

# Prof. SELMA ŞAHİN

## Personal Information

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## Education Information

Post Doctorate, University Of San Francisco, Eczacılık Fakültesi, United States Of America 2005 - 2008

Post Doctorate, Uppsala Universitet (Uppsala University), Eczacılık Fakültesi, Sweden 1999 - 1999

Doctorate, University Of Manchester, Eczacılık Fakültesi, United Kingdom 1990 - 1996

Post Graduate, Hacettepe Üniversitesi, Eczacılık Fakültesi, Turkey 1984 - 1987

Under Graduate, Hacettepe Üniversitesi, Eczacılık Fakültesi, Turkey 1979 - 1984

## Foreign Languages

English, C1 Advanced

## Research Areas

Health Sciences, Pharmacology and Therapeutics, Pharmaceutics Technology

## Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2010 - Continues

Associate Professor, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2004 - 2010

Assistant Professor, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 1998 - 2004

Research Assistant, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 1984 - 1998

## Professional Experience

Deputy Head of Department, Hacettepe Üniversitesi, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2009 - 2015

## Advising Theses

ŞAHİN S., Barsaklardan parasetil ilaç absorpsiyonu üzerine permeabilite artırıcı ajanların etkisinin araştırılması, Post Graduate, M.ATEŞ(Student), 2013

ŞAHİN S., Siroz geliştirilmiş sıçanlarda ilaç dağılımı ve eliminasyonu üzerine veriliş yolunun etkisi, Doctorate, M.SİNAN(Student), 2008

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. Hepatic transporter-mediated pharmacokinetic drug-drug interactions: Recent studies and

**regulatory recommendations**

İZAT N., ŞAHİN S.

BIOPHARMACEUTICS & DRUG DISPOSITION, vol.42, pp.45-77, 2021 (Journal Indexed in SCI)

- II. **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, vol.156, 2021 (Journal Indexed in SCI Expanded)
- III. **Development and characterization of metformin hydrochloride- and glyburide-containing orally disintegrating tablets**  
GÜLSÜN İNAL T., AKDAĞ ÇAYLI Y., İZAT N., ÇETİN M., ÖNER L., ŞAHİN S.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.25, no.8, pp.999-1009, 2020 (Journal Indexed in SCI)
- IV. **Assessment of Dose Proportionality of Rivaroxaban Nanocrystals**  
Demir H., GÜLSÜN İNAL T., ÖZKAN M. H. , NEMUTLU E., ŞAHİN S., ÖNER L.  
AAPS PHARMSCITECH, vol.21, no.6, 2020 (Journal Indexed in SCI)
- V. **Characterization and comparison of deferasirox fast disintegrating tablets prepared by direct compression and lyophilization methods**  
AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ÇETİN M., ÖNER L., ŞAHİN S.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.57, 2020 (Journal Indexed in SCI)
- VI. **Comparison of Dissolution Profiles and Apparent Permeabilities of Commercially Available Metformin Hydrochloride Tablets in Turkey**  
AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ÖNER L., ŞAHİN S.  
DISSOLUTION TECHNOLOGIES, vol.27, no.1, 2020 (Journal Indexed in SCI)
- VII. **Development and validation of an HPLC method for determination of rofecoxib in bovine serum albumin microspheres**  
DEMİRTÜRK E., NEMUTLU E., ŞAHİN S., ÖNER L.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.647-655, 2020 (Journal Indexed in SCI)
- VIII. **Preparation and evaluation of phosphate binding capacity of micronized lanthanum carbonate formulation**  
Pinarbasli O., Şahin S., Eroğlu H., Öner L.  
Journal of Drug Delivery Science and Technology, vol.53, 2019 (Journal Indexed in SCI)
- IX. **Determination of N-acetylcysteine in the presence of ciprofloxacin or levofloxacin in microparticulate dry powder inhalers**  
Akdag Y., ŞAHİN S., NEMUTLU E., ÖNER L.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.3, pp.846-856, 2019 (Journal Indexed in SCI)
- X. **Development and evaluation of terbutaline sulfate orally disintegrating tablets by direct compression and freeze drying methods**  
Gulsun T., Cayli Y., İZAT N., ÇETİN M., ÖNER L., ŞAHİN S.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.46, pp.251-258, 2018 (Journal Indexed in SCI)
- XI. **Preparation and characterization of furosemide nanosuspensions**  
GÜLSÜN İNAL T., Borna S. E. , VURAL İ., ŞAHİN S.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.45, pp.93-100, 2018 (Journal Indexed in SCI)
- XII. **Preparation and Characterization of Rivaroxaban Nanocrystals Prepared by Combination of Wet Ball Milling and High Pressure Homogenization Methods**  
Demir H., GÜLSÜN İNAL T., ŞENER E., ŞAHİN S., ÖNER L.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.37, no.12, pp.2482-2490, 2018 (Journal Indexed in SCI)
- XIII. **Effects of curcumin-loaded PLGA nanoparticles on the RG2 rat glioma model**  
Orunoğlu M., Kaffashi a., PEHLİVAN S., ŞAHİN S., SÖYLEMEZOĞLU A. F. , KARLI OĞUZ H. K. , MUT AŞKUN M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.78, pp.32-38, 2017 (Journal Indexed in SCI)
- XIV. **Brain and the Drug Transporters**  
GÜLSÜN İNAL T., İZAT N., ŞAHİN S.

