

## Prof. EREM BİLENSOY

### Personal Information

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### Education Information

Doctorate, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, Turkey 1995 - 2002

Postgraduate, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, Turkey 1992 - 1995

### 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, 2013 - Continues

### Academic and Administrative Experience

Hacettepe Üniversitesi, Eczacılık Fakültesi, 2010 - 2013

### Advising Theses

BİLENSOY E., POLİKATYONİK AMFİFİLİK SIKLODEKSTRİN NANOPARTİKÜLLERİN ANTİKANSER İLAÇ TAŞIYICI SİSTEM OLARAK ETKİNLİK VE GÜVENLİK AÇISINDAN DEĞERLENDİRİLMESİ, Doctorate, G.VARAN(Student), 2018

BİLENSOY E., HPV-İlişkili Servikal Kanserin Tedavisine Yönelik İlaç Yüklü Nanopartikül Formülasyonlarının Printing Teknolojisi ile Hazırlanması ve Karakterizasyonu, Doctorate, C.VARAN(Student), 2017

BİLENSOY E., Antikanser ilaç dosetakselin anyonik ve katyonik polimerik nanokapsüllerle formülasyonu ve oral uygulama sonrası etkinliğinin değerlendirilmesi, Doctorate, D.DAŞKIN(Student), 2016

BİLENSOY E., Tumor specific delivery and in vitro-in vivo evaluation of paclitaxel loaded folate-conjugated amphiphilic cyclodextrin nanoparticles, Doctorate, N.ERDOĞAR(Student), 2015

BİLENSOY E., Formulation and anticancer efficacy evaluation of polymeric and cyclodextrin nanocapsules designed for oral application, Doctorate, H.ÜNAL(Student), 2014

BİLENSOY E., Meme kanseri tedavisinde paklitaksel yüklü polikasyonik ve anyonik siklodekstrin nanoküre formülasyonu ve in vitro değerlendirilmesi, Postgraduate, G.İŞİK(Student), 2013

BİLENSOY E., Beyin glioma tedavisinde dosetaksel yüklü katyonik nanopartiküllerin tasarımı ve in vitro değerlendirilmesi, Postgraduate, C.VARAN(Student), 2013

BİLENSOY E., Mesane tümörlerinin intravezikal kemoterapisi için tasarlanmış Mitomisin C yüklü katyonik nanopartiküllerin in vitro-in vivo değerlendirilmesi, Postgraduate, N.ERDOĞAR(Student), 2011  
ÇALIŞ S., BİLENSOY E., Kamptotesin içeren polimerik ve oligosakkarit bazlı nanopartiküler formülasyonların geliştirilmesi ve in vitro-in vivo değerlendirilmesi, Doctorate, Y.ÇIRPANLI(Student), 2009  
BİLENSOY E., Siklodekstrin kompleksi oluşturarak, ekzemestanın çözünmesinin ve in vitro geçirgenliğinin artırılması, Postgraduate, B.YAVUZ(Student), 2009

