

Asst. Prof. ESRA PEZİK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, Turkey 2016 - 2022

Undergraduate, Gazi University, Eczacılık Fakültesi, Eczacılık, Turkey 2010 - 2014

Undergraduate, Erciyes University, Eczacılık Fakültesi, Eczacılık, Turkey 2009 - 2010

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Occupational Health and Safety, İş Sağlığı ve Güvenliği Eğitim Sertifikası, İş Sağlığı ve Güvenliği Eğitim Sertifikası, 2023

Other, Deprem Farkındalık Eğitimi, İnsan Kaynağı Eğitim ve Geliştirme Daire Başkanlığı, 2023

Vocational Training, Eğiticilerin Eğitimi Sertifikası, Erzincan Binali Yıldırım University, 2022

Health&Medicine, 3D Printing (3devo composer 450) Eğitim Sertifikası, Hacettepe University Faculty of Pharmacy, Department of Pharmaceutical Technology, 2020

Health&Medicine, Yaşam Bilimleri Derneği Hücre Kültürü Uygulamaları Eğitim Sertifikası, Gazi University Faculty of Pharmacy, 2019

Other, Prof.Dr.Ünsal Çalış Genç Liderleri Yetiştirme Semineri, Hacettepe Üniversitesi, 2018

Other, Prof.Dr.Ünsal Çalış Genç Liderleri Yetiştirme Semineri, Hacettepe Üniversitesi, 2017

Health&Medicine, Laboratuvar Hayvanları Kullanım Sertifikası, Hacettepe University, 2017

Foreign Language, ÖYP Yurt İçi Dil Eğitimi, Ankara University School of Foreign Languages, 2015

Vocational Training, Farmasötik Gelişim Günleri, Hacettepe Üniversitesi, 2014

Foreign Language, Amerikan Kültür Dil Programları Avrupa Dil Portfolyosu, Amerikan Kültür Derneği Dil Okulları, 2013

Foreign Language, Wall Street English İngilizce Dil Eğitimi, Wall Street English, 2013

Vocational Training, İyi Üretim Uygulamaları (GMP) Eğitimi, ABDİBRAHİM İLAÇ SANAYİ, 2012

Dissertations

Doctorate, Hipertansiyon tedavisinde etkili çözünürlük sorunu olan bir etkin madde üzerinde önformülasyon çalışmaları, Hacettepe University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2022

Research Areas

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

Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yildirim University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2022 - Continues

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Farmasötik Teknoloji, 2017 - 2022

Research Assistant, Erzincan Binali Yildirim University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2015 - 2017

Academic and Administrative Experience

Head of Department, Erzincan Binali Yildirim University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2024 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of lacosamide-loaded in-situ gels through experimental design for evaluation of ocular irritation in vitro and in vivo**
Çoban Ö., Pınar S. G., Polat H. K., GEDİK G., KARAKUYU N. F., PEZİK E., ÜNAL S., Mokhtare B., Akşit A.
Journal of Pharmaceutical Sciences, 2025 (SCI-Expanded)
- II. **Formulation of Hesperidin-Loaded In-situ Gel for Ocular Drug Delivery: A Comprehensive Study.**
Gözcü S., Polat H. K., Gültekin Y., Ünal S., Karakuyu N. F., Şafak E. K., Doğan O., Pezik E., Haydar M. K., Aytekin E., et al.
Journal of the science of food and agriculture, vol.104, no.10, pp.5846-5859, 2024 (SCI-Expanded)
- III. **Preparation and evaluation of fast-dissolving albendazole sulfoxide and praziquantel-loaded polyvinylpyrrolidone nanofiber films by electrospinning**
Gültekin Y., Korkmaz Ç., ÖZTÜRK N., FİLAZİ A., Deniz A., Doğan O., PEZİK E., Barin G., VURAL İ.
Journal of Drug Delivery Science and Technology, vol.92, 2024 (SCI-Expanded)
- IV. **Preparation of nanosuspensions of a 1,4-dihydropyridine-based mixed L-/T-type calcium channel blocker by combined precipitation and ultrasonication methods**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., ÖZTÜRK N., VURAL İ.
Journal of Drug Delivery Science and Technology, vol.87, 2023 (SCI-Expanded)
- V. **Preparation of nanodelivery systems for oral administration of low molecular weight heparin**
Rüzgar Özemre G., Kara A. A., Pezik E., TORT S., VURAL İ., Acartürk F.
Journal of Drug Delivery Science and Technology, vol.79, 2023 (SCI-Expanded)
- VI. **Formulation Development of Lornoxicam Loaded Heat Triggered Ocular In-situ Gel Using Factorial Design.**
Polat H. K., Ünal S., Aytekin E., Karakuyu N. F., Pezik E., Haydar M. K., Kurt N., Doğan O., Mokhtare B.
Drug development and industrial pharmacy, vol.49, pp.601-615, 2023 (SCI-Expanded)
- VII. **Development of cyclosporine A nanosuspension: cytotoxicity and permeability on Caco-2 cell lines**
Gülbağ Pınar S., Pezik E., Mutlu Ağardan B., Çelebi N.
Pharmaceutical Development and Technology, vol.27, no.1, pp.52-62, 2022 (SCI-Expanded)
- VIII. **Development and characterization of pullulan-based orally disintegrating films containing amlodipine besylate**
Pezik E., GÜLSÜN İNAL T., ŞAHİN S., VURAL İ.
European Journal of Pharmaceutical Sciences, vol.156, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **Simultaneous determination of albendazole sulfoxide and praziquantel from PLGA nanoparticles and validation of new HPLC method**

