

## Asst. Prof. FIRAT YERLİKAYA

### Personal Information

**Email:** firat.yerlikaya@lokmanhekim.edu.tr

**Web:** <https://avesis.lokmanhekim.edu.tr/firat.yerlikaya>

### International Researcher IDs

ScholarID: 9OMb2-wAAAAJ

ORCID: 0000-0003-4648-3258

Publons / Web Of Science ResearcherID: F-1301-2019

ScopusID: 36093639800

Yoksis Researcher ID: 282386

### Education Information

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), Turkey 2009 - 2013

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (YI) (Tezli), Turkey 2007 - 2009

Undergraduate, Hacettepe University, Eczacılık Fakültesi, Eczacılık Pr. (4 Yıllık), Turkey 2001 - 2006

### Dissertations

Doctorate, Paklitaksel nanopartiküllerinin kalite tasarımı ile geliştirilmesi ve değerlendirilmesi, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (Dr), 2013

Postgraduate, Akciğere hedeflendirilmesi planlanan, klaritromisin içeren nano/mikropartikül ve nanokompozit formülasyonların hazırlanması ve in vitro karakterizasyonu, Hacettepe University, Sağlık Bilimleri Enstitüsü, Farmasötik Teknoloji (YI) (Tezli), 2009

### Research Areas

Pharmaceutical Technology

### Academic Titles / Tasks

Assistant Professor, Lokman Hekim University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2018 - Continues

### Academic and Administrative Experience

Lokman Hekim University, 2018 - 2020

### Courses

İlaç Şekilleri ve Tıbbi Malzeme, Associate Degree, 2020 - 2021

Farmasötik Teknoloji I, Undergraduate, 2020 - 2021

Farmasötik Dozaj Formları, Postgraduate, 2020 - 2021, 2019 - 2020

Farmasötik Teknoloji I Laboratuvar, Undergraduate, 2020 - 2021

Farmasötik Geliştirme Çalışmaları, Postgraduate, 2020 - 2021, 2019 - 2020

## Supervised Theses

Yerlikaya F., Kafein ve Trikalsiyum Fosfat Kullanılan, Direkt Baskı Yöntemi ile Üretilen Tablet Formülasyonlarının Geliştirilmesi ve Karakterizasyonu, Postgraduate, E.CANSU(Student), 2024

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

- I. **A Novel Method for Development and Validation of the Degradation Products Analysis of N-Carbamylglutamate with UHPLC by Using Design of Experiment Approach**  
Arabaci B., YERLİKAYA F., BAŞCI AKDUMAN N. E.  
ACS Omega, 2024 (SCI-Expanded)
- II. **Development and in vitro evaluation of doxorubicin and celecoxib co-loaded bone targeted nanoparticles**  
Kozlu S., Sahin A., Ultav G., Yerlikaya F., ÇALIŞ S., ÇAPAN Y.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.45, pp.213-219, 2018 (SCI-Expanded)
- III. **Development and validation of a stability-indicating ultra-performance liquid chromatography (UPLC) method for doxycycline hyclate: An optimization of the analytical methodology for a medical countermeasure (MCM) drug**  
Mohammad A., Yen C. H., Schneider M., Lowry B., YERLİKAYA F., Whitesell G., Leisssa B., Faustino P. J., Khan S. R.  
Analytical Methods, vol.10, no.16, pp.1842-1851, 2018 (SCI-Expanded)
- IV. **A small variation in average particle size of PLGA nanoparticles prepared by nanoprecipitation leads to considerable change in nanoparticles' characteristics and efficacy of intracellular delivery**  
ŞAHİN A., ESENDAĞLI G., YERLİKAYA F., Caban-Toktas S., Yoyen-Ermis D., HORZUM U., AKTAŞ Y., Khan M., Couvreur P., ÇAPAN Y.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.45, no.8, pp.1657-1664, 2017 (SCI-Expanded)
- V. **Formulation and process factors influencing product quality and in vitro performance of ophthalmic ointments**  
Xu X., Al-Ghabeish M., Rahman Z., Krishnaiah Y. S., YERLİKAYA F., Yang Y., Manda P., Hunt R. L., Khan M. A.  
International Journal of Pharmaceutics, vol.493, no.1-2, pp.412-425, 2015 (SCI-Expanded)
- VI. **Development and Evaluation of Paclitaxel Nanoparticles Using a Quality-by-Design Approach**  
Yerlikaya F., Ozgen A., VURAL İ., Guven O., Karaagaoglu E., Khan M. A., ÇAPAN Y.  
JOURNAL OF PHARMACEUTICAL SCIENCES, vol.102, no.10, pp.3748-3761, 2013 (SCI-Expanded)
- VII. **The influence of technological parameters on the physicochemical properties of blank PLGA nanoparticles**  
ÖZTÜRK K., Caban S., Kozlu S., Kadayifci E., YERLİKAYA F., ÇAPAN Y.  
Pharmazie, vol.65, no.9, pp.665-669, 2010 (SCI-Expanded)
- VIII. **LC-UV Determination of Melatonin from Chitosan Nanoparticles**  
Yerlikaya F., Aktas Y., ÇAPAN Y.  
CHROMATOGRAPHIA, vol.71, pp.967-970, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Determination of Caffeine in Human Plasma by Using Liquid Chromatography-Tandem Mass Spectrometry**