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

- I. **Nanocarriers targeting the diseases of the pancreas**  
Demirturk N., BİLENSOY E.  
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.170, pp.10-23, 2022 (Journal Indexed in SCI)
- II. **Therapeutic efficacy and gastrointestinal biodistribution of polycationic nanoparticles for oral camptothecin delivery in early and late-stage colorectal tumor-bearing animal model**  
Unal S., ÖZTÜRK S. C. , BİLGİÇ E., Yanik H., KORKUSUZ P., AKTAŞ Y., Benito J. M. , ESENDAĞLI G., BİLENSOY E.  
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.169, pp.168-177, 2021 (Journal Indexed in SCI)
- III. **A Review on Cancer Immunotherapy and Applications of Nanotechnology to Chemoimmunotherapy of Different Cancers**  
Akkin S., VARAN G., BİLENSOY E.  
MOLECULES, vol.26, no.11, 2021 (Journal Indexed in SCI)
- IV. **Development of oral aprepitant-loaded chitosan-polyethylene glycol-coated cyclodextrin nanocapsules: formulation, characterization, and pharmacokinetic evaluation**  
Erdoglar N., Akkin S., Nielsen T. T. , Ozcebe E., Erdogdu B., NEMUTLU E., Iskit A. B. , BİLENSOY E.  
JOURNAL OF PHARMACEUTICAL INVESTIGATION, vol.51, no.3, pp.297-310, 2021 (Journal Indexed in SCI)
- V. **Polycationic cyclodextrin nanoparticles induce apoptosis and affect antitumoral activity in HepG2 cell line: An evaluation at the molecular level**  
ERCAN A., ÇELEBİER M., ÖNCÜL S., VARAN G., KOÇAK E., Benito J. M. , BİLENSOY E.  
International Journal of Pharmaceutics, vol.598, 2021 (Journal Indexed in SCI)
- VI. **Determination and validation of aprepitant in rat plasma using LC-MS/MS**  
Erdoglar N., REÇBER T., B Iskit A., BİLENSOY E., KIR S., NEMUTLU E.  
BIOANALYSIS, vol.13, pp.363-372, 2021 (Journal Indexed in SCI)
- VII. **Therapeutic efficacy and biodistribution of paclitaxel-bound amphiphilic cyclodextrin nanoparticles: Analyses in 3D tumor culture and tumor-bearing animals in vivo**  
Varan G., VARAN C., ÖZTÜRK S. C. , Benito J. M. , ESENDAĞLI G., BİLENSOY E.  
Nanomaterials, vol.11, no.2, pp.1-18, 2021 (Journal Indexed in SCI)
- VIII. **ACPA decreases non-small cell lung cancer line growth through Akt/PI3K and JNK pathways in vitro.**  
Boyacioglu O., BİLGİÇ E., VARAN C., BİLENSOY E., NEMUTLU E., GÜLMEZ SEVİM D., Kocaefe C., KORKUSUZ P.  
Cell death & disease, vol.12, no.1, pp.56, 2021 (Journal Indexed in SCI Expanded)
- IX. **Erlotinib complexation with randomly methylated beta-cyclodextrin improves drug solubility, intestinal permeability, and therapeutic efficacy in non-small cell lung cancer**  
Erdoglar N., Akkin S., VARAN G., BİLENSOY E.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.26, pp.797-806, 2021 (Journal Indexed in SCI)
- X. **Preparation and characterization of cyclodextrin nanosponges for organic toxic molecule removal**  
VARAN C., Anceschi A., Sevlı S., Bruni N., Giraudı L., BİLGİÇ E., KORKUSUZ P., Iskit A. B. , Trotta F., BİLENSOY E.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.585, 2020 (Journal Indexed in SCI)
- XI. **Cyclodextrin nanoparticle bound oral camptothecin for colorectal cancer: Formulation development and optimization**  
ÜNAL S., AKTAŞ Y., Benito J. M. , BİLENSOY E.

INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.584, 2020 (Journal Indexed in SCI)