- NANOTECHNOLOGY METHODS FOR NEUROLOGICAL DISEASES AND BRAIN TUMORS: DRUG DELIVERY ACROSS THE BLOOD-BRAIN BARRIER, pp.35-67, 2017 (Journal Indexed in SCI)
- XV. **Application of HPLC to Investigate the Physicochemical Properties and Intestinal Permeability of Ketoprofen**  
KAYNAK M. S. , ÇELEBİER M., Akgeyik E., ŞAHİN S., ALTINÖZ S.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.13, no.1, pp.72-79, 2017 (Journal Indexed in SCI)
- XVI. **Preparation and In Vitro/In Vivo Evaluation of Rofecoxib Containing Bovine Serum Albumin Microspheres**  
Demirturk E., Gulsun T., Cayli Y., İZAT N., ŞAHİN S., ÖNER L.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.36, no.6, pp.1096-1104, 2017 (Journal Indexed in SCI)
- XVII. **Development of HPLC Methods for Individual Determination of 20 Active Pharmaceutical Ingredients for Ussing-Chamber Studies**  
KAYNAK M. S. , Akgeyik E., ATEŞ M., ÇELEBİER M., ŞAHİN S.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.13, no.2, pp.145-153, 2017 (Journal Indexed in SCI)
- XVIII. **Microparticulate and nanoparticulate drug delivery systems for metformin hydrochloride**  
ÇETİN M., ŞAHİN S.  
DRUG DELIVERY, vol.23, no.8, pp.2796-2805, 2016 (Journal Indexed in SCI)
- XIX. **Effect of permeability enhancers on paracellular permeability of acyclovir**  
Ates M., KAYNAK M. S. , ŞAHİN S.  
JOURNAL OF PHARMACY AND PHARMACOLOGY, vol.68, no.6, pp.781-790, 2016 (Journal Indexed in SCI)
- XX. **Evaluation of Pharmaceutical Quality of Conventional Dosage Forms Containing Paracetamol and Caffeine Available in the Turkish Drug Market**  
Akgeyik E., KAYNAK M. S. , ÇELEBİER M., ALTINÖZ S., ŞAHİN S.  
DISSOLUTION TECHNOLOGIES, vol.23, no.2, pp.36-41, 2016 (Journal Indexed in SCI)
- XXI. **Development and Validation of a RP-HPLC Method for Simultaneous Determination of Metformin Hydrochloride, Phenol Red and Metoprolol Tartrate for Intestinal Perfusion Studies**  
GÜLSÜN İNAL T., ŞAHİN S.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.35, no.1, pp.50-57, 2016 (Journal Indexed in SCI)
- XXII. **Comparison of Dissolution Profiles of Commercially Available Lamivudine Tablets**  
ÖZTÜRK N., KAYNAK M. S. , ŞAHİN S.  
DISSOLUTION TECHNOLOGIES, vol.22, no.4, pp.38-43, 2015 (Journal Indexed in SCI)
- XXIII. **Few Drugs Display Flip-Flop Pharmacokinetics and These Are Primarily Associated with Classes 3 and 4 of the BDDCS**  
GARRISON K. L. , Sahin S., BENET L. Z.  
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.104, no.9, pp.3229-3235, 2015 (Journal Indexed in SCI)
- XXIV. **Determination of Regional Intestinal Permeability of Diclofenac and Metoprolol Using a Newly-Developed and Validated High Performance Liquid Chromatographic Method**  
KAYNAK M. O. , Buyuktuncel E., ÇAĞLAR YILMAZ H., ŞAHİN S.  
TROPICAL JOURNAL OF PHARMACEUTICAL RESEARCH, vol.14, no.1, pp.163-170, 2015 (Journal Indexed in SCI)
- XXV. **UV Spectrophotometric Method for Determination of the Dissolution Profile of Rivaroxaban**  
ÇELEBİER M., KAYNAK M. S. , ALTINÖZ S., ŞAHİN S.  
DISSOLUTION TECHNOLOGIES, vol.21, no.4, pp.56-59, 2014 (Journal Indexed in SCI)
- XXVI. **Disposition Kinetics of Diclofenac in the Dual Perfused Rat Liver**  
ŞAHİN S., Rowland M.  
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.102, no.9, pp.3220-3227, 2013 (Journal Indexed in SCI)
- XXVII. **Preparation and characterization of metformin hydrochloride loaded-Eudragit (R) RSPO and Eudragit (R) RSPO/PLGA nanoparticles**  
ÇETİN M., ATİLA A., ŞAHİN S., VURAL İ.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.18, no.3, pp.570-576, 2013 (Journal Indexed in SCI)
- XXVIII. **Preparation and characterization of nimesulide containing nanocrystal formulations**  
Gulsun T., Budak C., VURAL İ., ŞAHİN S., ÖNER L.

- PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.18, no.3, pp.653-659, 2013 (Journal Indexed in SCI)
- XXIX. **Determination of in vitro Dissolution Profiles of Amlodipine Besylate and Olmesartan Medoxomil Using a New "HPLC Method"**  
KAYNAK M. O. , ÇELEBİER M., ŞAHİN S., Altinoz S.  
REVISTA DE CHIMIE, vol.64, no.1, pp.27-30, 2013 (Journal Indexed in SCI)
- XXX. **Head-to-Head Comparison of Inhibitory and Fungicidal Activities of Fluconazole, Itraconazole, Voriconazole, Posaconazole, and Isavuconazole against Clinical Isolates of Trichosporon asahii**  
HAZIROLAN G., CANTON E., ŞAHİN S., ARIKAN AKDAĞLI S.  
Antimicrobial Agents And Chemotherapy, vol.57, pp.4841-4847, 2013 (Journal Indexed in SCI)
- XXXI. **HPLC method development for the simultaneous analysis of amlodipine and valsartan in combined dosage forms and in vitro dissolution studies**  
ÇELEBİER M., KAYNAK M. O. , ALTINÖZ S., ŞAHİN S.  
BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.46, no.4, pp.761-768, 2010 (Journal Indexed in SCI)
- XXXII. **Investigation of distribution and elimination of terbutaline sulfate in the perfused rat liver preparation**  
ŞAHİN S., Karabey Y.  
EUROPEAN JOURNAL OF DRUG METABOLISM AND PHARMACOKINETICS, vol.35, pp.9-14, 2010 (Journal Indexed in SCI)
- XXXIII. **Development and validation of an HPLC method for simultaneous determination of trimethoprim and sulfamethoxazole in human plasma**  
Sayar E., ŞAHİN S., Cevheroglu S., Hincal A. A.  
EUROPEAN JOURNAL OF DRUG METABOLISM AND PHARMACOKINETICS, vol.35, pp.41-46, 2010 (Journal Indexed in SCI)
- XXXIV. **DEVELOPMENT AND CHARACTERIZATION OF THEOPHYLLINE LOADED PLGA MICROSPHERES**  
Shamil D., Sarisozen C., Pehlivan S. B. , Basit A., ŞAHİN S., VURAL İ.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.1, pp.96-97, 2009 (Journal Indexed in SCI)
- XXXV. **HPLC METHOD DEVELOPMENT AND VALIDATION: SIMULTANEOUS DETERMINATION OF DICLOFENAC, METOPROLOL AND PHENOL RED IN BIOLOGICAL MATRIX FOR INTESTINAL PERFUSION STUDIES**  
ÇAĞLAR YILMAZ H., KAYNAK M. S. , ŞAHİN S., Buyuktuncel E.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.38, no.1, pp.179-181, 2009 (Journal Indexed in SCI)
- XXXVI. **The Operational Multiple Dosing Half-life: A Key to Defining Drug Accumulation in Patients and to Designing Extended Release Dosage Forms**  
Sahin S., Benet L. Z.  
PHARMACEUTICAL RESEARCH, vol.25, no.12, pp.2869-2877, 2008 (Journal Indexed in SCI)
- XXXVII. **Application of the dispersion model to describe disposition kinetics of markers in the dual perfused rat liver**  
Sahin S., Rowland M.  
DRUG METABOLISM AND DISPOSITION, vol.35, no.7, pp.1119-1125, 2007 (Journal Indexed in SCI)
- XXXVIII. **Influence of erythrocytes on the hepatic distribution kinetics of urea and thiourea**  
Sahin S., Rowland M.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.31, pp.180-189, 2007 (Journal Indexed in SCI)
- XXXIX. **Formulation and characterization of formaldehyde cross-linked degradable starch microspheres containing terbutaline sulfate**  
