

# Dr. Öğr. Üyesi DUYGU DENİZ USTA SALİMİ

## Kişisel Bilgiler

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## Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Sağlık Bilimleri Enstitüsü, Türkiye 2016 - 2023

Yüksek Lisans, Gazi Üniversitesi, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji Ve Genetik (YI) (Tezli), Türkiye 2013 - 2016

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik Anabilim Dalı (Disiplinlerarası), Türkiye 2011 - 2014

## Yaptığı Tezler

Doktora, Kompozit nanoparçacıklar aracılığıyla gerçekleştirilen fototermal terapinin meme kanseri üzerine etkilerinin araştırılması, Gazi Üniversitesi, Sağlık Bilimleri Enstitüsü, 2023

Yüksek Lisans, Afinite Kromatografisiyle Desteklenmiş SERS Tabanlı Biyosensörler Aracılığıyla Diol Gruplu Biyomolekül Tayini, Gazi Üniversitesi, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji Ve Genetik (YI) (Tezli), 2016

Yüksek Lisans, KOLON KANSER HÜCRELERİ İÇİN ALTIN KAPLI MANYETİK YÜKLÜ TRANSFEKSİYON AJANLARININ KULLANILMASI, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik Anabilim Dalı (Disiplinlerarası), 2014

## Araştırma Alanları

Sağlık Bilimleri

## Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Gazi Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 2024 - Devam Ediyor

Araştırma Görevlisi, İstanbul Medeniyet Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2013 - Devam Ediyor

Araştırma Görevlisi, İstanbul Medeniyet Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2013 - Devam Ediyor

## Akademik İdari Deneyim

Koordinatör Yardımcısı, Gazi Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 2024 - Devam Ediyor

## Verdiği Dersler

Biyomoleküller, Lisans, 2024 - 2025

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Determination of *In Vitro* and *In Vivo* Effects of Taxifolin and Epirubicin on Epithelial-Mesenchymal Transition in Mouse Breast Cancer Cells**  
Ocak M., Usta D. D., Arik Erol G. N., Kaplanoglu G., Konac E., Yar Sağlam A. S.  
TECHNOLOGY IN CANCER RESEARCH & TREATMENT, cilt.23, 2024 (SCI-Expanded)
- II. **Bio-inspired NIR responsive Au-pDA@pDA sandwich nanostructures with excellent photo-thermal performance and stability**  
Usta D. D., Celebi N., Soysal F., Yar Sağlam A. S., Yıldız N., Salimi K.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, cilt.611, 2021 (SCI-Expanded)
- III. **Ti (IV) attached-phosphonic acid functionalized capillary monolith as a stationary phase for in-syringe-type fast and robust enrichment of phosphopeptides**  
Salimi K., Kip C., Çelikbıçak Ö., Usta D. D., Pınar A., Salih B., Tuncel A.  
BIOMEDICAL CHROMATOGRAPHY, cilt.33, sa.6, 2019 (SCI-Expanded)
- IV. **Isolation of RNA and beta-NAD by phenylboronic acid functionalized, monodisperse-porous silica microspheres as sorbent in batch and microfluidic boronate affinity systems**  
Kip C., Gulusur H., Celik E., Usta D. D., Tuncel A.  
COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.174, ss.333-342, 2019 (SCI-Expanded)
- V. **Protein A and protein A/G coupled magnetic SiO<sub>2</sub> microspheres for affinity purification of immunoglobulin G**  
Salimi K., Usta D. D., Koçer Kuloğlu İ., Celik E., Tuncel A.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, cilt.111, ss.178-185, 2018 (SCI-Expanded)
- VI. **Sensitive plasmonic-photonic nanosensor as a morphologic mask**  
Salmanoglu A., Salimi K., Farhadnia F., Usta D. D.  
OPTICAL MATERIALS, cilt.70, ss.73-82, 2017 (SCI-Expanded)
- VII. **Ti(IV) carrying polydopamine-coated, monodisperse-porous SiO<sub>2</sub> microspheres with stable magnetic properties for highly selective enrichment of phosphopeptides**  
Salimi K., Usta D. D., Çelikbıçak Ö., Pınar A., Salih B., Tuncel A.  
COLLOIDS AND SURFACES B-BIOINTERFACES, cilt.153, ss.280-290, 2017 (SCI-Expanded)
- VIII. **Human genomic DNA isolation from whole blood using a simple microfluidic system with silica- and polymer-based stationary phases**  
Gunal G., Kip C., Oğut S. E., Usta D. D., Şenlik E., Kibar G., Tuncel A.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, cilt.74, ss.10-20, 2017 (SCI-Expanded)
- IX. **Highly selective enrichment of phosphopeptides by titanium (IV) attached monodisperse-porous poly(vinylphosphonic acid-co-ethylene dimethacrylate) microspheres**  
Salimi K., Usta D. D., Çelikbıçak Ö., Pınar A., Salih B., Tuncel A.  
JOURNAL OF CHROMATOGRAPHY A, cilt.1496, ss.9-19, 2017 (SCI-Expanded)
- X. **Highly selective magnetic affinity purification of histidine-tagged proteins by Ni<sup>2+</sup> carrying monodisperse composite microspheres**  
Salimi K., Usta D. D., Koçer Kuloğlu İ., Celik E., Tuncel A.  
RSC ADVANCES, cilt.7, sa.14, ss.8718-8726, 2017 (SCI-Expanded)
- XI. **A Boronate Affinity-Assisted SERS Tag Equipped with a Sandwich System for Detection of Glycated Hemoglobin in the Hemolysate of Human Erythrocytes**  
Usta D. D., Salimi K., Pınar A., Coban I., Tekinay T., Tuncel A.  
ACS APPLIED MATERIALS & INTERFACES, cilt.8, sa.19, ss.11934-11944, 2016 (SCI-Expanded)

