

## Prof. Dr. İMRAN VURAL

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Northeastern University, Pharmacy/Health Sciences/Pharmaceutical-Drug Targeting, Amerika Birleşik Devletleri 1993 - 1998

Yüksek Lisans, Hacettepe Üniversitesi, Eczacılık/Sağlık Bilimleri/Farmasötik Teknoloji, Türkiye 1986 - 1989

Lisans, Hacettepe Üniversitesi, Eczacılık Fakültesi, Türkiye 1982 - 1986

### Yabancı Diller

İngilizce, C1 İleri

### Araştırma Alanları

Sağlık Bilimleri, Eczacılık, Eczacılık Teknolojisi, Farmasötik Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2012 - Devam Ediyor

Doç. Dr., Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2006 - 2012

Yrd. Doç. Dr., Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2000 - 2006

Araştırma Görevlisi, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 1998 - 2000

Araştırma Görevlisi, Northeastern University, Bouve College Of Pharmacy, Pharmaceutical Sciences, 1993 - 1998

Araştırma Görevlisi, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 1986 - 1992

### Akademik İdari Deneyim

Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2016 - 2018

### Verdiği Dersler

FARMASÖTİK DOZAJ ŞEKİLLERİNİN DEĞERLENDİRİLMESİNDE HÜCRE KÜLTÜRÜ UYGULAMALARI, Doktora, 2023 -

2024

Farmasötik Teknoloji III LabErzincan Üniversitesi, Lisans, 2016 - 2017  
Farmasötik Teknoloji III Erzincan Üniversitesi, Lisans, 2016 - 2017  
FARMASÖTİK TEKNOLOJİ III, Lisans, 2016 - 2017  
NNT-NANOTEKNOLOJİ İLAÇ HEDEFLENDİRİLMESİ, Doktora, 2016 - 2017  
Farmasötik Teknoloji II Lab -Erzincan Üniversitesi, Lisans, 2016 - 2017  
FARMASÖTİK TEKNOLOJİ II, Lisans, 2016 - 2017  
Farmasötik Teknoloji IV Lab-Erzincan Üniversitesi, Lisans, 2016 - 2017  
Farmasötik Teknoloji IV -Erzincan Üniversitesi, Lisans, 2016 - 2017  
FARMASÖTİK TEKNOLOJİ İLAB-ERZİNCAN ÜNİVERSİTESİ, Lisans, 2016 - 2017  
FARMASÖTİK TEKNOLOJİ I, Lisans, 2016 - 2017  
FARMASÖTİK TEKNOLOJİ I-ERZİNCAN ÜNİVERSİTESİ, Lisans, 2016 - 2017  
YENİ İLAÇ TAŞIYICI SİSTEMLER, Yüksek Lisans, 2016 - 2017  
FARMASÖTİK TEKNOLOJİ I LAB, Lisans, 2016 - 2017

## Yönetilen Tezler

Vural İ., Antiparaziter ilaçlar yüklü hedeflendirilmiş nanotaşıyıcıların formülasyonu ve değerlendirilmesi, Doktora, Y.GÜLTEKİN(Öğrenci), 2023  
Vural İ., Hipertansiyon tedavisinde etkili çözünürlük sorunu olan bir etkin madde üzerinde önformülasyon çalışmaları, Doktora, E.PEZİK(Öğrenci), 2022  
Vural İ., Hedeflendirilmiş antikanser ilaç yüklü polimerik nanotaşıyıcıların formülasyonları ve karakterizasyonları, Doktora, N.ÖZTÜRK(Öğrenci), 2019  
Vural İ., Nanoboyutlu polimerik miseller sistemler ile gen tedavisine yönelik yaklaşımlar, Doktora, A.KARA(Öğrenci), 2018  
VURAL İ., Fosinopril sodyum içeren ağızda hızla dağılan dozaj formlarının geliştirilmesi ve karakterizasyonları, Yüksek Lisans, G.ŞAHİN(Öğrenci), 2016  
VURAL İ., Kanser tedavisinde kullanılacak aktif hedeflendirilmiş farmasötik nanotaşıyıcılar, Doktora, C.SARISÖZEN(Öğrenci), 2012  
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VURAL İ., Development of rapamycin drug delivery systems, their characterization and investigation of the antiproliferative effect on cell cultures, Doktora, M.ABDUR(Öğrenci), 2007