Selek H., Sahin S., Kas H. S. , Hincal A. A. , Ponchel G., Ercan M. T. , Sargon M.  
DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, vol.33, no.2, pp.147-154, 2007 (Journal Indexed in SCI)
- XL. **Estimation of hepatic distributional volumes using non-labeled reference markers**  
Karabey Y., Sahin S.  
EUROPEAN JOURNAL OF DRUG METABOLISM AND PHARMACOKINETICS, vol.31, no.4, pp.285-290, 2006 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Effect of precipitation inhibitors on supersaturation and solubility of furosemide**  
GÜLSÜN İNAL T., ÖZTÜRK N., Kara A., ŞAHİN S., VURAL İ.  
JOURNAL OF RESEARCH IN PHARMACY, vol.25, no.2, pp.209-217, 2021 (Journal Indexed in ESCI)
- II. **Determination of the physicochemical properties of piroxicam**  
ÇELEBİER M., NENİN M., KAPLAN O., AKGEYİK E., KAYNAK M. S. , ŞAHİN S.  
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.0, no.0, 2019 (Refereed Journals of Other Institutions)
- III. **Effect of particle size and surfactant on the solubility, permeability and dissolution characteristics of deferasirox**  
Gulsun T., Akdag Y., İZAT N., ÖNER L., ŞAHİN S.  
JOURNAL OF RESEARCH IN PHARMACY, vol.23, no.5, pp.851-859, 2019 (Journal Indexed in ESCI)
- IV. **Comparison of intestinal permeability of nebivolol hydrochloride loaded solid lipid nanoparticles with commercial nebivolol tablet**  
GÖKÇE E. H. , KAYNAK M. S. , YURDASİPER ERDEM A., Ustundag-Okur N., ŞAHİN S.  
JOURNAL OF RESEARCH IN PHARMACY, vol.22, no.4, pp.578-586, 2018 (Journal Indexed in ESCI)
- V. **Dry Powder Inhalers: Formulations and Aerodynamic Behaviours**  
AKDAĞ ÇAYLI Y., ŞAHİN S., ÖNER L.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.38, no.1, pp.39-52, 2018 (Other Refereed National Journals)
- VI. **Development of Type 1 and Type 2 Diabetes in Rats Using Streptozotocin and Nicotinamide/Streptozotocin**  
GÜLSÜN İNAL T., ŞAHİN S.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.37, no.1, pp.9-17, 2017 (Other Refereed National Journals)
- VII. **Diabetes and Diabetes Associated Physiologic and Pharmacokinetic Changes**  
GÜLSÜN İNAL T., ŞAHİN S.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.37, no.2, pp.105-123, 2017 (Other Refereed National Journals)
- VIII. **Orally disintegrating tablets ii: In vitro and in vivo evaluations Ağızda dağılan tabletler ii: In vitro ve in vivo değerlendirilmeleri**  
Ölmez S. S. , VURAL İ., ŞAHİN S., ERTUĞRUL A., ÇAPAN Y.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.31, no.1, pp.59-70, 2011 (Refereed Journals of Other Institutions)
- IX. **Orally disintegrating tablets i: Preparation technologies Ağızda dağılan tabletler i: Hazırlama teknolojileri**  
Ölmez S. S. , VURAL İ., ŞAHİN S., ERTUĞRUL A., ÇAPAN Y.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.30, no.2, pp.205-230, 2010 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **Steril Farmasötikler Teknoloji ve Uygulamaları**  
ŞUMNU M. M. , ŞAHİN S., ARICA YEGİN B., EROĞLU H., ÇETİN M.  
Hacettepe Üniversitesi Yayınları, 2005

