

## Res. Asst. PhD İNCİ BARUT HELM

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Anadolu University, Institute Of Health Sciences, Department Of Analytical Chemistry, Turkey 2015 - 2022

Postgraduate, Gazi University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, Turkey 2011 - 2015

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, Turkey 2003 - 2008

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Laktasistin'in membran lipidomuna ve nöroekzositoza etkilerinin görüntülemeli TOF-SIMS ve elektrokimyasal yöntemler ile analizi, Anadolu University, Faculty Of Pharmacy, Department Of Basic Pharmaceutical Sciences, 2022

Postgraduate, Ankara'da tüketime sunulan hazır çorbalarda HPLC yöntemi ile monosodyum glutamat miktarlarının araştırılması, Gazi University, Sağlık Bilimleri Enstitüsü, 2015

### Research Areas

Basic Pharmaceutics Sciences, Analytical Chemistry, Bioinformatics

### Academic Titles / Tasks

Research Assistant, Anadolu University, Faculty Of Pharmacy, Department Of Basic Pharmaceutical Sciences, 2015 - 2022

Researcher, Göteborgs Universitet (Göteborg University), Chemistry & Molecular Biology, 2019 - 2020

Research Assistant, Gazi University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2011 - 2015

Researcher, University of Florida, Chemistry, 2013 - 2013

### Courses

Graduation Project, Undergraduate, 2022 - 2023

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

- I. **Cell and tissue imaging by secondary ion mass spectrometry**  
BARUT İ., Fletcher J. S.  
Biointerphases, vol.18, no.6, 2023 (SCI-Expanded)
- II. **Correlative Cellular Mass Spectrometry Imaging and Amperometry Show Dose Dependent Changes in Lipid Composition and Exocytosis.**  
Barut I., He X., Sener E., Sämfors S., Ewing A. G., Fletcher J.  
Angewandte Chemie (International ed. in English), vol.62, 2023 (SCI-Expanded)
- III. **Advanced liposome based PEGylated microgel as a novel release system for 5-fluorouracil against MCF-7 cancer cell**  
Ulker D., Barut İ., Sener E., Bütün V.  
EUROPEAN POLYMER JOURNAL, vol.146, 2021 (SCI-Expanded)
- IV. **BSA modification to reduce CTAB induced nonspecificity and cytotoxicity of aptamer-conjugated gold nanorods**  
Yasun E., Li C., Barut İ., Janvier D., Qiu L., Cui C., Tan W.  
NANOSCALE, vol.7, no.22, pp.10240-10248, 2015 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Presence of Tetracycline Antibiotic Residues and Total Aerob Mesophilic Bacteria in Some Foods Consumed in Ankara**  
Baştürk Ö., Demirhan B., Barut İ., Er Demirhan B.  
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.43
- II. **Determination of some quality criteria in non-alcoholic beverages**  
Altınsoy H., Barut İ., Demirhan B.  
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.1511
- III. **A SIMS method for unraveling differential lipid profiles of proteasomally inhibited chromaffin cells**  
BARUT İ., Sämfors S., Fletcher J. S.  
The 22nd International Conference on Secondary Ion Mass Spectrometry, 20 - 25 October 2019
- IV. **In vitro controlled release of 5 FU drug from a stimuli responsive microgel liposome biomaterials at different temperatures**  
Ülker D., BARUT İ., ŞENER E., BÜTÜN V.  
11th International Conference and Expo on Nanoscience and Molecular Nanotechnology, 20 - 22 October 2016
- V. **Stimuli responsive microgel liposome hybrid biomaterials for controlled and targeted drug release applications**  
BÜTÜN V., Ülker D., BARUT İ., ŞENER E.  
11th International Conference and Expo on Nanoscience and Molecular Nanotechnology, Roma, France, 20 - 22 October 2016
- VI. **C6 Fenil Kolonların Bazik ve Polar Moleküllerin Analizindeki Etkinliği Gabapentin İçeren Tabletlerde İçerik Tekdüzeliliğinin Belirlenmesi**  
Delioğlu C., BARUT İ., ŞENER E.  
16. Kromatografi Kongresi, Malatya, Turkey, 31 August - 02 September 2016
- VII. **Evaluation of RP LC data from Ecballium elaterium samples with principal component analysis**  
Özdemir B., BARUT İ., ŞENER E.

Third International Conference on New Trends in Chemometrics and Applications, Antalya, Turkey, 25 - 28 May 2016

VIII. **Simultaneous pKa Determination of Amlodipine and Levocetirizine with Gradient RP HPLC**

GENÇ L., BARUT İ., ŞENER E.

Third International Conference on New Trends in Chemometrics and Applications, Antalya, Turkey, 25 - 28 May 2016

IX. **Determination of monosodium glutamate levels by HPLC method in instant soups marketed in Ankara**

BARUT İ., TAMER U., YENTÜR G.

1st International Gazi PharmaSymposium Series (GPSS-2015), 12 - 15 November 2015

X. **Facile Isolation and Detection of Rare Cancer Proteins with Aptamer Conjugated Silver Microspheres**

YASUN E., BARUT İ., ERDAL H., TAN W.

NanoFlorida, Gainesville, United States Of America, 29 - 30 September 2013

## Supported Projects

Barut İ., Şener E., Project Supported by Higher Education Institutions, Temel Bileşen Analizine (PCA) Uygun Verilerin Elde Edilebilmesi İçin Bir Gaz Kromatografisi-FID Yönteminin Geliştirilmesi, 2018 - 2019

Barut İ., Şener E., Project Supported by Higher Education Institutions, Sıvı Kromatografisi Sonuçlarının Temel Bileşen Analizi ile Değerlendirilerek Bitki Çaylarının Karşılaştırılması, 2016 - 2017

## Metrics

Publication: 16

Citation (WoS): 93

Citation (Scopus): 100

H-Index (WoS): 3

H-Index (Scopus): 3

## Scholarships

COST- Action Short Term Scientific Mission, European Commission, 2023 - 2024

COST Action Summer School for Lipid Metabolism, European Commission, 2022 - 2022

YUDAB, YOK, 2019 - 2020

Graduate Short Term Research Scholarship, YOK, 2013 - 2013