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Education Information

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji Anabilim Dalı, Turkey 1985 - 1989

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji Anabilim Dalı, Turkey 1981 - 1984

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık, Turkey 1976 - 1981

Foreign Languages

English, C1 Advanced

Research Areas

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

Academic Titles / Tasks

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

Associate Professor, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 1995 - 2002

Assistant Professor, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 1992 - 1995

Academic and Administrative Experience

Head of Department, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2020 - Continues

Fakülte Kurulu Üyesi, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2018 - Continues

Director of the Center, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2018 - Continues

Head of Ethics Committee, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2013 - Continues

Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2012 - Continues

AÖVİSİNG İNESES

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ÇALIŞ S., Sefiksimin düşük çözünürlük ve permeabilitesinin siklodekstrin kompleksleri kullanılarak artırılması üzerine çalışmalar, Postgraduate, N.CELEN(Student), 2015
ÇALIŞ S., Anti-VEGFR-1 monoklonal antikor ile konjuge edilmiş gemitabin yüklü dendrimerlerin pankreas kanserine aktif hedeflendirilmesi ve in vitro/in vivo olarak değerlendirilmesi, Doctorate, K.ÖZTÜRK(Student), 2015
ÇALIŞ S., Tibbi cihaz uygulamalarına bağlı olarak gelişen biyofilm bazlı osteomiyelit tedavisi için polimerik ilaç taşıyıcı sistemlerin formülasyonu ve değerlendirilmesi, Postgraduate, E.SARIGÖL(Student), 2013
ÇALIŞ S., Amfifilik blok kopolimerler kullanılarak nanopartikül formülasyonlarının geliştirilmesi ve in vitro değerlendirilmesi, Postgraduate, H.ÖCAL(Student), 2010
ÇALIŞ S., BİLENZOY E., Kamptotesin içeren polimerik ve oligosakkarit bazlı nanopartiküler formülasyonlarının geliştirilmesi ve in vitro-in vivo değerlendirme, Doctorate, Y.ÇIRPANLI(Student), 2009
ÇALIŞ S., Anjioplastide kullanılmak üzere biyoparçalanır stent formülasyonlarının geliştirilmesi ve in vitro değerlendirme ilişkin çalışmalar, Postgraduate, C.SARISÖZEN(Student), 2006
ATILLA B., ÇALIŞ S., Antibiyotik yüklü allograftler ve biyopolimerik mikropartiküllerin enfekte kemik defektlerine implantasyonu ve etkinliklerinin değerlendirme, Postgraduate, B.SAYIN(Student), 2003
ÇALIŞ S., Ortopedide kullanılan biyoparçalanır polimerler ile hazırlanan teikoplanin içeren mikropartiküler sistemli implantların formülasyonu ve in vitro/ in vivo değerlendirme üzerine çalışmalar, Postgraduate, İ.YENİCE(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. A novel combination for the treatment of small cell lung cancer: Active targeted irinotecan and statict co-loaded PLGA nanoparticles
Arslan F. B., ÖZTÜRK K., Tavukçuoğlu E., ÖZTÜRK S. C., ESENDAĞLI G., ÇALIŞ S.
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- II. Effects of Particle Geometry for PLGA-Based Nanoparticles: Preparation and In Vitro/In Vivo Evaluation
Kaplan M., ÖZTÜRK K., ÖZTÜRK S. C., Tavukçuoğlu E., ESENDAĞLI G., ÇALIŞ S.
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- III. Design of Besifloxacin HCl-Loaded Nanostructured Lipid Carriers: In Vitro and Ex Vivo Evaluation
POLAT H. K., Kurt N., AYTEKİN E., AKDAĞ ÇAYLI Y., Pehlivan S., ÇALIŞ S.
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- IV. Novel Drug Delivery Systems to Improve the Treatment of Keratitis
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- V. Mixed micelles formulation for carvedilol delivery: In-vitro characterization and in-vivo evaluation
ÖZTÜRK K., ARSLAN F. N., ÖZTÜRK S. C., ÇALIŞ S.
