

Prof. MUSTAFA SİNAN KAYNAK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: D-9453-2019

ScopusID: 14032701900

Yoksis Researcher ID: 19256

Education Information

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), Turkey 2001 - 2008

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Biyofarmasötik Ve Farmakokinetik (YI) (Tezli), Turkey 1996 - 2000

Undergraduate, Hacettepe University, Eczacılık Fakültesi, Eczacılık Pr. (4 Yıllık), Turkey 1990 - 1996

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Siroz geliştirilmiş sıçanlarda ilaç dağılımı ve eliminasyonu üzerine verilmiş yolunun etkisi, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), 2008

Postgraduate, Glipizid içeren kontrollü salım sağlayan formülasyonların hazırlanması, Hacettepe University, Sağlık Bilimleri Enstitüsü, Biyofarmasötik Ve Farmakokinetik (YI) (Tezli), 2000

Research Areas

Pharmaceutical Technology, Biopharmaceutical and Pharmacokinetics

Academic Titles / Tasks

Professor, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK TEKNOLOJİSİ BÖLÜMÜ, 2023 - Continues

Associate Professor, Anadolu University, ECZACILIK FAKÜLTESİ, ECZACILIK TEKNOLOJİSİ BÖLÜMÜ, 2021 - 2023

Assistant Professor, Anadolu University, YUNUS EMRE SAĞLIK HİZMETLERİ MESLEK YÜKSEKOKULU, ECZANE HİZMETLERİ BÖLÜMÜ, 2018 - 2021

Assistant Professor, Inonu University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2008 - 2018

Academic and Administrative Experience

Anadolu University, 2019 - 2020
Inonu University, 2016 - 2018
Inonu University, 2016 - 2018
Inonu University, 2012 - 2018
Inonu University, 2009 - 2018
Inonu University, 2012 - 2015
Inonu University, 2009 - 2013
Inonu University, 2009 - 2011

Courses

FARMASÖTİK TEKNOLOJİ I LAB, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
İLAÇTA PATENT ve RUHSATLANDIRMA, Undergraduate, 2017 - 2018
BİYOFARMASÖTİK ve FARMAKOKİNETİK, Undergraduate, 2017 - 2018
FARMASÖTİK TEKNOLOJİ II, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
ECZACILIKTA BİLİMSEL ÇALIŞMA İLKELERİ 1, Undergraduate, 2017 - 2018
FARMASÖTİK TEKNOLOJİ III, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
FARMASÖTİK TEKNOLOJİ IV, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
FARMASÖTİK TEKNOLOJİ IV LAB, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010
ENDÜSTRİYEL ECZACILIK, Undergraduate, 2017 - 2018
FARMASÖTİK TEKNOLOJİ III LAB, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
FİZİKSEL FARMASİ, Undergraduate, 2017 - 2018
ECZACILIKTA HESAPLAMALAR, Undergraduate, 2017 - 2018
FARMASÖTİK TEKNOLOJİ II LAB, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
FARMASÖTİK TEKNOLOJİ I, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

Advising Theses

Kaynak M. S., Evaluation of pharmaceutical quality properties of solid dosage forms used as food supplements, Postgraduate, A.FOUAD(Student), 2022
MUSTAFA SİNAN K., Barsaklardan parasetol ilaç absorpsiyonu üzerine permeabilite artırıcı ajanların etkisinin araştırılması, Postgraduate, M.ATEŞ(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

1. Investigation of the Permeability of Antiretroviral Drugs Lamivudine and Valganciclovir <i>via</i>

Single-Pass Intestinal Perfusion (SPIP) Method

ŞANLI S., KAYNAK M. S., Sanli N., Balta E. E.

CURRENT PHARMACEUTICAL ANALYSIS, 2024 (SCI-Expanded)