GÜLTEKİN Y., ÖZTÜRK N., FİLAZİ A., DENİZ A., Korkmaz Ç., PEZİK E., Barın G., VURAL İ.

JOURNAL OF RESEARCH IN PHARMACY, vol.26, no.6, pp.1608-1618, 2022 (Scopus)

Books & Book Chapters

- I. **Chapter 10: Cellular Uptake and Transcytosis**

Barın G., Gültekin Y., Pezik E., Öztürk N., Kara A., Vural İ.

in: Drug Delivery with Targeted Nanoparticles: In Vitro and In Vivo Evaluation Methods, YILMAZ ÇAPAN, ADEM ŞAHİN, HAYRETTİN TONBUL, Editor, Jenny Stanford Publishing, Florida, pp.247-279, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation of isoniazid and NSAIDs co-loaded PLGA microparticles and in-vitro evaluation**
Pezik E., Taşkor Önel G.
7th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2024), Ankara, Turkey, 2 - 04 October 2024, pp.70
- II. **Preformulation Studies in The Development of Quercetin Nanosuspensions**
PEZİK E.
2nd International Medicine and Pharmacy Congress, Turkey, 14 - 15 September 2024
- III. **Development and In-vitro Characterization of Heat-Triggered In Situ Gel Formulations Loaded With Alpha Lipoic Acid**
TURANLI Y., POLAT H. K., PEZİK E.
21th International Pharmaceutical Technology Symposium (IPTS), Turkey, 9 - 11 September 2024
- IV. **Effect of Lamotrigine Solid Dispersions on Viability of A549 and RG-2 Cells.**
PEZİK E.
14th International Symposium on Pharmaceutical Sciences (ISOPS 2024), Ankara, Turkey, 25 - 28 June 2024
- V. **Alzheimer Tedavisinde Yenilikçi Bir Formülasyon Yaklaşımı: Ağızda Dağılan Filmler**
PEZİK E.
Erzincan Binali Yıldırım Üniversitesi (EBYU) III. AR-GE Proje Pazarı, Erzincan, Turkey, 20 May 2024
- VI. **The Effect of Different Carriers on In-Vitro Cytotoxicity of Lamotrigine Solid Dispersions**
PEZİK E.
12th International Drug Chemistry Congress, Antalya, Turkey, 7 - 10 March 2024
- VII. **Effect of M3 Nanocrystals on Breast Cancer Cell Proliferation**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., VURAL İ.
10th International Drug Chemistry Congress 2022, 9 - 12 March 2022
- VIII. **The Effect of Different Stabilizers on In-Vitro Cytotoxicity of M3 Nanocrystals**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., VURAL İ.
10th International Drug Chemistry Congress 2022, 9 - 12 March 2022
- IX. **Effect of M3 nanocrystals on the viability of Caco-2, SK-BR-3, MCF-7 and A549 cells**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., VURAL İ.
International Pharmaceutical Technology Symposium Virtual Meeting (IPTS 2022), 21 - 23 February 2022
- X. **Development and validation of a new HPLC method for the simultaneous determination of albendazol sulfoxide and praziquantel from PLGA nanoparticles**
GÜLTEKİN Y., ÖZTÜRK N., FİLAZİ A., DENİZ A., KORKMAZ Ç., PEZİK E., BARIN G., VURAL İ.
International Pharmaceutical Technology Symposium Virtual Meeting (IPTS 2022), 21 - 23 February 2022

