

## Asst. Prof. DUYGU DENİZ USTA SALİMİ

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Turkey 2016 - 2023

Postgraduate, Gazi University, Sağlık Bilimleri Enstitüsü, Tıbbi Biyoloji Ve Genetik (YI) (Tezli), Turkey 2013 - 2016

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik Anabilim Dalı (Disiplinlerarası), Turkey 2011 - 2014

### Dissertations

Doctorate, Kompozit nanoparçacıklar aracılığıyla gerçekleştirilen fototermaI terapinin meme kanseri üzerine etkilerinin araştırılması, Gazi University, Sağlık Bilimleri Enstitüsü, 2023

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

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

### Research Areas

Health Sciences

### Academic Titles / Tasks

Assistant Professor, Gazi University, Tıp Fakültesi, Temel Tıp Bilimleri, 2024 - Continues

Research Assistant, Istanbul Medeniyet University, Faculty Of Medicine, Temel Tıp Bilimleri Bölümü, 2013 - Continues

Research Assistant, Istanbul Medeniyet University, Faculty Of Medicine, Temel Tıp Bilimleri Bölümü, 2013 - Continues

### Academic and Administrative Experience

Assistant Coordinator, Gazi University, Tıp Fakültesi, Temel Tıp Bilimleri, 2024 - Continues

### Courses

Biyomoleküller, Undergraduate, 2024 - 2025

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

- I. **Transcriptomic investigation of NP toxicity on HepaRG spheroids**  
Tucer M. E., Tunc N., Tucer S., Acar R., YILMAZ USTA D., SALİMİ K., KONU KARAKAYALI Ö., ŞEKER U. Ö. Ş.  
CHEMICO-BIOLOGICAL INTERACTIONS, 2025 (SCI-Expanded)
- II. **MicroRNA expression profile of alveolar epithelial cells infected with *Aspergillus fumigatus***  
YAR SAĞLAM A. S., KALKANCI A., Salimi D. D., Escan F., FİDAN I., GÜZEL TUNÇCAN Ö.  
JOURNAL OF APPLIED GENETICS, no.3, pp.627-634, 2024 (SCI-Expanded)
- III. **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 Saglam A. S.  
TECHNOLOGY IN CANCER RESEARCH & TREATMENT, vol.23, 2024 (SCI-Expanded)
- IV. **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, vol.611, 2021 (SCI-Expanded)
- V. **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, vol.33, no.6, 2019 (SCI-Expanded)
- VI. **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, vol.174, pp.333-342, 2019 (SCI-Expanded)
- VII. **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, vol.111, pp.178-185, 2018 (SCI-Expanded)
- VIII. **Sensitive plasmonic-photonic nanosensor as a morphologic mask**  
Salmanoglu A., Salimi K., Farhadnia F., Usta D. D.  
OPTICAL MATERIALS, vol.70, pp.73-82, 2017 (SCI-Expanded)
- IX. **Human genomic DNA isolation from whole blood using a simple microfluidic system with silica- and polymer-based stationary phases**  
Gunal G., Kip C., Ogut S. E., Usta D. D., Şenlik E., Kibar G., Tuncel A.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.74, pp.10-20, 2017 (SCI-Expanded)
- X. **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, vol.153, pp.280-290, 2017 (SCI-Expanded)
- XI. **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, vol.1496, pp.9-19, 2017 (SCI-Expanded)
- XII. **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, vol.7, no.14, pp.8718-8726, 2017 (SCI-Expanded)

- XIII. **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., Pinar A., Coban I., Tekinay T., Tuncel A.  
ACS APPLIED MATERIALS & INTERFACES, vol.8, no.19, pp.11934-11944, 2016 (SCI-Expanded)

## Books & Book Chapters

I. **Biology and Metabolism of Muscle Tissue**

YAR SAĞLAM A. S., USTA SALİMİ D. D.

in: INHERITED METABOLIC MYOPATHIES, Prof. Dr. İlyas OKUR, Editor, TÜRKİYE KLİNİKLERİ, Ankara, pp.1-109, 2024

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Neuroprotective Effects of Resveratrol and Hydrogen sulfide in an in vitro Parkinson's Model**  
Sahar N. A. K., USTA SALİMİ D. D., YAR SAĞLAM A. S.  
9th International Congress of the Molecular Biology Association of Turkey, 12 September 2024
- II. **Determination of In Vitro and In Vivo Effects of Taxifolin and Epirubicin on Epithelial-Mesenchymal Transition in Mouse Breast Cancer Cells.**  
Ocak M., Usta Salimi D. D., Arık Erol G. N., Take Kaplanoğlu G., Konaç E., Yar Sağlam A. S.  
3rd International Multidisciplinary Cancer Research Congress, İstanbul, Turkey, 7 - 10 September 2023, pp.93-94
- III. **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, Turkey, 16 November 2022
- 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 September 2019
- V. **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, Turkey, 19 September 2019
- VI. **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 September 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.  
45th International Symposium on High Performance Liquid Phase Separations and Related Techniques(HPLC 2017), 18 - 22 June 2017
- VIII. **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, Czech Republic, 18 - 22 June 2017
- IX. **Phosphopeptide enrichment via immobilized metal affinity chromatography using phosphonic acid functionalized capillary monolith as a stationary phase in a microfluidic system**

USTA SALİMİ D. D., KİP F. Ç., SALIMI K., ÇELİKBIÇAK Ö., PINAR A., SALİH B., TUNCEL S. A.  
HPLC 2017 PRAGUE, 18 June 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 May 2017
- XI. **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 May 2017
- XII. **PHENOL REMOVAL BY MAGNETIC CONTROLLED CONTINUOUS REACTOR SYSTEM**  
KARS DURUKAN İ., USTA D. D., Ediz E., Salimi K., TUNCEL S. A.  
INTERNATIONAL CONFERENCE ON ENERGY AND THERMAL ENGINEERING: ISTANBUL 2017, 25 - 28 April 2017
- XIII. **SYNTHESIS AND CHARACTERIZATION OF NANOPARTICLE 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 April 2017
- XIV. **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, Turkey, 25 - 28 April 2017
- XV. **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 June 2016
- XVI. **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 June 2016
- XVII. **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 June 2016
- XVIII. **Phosphopeptide Enrichment using Ti4 Attached Monodisperse porous Poly phosphonic Acid based Microspheres**  
SALİMİ K., USTA D. D., ÇELİKBIÇAK Ö., SALİH B., TUNCEL S. A.  
HPLC 2016 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 June 2016
- XIX. **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.  
HPLC 2016 44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 June 2016
- XX. **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 June 2016
- XXI. **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 June 2016

XXII. **Gold Decorated Magnetite Nanoparticles as a Non viral vector Applied in Cell Cultures on Tumor Cell Lines**

USTA D. D., TÜRK M., PİŞKİN E.

European Symposium on Biomaterials and Related Areas 2015, 21 - 22 April 2015

## **Metrics**

Publication: 39

Citation (WoS): 274

Citation (Scopus): 287

H-Index (WoS): 9

H-Index (Scopus): 9

## **Scholarships**

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