- II. **Favipiravir pharmacokinetics in COVID-19 patients with moderate to severe kidney dysfunction: Lessons learned for future use**
Surmelioglu N., DEMİRTÜRK E., Ayhan N. A., Yesilyurt A. O., Bayrakci S., KAYNAK M. S., Ozyilmaz E., Allegaert K.
INTERNATIONAL JOURNAL OF CLINICAL PHARMACOLOGY AND THERAPEUTICS, vol.62, no.8, pp.345-352, 2024 (SCI-Expanded)
- III. **Adapting Fabric Phase Sorptive Extraction as an Innovative Multitool for Sample Transfer and Extraction in Pharmacokinetic Analysis Followed by LC-MS Determination of Levofloxacin in Plasma Samples**
Ekin Dolaksiz Y., KAYNAK M. S., Kabir A., Furton K. G., ÇELEBİER M.
ACS OMEGA, vol.9, no.17, pp.18995-19002, 2024 (SCI-Expanded)
- IV. **Enhancing Oral Bioavailability of Domperidone Maleate: Formulation, *In vitro* Permeability Evaluation In-caco-2 Cell Monolayers and *In situ* Rat Intestinal Permeability Studies**
Okur N. U., Caglar E. S., KAYNAK M. S., Diril M., ÖZCAN S., KARASULU H. Y.
CURRENT DRUG DELIVERY, vol.21, no.7, pp.1010-1023, 2024 (SCI-Expanded)
- V. **Ultrafiltration-based sample preparation and HPLC-UV determination of diclofenac in human plasma samples**
NENİ M., DOĞAN A., ÇELEBİER M., Soyseven M., KAYNAK M. S., Aboul-Enein H. Y., Arli G.
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.3, pp.777-785, 2022 (SCI-Expanded)
- VI. **Development of a RP-HPLC method for simultaneous determination of reference markers used for in-situ rat intestinal permeability studies**
SOYSEVEN M., KAYNAK M. S., ÇELEBİER M., Aboul-Enein H. Y., Arli G.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1147, 2020 (SCI-Expanded)
- VII. **Independent predictive factors for the persistence and tolerance of cow's milk allergy**
TOPAL E., Celiksoy M. H., Arga M., KAYNAK M. S., DUMAN Y., Demirtas S., Alatas C., TONBUL H., Okmen Z. H., Dalkilic H. M.
INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY, vol.9, no.1, pp.67-71, 2019 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **Application of HPLC to Investigate the Physicochemical Properties and Intestinal Permeability of Ketoprofen**
KAYNAK M. S., ÇELEBİER M., Akgeyik E., ŞAHİN S., Altinoz S.
CURRENT PHARMACEUTICAL ANALYSIS, vol.13, no.1, pp.72-79, 2017 (SCI-Expanded)
- X. **Preparation and evaluation of furosemide containing orally disintegrating tablets by direct compression**
GÜLSÜN İNAL T., ÖZTÜRK N., KAYNAK M. S., VURAL İ., ŞAHİN S.
PHARMAZIE, vol.72, no.7, pp.389-394, 2017 (SCI-Expanded)
- XI. **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 (SCI-Expanded)
- XII. **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., Altinoz S., ŞAHİN S.
DISSOLUTION TECHNOLOGIES, vol.23, no.2, pp.36-41, 2016 (SCI-Expanded)
- XIII. **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 (SCI-Expanded)
- XIV. **Determination of regional intestinal permeability of diclofenac and metoprolol using a newly-developed and validated high performance liquid chromatographic method**
KAYNAK M. S., BÜYÜKTUNCEL S. E., Caglar H., ŞAHİN S.
Tropical Journal of Pharmaceutical Research, vol.14, no.1, pp.163-170, 2015 (SCI-Expanded)
- XV. **UV spectrophotometric method for determination of the dissolution profile of rivaroxaban**
ÇELEBİER M., KAYNAK M. S., Altınöz S., ŞAHİN S.
Dissolution Technologies, vol.21, no.4, pp.56-59, 2014 (SCI-Expanded)
- XVI. **Determination of *in vitro* Dissolution Profiles of Amlodipine Besylate and Olmesartan Medoxomil Using a New "HPLC Method"**
KAYNAK M. S., ÇELEBİER M., ŞAHİN S., Altinoz S.
REVISTA DE CHIMIE, no.1, pp.27-30, 2013 (SCI-Expanded)
- XVII. **Development of a HPLC Method for the Determination of Cyclosporine A From Chitosan Nanoparticles**
BÜYÜKTUNCEL S. E., YÜCEL Ç., KAYNAK M. S., AKTAŞ Y.
LATIN AMERICAN JOURNAL OF PHARMACY, vol.31, no.8, pp.1083-1088, 2012 (SCI-Expanded)
- XVIII. **HPLC method development for the simultaneous analysis of amlodipine and valsartan in combined dosage forms and *in vitro* dissolution studies**
ÇELEBİER M., KAYNAK M. S., Altinoz S., ŞAHİN S.
BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.46, no.4, pp.761-768, 2010 (SCI-Expanded)
- XIX. **HPLC METHOD DEVELOPMENT AND VALIDATION: SIMULTANEOUS DETERMINATION OF DICLOFENAC, METOPROLOL AND PHENOL RED IN BIOLOGICAL MATRIX FOR INTESTINAL PERFUSION STUDIES**
Caglar H., KAYNAK M. S., ŞAHİN S., Buyuktuncel E.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, no.1, pp.179-181, 2009 (SCI-Expanded)
- XX. **Hepatic disposition of trimethoprim and sulfamethoxazole**
ŞAHİN S., Sayai- E., KAYNAK M. S., Hincal A. A.
METHODS AND FINDINGS IN EXPERIMENTAL AND CLINICAL PHARMACOLOGY, vol.30, no.2, pp.135-140, 2008 (SCI-Expanded)
- XXI. **Potential use of freeze-drying technique for estimation of tissue water content**
Sahin S., Karabey Y., KAYNAK M. S., Hincal A. A.
METHODS AND FINDINGS IN EXPERIMENTAL AND CLINICAL PHARMACOLOGY, vol.28, no.4, pp.211-215, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Exploring the Correlation between Ibuprofen Solubility and Permeability in Intestinal Disease Conditions**
Kaynak M. S., Soyseven M., Kaval B., Çelebier M., Akgeyik E., Şahin S., Arli G.
ACTA PHARMACEUTICA SCIENTIA, vol.62, no.3, pp.593-609, 2024 (Scopus)
- II. **Development and UV-VIS Spectrophotometric analysis of an ease-of-use pediatric oral solution of dexamethasone for personalized therapies**
Enes D., Fidan B. B., KAPLAN O., DOĞAN A., Altinoz S., ÇELEBİER M., KAYNAK M. S.
JOURNAL OF RESEARCH IN PHARMACY, vol.28, no.5, pp.1791-1799, 2024 (ESCI)
- III. **Thermosensitive gel of pomegranate peel extract as alternative for the treatment of local infections**
Şahin A., Gül Ü. D., Bayazit G., Kaynak M. S.
ACTA Pharmaceutica Scientia, vol.62, no.3, pp.647-659, 2024 (Scopus)
- IV. **Determination of quality of tablets containing irbesartan and hydrochlorothiazide via newly developed and validated simultaneous HPLC method**
KAVAL B., ÖZCAN S., KAYNAK M. S., ÇELEBİER M.