- XI. **In vitro evaluation of doxorubicin and telmisartan loaded lipid-PLGA hybrid nanoparticles on breast cancer cells**
ÖZTÜRK N., KARA A., PEZİK E., VURAL İ.
International Pharmaceutical Technology Symposium Virtual Meeting (IPTS 2022), 21 - 23 February 2022
- XII. **Investigation of the effect of freeze drying with different cryoprotectants on in-vitro cytotoxicity of M3 nanocrystals**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., VURAL İ.
International Pharmaceutical Technology Symposium Virtual Meeting (IPTS 2022), 21 - 23 February 2022
- XIII. **Preparation of trandolapril β -cyclodextrin inclusion complex for increasing trandolapril solubility**
GÜLTEKİN Y., BARIN G., PEZİK E., ÖZTÜRK N., VURAL İ.
International Pharmaceutical Technology Symposium Virtual Meeting (IPTS 2022), 21 - 23 February 2022
- XIV. **Evaluation of the effects of different carriers on the in vitro cytotoxicity of lamotrigine solid dispersions**
PEZİK E., ŞAHİN S., VURAL İ.
International Pharmaceutical Technology Symposium Virtual Meeting (IPTS 2022), 21 - 23 February 2022
- XV. **Preparation of carbamazepine solid dispersions and determination of solubility**
PEZİK E., ÇOPUR T., PEHLİVAN S., ŞAHİN S., ÖNER L., VURAL İ.
3rd International Gazi Symposium Series Virtual Meeting (GPSS 2021), 8 - 10 September 2021
- XVI. **Determination of the effects of different carriers on in vitro cytotoxicity of carbamazepine solid dispersions**
PEZİK E., ÇOPUR T., PEHLİVAN S., ŞAHİN S., ÖNER L., VURAL İ.
3rd International Gazi Symposium Series Virtual Meeting (GPSS 2021), 8 - 10 September 2021
- XVII. **Determination of BCS Class of a New Antihypertensive Drug Candidate (M3) According to Biopharmaceutical Classification System**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., VURAL İ.
Controlled Release Society Annual Meeting (CRS Virtual Meeting 2021), 25 - 30 July 2021
- XVIII. **Development and validation of An HPLC Method for The Analysis of a Newly Synthesized 1,4-Dihydropyridine Derivative (M3)**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., VURAL İ.
Controlled Release Society Annual Meeting (CRS Virtual Meeting 2021), 25 - 30 July 2021
- XIX. **The Effect of Freeze Drying With Different Cryoprotectants on The Characteristics of Ketorolac Tromethamine Loaded Nanoparticles**
ÇOPUR T., YALÇIN D., KURT N., PEZİK E., PEHLİVAN S., ÖNER L.
13th International Symposium on Pharmaceutical Sciences (ISOPS 2021), 22 - 25 June 2021
- XX. **A New Orodispersible Tablet Formulation of An Antihypertensive Drug**
GÜLTEKİN Y., ÖZTÜRK N., ŞAHİN G., PEZİK E., KARA A., VURAL İ.
13th International Symposium on Pharmaceutical Sciences (ISOPS 2021), 22 - 25 June 2021
- XXI. **Development and Validation of An HPLC Method for Determination of Lamotrigine In Solid Dispersion**
PEZİK E., GÜLTEKİN Y., GÜLSÜN İNAL T., ŞAHİN S., VURAL İ.
13th International Symposium on Pharmaceutical Sciences (ISOPS 2021), 22 - 25 June 2021
- XXII. **Preparation of Lamotrigine Solid Dispersions With Different Polymeric and Surfactant Carriers to Enhance Solubility**
PEZİK E., GÜLTEKİN Y., GÜLSÜN İNAL T., ŞAHİN S., VURAL İ.
13th International Symposium on Pharmaceutical Sciences (ISOPS 2021), 22 - 25 June 2021
- XXIII. **Design of Ketorolac Tromethamine Loaded Nanoparticles and Evaluation of In Vitro Efficiency for Brain Tumor Treatment**
ÇOPUR T., YALÇIN D., KURT N., PEZİK E., PEHLİVAN S., ÖNER L.
13th International Symposium on Pharmaceutical Sciences (ISOPS 2021), 22 - 25 June 2021
- XXIV. **M3 Nanosuspensions Preparing By Combination of Precipitation and Ultrasonication Methods**
PEZİK E., GÜLSÜN İNAL T., GÜNDÜZ M. G., ŞAHİN S., VURAL İ.