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

- I. **Preparation and evaluation of fast-dissolving albendazole sulfoxide and praziquantel-loaded polyvinylpyrrolidone nanofiber films by electrospinning**  
Gültekin Y., Korkmaz Ç., ÖZTÜRK N., FİLAZİ A., Deniz A., Doğan O., PEZİK E., Barin G., VURAL İ.  
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- II. **Preparation of nanosuspensions of a 1,4-dihydropyridine-based mixed L-/T-type calcium channel blocker by combined precipitation and ultrasonication methods**  
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- III. **Targeting prostate cancer with docetaxel-loaded peptide 563-conjugated PEOx-co-PEI30%-b-PCL polymeric micelle nanocarriers**  
Nezir A. E., Bolat Z. B., ÖZTÜRK N., Kocak P., Zemheri E., Gulyuz S., Ozkose U. U., Yilmaz O., VURAL İ., BOZKIR A., et al.  
Amino Acids, cilt.55, sa.8, ss.1023-1037, 2023 (SCI-Expanded)
- IV. **Preparation of nanodelivery systems for oral administration of low molecular weight heparin**

Rüzgar Özemre G., KARA A., Pezik E., TORT S., VURAL İ., ACARTÜRK F.

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- V. **Development and characterization of polymeric nanoparticles containing ondansetron hydrochloride as a hydrophilic drug**  
ÖZDAL Z. D., Gültekin Y., VURAL İ., TAKKA S.  
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- VI. **Development of tumor-specific liposomes containing quantum dots-photosensitizer conjugate used for radiotherapy**  
Karabuga M., Erdogan S., Timur S. S., VURAL İ., calamak S., Ulubayram K.  
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- VII. **Poly(2-ethyl-2-oxazoline-co-ethyleneimine)-block-poly(epsilon-caprolactone) based micelles: synthesis, characterization, peptide conjugation and cytotoxic activity**  
Gulyuz S., Ozkose U. U., Khalily M. P., KESİCİ M. S., Kocak P., Bolat Z. B., KARA A., ÖZTÜRK N., ÖZÇUBUKÇU S., BOZKIR A., et al.  
NEW JOURNAL OF CHEMISTRY, cilt.45, ss.14532-14547, 2021 (SCI-Expanded)
- VIII. **Development and characterization of pullulan-based orally disintegrating films containing amlodipine besylate**  
PEZİK E., Gulsun T., ŞAHİN S., VURAL İ.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, cilt.156, 2021 (SCI-Expanded)
- IX. **Exploiting ionisable nature of PEtOx-co-PEI to prepare pH sensitive, doxorubicin-loaded micelles**  
ÖZTÜRK N., KARA A., Gulyuz S., Ozkose U. U., TAŞDELEN M. A., BOZKIR A., Yılmaz O., VURAL İ.  
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- X. **Design of ocular drug delivery platforms and in vitro - in vivo evaluation of riboflavin to the cornea by non-interventional (epi-on) technique for keratoconus treatment**  
AYTEKİN E., ÖZTÜRK N., Vurla İ., POLAT H. K., Cakmak H. B., ÇALIŞ S., Pehlivan S. B.  
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- XI. **Development of an Anti-Inflammatory Drug-Incorporated Biomimetic Scaffold for Corneal Tissue Engineering**  
Celebier S. K., Pehlivan S., DEMİR BİLEK M., Akinci M., VURAL İ., AKDAĞ ÇAYLI Y., Yuruker S., Unlu N.  
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- XII. **Combination of Paclitaxel and R-flurbiprofen loaded PLGA nanoparticles suppresses glioblastoma growth on systemic administration**  
Caban-Toktas S., Sahin A., Lule S., Esendagli G., Vural İ., Karlı Oguz K., Soylemezoglu F., Mut M., Dalkara T., Khan M., et al.  
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- XIII. **Preparation, characterization and pharmacokinetic evaluation of rosuvastatin calcium incorporated cyclodextrin-polyanhydride nanoparticles**  
Al-Heibshy F. N. S., BAŞARAN E., ARSLAN R., ÖZTÜRK N., VURAL İ., DEMİREL M.  
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- XIV. **Floating drug delivery system of itraconazole: Formulation, in vitro and in vivo studies**  
Gokbulut E., VURAL İ., Asikoglu M., Ozdemir N.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, cilt.49, ss.491-501, 2019 (SCI-Expanded)
- XV. **Preparation and characterization of furosemide nanosuspensions**  
GÜLSÜN İNAL T., Borna S. E., VURAL İ., ŞAHİN S.  
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- XVI. **Development and characterization of gels and liposomes containing ovalbumin for nasal delivery**  
Kaplan M., Tugcu-Demiroz F., VURAL İ., Celebi N.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, cilt.44, ss.108-117, 2018 (SCI-Expanded)
- XVII. **Development of novel self-assembled polymeric micelles from partially hydrolysed poly(2-ethyl-2-oxazoline)-co-PEI-b-PCL block copolymer as non-viral vectors for plasmid DNA in vitro transfection**  
Kara A., Ozturk N., ESENDAĞLI G., Ozkose U. U., Gulyuz S., Yılmaz O., Telci D., Bozkır A., VURAL İ.

- ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, cilt.46, 2018 (SCI-Expanded)
- XVIII. **Development and evaluation of orally disintegrating tablets comprising taste-masked mirtazapine granules**  
Yildiz S., AYTEKİN E., Yavuz B., Pehlivan S. B., VURAL İ., UNLU N.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, cilt.23, sa.5, ss.488-495, 2018 (SCI-Expanded)
- XIX. **A potential non-invasive glioblastoma treatment: Nose-to-brain delivery of farnesylthiosalicylic acid incorporated hybrid nanoparticles**  
SEKERDAG E., Lule S., PEHLIVAN S. B., Ozturk N., KARA A., KAFFASHI A., VURAL İ., Isikay I., Yavuz B., OGUZH K. K., et al.  
JOURNAL OF CONTROLLED RELEASE, cilt.261, ss.187-198, 2017 (SCI-Expanded)
- XX. **Dry powders for the inhalation of ciprofloxacin or levofloxacin combined with a mucolytic agent for cystic fibrosis patients.**  
Akdag C., SAHIN S., BUTTINI F., BALDUCCI A., MONTANARI S., VURAL I., ONER L.  
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- XXI. **Farnesylthiosalicylic acid-loaded lipid-polyethylene glycol-polymer hybrid nanoparticles for treatment of glioblastoma**  
KAFFASHI A., Lule S., PEHLIVAN S. B., SARISOZEN C., VURAL İ., KOSUCU H., Demir T., Bugdayci K. E., Soylemezoglu F., OGUZ K. K., et al.  
JOURNAL OF PHARMACY AND PHARMACOLOGY, cilt.69, sa.8, ss.1010-1021, 2017 (SCI-Expanded)
- XXII. **New azole derivatives showing antimicrobial effects and their mechanism of antifungal activity by molecular modeling studies**  
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- XXIII. **Design and In Vitro Evaluation of Bispecific Complexes and Drug Conjugates of Anticancer Peptide, LyP-I in Human Breast Cancer**  
TİMUR S. S., Bhattarai P., GÜR SOY R. N., VURAL İ., Khaw B.  
PHARMACEUTICAL RESEARCH, cilt.34, sa.2, ss.352-364, 2017 (SCI-Expanded)
- XXIV. **In Vitro CNS Models**  
KARA A., ÖZTÜRK N., VURAL İ.  
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- XXV. **Preparation and evaluation of furosemide containing orally disintegrating tablets by direct compression**  
Gulsun T., Ozturk N., Kaynak M. S., Vural I., Sahin S.  
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- XXVI. **Evaluation of Antitumor Activity of a Non-Steroidal Anti-Inflammatory Drug, Ibuprofen, by a Targeted Nanoparticulate System**  
ÖZTÜRK N., KARA A., VURAL İ.  
LATIN AMERICAN JOURNAL OF PHARMACY, cilt.36, sa.1, ss.44-52, 2017 (SCI-Expanded)
- XXVII. **Dexamethasone - PAMAM dendrimer conjugates for retinal delivery: preparation, characterization and in vivo evaluation**  
Yavuz B., Pehlivan S., Bolu B. S., Sanyal R. N., VURAL İ., UNLU N.  
JOURNAL OF PHARMACY AND PHARMACOLOGY, cilt.68, sa.8, ss.1010-1020, 2016 (SCI-Expanded)
- XXVIII. **Lysozyme-loaded lipid-polymer hybrid nanoparticles: preparation, characterization and colloidal stability evaluation**  
DEVİRİM B., KARA A., VURAL İ., Bozkiir A.  
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- XXIX. **In Vitro/In Vivo Evaluation of Dexamethasone PAMAM Dendrimer Complexes for Retinal Drug Delivery**  
Yavuz B., Pehlivan S., VURAL İ., UNLU N.  
JOURNAL OF PHARMACEUTICAL SCIENCES, cilt.104, sa.11, ss.3814-3823, 2015 (SCI-Expanded)