ACTA PHARMACEUTICA SCIENTIA, 2023 (Scopus)

- V. **A Newly Developed and Fully Validated HPLC Method for Simultaneous Determination of in-situ Single Pass Intestinal Permeability of Domperidone, Metoprolol Tartarate and Phenol Red**
ÖZCAN S., CAGLAR E. S., KAYNAK M. S., USTUNDAĞ OKUR N.
JOURNAL OF RESEARCH IN PHARMACY, vol.27, no.3, pp.967-979, 2023 (ESCI)
- VI. **Release kinetics of 3D printed oral solid dosage forms: An overview**
KAVAL B., KAPKIN E., KAYNAK M. S.
European Journal of Life Sciences, vol.1, no.2, pp.37-55, 2022 (Peer-Reviewed Journal)
- VII. **A review on collagen as a food supplement**
MUSAYEVA F., ÖZCAN S., KAYNAK M. S.
Journal of Pharmaceutical Technology, vol.3, no.1, pp.7-29, 2022 (Peer-Reviewed Journal)
- VIII. **Determination of the Physicochemical Properties of Piroxicam**
ÇELEBİER M., NENLİ M., KAPLAN O., AKGEYİK E., KAYNAK M. S., ŞAHİN S.
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.17, no.5, pp.535-541, 2020 (ESCI)
- IX. **Assessment of pharmaceutical quality and release kinetics of metoprolol tartrate extended release tablets available in Turkish drug market**
GENCER A., AKGEYİK E., KAYNAK M. S., ÇELEBİER M., BERKMAN M. S., ŞAHİN S.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :C-Yaşam Bilimleri ve Biyoteknoloji, vol.9, no.2, pp.179-189, 2020 (Peer-Reviewed Journal)
- X. **Demographics and clinical characteristic of patients diagnosed with hen's egg allergy**
TOPAL E., ARGAN M., ÇELİKSOY M. H., KAYNAK M. S., DUMAN Y., DEMİRTAS S., ALATAS C., TONBUL H., DALKILIC H.
Annals of Medical Research, vol.26, no.1, pp.1-4, 2019 (Peer-Reviewed Journal)
- XI. **Comparison of intestinal permeability of nebivolol hydrochloride loaded solid lipid nanoparticles with commercial nebivolol tablet**
GÖKÇE E. H., KAYNAK M. S., YURDASİPER A., ÜSTÜNDAĞ OKUR N., ŞAHİN S.
JOURNAL OF RESEARCH IN PHARMACY, vol.22, no.1, pp.248-256, 2018 (Scopus)
- XII. **Simultaneous Determination of Acyclovir Metoprolol and Phenol Red by a RP HPLC Method for Intestinal Perfusion Studies**
ATEŞ M., KAYNAK M. S., ŞAHİN S.
Hacettepe University Journal of the Faculty of Pharmacy, vol.35, no.2, pp.146-161, 2015 (Scopus)
- XIII. **Development and validation of a RP HPLC method for determination of solubility of furosemide**
KAYNAK M. S., ŞAHİN S.
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.10, no.1, pp.25-34, 2013 (Scopus)
- XIV. **İntestinal absorpsiyonu artırmak amacıyla kullanılan permeasyon artırıcı ajanlar**
ATEŞ M., KAYNAK M. S., ŞAHİN S.
Hacettepe University Journal of the Faculty of Pharmacy, vol.33, no.1, pp.117-146, 2013 (Scopus)
- XV. **Determination of Amlodipine and Furosemide with newly developed and validated RP HPLC method in commercially available tablet dosage forms**
ŞİMŞEK F. Ö., KAYNAK M. S., ŞANLI N., ŞAHİN S.
Hacettepe University Journal of the Faculty of Pharmacy, vol.32, no.2, pp.145-158, 2012 (Scopus)
- XVI. **Bioavailability file Amlodipin**
KAYNAK M. S., BOGACZ A., MICHAL S., ŞAHİN S.
FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, vol.36, no.4, pp.207-222, 2011 (Scopus)
- XVII. **A New HPLC approach for determination of in vitro solubility of naproxen sodium**
KAYNAK M. S., ŞAHİN S.
Hacettepe University Journal of the Faculty of Pharmacy, vol.28, no.1, pp.49-62, 2008 (Scopus)
- XVIII. **Validated HPLC method development The simultaneous analysis of amlodipine and valsartan in samples for liver perfusion studies**
ÇELEBİER M., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
Hacettepe University Journal of the Faculty of Pharmacy, vol.28, no.1, pp.15-30, 2008 (Scopus)
- XIX. **Formulation of controlled release glipizide pellets using pan coating method**

KAYNAK M. S., KAŞ H. S., ÖNER L.

Hacettepe University Journal of the Faculty of Pharmacy, vol.27, no.2, pp.93-106, 2007 (Peer-Reviewed Journal)

XX. **Bioavailability file Glipizide**

KAYNAK M. S., ÖNER L.

FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, vol.31, no.3, pp.151-161, 2006 (Scopus)

Books & Book Chapters

- I. **Importance of Perfusion Medium in Single Pass Rat Intestinal Permeability (SPIP) Studies**
ALSAWAIE A., KAYNAK M. S.
in: Current Research in Medicine and Health Sciences-2024, YALIN SERAP, ERASLAN MERİÇ, Editor, Livre de Lyon, Lyon, pp.167-186, 2024
- II. **NANOSTRUCTURED LIPID CARRIER AS A NOVEL INSIGHT FOR ORAL BIOAVAILABILITY ENHANCEMENT OF POORLY WATER SOLUBLE DRUGS**
Barre L., Kaynak M. S.
in: Recent Advances in Medicine and Health Sciences: Concepts, Researches and Practice, Nazmi Duran, Feray Aydın, Editor, Livre de Lyon, Lyon, pp.275-290, 2023
- III. **AQUASOMES: A NOVEL CARRIER FOR IMPROVED DRUG SOLUBILITY AND PERMEABILITY**
Bwalya F., Kaynak M. S.
in: Recent Advances in Medicine and Health Sciences: Concepts, Researches and Practice, Nazmi Duran, Feray Aydın, Editor, Livre de Lyon, Lyon, pp.107-118, 2023
- IV. **Nanosponge-based drug delivery for overcoming solubility and permeability challenges of poorly water-soluble drugs.**
Irakoze N., KAYNAK M. S.
in: Medicine and Health Sciences Modern Analysis, Finding and Researches, Arslan Serkan, Azizoğlu Mustafa, Editor, Livre de Lyon, Lyon, pp.177-196, 2023
- V. **TOPİKAL İLAÇ FORMÜLASYONLARI VE UYGULAMALARI**
KAVAL B., ÖZTÜRK A. A., KAYNAK M. S.
in: Güncel Tıp ve Sağlık Bilimleri Çalışmaları Kavramlar, Araştırmalar ve Uygulama, Sevda Eliş Yıldız, Ebru Karadağ Sarı, Editor, Livre de Lyon, Lyon, pp.1-28, 2023
- VI. **Sodium lauryl sulfate as a surfactant used to enhance the solubility of poorly water- soluble drugs by micellar solubilization.**
Alhusaini A., KAYNAK M. S.
in: Recent Advances in Natural and Engineering Sciences, Oduncuoğlu Murat, Kurt Halil İbrahim, Editor, Livre de Lyon, Lyon, pp.1-14, 2023
- VII. **ECZANE TEKNİKLERİ İÇİN TEMEL MATEMATİK**
KAYNAK M. S., BERKMAN M. S.
TEY TÜRK EĞİTİM YAYINLARI, Niğde, 2020
- VIII. **TÜRK FARMAKOPESİ-II MONOGRAFLAR (Avrupa Farmakopesi Adaptasyonu) - 2016**
ÖZKAN Y., SALTAN H. G., SARAÇ TARHAN S., ÖZKAN S. A., AYDIN A., SÜZEN H. S., KÜÇÜKGÜZEL İ., SÜZEN S., YÜKSEL N., ARICA YEGİN B., et al.
T.C. Sağlık Bakanlığı Türkiye ilaç ve Tıbbi Cihaz Kurumu, Ankara, 2016
- IX. **Türk Farmakopesi II 2016**
ÖZKAN Y., SALTAN H. G., SARAÇ TARHAN S., AYDIN A., ÖZKAN S. A., SÜZEN H. S., SÜZEN S., KÜÇÜKGÜZEL İ., YÜKSEL N., ARICA YEGİN B., et al.
TC Sağlık Bakanlığı, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **A novel RP-HPLC method to determine irbesartan and hydrochlorothiazide in fixed dose combinations: method development and validation**
KAVAL B., ÖZCAN S., KAYNAK M. S.
13th International Symposium on Pharmaceutical Science, Ankara, Turkey, 21 June 2021
- II. **Development and validation of RP-HPLC method for simultaneous determination of standard compounds used in-situ rat intestinal permeability studies**
KAYNAK M. S., SOYSEVEN M., ARLI G.
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 21 - 23 March 2020
- III. **Development of a novel Reverse Phase HPLC method for the simultaneous analysis of metoprolol tartrate and phenol red in intestinal perfusion samples**
KAYNAK M. S., SOYSEVEN M., ARLI G.
SciX 2019 presented by Federation of Analytical Chemistry and Spectroscopy Societies, 13 - 18 October 2019
- IV. **Ghrelinin Yanık Yarası İyileşmesine Etkisi**
Çiçek T., CERAN ÖZCAN C., OTLU H. G., KAYNAK M. S., TAŞLIDERE A., Yetiş M. İ., BAY KARABULUT A., ŞENEL S.
36. Ulusal Çocuk Cerrahisi ve 3. Uluslararası IPEG MEG ortak kongresi, İzmir, Turkey, 24 - 27 October 2018, pp.66
- V. **Intestinal Perfusion Studies for Evaluation of Permeability of Drugs**
KAYNAK M. S., ŞAHİN S.
Uluslararası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 22 March 2018
- VI. **Synthesis and Characterization of Silica Nanoparticles: Obtaining nanoparticles smaller than 100 nm**
TONBUL H., AKBAŞ S., ULTAV G., ŞAHİN A., KAYNAK M. S., AKTAŞ Y., ÇAPAN Y.
2nd International Gazi Symposium Series, 11 - 13 October 2017
- VII. **Comparison of intestinal permeability of nebivolol hydrochloride in solid lipid nanoparticles and commercial tablet GPSS**
GÖKÇE E. H., KAYNAK M. S., YURDASİPER A., ÜSTÜNDAĞ OKUR N., ŞAHİN S.
2nd Gazi Pharma Symposium (GPSS-2017), 11 - 13 October 2017
- VIII. **Comparison of HPLC and Spectrophotometric Methods on Determination of the pKa of Drugs**
ÇELEBİER M., NENNİ M., KAPLAN O., AKGEYİK E., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
Symposium on Drug Research Development, 5 - 07 October 2017
- IX. **Transferrine hedeflendirilmiş paklitaksel yüklü PLGA nanopartiküllerinin meme kanserindeki etkinliği**
TONBUL H., ŞAHİN A., ÖZTÜRK N., VURAL İ., KAYNAK M. S., ÇAPAN Y.
1. Anadolu Üniversitesi Eczacılık Fakültesi Sempozyumu (ANES), Turkey, 1 June - 02 January 2017
- X. **Determination of pKa Value of Anticonvulsant Nafimidone Oxime O Propyl Ether**
Akgeyik E., ÖZDEMİR Z., ATEŞ M., KAYNAK M. S., ÇELEBİER M., ALTINÖZ S., ŞAHİN S., KARAKURT A.
AAPS 2016, 13 - 17 November 2016
- XI. **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.
AAPS 2016, 13 - 17 November 2016
- XII. **Determination of Regional Intestinal Permeability of Valgancyclovir and Metoprolol Using a Newly Developed and Validated High Performance Liquid Chromatographic Method**
ŞANLI S., ŞANLI N., KAYNAK M. S.
10th Aegean Analytical Chemistry Days, 29 September - 02 October 2016
- XIII. **Investigation of the stability of prednisolone powder for injection after reconstitution**
ÇELEBİER M., KAYNAK M. S., NENNİ M., ALTINÖZ S., ŞAHİN S.
IPTS 2016, 18 - 21 September 2016
- XIV. **Development and in vitro evaluation of transferrin targeted PLGA nanoparticles**
TONBUL H., ŞAHİN A., KAYNAK M. S., ÇAPAN Y.
IPTS 2016, 18 - 21 September 2016
- XV. **Development of Metformin Hydrochloride and Glyburide Containing Orally Disintegrating Tablets**

