoğan A., İlarslan Y., Kösemehmetoğlu K., Akca G., Kutlu H., Comerdov E., Iskit A. B., Şenel S.
International journal of pharmaceutics, cilt.550, ss.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, cilt.44, sa.8, ss.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, cilt.41, sa.3, ss.378-383, 2018 (SCI-Expanded)
- XVII. **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)
- XVIII. **Moxifloxacin Loaded Chitosan Gel Formulations for the Treatment of Periodontal Diseases**
AZERAN N., NTB Z., DOĞAN S. S., DOĞAN A., EKİZOĞLU M., RAVI S., KEMAL D., SAHU P., ŞENEL S.
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- XIX. **Moxifloxacin loaded chitosan gel formulations for the treatment of periodontal diseases**
Bintiazaran N. S., Diyanabintiazali N., Sedatimur S. S., Özdoğan A. L., EKİZOĞLU M., Sheshala R., Dua K., Sahu P. S., ŞENEL S.
Journal of Polymer Materials, cilt.34, sa.1, ss.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., Linden H., schmerold I.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, cilt.91, 2016 (SCI-Expanded)
- XXI. **Meet our editorial board member**
Xu H.
Current Drug Delivery, cilt.13, sa.2, ss.171, 2016 (SCI-Expanded)
- XXII. **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)
- 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.
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- XXV. **Design and Development of Systemic Oral Mucosal Drug Delivery Systems**

- Rathbone M. J., ŞENEL S., Pather I.
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- 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.
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- 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., Ignat'yev P., Svirshchevskaya E.
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- 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.
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- 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, cilt.7, sa.4, ss.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, cilt.9, sa.6, ss.615-628, 2012 (SCI-Expanded)
- XXXI. **Fundamentals of Vaccine Delivery in Infectious Diseases**
ŞENEL S.
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- XXXII. **Chitosan-Based Particulate Systems for Non-Invasive Vaccine Delivery**
ŞENEL S.
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- 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, cilt.41, ss.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, cilt.36, sa.3, ss.175-184, 2010 (SCI-Expanded)
- XXXV. **Potential applications of chitosan in oral mucosal delivery**
Senel S.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, cilt.20, sa.1, ss.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.
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- 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.
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- XXXVIII. **Clinical and Radiographic Evaluations of Chitosan Gel in Periodontal Intraosseous Defects: A Pilot Study**
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- XXXIX. **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)
- XL. **Mono-N-carboxymethyl chitosan (MCC) and N-trimethyl chitosan (TMC) nanoparticles for non-invasive vaccine delivery**
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- XLI. **Current status and the future of buccal drug delivery systems**
Pather S. I., Rathbone M. J., ŞENEL S.
EXPERT OPINION ON DRUG DELIVERY, cilt.5, sa.5, ss.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, sa.2, ss.290-296, 2007 (SCI-Expanded)
- XLIII. **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)
- XLIV. **Potential applications of chitosan in veterinary medicine**
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- XLV. **Development of a buccal bioadhesive nicotine tablet formulation for smoking cessation**
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- XLVI. **Chitosan supports the initial attachment and spreading of osteoblasts preferentially over fibroblasts**
Fakhry A., Schneider G., Zaharias R., Senel S.
BIOMATERIALS, cilt.25, sa.11, ss.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, cilt.80, ss.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, cilt.235, ss.121-127, 2002 (SCI-Expanded)
- XLIX. **Drug permeation enhancement via buccal route: possibilities and limitations**
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- L. **The effect of calcitonin on osseous healing in guinea pig mandible**
Dogan H. S., Ozcelik B., Gedikoglu G., Senel S.
JOURNAL OF ENDODONTICS, cilt.27, sa.3, ss.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, cilt.21, sa.20, ss.2067-2071, 2000 (SCI-Expanded)
- LII. **Chitosan films and hydrogels of chlorhexidine gluconate for oral mucosal delivery**
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INTERNATIONAL JOURNAL OF PHARMACEUTICS, cilt.193, sa.2, ss.197-203, 2000 (SCI-Expanded)
- LIII. **In vitro/in vivo studies on a buccal bioadhesive tablet formulation of carbamazepine**
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- LIV. **Formulation and in vitro in vivo investigation of carbamazepine controlled-release matrix tablets**
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- LV. **Histological and bioadhesion studies on buccal bioadhesive tablets containing a penetration**

- enhancer sodium glycodeoxycholate**
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- LVI. **In vitro studies on enhancing effect of sodium glycocholate on transbuccal permeation of morphine hydrochloride**
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- LVII. **Enhancement of transbuccal permeation of morphine sulfate by sodium glycodeoxycholate in vitro**
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- LVIII. **FORMULATION AND INVITRO - INVIVO EVALUATIONS ON SUSTAINED-RELEASE ACETYLSALICYLIC-ACID TABLETS**
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Diger Dergilerde Yayınlanan Makaleler

- I. **An Overview of In Vitro Release Test Methods Used In The Study of Nanoparticluar Drug Delivery Systems Nanopartiküler İlaç Taşıyıcı Sistemlerinin İncelenmesinde Kullanılan İn Vitro Salım Testi Yöntemlerine Genel Bir Bakış**
Çobanoğlu E., ŞENEL S.
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- II. **Formulation, Bioavailability, and Pharmacokinetics of Sustained-Release Potassium Chloride Tablets**
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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., Sağıroğlu 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**
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- 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 Dentritic 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.
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- 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., Tavukçuoglu 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**
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- VIII. **Comparison of two mucoadhesive polymers for local drug delivery into oral cavity**
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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 ICCC) & 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**
Özdogan A., İLARSLAN Y. D., KÖSEMEHMETOĞLU K., KUTLU H., EL C., ŞENEL S.
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- XIV. **Chitosan for mucosal antigen/allergen delivery**
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- XV. **Comparative statistical analysis of ex vivo permeation and antifungal Activity studies of Terbinafine hydrochloride chitosan gels**
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2nd BBBB Conference on Pharmaceutical Sciences, Tallinn-Tartu, Estonia, 13 - 15 Eylül 2007, cilt.32
- XVI. **Oxytetracycline hydrochloride incorporated gel and sponges Formulation and preliminary in Vivo studies**
KORKUSUZ P., BİLGİLİ H., ŞENEL S.
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- XVII. **Chitosan and alginate scaffolds for tissue regeneration**
KORKUSUZ P., BİLGİLİ H., ŞENEL S.
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- XVIII. **Kemik defektlerinin tedevisinde oksitetrakisiklin hidroklorür yüklü kitosan taşıyıcı sistemlerin kullanılması**
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YÜKSEKÖĞRETİM KALİTE KURULU BAŞKANLIĞI

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