European Federation for Pharmaceutical Sciences Annual Meeting (EUFEPS Virtual Meeting 2021), 7 - 09 June 2021

- XXV. **Determination of Equilibrium Solubility of Amlodipine Besylate**
PEZİK E., ŞAHİN S., VURAL İ.
8th BBBB International Conference on Pharmaceutical Sciences (8.BBBB 2019), 14 - 16 October 2019
- XXVI. **In Vitro Cytotoxicity Studies of Orally Disintegrating Films Containing Amlodipine Besylate**
PEZİK E., ŞAHİN S., VURAL İ.
8th BBBB International Conference on Pharmaceutical Sciences (8.BBBB 2019), 14 - 16 October 2019
- XXVII. **Development and Validation of UV Spectrophotometric Method for In Vitro Dissolution Studies of Orally Disintegrating Films Containing Amlodipine Besylate**
PEZİK E., ŞAHİN S., VURAL İ.
8th BBBB International Conference on Pharmaceutical Sciences (8.BBBB 2019), 14 - 16 October 2019
- XXVIII. **Development and Evaluation of Orally Disintegrating Films Containing Amlodipine Besylate**
PEZİK E., ŞAHİN S., VURAL İ.
8th BBBB International Conference on Pharmaceutical Sciences (8.BBBB 2019), 14 - 16 October 2019
- XXIX. **Development and Validation of UV Spectrophotometric Method for Determination of Amlodipine Besylate in Orally Disintegrating Films**
PEZİK E., ŞAHİN S., VURAL İ.
8th BBBB International Conference on Pharmaceutical Sciences (8.BBBB 2019), 14 - 16 October 2019
- XXX. **Development and Evaluation of UV Spectrophotometric Method for Solubility Studies of Amlodipine Besylate**
PEZİK E., ÖZTÜRK N., VURAL İ.
8th BBBB International Conference on Pharmaceutical Sciences (8.BBBB 2019), 14 - 16 October 2019
- XXXI. **DETERMINATION OF EQUILIBRIUM SOLUBILITY OF LAMOTRIGINE USING UV SPECTROPHOTOMETER**
PEZİK E., ŞAHİN S., VURAL İ.
International Multidisciplinary Symposium on Drug Research Development (DRD 2019), 1 - 03 July 2019
- XXXII. **Effect Of Lamotrigine On Viability Of MCF-7 And Rg-2 Cells**
PEZİK E., ÖZTÜRK N., ÇELİKER A., ŞAHİN S., VURAL İ.
19th International Pharmaceutical Technology Symposium, Antalya, Turkey, 17 - 19 September 2018
- XXXIII. **Determination of cytotoxicity of Lamotrigine on L929 cell line.**
PEZİK E., ÖZTÜRK N., ŞAHİN S., VURAL İ.
12 th International Symposium on Pharmaceutical Sciences, 26 - 29 June 2018
- XXXIV. **ORALLY DISINTEGRATING TABLETS OF TELMISARTAN FORMULATION DEVELOPMENT AND EVALUATION**
PEZİK E., ÖZTÜRK N., VURAL İ.
2nd International Gazi Symposium Series, Ankara, Turkey, 11 - 13 October 2017
- XXXV. **PULLULAN BASED ORALLY DISINTEGRATING FILMS OF TELMISARTAN**
ÖZTÜRK N., PEZİK E., KARA A., VURAL İ.
2nd INTERNATIONAL GPSS GAZI PHARMA SYMPOSIUM SERIES, Ankara, Turkey, 11 - 13 October 2017

Metrics

Publication: 45

Citation (Scopus): 46

H-Index (Scopus): 3

Congress and Symposium Activities

I. Farmasötik Biyoteknoloji Çalıştayı, Attendee, İzmir, Turkey, 2017

2nd International Gazi Pharma Symposium Series (GPSS), Attendee, Ankara, Turkey, 2017

2. Uluslararası İlaç ve Eczacılık Kongresi (İVEK), Attendee, İstanbul, Turkey, 2015