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

AAPS 2015, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, 25 - 29 October 2015

- XVI. **Development of HPLC Methods for Individual Determination of 20 Active Pharmaceutical Ingredients for Ussing-Chamber Studies**
KAYNAK M. S., AKGEYİK E., ATEŞ M., ÇELEBİER M., ŞAHİN S.
International Multidisciplinary Symposium on Drug Research & Development (DRD 2015), Eskişehir, Turkey, 17 - 19 October 2015
- XVII. **Determination of Physicochemical Properties of Piroxicam**
ÇELEBİER M., NENİ M., KAPLAN O., AKGEYİK E., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
MAGUM-DRD 2015, International Symposium on Drug Research and Development From Chemistry to Medicine, Eskişehir, Turkey, 15 - 17 October 2015
- XVIII. **Assesment of Pharmaceutical Quality of Furosemide Tablets Available in Turkish Drug Market**
YILDIZ B., AKGEYİK E., KAYNAK M. S., ÇELEBİER M., ŞAHİN S.
MAGUM-DRD 2015, International Symposium on Drug Research and Development From Chemistry to Medicine, Eskişehir, Turkey, 15 - 17 October 2015
- XIX. **Quality Control of Extended Release Metoprolol Tartrate Tablets Available in Turkish Drug Market**
GENÇER A., AKGEYİK E., KAYNAK M. S., ÇELEBİER M., ŞAHİN S.
MAGUM-DRD 2015, International Symposium on Drug Research and Development From Chemistry to Medicine, Eskişehir, Turkey, 15 - 17 October 2015
- XX. **HPLC Method Development for Analysis of Furosemide in Quality Control Laboratories**
YILDIZ B., AKGEYİK E., KAYNAK M. S., ÇELEBİER M., ŞAHİN S.
Kromatografi 2015 UŞAK, Uşak, Turkey, 8 - 10 April 2015
- XXI. **Development of Orally Disintegrating Tablets Containing Olmesartan Medoxomil and Amlodipine Besylate**
ÖZTÜRK N., GÜLSÜN İNAL T., KAYNAK M. S., VURAL İ., ŞAHİN S.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, United States Of America, 2 - 06 November 2014
- XXII. **Investigation of Dose Effect on the Segmental Intestinal Permeability of Amlodipine**
KAYNAK M. S., BOGACZ A., STELMASINSKI M., ATEŞ M., ŞAHİN S.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, United States Of America, 2 - 06 November 2014
- XXIII. **Investigation of Permeability Enhancers on Paracellular Permeability**
ATEŞ M., KAYNAK M. S., ŞAHİN S.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, United States Of America, 2 - 06 November 2014
- XXIV. **Investigation of Physicochemical Properties of Ketoprofen by HPLC**
ÇELEBİER M., AKGEYİK E., ATEŞ M., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, United States Of America, 2 - 06 November 2014
- XXV. **Preparation and Evaluation of Furosemide Containing Orally Disintegrating Tablets by Direct Compression**
GÜLSÜN İNAL T., ÖZTÜRK N., KAYNAK M. S., ŞAHİN S., VURAL İ.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, United States Of America, 2 - 06 November 2014
- XXVI. **Investigation of Curcumin Effect on the Intestinal Breast Cancer Resistance Protein**
GÜDER F., KAYNAK M. S., ŞAHİN S.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, United States Of America, 2 - 06 November 2014
- XXVII. **HPLC Method Development and Validation for Simultaneous Determination of Ketoprofen Metoprolol and Phenol Red**