- XXX. **Preparation and in vitro/in vivo evaluation of cyclosporin A-loaded nanodecorated ocular implants for subconjunctival application**  
PEHLIVAN S., YAVUZ B., ÇALAMAK S., ULUBAYRAM K., KAFFASHI A., VURAL İ., ÇAKMAK H. B., DURGUN M. E., DENKBAŞ E. B., UNLU N.  
Journal of Pharmaceutical Sciences, cilt.104, sa.5, ss.1709-1720, 2015 (SCI-Expanded)
- XXXI. **5-Fluorouracil-loaded PLA/PLGA PEG-PPG-PEG polymeric nanoparticles: formulation, in vitro characterization and cell culture studies**  
Ocal H., Arica-Yegin B., VURAL İ., Goracinova K., ÇALIŞ S.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, cilt.40, sa.4, ss.560-567, 2014 (SCI-Expanded)
- XXXII. **Development and Evaluation of Paclitaxel Nanoparticles Using a Quality-by-Design Approach**  
Yerlikaya F., Ozgen A., VURAL İ., Guven O., Karaagaoglu E., Khan M. A., ÇAPAN Y.  
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- XXXIII. **Preparation and characterization of metformin hydrochloride loaded-Eudragit (R) RSPO and Eudragit (R) RSPO/PLGA nanoparticles**  
ÇETİN M., ATILA A., ŞAHİN S., VURAL İ.  
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- XXXIV. **Preparation and characterization of nimesulide containing nanocrystal formulations**  
Gulsun T., Budak C., VURAL İ., ŞAHİN S., ÖNER L.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, cilt.18, sa.3, ss.653-659, 2013 (SCI-Expanded)
- XXXV. **In vitro studies on 5-fluorouracil-loaded DTPA-PE containing nanosized pegylated liposomes for diagnosis and treatment of tumor**  
Liko F., ERDOĞAN S., Ozer Y. A., VURAL İ.  
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- XXXVI. **Formulation and evaluation of clozapine orally disintegrating tablets prepared by direct compression**  
OLMEZ S. S., VURAL İ., ŞAHİN S., ERTUĞRUL A., ÇAPAN Y.  
PHARMAZIE, cilt.68, sa.2, ss.110-116, 2013 (SCI-Expanded)
- XXXVII. **Long-circulating PEG-PE micelles co-loaded with paclitaxel and elacridar (GG918) overcome multidrug resistance**  
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- XXXVIII. **Reversal of multidrug resistance by antibody targeted micelles**  
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- XXXIX. **PEG-PE-based micelles co-loaded with paclitaxel and cyclosporine A or loaded with paclitaxel and targeted by anticancer antibody overcome drug resistance in cancer cells**  
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- XL. **Both mitogen-activated protein kinase (MAPK)/extracellular-signal-regulated kinases (ERK) 1/2 and phosphatidylinositolide-3-OH kinase (PI3K)/Akt pathways regulate activation of E-twenty-six (ETS)-like transcription factor 1 (Elk-1) in U138 glioblastoma cells**  
Mut M., Lule S., Demir O., Kurnaz I. A., VURAL İ.  
International Journal of Biochemistry and Cell Biology, cilt.44, sa.2, ss.302-310, 2012 (SCI-Expanded)
- XLI. **CHARACTERIZATION, CELL PROLIFERATION AND CYTOTOXICITY EVALUATION OF VASCULAR ENDOTHELIAL GROWTH FACTOR LOADED POLY (LACTIC-CO-GLYCOLIC ACID) MICROSPHERES**  
KERİMOĞLU O., ALARÇIN E., Turkoglu M., Dortunc B., Karagoz H., Ulkur E., VURAL İ., ÇAPAN Y.  
NOBEL MEDICUS, cilt.8, sa.1, ss.77-82, 2012 (SCI-Expanded)
- XLII. **Salmon calcitonin-loaded Eudragit (R) and Eudragit (R)-PLGA nanoparticles: in vitro and in vivo evaluation**  
ÇETİN M., AKTAŞ M. S., VURAL İ., Ozturk M.  