- XII. **Improved oral bioavailability of anticancer drug tamoxifen through complexation with water soluble cyclodextrins: in vitro and in vivo evaluation**  
Erdoğar N., NEMUTLU E., İSKİT A. B. , KARA Ş. A. , Teksin Z. Ş. , BİLENSOY E.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.96, no.1-2, pp.81-91, 2020 (Journal Indexed in SCI)
- XIII. **Erlotinib entrapped in cholesterol-depleting cyclodextrin nanoparticles shows improved antitumoral efficacy in 3D spheroid tumors of the lung and the liver**  
Varan G., Demirturk N., Benito J. M. , BİLENSOY E.  
Journal of Drug Targeting, 2020 (Journal Indexed in SCI Expanded)
- XIV. **Mechanical characterization and ex vivo evaluation of anticancer and antiviral drug printed bioadhesive film for the treatment of cervical cancer**  
Varan C., Şen M., Sandler N., Aktaş Y., Bilensoy E.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.130, pp.114-123, 2019 (Journal Indexed in SCI)
- XV. **Plant-Based Natural Polymeric Nanoparticles as Promising Carriers for Anticancer Therapeutics**  
Varan G., VARAN C., BİLENSOY E.  
POLYMERIC NANOPARTICLES AS A PROMISING TOOL FOR ANTI-CANCER THERAPEUTICS, pp.293-318, 2019 (Journal Indexed in SCI)
- XVI. **Cyclodextrin-Based Nanosystems: Current Status and Future Prospects**  
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DRUG DELIVERY NANOSYSTEMS: FROM BIOINSPIRATION AND BIOMIMETICS TO CLINICAL APPLICATIONS, pp.29-58, 2019 (Journal Indexed in SCI)
- XVII. **Global omics strategies to investigate the effect of cyclodextrin nanoparticles on MCF-7 breast cancer cells**  
ERCAN A., ÇELEBİER M., VARAN G., ÖNCÜL S., Nenni M., KAPLAN O., BİLENSOY E.  
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- XVIII. **Cellular interaction and tumoral penetration properties of cyclodextrin nanoparticles on 3D breast tumor model**  
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- XIX. **Cyclodextrin-Based Nanosystems in Targeted Cancer Therapy**  
Erdogar N., BİLENSOY E.  
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- XX. **Therapeutic efficacy of folate receptor-targeted amphiphilic cyclodextrin nanoparticles as a novel vehicle for paclitaxel delivery in breast cancer**  
ERDOĞAR N., ESENDAĞLI G., Nielsen T. T. , Esendagli-Yilmaz G., Yoyen-Ermis D., Erdogdu B., SARGON M. F. , EROĞLU H., BİLENSOY E.  
JOURNAL OF DRUG TARGETING, vol.26, no.1, pp.66-74, 2018 (Journal Indexed in SCI)
- XXI. **Cyclodextrin-based polymeric nanosystems**  
Erdogar N., Varan G., VARAN C., BİLENSOY E.  
DRUG TARGETING AND STIMULI SENSITIVE DRUG DELIVERY SYSTEMS, pp.715-748, 2018 (Journal Indexed in SCI)
- XXII. **Amphiphilic cyclodextrin nanoparticles**  
VARAN G., VARAN C., ERDOĞAR N., Hincal A. A. , BİLENSOY E.  
International Journal of Pharmaceutics, vol.531, no.2, pp.457-469, 2017 (Journal Indexed in SCI Expanded)
- XXIII. **Inkjet printing of antiviral PCL nanoparticles and anticancer cyclodextrin inclusion complexes on bioadhesive film for cervical administration**  
VARAN C., WICKSTRÖM H., SANDLER N., AKTAŞ Y., BİLENSOY E.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.531, no.2, pp.701-713, 2017 (Journal Indexed in SCI)
- XXIV. **Cationic PEGylated polycaprolactone nanoparticles carrying post-operation docetaxel for glioma**

**treatment**

VARAN C., BİLENSOY E.

BEILSTEIN JOURNAL OF NANOTECHNOLOGY, vol.8, pp.1446-1456, 2017 (Journal Indexed in SCI)