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- VI. Antibody-mediated drug delivery
ARSLAN F. N., ÖZTÜRK ATAR K., ÇALIŞ S.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.596, 2021 (SCI-Expanded)
- VII. Development and evaluation of polymeric micelle containing tablet formulation for poorly water-soluble drug: tamoxifen citrate
ÖZTÜRK ATAR K., Kaplan M., ÇALIŞ S.
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.46, no.10, pp.1695-1704, 2020 (SCI-Expanded)
- VIII. 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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- IX. **Development of besifloxacin HCl loaded nanofibrous ocular inserts for the treatment of bacterial keratitis: In vitro, ex vivo and in vivo evaluation**
POLAT H. K., Pehlivan S. B., Ozkul C., ÇALAMAK S., Ozturk N., AYTEKİN E., FIRAT A., ULUBAYRAM K., KOCABEYOĞLU S., Irkec M., et al.
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- X. **Aggregation of chitosan nanoparticles in cell culture: Reasons and resolutions**
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INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.578, 2020 (SCI-Expanded)
- XI. **Current Advances in Nanopharmaceuticals**
Ozturk-Atar K., EROĞLU H., GÜRSOY R. N., ÇALIŞ S.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.19, no.7, pp.3686-3705, 2019 (SCI-Expanded)
- XII. **Nanopharmaceuticals as Drug-Delivery Systems: For, Against, and Current Applications**
ÇALIŞ S., ÖZTÜRK ATAR K., ARSLAN F. N., EROĞLU H., ÇAPAN Y.
NANOCARRIERS FOR DRUG DELIVERY: NANOSCIENCE AND NANOTECHNOLOGY IN DRUG DELIVERY, pp.133-154, 2019 (SCI-Expanded)
- XIII. **Novel advances in targeted drug delivery**
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Journal of Drug Targeting, vol.26, no.8, pp.633-642, 2018 (SCI-Expanded)
- XIV. **Characterization of bevacizumab by dynamic light scattering while maintaining its native structure**
Akbas S., Sahin A., ÇALIŞ S., Oncel H., ÇAPAN Y.
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- XV. **Development and in vitro evaluation of doxorubicin and celecoxib co-loaded bone targeted nanoparticles**
Kozlu S., Sahin A., Ultav G., Yerlikaya F., ÇALIŞ S., ÇAPAN Y.
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- XVI. **Tumor-Induced Myeloid Cells Are Reduced by Gemcitabine-Loaded PAMAM Dendrimers Decorated with Anti-Flt1 Antibody**
Yoyen-Ermis D., Ozturk-Atar K., KURŞUNEL M. A., Aydin C., Ozkazanc D., Gurbuz M. U., ÜNER A., TÜLÜ M., ÇALIŞ S., ESENDAĞLI G.
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TIMUR S. S., ŞAHİN A., AYTEKİN E., ÖZTÜRK N., POLAT K., TEZEL N., Gürsoy R. N., ÇALIŞ S.
Pharmaceutical development and technology, vol.23, pp.301-310, 2018 (SCI-Expanded)
- XVIII. **A thermosensitive gel loaded with an enzyme and an antibiotic drug for the treatment of periprosthetic joint infection**
Sarigol E., EKİZOĞLU M., Pehlivan S., BODUR E., SAĞIROĞLU M., ÇALIŞ S.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.43, pp.423-429, 2018 (SCI-Expanded)
- XIX. **Development and validation of a LC-FL method for the simultaneous determination of doxorubicin and celecoxib in nanoparticulate fixed dose combination (NanoFDC)**
Kozlu S., ŞAHİN A. E., ÇALIŞ S., ÇAPAN Y.
PHARMAZIE, vol.72, no.10, pp.568-570, 2017 (SCI-Expanded)
- XX. **Design and evaluation of gamma-sterilized vancomycin hydrochloride-loaded poly(ϵ -caprolactone) microspheres for the treatment of biofilm-based medical device-related osteomyelitis**
SARIGÖL E., PEHLİVAN S., EKİZOĞLU M., SAĞIROĞLU M., ÇALIŞ S.
Pharmaceutical Development and Technology, vol.22, no.6, pp.706-714, 2017 (SCI-Expanded)
- XXI. **Effective targeting of gemcitabine to pancreatic cancer through PEG-cored Flt-1 antibody-conjugated dendrimers**
Ozturk K., ESENDAĞLI G., Gurbuz M. U., TÜLÜ M., ÇALIŞ S.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.517, pp.157-167, 2017 (SCI-Expanded)