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- XLIII. **Rosuvastatin induces apoptosis in cultured human papillary thyroid cancer cells**  
ZEYBEK N. D., Gulcelik N. E., KAYMAZ F. F., Sarisozen C., VURAL İ., BODUR E., CANPINAR H., Usman A., Asan E.  
JOURNAL OF ENDOCRINOLOGY, cilt.210, sa.1, ss.105-115, 2011 (SCI-Expanded)
- XLIV. **Chitosan Coated Furosemide Liposomes for Improved Bioavailability**  
VURAL İ., Sarisozen C., Olmez S. S.  
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- XLV. **Rapamycin-cyclodextrin complexation: Improved solubility and dissolution rate**  
Abdur Rouf M., VURAL İ., BİLENSOY E., Hincal A., Erol D. D.  
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- XLVI. **Evaluation of drug-exciipient interaction in the formulation of celecoxib tablets**  
Bozdog-Pehlivan S., Subasi B., VURAL İ., Unlu N., ÇAPAN Y.  
Acta Poloniae Pharmaceutica - Drug Research, cilt.68, sa.3, ss.423-433, 2011 (SCI-Expanded)
- XLVII. **An alternative cyclodextrin based formulation for oral anticancer drug exemestane: In vitro and cell culture studies.**  
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Journal of controlled release : official journal of the Controlled Release Society, cilt.148, sa.1, 2010 (SCI-Expanded)
- XLVIII. **Alternative oral exemestane formulation: Improved dissolution and permeation**  
Yavuz B., BİLENSOY E., VURAL İ., Sumnu M.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, cilt.398, ss.137-145, 2010 (SCI-Expanded)
- XLIX. **Preparation and characterization of anticancer drug-loaded implantable PLGA microparticles**  
ÇETİN M., VURAL İ., ATİLA A., Kadioglu Y.  
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- L. **Development and characterization of liposomal formulations for rapamycin delivery and investigation of their antiproliferative effect on MCF7 cells**  
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- LI. **DEVELOPMENT AND CHARACTERIZATION OF THEOPHYLLINE LOADED PLGA MICROSPHERES**  
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EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, cilt.38, sa.1, ss.96-97, 2009 (SCI-Expanded)
- LII. **FORMULATION AND IN VITRO EVALUATION OF EUDRAGIT-L100/PLGA NANOPARTICLES CONTAINING SALMON CALCITONIN**  
ÇETİN M., VURAL İ., ATİLA A., Sarisozen C., KADIOĞLU Y.  
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- LIII. **PREPARATION OF FAMOTIDINE ORALLY DISINTEGRATING TABLETS**  
Olmez S. S., VURAL İ.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, cilt.38, sa.1, ss.65-66, 2009 (SCI-Expanded)
- LIV. **CHITOSAN COATED LIPOSOMES LOADED WITH FUROSEMIDE: CHARACTERIZATION AND CELLULAR INTERACTION**  
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- LV. **PEG-PE BASED MIXED MICELLES LOADED WITH PACLITAXEL FOR ANTITUMOR ACTIVITY: ENHANCED DRUG SOLUBILIZATION**  
Sarisozen C., VURAL İ., Torchilin V. P., Hincal A. A.  
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- LVI. **Microbiological and clinical comparison of chlorhexidine buccoadhesive tablet and chlorhexidine mouthrinse**  
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- LVII. **Hyaluronic acid coated poly-ε-caprolactone nanospheres deliver high concentrations of cyclosporine A into the cornea**  
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- LVIII. **Preparation and in vitro evaluation of bFGF-loaded chitosan nanoparticles**  
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