## Refereed Congress / Symposium Publications in Proceedings

- I. **Biyoeşdeğerlikten Vazgeçme (Biyomuafiyet) İle İlgili Güncel Rehberlerin Değerlendirilmesi**

GÜLSÜN İNAL T., ŞAHİN S.

IV. Uluslar arası Akdeniz Eczacılık Kongresi (MEDPHACON), Mersin, Turkey, 26 - 28 April 2019, vol.8, pp.33

**II. Determination of Equilibrium Solubility of Lamotrigine Using UV Spectrophotometer**

Pezik E., Şahin S., Vural İ.

International Multidisciplinary Symposium on Drug Research Development (DRD 2019), Malatya, Turkey, 1 - 03 July 2019, pp.367-370

**III. Evaluation of Drug Permeability Methods Recommended By Food and Drug Administration**

GÜLSÜN İNAL T., ŞAHİN S.

International Multidisciplinary Symposium on Drug Research and Development (DRD 2019), Malatya, Turkey, 1 - 03 July 2019

**IV. Effects of Preparation Methods on Orally Disintegrating Tablets**

AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ÇETİN M., ÖNER L., ŞAHİN S.

International Multidisciplinary Symposium on Drug Research Development (DRD 2019), 1 - 03 July 2019

**V. Effects of Preparation Methods On Orally Disintegrating Tablets**

AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ÇETİN M., ÖNER L., ŞAHİN S.

International Multidisciplinary Symposium on Drug Research and Development (DRD 2019, Malatya, Turkey, 1 - 03 July 2019

**VI. Ağız yolu ile uygulanan etkin maddelerin çözünürlük ve permeabilite özelliklerini arttırmak amacıyla formülasyon geliştirme sürecinde kullanılan yöntemler**

AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ŞAHİN S., ÖNER L.

2. Ulusal Marmara Eczacılık Kongresi (UMEK-2), Turkey, 14 - 16 November 2018

**VII. Effect Of Lamotrigine On Viability Of MCF-7 And RG-2 Cells**

Pezik E., Öztürk N., Çeliker A., Şahin S., Vural İ.

19th International Pharmaceutical Technology Symposium (IPTS 2018) , Antalya, Turkey, 17 - 19 September 2018, pp.212-213

**VIII. Influence of Permeability Enhancers on the Paracellular Permeability of Metformin Hydrochloride Across Caco-2 Cells**

İZAT N., GÜLSÜN İNAL T., ŞAHİN S.

19th International Pharmaceutical Technology Symposium, 17 - 19 September 2018

**IX. Determination of cytotoxicity of Lamotrigine on L929 cell line.**

Pezik E., Öztürk N., Şahin S., Vural İ.

12 th International Symposium on Pharmaceutical Sciences (ISOPS 2018), Ankara, Turkey, 26 - 29 June 2018, pp.295-296

**X. Investigation of deferasirox permeability from lyophilized orally disintegrating tablet**

GÜLSÜN İNAL T., İZAT N., AKDAĞ ÇAYLI Y., ÖNER L., ŞAHİN S.