- AKGEYİK E., ATEŞ M., KAYNAK M. S., ÇELEBİER M., ŞAHİN S., ALTINÖZ S.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, 2 - 06 November 2014
- XXVIII. **Potential Effect of Capsaicin on Intestinal Breast Cancer Resistance Protein**
ŞENER E., KAYNAK M. S., ŞAHİN S.
AAPS 2014, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, San Diego, United States Of America, 2 - 06 November 2014
- XXIX. **Investigation of pH Effect on the Intestinal Permeability of Ketoprofen by HPLC A Basic Approach to correlate the in vitro and in situ Results**
KAYNAK M. S., ÇELEBİER M., AKGEYİK E., ATEŞ M., ŞAHİN S., ALTINÖZ S.
ISC 2014, 30th International Symposium on Chromatography (Communicating Separation Science for the Future), Salzburg, Austria, 14 - 18 September 2014
- XXX. **Quality Control of Conventional Paracetamol and Caffeine Combined Dosage Forms in Turkish Drug Market**
AKGEYİK E., ÇELEBİER M., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
17th International Pharmaceutical Technology Symposium. (IPTS 2014), Antalya, Turkey, 8 - 10 September 2014
- XXXI. **Simultaneous Determination of Acyclovir Metoprolol and Phenol Red in Biological Matrix for Intestinal Perfusion Studies**
ATEŞ M., KAYNAK M. S., ŞAHİN S.
17th International Pharmaceutical Technology Symposium. (IPTS 2014), Antalya, Turkey, 8 - 10 September 2014
- XXXII. **Oseltamivir Fosfat in İntestinal Permeabilitesini Ters Faz Sıvı Kromatografik Yöntem ile Tayini**
ERTÜRK E., KAYNAK M. S., ŞANLI S., HALAY G., ŞANLI N.
7. Ulusal Analitik Kimya Kongresi, Kahramanmaraş, Turkey, 1 - 05 September 2014
- XXXIII. **Lamivudin in İntestinal Permeabilitesini Ters Faz Sıvı Kromatografik Yöntem ile Tayini**
ŞANLI S., KAYNAK M. S., ERTÜRK E., GÜLPEMBE H., ŞANLI N.
7. Ulusal Analitik Kimya Kongresi, Kahramanmaraş, Turkey, 1 - 05 September 2014
- XXXIV. **Comparison of dissolution profiles of lamivudine tablets marketed in Turkey**
ÖZTÜRK N., KAYNAK M. S., ŞAHİN S.
MAGUM-DRD 2013, International Multidisciplinary Symposium on Drug Research and Development - New Drug Entities Cancer Research, Nanotechnology Scientific and Industrial Perspectives, Antalya, Turkey, 28 - 30 November 2013
- XXXV. **Development and validation of a RP HPLC method for determination of lamivudine from drug dissolution studies**
ÖZTÜRK N., KAYNAK M. S., BÜYÜKTUNCEL S. E., ŞAHİN S.
MAGUM-DRD 2013, International Multidisciplinary Symposium on Drug Research and Development - New Drug Entities & Cancer Research, Nanotechnology & Scientific and Industrial Perspectives, Antalya, Turkey, 28 - 30 November 2013
- XXXVI. **Investigation of dissolution characteristics of amorphous furosemide prepared by ball milling technique**
ÖZTÜRK N., KAYNAK M. S., ŞENER M., ERDEMOĞLU M., ŞAHİN S.
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- XXXVII. **Investigation of Curcumin Effect on Intestinal P glycoprotein**
GÜDER F., KAYNAK M. S., ŞAHİN S.
AAPS 2012, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, Şikago, United States Of America, 14 - 17 October 2012
- XXXVIII. **Effect of Capsaicin on Intestinal P glycoprotein**
ŞENER E., KAYNAK M. S., ŞAHİN S.
AAPS 2012, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, Şikago, United States Of America, 14 - 17 October 2012