- XXII. **Preparation and in vitro evaluation of 5-fluorouracil-loaded PCL nanoparticles for colon cancer treatment**
Ozturk K., Mashal A. R., Yegin B., ÇALIŞ S.
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.22, no.5, pp.635-641, 2017 (SCI-Expanded)
- XXIII. **Cytotoxicity and biodistribution studies on PEGylated EDA and PEG cored PAMAM dendrimers**
Gurbuz M. U., Ozturk K., Erturk A. S., YOYEN-ERMIS D., ESENDAĞLI G., ÇALIŞ S., TÜLÜ M.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.27, no.16, pp.1645-1658, 2016 (SCI-Expanded)
- XXIV. **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.
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- XXV. **The effect of inorganic salt type and concentration on hydrophilic drug loading into microspheres using the emulsion/solvent diffusion method**
YAG G., ÇALIŞ S., Arica-Yegin B.
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.40, no.3, pp.390-397, 2014 (SCI-Expanded)
- XXVI. **Cytotoxicity and in vitro characterization studies of synthesized Jeffamine- cored PAMAM dendrimers**
Ozturk K., Erturk A. S., Sansozen C., TÜLÜ M., ÇALIŞ S.
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- XXVII. **Comparative biodistribution studies of technetium-99m radiolabeled amphiphilic nanoparticles using three different reducing agents during the labeling procedure**
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JOURNAL OF LABELLED COMPOUNDS & RADIOPHARMACEUTICALS, vol.56, no.14, pp.689-695, 2013 (SCI-Expanded)
- XXVIII. **Definition of formulation design space, in vitro bioactivity and in vivo biodistribution for hydrophilic drug loaded PLGA/PEO-PPO-PEO nanoparticles using OFAT experiments**
Crcarevska M. S., Geskovski N., Calis S., Dimchevska S., Kuzmanovska S., Petrushevski G., Kajdzanoska M., Ugarkovic S., Goracinova K.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.49, no.1, pp.65-80, 2013 (SCI-Expanded)
- XXIX. **A Novel Protein-Based Anticancer Drug Encapsulating Nanosphere: Apoferritin-Doxorubicin Complex**
KILIÇ M. A., Ozlu E., ÇALIŞ S.
JOURNAL OF BIOMEDICAL NANOTECHNOLOGY, vol.8, no.3, pp.508-514, 2012 (SCI-Expanded)
- XXX. **A double-blind placebo-controlled study of 5-fluorouracil: Cyclodextrin complex loaded thermosensitive gel for the treatment of HPV induced condyloma**
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Journal of Inclusion Phenomena and Macroyclic Chemistry, vol.69, pp.309-313, 2011 (SCI-Expanded)
- XXXI. **Antitumoral activity of camptothecin-loaded nanoparticles in 9L rat glioma model**
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INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.403, pp.201-206, 2011 (SCI-Expanded)
- XXXII. **Comparative evaluation of in vitro parameters of tamoxifen citrate loaded poly(lactide-co-glycolide), poly(ϵ -caprolactone) and chitosan nanoparticles**
Cirpanli Y., Yerlikaya F., Ozturk K., Erdogan N., Launay M., Gegu C., Leturgez T., BİLENZOY E., ÇALIŞ S., ÇAPAN Y.
Pharmazie, vol.65, no.12, pp.867-870, 2010 (SCI-Expanded)
- XXXIII. **Optimization of prednisolone acetate-loaded chitosan microspheres using a 2(3) factorial design for preventing restenosis**
Sarisozen C., Arica B., ORMAN M. N., Hincal A. A., ÇALIŞ S.
DRUG DELIVERY, vol.17, no.3, pp.178-186, 2010 (SCI-Expanded)
- XXXIV. **Development of polymeric and cyclodextrin nanoparticles for camptothecin delivery.**
Cirpanli Y., Bilensoy E., Dogan A. L., Calis S.