- XXV. **Amphiphilic cyclodextrin derivatives for targeted drug delivery to tumors**  
ERDOĞAR N., VARAN G., BİLENSOY E.  
Current Topics in Medicinal Chemistry, vol.17, no.13, pp.1521-1528, 2017 (Journal Indexed in SCI Expanded)
- XXVI. **Localized delivery of methylprednisolone sodium succinate with polymeric nanoparticles in experimental injured spinal cord model**  
KARABEY-AKYUREK Y., GURCAY A. G. , GURCAN O., TURKOGLU O. F. , Yabanoglu-Ciftci S., EROĞLU H., SARGON M. F. , BİLENSOY E., ÖNER L.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.22, no.8, pp.972-981, 2017 (Journal Indexed in SCI)
- XXVII. **An Improved and Validated HPLC Method for the Determination of Methylprednisolone Sodium Succinate and its Degradation Products in Nanoparticles**  
KARABEY-AKYUREK Y., NEMUTLU E., BİLENSOY E., ÖNER L.  
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- XXVIII. **Development of polycationic amphiphilic cyclodextrin nanoparticles for anticancer drug delivery**  
Varan G., Benito J. M. , Mellet C. O. , BİLENSOY E.  
Beilstein Journal of Nanotechnology, vol.8, no.1, pp.1457-1468, 2017 (Journal Indexed in SCI Expanded)
- XXIX. **Cholesterol-Targeted Anticancer and Apoptotic Effects of Anionic and Polycationic Amphiphilic Cyclodextrin Nanoparticles**  
VARAN G., ÖNCÜL S., ERCAN A., BENITO J. M. , MELLET C. O. , BİLENSOY E.  
Journal of Pharmaceutical Sciences, vol.105, no.10, pp.3172-3182, 2016 (Journal Indexed in SCI Expanded)
- XXX. **Design and optimization of novel paclitaxel-loaded folate-conjugated amphiphilic cyclodextrin nanoparticles**  
ERDOĞAR N., ESENDAĞLI G., Nielsen T. T. , ŞEN M., ÖNER L., BİLENSOY E.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.509, pp.375-390, 2016 (Journal Indexed in SCI)
- XXXI. **Amphiphilic cyclodextrins as enabling excipients for drug delivery and for decades of scientific collaboration: Tribute to a distinguished scientist, French representative and friend - A historical perspective**  
AKTAŞ Y., Yenice I., BİLENSOY E., HINCAL A. A.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.30, pp.261-265, 2015 (Journal Indexed in SCI)
- XXXII. **Antitumor Efficacy of Bacillus Calmette-Guerin Loaded Cationic Nanoparticles for Intravesical Immunotherapy of Bladder Tumor Induced Rat Model**  
ERDOĞAR N., İSKİT A. B. , EROĞLU H., SARGON M. F. , Mungan N. A. , BİLENSOY E.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.15, no.12, pp.10156-10164, 2015 (Journal Indexed in SCI)
- XXXIII. **Formulation development, stability and anticancer efficacy of core-shell cyclodextrin nanocapsules for oral chemotherapy with camptothecin**  
UNAL H., Ozturk N., BİLENSOY E.  
Beilstein Journal of Organic Chemistry, vol.11, pp.204-212, 2015 (Journal Indexed in SCI)
- XXXIV. **Core-shell hybrid nanocapsules for oral delivery of camptothecin: formulation development, in vitro and in vivo evaluation**  
UNAL H., D'ANGELO I., PAGANO E., BORRELLI F., IZZO A., UNGARO F., QUAGLIA F., BİLENSOY E.  
JOURNAL OF NANOPARTICLE RESEARCH, vol.17, no.1, 2015 (Journal Indexed in SCI)
- XXXV. **Cationic polymer nanoparticles for drug and gene delivery**  
BİLENSOY E., Işık G., VARAN C.  
RSC Polymer Chemistry Series, no.13, pp.268-295, 2015 (Journal Indexed in SCI Expanded)
- XXXVI. **Amphiphilic Cyclodextrin Nanoparticles for Effective and Safe Delivery of Anticancer Drugs**  
Bilensoy E.  
GENEDIS 2014: NEURODEGENERATION, vol.822, pp.201, 2015 (Journal Indexed in SCI)
- XXXVII. **Development of implantable hydroxypropyl-beta-cyclodextrin coated polycaprolactone**

**nanoparticles for the controlled delivery of docetaxel to solid tumors**

VARAN C., BİLENSOY E.