- XXXIX. **HPLC Method Development for Determination and In Vitro Dissolution Studies for Rivaroxaban**
ÇELEBİER M., KOÇAK E., SÜSLÜ İ., KAYNAK M. S., ALTINÖZ S.
9th Central European Symposium on Pharmaceutical Technology, Dubrovnik, Croatia, 20 - 22 September 2012
- XL. **Preparation and in vitro evaluation of cyclosporine A loaded liposome chitosan nanoparticle complexes**
AKTAŞ Y., YÜCEL Ç., BÜYÜKTUNCEL S. E., KAYNAK M. S., GÜL M.
16th International Pharmaceutical Technology Symposium. (IPTS 2012), Antalya, Turkey, 10 - 12 September 2012
- XLI. **Kitosan nanopartiküllerinden Siklosporin A tayini için HPLC metodu geliştirilmesi**
BÜYÜKTUNCEL S. E., YÜCEL Ç., KAYNAK M. S., AKTAŞ Y.
Kromatografi Kongresi, 2012, Gaziosmanpaşa Üniversitesi, Tokat, Turkey, 6 - 09 June 2012
- XLII. **Development and Validation of a RP HPLC Method for Determination of Furosemide in Tablet Dosage Forms**
ŞİMŞEK F., ERDOĞDU S., KAYNAK M. S., ŞANLI N., ŞAHİN S.
MAGUM-DRD 2011, International Symposium on Drug Research and Development From Chemistry to Medicine, Antalya, Turkey, 27 - 29 May 2011
- XLIII. **Determination of Permeability of Diclofenac Sodium in the In Situ Intestinal Perfusion Preparation**
KAYNAK M. S., ÇAĞLAR H., BÜYÜKTUNCEL S. E., ŞAHİN S.
MAGUM-DRD 2011, International Symposium on Drug Research and Development From Chemistry to Medicine, Antalya, Turkey, 27 - 29 May 2011
- XLIV. **Development of RP HPLC Method for the Determination of Amlodipine in Commercially Available Tablet Dosage Forms**
FEVZİYE Ş., DİRİCAN K. Z., KAYNAK M. S., ŞANLI N., ŞAHİN S.
MAGUM-DRD 2011, International Symposium on Drug Research and Development from Chemistry to Medicine, Antalya, Turkey, 27 - 29 May 2011
- XLV. **Comparison of Dissolution Profiles of Two Commercially Available Furosemide Tablets**
GENEŞ M., ÖZTÜRK N., KAYNAK M. S.
MAGUM-DRD 2011, International Symposium on Drug Research and Development From Chemistry to Medicine, Antalya, Turkey, 27 - 29 May 2011
- XLVI. **Simultaneous Determination of Amlodipine Metoprolol and Phenol Red in Biological Matrix for Intestinal Perfusion Studies**
BOGACZ A., STELMASINSKI M., BÜYÜKTUNCEL S. E., KAYNAK M. S., ŞAHİN S.
MAGUM-DRD 2011, International Symposium on Drug Research and Development From Chemistry to Medicine, Antalya, Turkey, 27 May - 29 November 2011
- XLVII. **Determination of time to reach steady state in different intestinal segments using phenol red**
ŞENER E., KAYNAK M. S., ŞAHİN S.
PSWC-AAPS 2010, Pharmaceutical Sciences World Congress-American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, New Orleans, United States Of America, 14 - 18 November 2010
- XLVIII. **Hepatic Disposition of Naproxen Sodium in Cirrhotic Rat Liver**
KAYNAK M. S., ŞAHİN S.
PSWC-AAPS 2010, Pharmaceutical Sciences World Congress-American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, New Orleans, United States Of America, 14 - 18 November 2010
- XLIX. **Determination of In Vitro Dissolution Profiles of Amlodipine Besylate and Olmesartan Medoxomil Using a Newly Developed HPLC Method**
KAYNAK M. S., ÇELEBİER M., ŞAHİN S., ALTINÖZ S.
PSWC-AAPS 2010, Pharmaceutical Sciences World Congress- American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, New Orleans, United States Of America, 14 - 18 November 2010
- L. **Investigation of Hepatic Disposition of Furosemide in the Dual Perfused Cirrhotic Rat Liver**
KAYNAK M. S., ŞAHİN S.
AAPS 2009, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, Los-Angeles, Chile, 8 - 12 November 2009
- LI. **Estimation of Distributional Spaces in the Dual Perfused Cirrhotic Rat Liver**

KAYNAK M. S., ŞAHİN S.

AAPS 2009, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, Los-Angeles, Chile, 8 - 12 November 2009

- LII. **Method Development and Validation Simultaneous Determination of Diclofenac Metoprolol and Phenol Red in Biological Matrix for Intestinal Perfusion Studies**
ÇAĞLAR H., KAYNAK M. S., ŞAHİN S., BÜYÜKTUNCEL S. E.
3rd BBBosphorus International Conference on Pharmaceutical Sciences, Antalya, Turkey, 26 - 28 October 2009
- LIII. **Development and Validation of a New HPLC Method with Fluorometric Detection for Analysis of Furosemide in Samples for Liver Perfusion Studies**
KAYNAK M. S., ŞAHİN S.
69th International Congress of FIP, İstanbul, Turkey, 3 - 08 September 2009
- LIV. **HPLC Determination of Olmesatran Medoxomil and Amlodipine Besylate in Tablets**
ÇELEBİER M., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
5th Conference on Separation and Related Techniques by Nordic Separation Sciences Society (NoSSS2009), Talin, Armenia, 26 - 29 August 2009
- LV. **Determination of Naproxen Sodium in Samples for Liver Perfusion Studies via Newly Developed HPLC Method with Fluorometric Detection**
KAYNAK M. S., ŞAHİN S.
ISOPS 2009, 9th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 23 - 06 June 2009
- LVI. **Determination of the In Vitro Dissolution profiles of Amlodipine and Valsartan Combined Tablet Dosage Forms by HPLC**
KAYNAK M. S., ÇELEBİER M., ŞAHİN S., ALTINÖZ S.
MAGUM-DRD 2009, International Symposium on Drug Research and Development From Chemistry to Medicine, İstanbul, Turkey, 4 - 07 May 2009
- LVII. **Investigation of Intestinal Permeability of Naproxen Sodium and Furosemide in cirrhotic rats**
KAYNAK M. S., YILDIZ I., ŞAHİN S.
AAPS 2008, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, Atlanta, United States Of America, 16 - 20 November 2008
- LVIII. **Determination of Tissue Water Contents of Cirrhotic Rats**
KAYNAK M. S., YILDIZ I., ŞAHİN S.
AAPS 2008, American Association of Pharmaceutical Scientists' Annual Meeting and Exposition, Atlanta, United States Of America, 16 - 20 November 2008
- LIX. **Simultaneous Determination of Amlodipine Besylate and Valsartan in Tablets by HPLC**
ÇELEBİER M., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
6th Aegean Analytical Chemistry Days, Denizli, Turkey, 9 - 12 October 2008
- LX. **HPLC Method Development for the Simultaneous Analysis of Amlodipine Besylate and Valsartan in Samples for Liver Perfusion Studies**
ÇELEBİER M., KAYNAK M. S., ALTINÖZ S., ŞAHİN S.
XX Congress of Chemist and Technologists of Macedonia with V Congress of Metallurgists of Macedonia, Ohrid, Macedonia, 17 September - 20 August 2008
- LXI. **Determination of Specific Hepatic Arterial Space in Cirrhotic Rats**
KAYNAK M. S., ŞAHİN S.
14th International Pharmaceutical Technology Symposium (IPTS 2008), Antalya, Turkey, 6 - 10 September 2008
- LXII. **Investigation of Solubility and Permeability Characteristics of Furosemide**
KAYNAK M. S., ŞAHİN S., HINCAL A.
3rd World Congress of Board of Pharmaceutical Sciences of FIP (PSWC), Amsterdam, Netherlands, 22 - 25 April 2007
- LXIII. **Determination of solubility and intestinal permeability Naproxen Sodium**
KAYNAK M. S., ŞAHİN S., HINCAL A.
Pre-Satellite Meeting for and by Ph.D. Students and Postdoctoral Fellows of the 3rd World Congress of Board of Pharmaceutical Sciences of FIP (PSWC), Amsterdam, Netherlands, 20 - 21 April 2007