## Kitap & Kitap Bölümleri

### I. Biology and Metabolism of Muscle Tissue

YAR SAĞLAM A. S., USTA SALİMİ D. D.

INHERITED METABOLIC MYOPATHIES, Prof. Dr. İlyas OKUR, Editör, TÜRKİYE KLİNİKLERİ, Ankara, ss.1-109, 2024

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Determination of In Vitro and In Vivo Effects of Taxifolin and Epirubicin on Epithelial-Mesenchymal Transition in Mouse Breast Cancer Cells.**  
Ocak M., Usta Salımı D. D., Arık Erol G. N., Take Kaplanoğlu G., Konaç E., Yar Sağlam A. S.  
3rd International Multidisciplinary Cancer Research Congress, İstanbul, Türkiye, 7 - 10 Eylül 2023, ss.93-94
- II. **Aspergillus fumigatus enfeksiyonu ile ilişkili miRNA'larının hücre kültüründe gösterilmesi**  
YAR SAĞLAM A. S., KALKANCI A., USTA SALIMI D. D., EŞCAN F., FİDAN I., GÜZEL TUNÇCAN Ö.  
Türk Mikrobiyoloji Kongresi-Uluslararası, Türkiye, 16 Kasım 2022
- III. **Fabrication of Plasmonic Core-shell Nanostructures for Potential Photothermal Cancer Therapy Applications**  
USTA SALİMİ D. D., SOYSAL F., SALIMI K., ÇELEBİ N., YILDIZ N.  
5th International Conference on Engineering Sciences, Türkiye, 19 Eylül 2019
- IV. **Photothermal performance of Bio-inspired Au@PDOP Nanocomposites**  
USTA SALIMI D. D., SOYSAL F., ÇELEBİ N., SALİMİ K., YILDIZ N.  
5th International Conference on Engineering Sciences, 19 Eylül 2019
- V. **A new microfluidic extraction system equipped with a multiple feeding system for human genomic DNA (hg-DNA) isolation from whole-blood**  
OGUT E., USTA D. D., KİP F. Ç., Salimi K., Senlik E., Gunal Karatas G., TUNCEL S. A.  
International Porous and Powder Materials Symposium and Exhibition, PPM 2017, 12 - 15 Eylül 2017
- VI. **Monodisperse-porous titania microspheres with biomodal pore-size distribution as a new stationary phase for DNA microextraction. , June 18-22, 2017 at Prague, Czech Republic.**  
DURMAZ M., USTA D. D., salimi k., KUBAN A., TUNCEL S. A.  
45th International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC2017), PRAG, Çek Cumhuriyeti, 18 - 22 Haziran 2017
- VII. **Phosphopeptide enrichment from human-serum via immobilized metal affinity chromatography using phosphonic acid functionalized capillary monolith as a stationary phase in a microfluidic system**  
USTA D. D., KİP F. Ç., salimi k., ÇELİKBIÇAK Ö., PINAR A., SALİH B., TUNCEL S. A.  
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- VIII. **Phosphopeptide enrichment via immobilized metal affinity chromatography using phosphonic acid functionalized capillary monolith as a stationary phase in a microfluidic system**  
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HPLC 2017 PRAGUE, 18 Haziran 2017
- IX. **Newly designed silver coated-magnetic, monodisperse polymeric microbeads for the reduction of nitrophenol**  
KARS DURUKAN İ., USTA D. D., ediz e., KİP F. Ç., TUNCEL S. A.  
Ecology 2017, 11 - 13 Mayıs 2017
- X. **Synthesis and Characterization of Ag Nanoparticle Based Photocatalysts**  
KARS DURUKAN İ., USTA D. D., Ediz E., KİP F. Ç., TUNCEL S. A.  
Ecology 2017, 11 - 13 Mayıs 2017
- XI. **SYNTHESIS AND CHARACTERIZATION OF AUNANOPARTICLE BASED PHOTOCATALYSTS**  
KARS DURUKAN İ., USTA D. D., Ediz E., KİP F. Ç., TUNCEL S. A.

INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 Nisan 2017

- XII. **Wastewater Treatment with Magnetic Microspheres**  
KARS DURUKAN İ., USTA D. D., ediz e., KİP F. Ç., TUNCEL S. A.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING, İstanbul, Türkiye, 25 - 28 Nisan 2017
- XIII. **PHENOL REMOVAL BY MAGNETIC CONTROLLED CONTINUOUS REACTOR SYSTEM**  
KARS DURUKAN İ., USTA D. D., Ediz E., Salimi K., TUNCEL S. A.  
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- XIV. **A New Magnetic silica Based Sorbent for Isolation of Green Fluorescent Protein by Immobilized Metal Affinity Chromatography**  
USTA D. D., SALİMİ K., KOÇER İ., ÇELİK AKDUR E., TUNCEL S. A.  
HPLC 2016 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 Haziran 2016
- XV. **Immobilized Metal Affinity Microchromatography using Phosphonic Acid Functionalized Polymethacrylate based Monolithic Stationary Phases Carrying Lanthanide Ions**  
KİP F. Ç., USTA D. D., HAMALOĞLU K. Ö., ÇAMBAY F., DEMİR M. C., TUNCEL S. A.  
HPLC 2016 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 Haziran 2016
- XVI. **A microfluidic Human Genomic DNA Extraction System using Monodisperse porous Silica Microspheres with Bimodal Pore Size Distribution**  
ÖĞÜT E., KİP F. Ç., GÜNAL G., USTA D. D., İLHAN H., TUNCEL S. A.  
HPLC 2016 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 Haziran 2016
- XVII. **Polydopamine Coated Magnetic Monodisperse porous Silica Microspheres as a Stationary Phase for Protein Separation by Immobilized Metal Affinity Chromatography IMAC**  
USTA D. D., KİP F. Ç., SALİMİ K., ÇELİKKAYA B., TUNCEL S. A.  
HPLC 2016 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 Haziran 2016
- XVIII. **Magnetic monodisperse Silica Microspheres for Human Genomic DNA Microextraction in batch Fashion**  
GÜNAL G., ÖĞÜT E., USTA D. D., SALİMİ K., DEMİR M. C., KİP F. Ç., TUNCEL S. A.  
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- XIX. **Phosphopeptide Enrichment using Ti4 Attached Monodisperse porous Poly phosphonic Acid based Microspheres**  
SALİMİ K., USTA D. D., ÇELİKBIÇAK Ö., SALİH B., TUNCEL S. A.  
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- XX. **Batch and Microfluidic Isolation of Diol Carrying Biomolecules by a Boronate Affinity Sorbent Based on Monodisperse porous Microspheres**  
KİP F. Ç., USTA D. D., SALİMİ K., GÜLÜŞÜR H., TUNCEL S. A.  
HPLC 2016 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 Haziran 2016
- XXI. **Gold Decorated Magnetite Nanoparticles as a Non viral vector Applied in Cell Cultures on Tumor Cell Lines**  
USTA D. D., TÜRK M., PIŞKİN E.  
European Symposium on Biomaterials and Related Areas 2015, 21 - 22 Nisan 2015

## Metrikler

Atıf (WoS): 274

Atıf (Scopus): 287

H-İndeks (WoS): 9

H-İndeks (Scopus): 9

## **Burslar**

2211-E Doğrudan Yurt İçi Doktora Burs Programı, TÜBİTAK, 2016 - 2020