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- XXXVIII. **Binary, ternary and microencapsulated celecoxib complexes with beta-cyclodextrin formulated via hydrophilic polymers**  
Vranic E., Grizic D., Planinsek O., Srcic S., BİLENSOY E.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.80, pp.139-146, 2014 (Journal Indexed in SCI)
- XXXIX. **Cationic core-shell nanoparticles for intravesical chemotherapy in tumor-induced rat model: Safety and efficacy**  
ERDOĞAR N., İSKİT A. B. , EROĞLU H., SARGON M. F. , Mungan N. A. , BİLENSOY E.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.471, pp.1-9, 2014 (Journal Indexed in SCI)
- XL. **Wound healing activity of the *Bellis perennis* L. (common daisy)**  
Karakas F. P. , Karakas A., Boran C., Turker A. U. , YALÇIN F. N. , BİLENSOY E.  
NEW BIOTECHNOLOGY, vol.29, 2012 (Journal Indexed in SCI)
- XLI. **Prolonged retention and in vivo evaluation of cationic nanoparticles loaded with Mitomycin C designed for intravesical chemotherapy of bladder tumours**  
Erdogar N., İSKİT A. B. , Mungan N. A. , BİLENSOY E.  
Journal of Microencapsulation, vol.29, no.6, pp.576-582, 2012 (Journal Indexed in SCI Expanded)
- XLII. **The evaluation of topical administration of *Bellis perennis* fraction on circular excision wound healing in Wistar albino rats**  
Karakas F. P. , Karakas A., Boran Ç., Türker A. U. , YALÇIN F. N. , BİLENSOY E.  
Pharmaceutical Biology, vol.50, no.8, pp.1031-1037, 2012 (Journal Indexed in SCI)
- XLIII. **Rapamycin-cyclodextrin complexation: Improved solubility and dissolution rate**  
Abdur Rouf M., VURAL İ., BİLENSOY E., Hincal A., Erol D. D.  
Journal of Inclusion Phenomena and Macrocyclic Chemistry, vol.70, pp.167-175, 2011 (Journal Indexed in SCI)
- XLIV. **Preface**  
BİLENSOY E.  
Cyclodextrins in Pharmaceuticals, Cosmetics, and Biomedicine: Current and Future Industrial Applications, 2011 (Journal Indexed in SCI)
- XLV. **A double-blind placebo-controlled study of 5-fluorouracil: Cyclodextrin complex loaded thermosensitive gel for the treatment of HPV induced condyloma**  
BİLENSOY E., Moroy P., Çirpanlı Y., Bilensoy T., ÇALIŞ S., Mollamahmutoglu L.  
Journal of Inclusion Phenomena and Macrocyclic Chemistry, vol.69, pp.309-313, 2011 (Journal Indexed in SCI)
- XLVI. **Antitumoral activity of camptothecin-loaded nanoparticles in 9L rat glioma model**  
Çirpanlı Y., Allard E., Passirani C., Bilensoy E., Lemaire L., Çaliş S., Benoit J.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.403, pp.201-206, 2011 (Journal Indexed in SCI)
- XLVII. **Comparative evaluation of in vitro parameters of tamoxifen citrate loaded poly(lactide-co-glycolide), poly( $\epsilon$ -caprolactone) and chitosan nanoparticles**  
Çirpanlı Y., Yerlikaya F., Ozturk K., Erdogar N., Launay M., Gegu C., Leturgez T., BİLENSOY E., ÇALIŞ S., ÇAPAN Y.  
Pharmazie, vol.65, no.12, pp.867-870, 2010 (Journal Indexed in SCI Expanded)
- XLVIII. **Preparation and characterization of cationic nanoparticles loaded with Mitomycin C by double emulsion and ionotropic gelation techniques.**  
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Journal of controlled release : official journal of the Controlled Release Society, vol.148, no.1, 2010 (Journal Indexed in SCI)
- XLIX. **An alternative cyclodextrin based formulation for oral anticancer drug exemestane: In vitro and cell culture studies.**  
Yavuz B., Sarisözen C., Vural İ., Bilensoy E., Sumnu M.  
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- L. **Alternative oral exemestane formulation: Improved dissolution and permeation**  
Yavuz B., BİLENSOY E., VURAL İ., Sumnu M.  
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- L.I. **Cationic nanoparticles for cancer therapy**  
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- L.II. **Recent advances and future directions in amphiphilic cyclodextrin nanoparticles**  
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- L.III. **Antibacterial activity of triclosan chitosan coated graft on hernia graft infection model**  
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- L.IV. **ANALYTICAL METHOD DEVELOPMENT AND VALIDATION OF TAMOXIFEN CITRATE USING NORMAL PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**  
Yerlikaya F., Launay M., Gegu C., Leturgez T., BİLENSOY E., ÇALIŞ S., ÇAPAN Y.  
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- L.V. **Comparative evaluation of polymeric and amphiphilic cyclodextrin nanoparticles for effective camptothecin delivery**  
Çirpanli Y., Bilensoy E., Lale Doğan A., Çalış S.  
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- L.VI. **Intravesical cationic nanoparticles of chitosan and polycaprolactone for the delivery of Mitomycin C to bladder tumors**  
Bilensoy E., Sarisozen C., Esendagli G., Doğan A., Aktas Y., Şen M., Mungan N. A.  
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- L.VII. **Nanoparticulate delivery systems based on amphiphilic cyclodextrins**  
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- L.VIII. **Hyaluronic acid coated poly-ε-caprolactone nanospheres deliver high concentrations of cyclosporine A into the cornea**  
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- L.IX. **Development of nonsurfactant cyclodextrin nanoparticles loaded with anticancer drug paclitaxel**  
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- L.X. **Safety and efficacy of amphiphilic β-cyclodextrin nanoparticles for paclitaxel delivery**  
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- L.XI. **Complexation behavior of antiestrogen drug tamoxifen citrate with natural and modified beta-cyclodextrins**  
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- L.XII. **Thermosensitive mucoadhesive gel formulation loaded with 5-Fu: cyclodextrin complex for HPV-induced cervical cancer**  
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- L.XIII. **Cytotoxic evaluation of injectable cyclodextrin nanoparticles**  
Memisoglu-Bilensoy E., DOĞAN A., Hincal A. A.