- LXIV. Hepatic Disposition of Trimethoprim and Sulfamethoxazole**
ŞAHİN S., SAYAR E., KAYNAK M. S., HINCAL A.
13th International Pharmaceutical Technology Symposium IPTS 2006, 10 - 13 September 2006
- LXV. Potential Use of Freeze Drying Technique for Determining of Tissue Water**
ŞAHİN S., KARABEY Y., KAYNAK M. S., ATILLA H.
1st BBBB Conference on Pharmaceutical Sciences, Siofok, Hungary, 26 - 28 September 2005
- LXVI. Estimation of Distributional Volumes in The Perfused Rat Liver**
KARABEY Y., KAYNAK M. S., ŞAHİN S., ÖNER L., HINCAL A.
8th European Congress of Pharmaceutical Science, EUFEPS 2004, Brüksel, Belgium, 17 - 20 October 2004, vol.23, pp.71
- LXVII. A Comparative Study on Controlled Release Hydrophilic Matrix Tablets Containing Glipizide**
KAYNAK M. S., KAŞ S., ÖNER L.
11th International Pharmaceutical Technology Symposium (IPTS 2002), İstanbul, Turkey, 9 - 11 September 2002
- LXVIII. Formulation of controlled release glipizide pellets using pan coating method**
KAYNAK M. S., KAŞ H. S., ÖNER L.
10th International Pharmaceutical Technology Symposium. (IPTS 2000), İstanbul, Turkey, 11 - 13 September 2000

Supported Projects

- DEMİREL M., BERKMAN M. S., KAYNAK M. S., Project Supported by Higher Education Institutions, Türkiye ilaç pazarında bulunan olanzapin tabletlerin farmasötik kalite kontrolü ve in vitro salım kinetiklerinin karşılaştırılması, 2020 - 2022
- Kaynak M. S., Soyseven M., Çelebier M., Şahin S., Arli G., Project Supported by Higher Education Institutions, Biyofarmasötik Sınıflandırma Sistemi Bakış Açısıyla İbuprofenin Fizikokimyasal Karakteristiğinin ve İntestinal Permeabilitesinin Değerlendirilmesi, 2019 - 2022
- KAYNAK M. S., TÜBİTAK Project, Ussing Chamber Tekniği Kullanılarak İlaçların Biyoyararlanımlarının Tayin Edilmesi TÜBİTAK 3501 113S203, 2013 - 2016
- KAYNAK M. S., Project Supported by Higher Education Institutions, Brucella Enfeksiyonlarının Tedavi Edilmesinde Kullanılmak Üzere Antibiyotik İçeren Katı Lipid Nanopartiküllerin SLNs Geliştirilmesi ve Karakterizasyonu, 2013 - 2016
- KAYNAK M. S., TÜBİTAK Project, Bazı Antiviral İlaçların İntestinal Permeabiliteleri Ve Dozaj Formlarından Tayini İçin Ters Faz Sivi Kromatografik Metodun Geliştirilmesi TÜBİTAK 3501 211T007, 2012 - 2015
- KAYNAK M. S., Project Supported by Higher Education Institutions, Oküler uygulama için siklosporin A yüklü lipozom kitosan nanopartikül kompleksinin hazırlanması ve in vitro değerlendirilmesi, 2011 - 2014
- KAYNAK M. S., TÜBİTAK Project, Barsaklardan Paraselüler İlaç Absorpsiyonu Üzerine Permeabilite Artırıcı Ajanların Etkisinin Araştırılması TÜBİTAK1002 111S335, 2012 - 2013
- KAYNAK M. S., Diklofenak ın barsak permeabilite çalışması için valide edilmiş yüksek basınçlı sıvı kromatografisi HPLC yöntemi geliştirilmesi ve barsak permeabilitesinin tayini, 2009 - 2011
- KAYNAK M. S., Project Supported by Other Private Institutions, Trimetoprim sülfametoksazolün karaciğerdeki dağılımı ve eliminasyonu üzerine eritrositlerin etkisi, 2003 - 2004

Metrics

- Publication: 118
Citation (WoS): 128
Citation (Scopus): 93
H-Index (WoS): 7
H-Index (Scopus): 6

Non Academic Experience

BİLİM SANAYİ VE TEKNOLOJİ BAKANLIĞI

SAĞLIK BAKANLIĞI

SAĞLIK BAKANLIĞI

TÜBİTAK

University College Dublin

MJR Pharmjet GmbH