YERLİKAYA F., SAĞLAM O.

Cumhuriyet Science Journal, vol.44, no.3, pp.485-490, 2023 (Peer-Reviewed Journal)

- II. **The Bioequivalence Study of Two Dexketoprofen 25 mg Film-Coated Tablet Formulations in Healthy Males Under Fasting Conditions**  
YERLİKAYA F., Arslan A., Baş H., Sağlam O., Aytaç S. P.  
Turkish Journal of Pharmaceutical Sciences, vol.20, no.2, pp.115-120, 2023 (ESCI)
- III. **The Relative Bioavailability Study of Two Cefdinir Formulations in Healthy Males Under Fasting Conditions**  
YERLİKAYA F., ARSLAN A., Atik O., Kozan S., Parlak A., Özel Karataş M., SAĞLAM O., Aytaç S. P.  
FABAD Journal of Pharmaceutical Sciences, vol.48, no.1, pp.25-36, 2023 (Scopus)
- IV. **The Bioequivalence Study of Two Cefdinir 250 mg/5 mL Oral Suspension Formulations in Healthy Males Under Fasting Conditions**  
YERLİKAYA F., Arslan A., Atik Ö., Kozan S., Parlak A., Özel Karataş M., Sağlam O., Aytaç S. P.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.43, no.1, pp.43-49, 2023 (Scopus)
- V. **APPLICATION OF PLACKETT-BURMAN DESIGN FOR DEVELOPMENT AND EVALUATION OF A BETAMETHASONE SUSPENSION FOR INJECTION FORMULATION BİR BETAMETAZON ENJEKSİYONLUK SÜSPANSİYON FORMÜLASYONUNUN GELİŞTİRİLMESİ VE DEĞERLENDİRİLMESİ İÇİN PLACKETT-BURMAN TASARIMININ UYGULANMASI**  
YERLİKAYA F., Arslan A., Arabacı B., Gençer P., NEMUTLU E.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.47, no.2, pp.477-489, 2023 (Scopus)
- VI. **Development of paclitaxel and flurbiprofen co-loaded PLGA nanoparticles: understanding critical formulation and process parameters using Plackett-Burman design**  
Sahin A., Caban-Toktas S., Tonbul H., Yerlikaya F., AKTAŞ Y., ÇAPAN Y.  
ISTANBUL JOURNAL OF PHARMACY, vol.49, no.3, pp.161-166, 2019 (ESCI)
- VII. **A Comparative Evaluation of Polystyrene Divinylbenzene Copolymer HPLC Columns on the Chromatographic Performance of the Compendial Method for Doxycycline Hyclate Capsules: Implications for Method Implementation of a Medical Countermeasure Medication**  
YERLİKAYA F., Mohammad A., Faustino P., Khan M. A., Saeed K.  
Journal of Analytical Sciences, Methods and Instrumentation, vol.5, no.3, pp.23-34, 2015 (Peer-Reviewed Journal)
- VIII. **Formulation and In Vitro Evaluation of Paclitaxel Loaded Nanoparticles**  
Aygul G., YERLİKAYA F., CabanToktas S., Vural I., Capan Y.  
Hacettepe University Journal of the Faculty of Pharmacy, vol.33, no.1, pp.25-40, 2013 (Scopus)

## Metrics

Publication: 17

Citation (WoS): 109

Citation (Scopus): 257

H-Index (WoS): 5

H-Index (Scopus): 7