2017 AAPS Annual Meeting and Exposition, 12 - 15 November 2017

**XI. Investigation of terbutaline sulfate permeability from orally disintegrating tablets**

İZAT N., AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., ÖNER L., ŞAHİN S.

2017 AAPS Annual Meeting and Exposition, 12 - 15 November 2017

**XII. Development and Characterization of Indomethacin and Curcumin Containing Nanofibers**

İNAL M., GÜLSÜN İNAL T., İZAT N., AKDAĞ ÇAYLI Y., ÖNER L., ŞAHİN S.

GPSS 2017, 11 - 13 October 2017

**XIII. Evaluation of Spice-Drug Interactions on the Bioavailability of Orally Administrated Drugs**

İZAT N., GÜLSÜN İNAL T., aksoy h., ŞAHİN S.

2nd International Gazi Pharma Symposium Series (GPSS 2017), 11 - 13 October 2017

**XIV. Effect of repaglinide on the intestinal permeability of metformin hydrochloride in type 2 diabetic rats**

GÜLSÜN İNAL T., ŞAHİN S.

77th FIP World Congress of Pharmacy and Pharmaceutical Sciences 2017, 10 - 14 September 2017

**XV. Development and Evaluation of Lyophilized Orally Disintegrating Tablets Containing Metformin Hydrochloride and Glyburide**

AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ÇETİN M., ÖNER L., ŞAHİN S.

77th FIP World Congress of Pharmacy and Pharmaceutical Sciences 2017, 10 - 14 September 2017

- XVI. **Investigation of intestinal permeability of metformin hydrochloride in the presence of glyburide in type 2 diabetes**  
GÜLSÜN İNAL T., ŞAHİN S.  
EuroPPS-2017 International Conference on Progressive PharmSciences: Technology, Research and Development, 19 - 21 June 2017
- XVII. **Antibiyotik İçeren Kuru Toz İnhaler Formülasyonları**  
AKDAĞ ÇAYLI Y., ŞAHİN S., ÖNER L.  
1. Anadolu Üniversitesi Eczacılık Fakültesi Sempozyumu (ANES), Turkey, 1 - 02 June 2017
- XVIII. **Nanosüspanسیون formülasyonlarının hazırlanmaları ve karakterizasyonları**  
GÜLSÜN İNAL T., borna s., ŞAHİN S.  
Anadolu Üniversitesi Eczacılık Fakültesi Sempozyumu, Turkey, 1 - 02 June 2017
- XIX. **Formulation and Characterization of Mometasone Furoate Monohydrate and Formoterol Fumarate Dihydrate Containing Dry Powder Inhaler Formulations**  
AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ÖNER L., ŞAHİN S.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XX. **Development and Validation of an HPLC method for Simultaneous Determination of Ciprofloxacin Levofloxacin and N acetylcysteine**  
AKDAĞ ÇAYLI Y., ŞAHİN S., VURAL İ., ÖNER L.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXI. **Evaluation of Surfactant Effect on the Saturation Solubility and Permeability of Deferasirox**  
AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., İZAT N., ÖNER L., ŞAHİN S.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXII. **Estimation of Rivaroxaban Nanocrystals Permeability Across Caco 2 Cell Monolayers by LC MS MS**  
demir h., GÜLSÜN İNAL T., ŞENER E., ŞAHİN S., ÖNER L.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXIII. **Levofloxacin Dry Powder for Inhalation by Spray Drying Method**  
AKDAĞ ÇAYLI Y., ŞAHİN S., Buttini F., Balducci A. G. , Montanari S., VURAL İ., ÖNER L.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXIV. **Effect of Particle Size on Deferasirox Dissolution Time**  
GÜLSÜN İNAL T., AKDAĞ ÇAYLI Y., İZAT N., ÖNER L., ŞAHİN S.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXV. **Development and Evaluation of Terbutaline Sulfate Containing Orally Disintegrating Tablets**  
İZAT N., AKDAĞ ÇAYLI Y., GÜLSÜN İNAL T., KAYNAK M. S. , ÖNER L., ŞAHİN S.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXVI. **Determination of Permeability of Ciprofloxacin Dry Powder Inhaler Formulations Across Calu 3 Cell Line**  
AKDAĞ ÇAYLI Y., ŞAHİN S., VURAL İ., ÖNER L.  
2016 AAPS Annual Meeting and Exposition, 13 - 17 November 2016
- XXVII. **Determination and Evaluation of Aerodynamic Parameters of Ciprofloxacin and Mucolytic Containing Dry Powder Inhalers**  
AKDAĞ ÇAYLI Y., ŞAHİN S., BUTTINI F., BALDUCCI A. G. , MONTANARI S., VURAL İ., ÖNER L.  
The Globalization of Pharmaceutics Education Network (GPEN) 2016, 9 - 12 November 2016
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- XXXI. **Preparation and Evaluation of Lyophilized Orally Disintegrating Tablets Containing Terbutaline Sulphate**  
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- XXXIV. **Effect of Verapamil on the Intestinal Permeability of Metformin in Type 2 Diabetic Rats and Caco 2 Cells**  
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- LI. **Effect of Precipitation Inhibitors on Supersaturation and Solubility of Furosemide**  
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- LII. **Development and Validation of a RP HPLC Method for Simultaneous Determination of Metformin Hydrochloride Phenol Red and Metoprolol Tartrate**  
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- LIII. **Comparison of Furosemide Nanocrystals and Nanosuspensions in Terms of Solubility and Permeability**  
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- LIV. **Preparation and In vitro Evaluation of Furosemide Nanosuspensions for Enhancement of its Solubility and Permeability**  
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## Supported Projects