- Journal of controlled release : official journal of the Controlled Release Society, vol.148, no.1, 2010 (SCI-Expanded)
- XXXV. **Wheat germ agglutinin-conjugated chitosan-Ca-alginate microparticles for local colon delivery of 5-FU: Development and in vitro characterization**
Dodov M. G., ÇALIŞ S., Crcarevska M. S., Geskovski N., Petrovska V., Goracinova K.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.381, no.2, pp.166-175, 2009 (SCI-Expanded)
- XXXVI. **Antibacterial activity of triclosan chitosan coated graft on hernia graft infection model**
Çakmak A., Cirpanli Y., Bilensoy E., Yorgancı K., Çalış S., Saribaş Z., Kaynaroğlu V.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.381, no.2, pp.214-219, 2009 (SCI-Expanded)
- XXXVII. **ANALYTICAL METHOD DEVELOPMENT AND VALIDATION OF TAMOXIFEN CITRATE USING NORMAL PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**
Yerlikaya F., Launay M., Gegu C., Leturgez T., BİLENZOY E., ÇALIŞ S., ÇAPAN Y.
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Yag G., Yegin B., ÇALIŞ S.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.1, pp.87-88, 2009 (SCI-Expanded)
- XXXIX. **Comparative evaluation of polymeric and amphiphilic cyclodextrin nanoparticles for effective camptothecin delivery**
Cirpanli Y., Bilensoy E., Lale Doğan A., Çalış S.
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- XL. **Development of biodegradable drug releasing polymeric cardiovascular stents and in vitro evaluation**
Sarisozen C., Arica B., Hincal A. A., ÇALIŞ S.
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- XLI. **Thermosensitive mucoadhesive gel formulation loaded with 5-Fu: cyclodextrin complex for HPV-induced cervical cancer**
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- XLII. **Implantation of vancomycin microspheres in blend with human/rabbit bone grafts to infected bone defects**
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- XLIII. **Formulation and in vitro evaluation of bisphosphonate loaded microspheres for implantation in osteolysis**
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- XLV. **In vitro and in vivo studies of ibuprofen-loaded biodegradable alginate beads**
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- XLVII. **5-Fluorouracil in topical liposome gels for anticancer treatment - Formulation and evaluation**
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- XLVIII. **In vitro/in vivo evaluation of the efficiency of teicoplanin-loaded biodegradable microparticles formulated for implantation to infected bone defects**

- Yenice I., Calis S., Atilla B., Kas H., Ozalp M., Ekizoglu M., Bilgili H., Hincal A.
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- LI. **Influence of irradiation sterilization on poly(lactide-co-glycolide) microspheres containing anti-inflammatory drugs**
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- LII. **In vitro evaluation and intra-articular administration of biodegradable microspheres containing naproxen sodium**
Bozdag S., Calis S., Kas H., Ercan M., Peksoy I., Hincal A.
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- LIII. **Approaches to education of pharmaceutical biotechnology in faculties of pharmacy**
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- LVIII. **ADSORPTION OF SALMON-CALCITONIN TO PLGA MICROSFERES**
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- LX. **BIODEGRADABLE MICROSFERES AS DEPOT SYSTEM FOR PARENTERAL DELIVERY OF PEPTIDE DRUGS**
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- LXI. **Evaluation of the irritation of a new potent antimicrobial surfactant, C31G: An irrigation study on albino rabbit eyes**
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Non Academic Experience

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