- Journal of Pharmacy and Pharmacology, vol.58, no.5, pp.585-589, 2006 (Journal Indexed in SCI)
- LXIV. **Mucoadhesive, thermosensitive, prolonged-release vaginal gel for clotrimazole:  $\beta$ -cyclodextrin complex**  
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- LXV. **Sterile, injectable cyclodextrin nanoparticles: Effects of gamma irradiation and autoclaving**  
Memisoglu-Bilensoy E., Hincal A. A.  
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- LXVI. **Effect of drug physicochemical properties on in vitro characteristics of amphiphilic cyclodextrin nanospheres and nanocapsules**  
Memisoglu-Bilensoy E., Sen M., Hincal A. A.  
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- LXVII. **Thermosensitive vaginal gel formulation for the controlled release of clotrimazole via complexation to beta-cyclodextrin.**  
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- LXVIII. **Tamoxifen citrate loaded amphiphilic  $\beta$ -cyclodextrin nanoparticles: In vitro characterization and cytotoxicity**  
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- LXIX. **Tamoxifen citrate loaded amphiphilic  $\beta$ -cyclodextrin nanoparticles: System development and evaluation**  
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- LXX. **Transcription efficiency of tamoxifen citrate-loaded  $\beta$ -cyclodextrin nanoparticles**  
VURAL İ., Memisoglu-Bilensoy E., Renoir J., Bochot A., Duchêne D., Hincal A.  
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## Articles Published in Other Journals

- I. **The effect of Quercus coccifera L. Extract on the Necrosis of Random-pattern Skin Flaps in Rats**  
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