- ŞAHİN S., GÜLSÜN İNAL T., ULUHAN Ö. D. , Project Supported by Higher Education Institutions, Trimetobenzamit HCl içeren Ağızda Dağılan Tablet formülasyonlarının in vitro karakterizasyonları ve permeabiliteleri üzerine farklı yardımcı maddelerin etkisi, 2018 - 2019
- ÖNER L., ŞAHİN S., DEMİR KABAŞ H., Project Supported by Higher Education Institutions, RİVAROKSABAN NANOKRİSTALLERİNİN HAZIRLANMASI VE İN VİTRO İN VİVO DEĞERLENDİRİLMESİ, 2018 - 2018
- ŞAHİN S., İZAT N., GÜLSÜN İNAL T., Project Supported by Higher Education Institutions, Caco2 Hücrelerden Paraselüler İlaç Permeabilitesi Üzerine Permeabilite Artırıcı Ajanların Etkisinin İncelenmesi, 2017 - 2018
- ŞAHİN S., Project Supported by Higher Education Institutions, Metformin hidroklorür için mikro ve nanopartiküler ilaç taşıyıcı sistemler, 2017 - 2017
- ŞAHİN S., DOĞAN A., GÜRBAY A., Project Supported by Higher Education Institutions, Hacettepe University Journal of The Faculty of Pharmacy Bilimsel Dergisinin Elektronik Ortamda Yayınlanması, 2017 - 2017
- ÖNER L., ÖZKAN M. H. , DEMİR KABAŞ H., ŞAHİN S., Project Supported by Higher Education Institutions, Antikoagülan rivaroxabanın doz orantısallığını sağlamak üzere geliştirilen Nanokristal formülasyonlarının tavşanlarda biyoyararlanım çalışması ile in vivo değerlendirilmesi, 2017 - 2017
- ŞAHİN S., Project Supported by Higher Education Institutions, Flip-Flop Farmakokinetiği gösteren ilaçlar ve bu ilaçların BDCSS Sınıf 3 ve 4 ile ilişkisi, 2016 - 2017
- ŞAHİN S., GÜLSÜN İNAL T., Project Supported by Higher Education Institutions, İlaçların absorpsiyonu ve permeabilitesi üzerine diyabetin etkisinin incelenmesi, 2016 - 2016
- ŞAHİN S., Project Supported by Higher Education Institutions, Perfüze Sıçan Karaciğerinde Diklofenakın Dispozisyon kinetiğinin İncelenmesi, 2015 - 2016
- ŞAHİN S., TUBITAK Project, Normal ve Diyabet Geliştirilmiş Sıçanlarda İlaçların İntestinal Permeabilitesinin Araştırılması, 2014 - 2015

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Total Citations (WOS):262

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