

# Prof. ÖZGE ÜLKER

## Personal Information

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## Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (Dr) (Eczacılık), Turkey 2004 - 2010

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1997 - 2001

## Dissertations

Doctorate, Kimyasalların radyoaktif olmayan lokal lenf düğümü yöntemi ile rölatif temas alerjisi potansiyelinin araştırılması ve yama testi sonuçları ile karşılaştırılması, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (Dr) (Eczacılık), 2010

Postgraduate, Bazı pro-enflamatuar sitokinlerin ve antioksidan enzimlerin kömür işçileri pnömokonyozunun gelişiminde ve klinik şiddetindeki rolü, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji (YI) (Tezli), 2004

## Research Areas

Health Sciences

## Academic Titles / Tasks

Associate Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2016 - 2019

## Advising Theses

ÜLKER Ö., Deri duyarlandırması testi olan direkt peptit reaktivite yöntemi (direct peptide reactivity assay-DPRA) ile bazı kimyasal maddelerin duyarlandırma potansiyellerinin değerlendirilmesi, Postgraduate, P.KAVAS(Student), 2021

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

1. The investigation of the toxicity of organophosphorus flame retardants (OPFRs) by using *in silico* toxicity prediction platform ProTox-3.0  
Banerjee P., Ulker O., Ozkan I., ÜLKER Ö.

TOXICOLOGY MECHANISMS AND METHODS, vol.35, no.1, pp.32-42, 2025 (SCI-Expanded)

- II. **Combinative *ex vivo* studies and *in silico* models ProTox-II for investigating the toxicity of chemicals used mainly in cosmetic products.**  
Banerjee P., Ulker Ö.  
Toxicology mechanisms and methods, vol.32, no.7, pp.542-548, 2022 (SCI-Expanded)
- III. **Short overview on the relevance of microRNA-reactive oxygen species (ROS) interactions and lipid peroxidation for modulation of oxidative stress-mediated signalling pathways in cancer treatment**  
ÜLKER Ö., Panieri E., SÜZEN S., Jaganjac M., Zarkovic N., Saso L.  
JOURNAL OF PHARMACY AND PHARMACOLOGY, vol.74, no.4, pp.503-515, 2022 (SCI-Expanded)
- IV. **Volatile Organic Compounds (VOCs) Emitted from Coated Furniture Units**  
Ulker O. C., Ulker Ö., Hiziroglu S.  
COATINGS, vol.11, no.7, 2021 (SCI-Expanded)
- V. **Organophosphorus flame retardants are developmental neurotoxicants in a rat primary brainsphere *in vitro* model**  
Hogberg H. T., da Silveira E Sa R. d. C., Kleensang A., Bouhifd M., Cemiloglu Ulker Ö., Smirnova L., Behl M., Maertens A., Zhao L., Hartung T.  
ARCHIVES OF TOXICOLOGY, vol.95, no.1, pp.207-228, 2021 (SCI-Expanded)
- VI. **Toxicity of Formaldehyde, Polybrominated Diphenyl Ethers (PBDEs) and Phthalates in Engineered Wood Products (EWPs) from the Perspective of the Green Approach to Materials: A Review**  
ÜLKER Ö., ÜLKER O.  
BIORESOURCES, vol.14, no.3, 2019 (SCI-Expanded)
- VII. **Investigation of hypersensitivity potential of diacetyl by determining cytokine profiles**  
Elkama A., Ulker Ö., Teker E., Karakaya A., Karakaya A. E.  
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.37, no.3, pp.265-274, 2018 (SCI-Expanded)
- VIII. **Protective Effect of Boric Acid on Oxidative DNA Damage In Chinese Hamster Lung Fibroblast V79 Cell Lines**  
Yilmaz S., ÜSTÜNDAĞ A., ÜLKER Ö., DUYDU Y.  
CELL JOURNAL, vol.17, no.4, pp.748-754, 2016 (SCI-Expanded)
- IX. **The fruit extract of Berberis crataegina DC: exerts potent antioxidant activity and protects DNA integrity**  
Charehsaz M., SİPAHİ H., Celep E., ÜSTÜNDAĞ A., ÜLKER Ö., DUYDU Y., AYDIN A., YEŞİLADA E.  
DARU-JOURNAL OF PHARMACEUTICAL SCIENCES, vol.23, 2015 (SCI-Expanded)
- X. **Utilization of the Ex Vivo LLNA: BrdU-ELISA to Distinguish the Sensitizers From Irritants in Respect of 3 End Points-Lymphocyte Proliferation, Ear Swelling, and Cytokine Profiles**  
Arancioglu S., ÜLKER Ö., Karakaya A.  
INTERNATIONAL JOURNAL OF TOXICOLOGY, vol.34, no.1, pp.24-30, 2015 (SCI-Expanded)
- XI. **Allergenicity evaluation of fragrance mix and its ingredients by using *ex vivo* local lymph node assay-BrdU endpoints**  
ÜLKER Ö., Kaymak Y., Karakaya A.  
FOOD AND CHEMICAL TOXICOLOGY, vol.65, pp.162-167, 2014 (SCI-Expanded)
- XII. **Investigation of Allergenicity of Some Cosmetic Mixtures by Using *ex vivo* Local Lymph Node Assay-BrdU Endpoints**  
ÜLKER Ö., Kaymak Y., Karakaya A.  
INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY, vol.164, no.4, pp.301-307, 2014 (SCI-Expanded)
- XIII. **Evaluation of non-radioactive endpoints of *ex vivo* local lymph node assay-BrdU to investigate select contact sensitizers**  
ÜLKER Ö., ATEŞ İ., ATAK YÜCEL A., Karakaya A.  
JOURNAL OF IMMUNOTOXICOLOGY, vol.10, no.1, pp.1-8, 2013 (SCI-Expanded)
- XIV. **Evaluation of auricular lymph node cell lymphocyte proliferation and cytokine production as non-radioactive endpoints during murine contact allergy**  
ÜLKER Ö., ATAK YÜCEL A., ATEŞ İ., Karakaya A.

JOURNAL OF IMMUNOTOXICOLOGY, vol.8, no.2, pp.131-139, 2011 (SCI-Expanded)

- XV. **Correlation of Ochratoxin A Exposure to Urinary Levels of 8-Hydroxydeoxyguanosine and Malondialdehyde in a Turkish Population**  
ATEŞ İ., ÜLKER Ö., Akdemir C., Karakaya A.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.86, no.3, pp.258-262, 2011 (SCI-Expanded)
- XVI. **Estimation of ochratoxin A in some Turkish populations: An analysis in urine as a simple, sensitive and reliable biomarker**  
Akdemir C., ÜLKER Ö., Basaran A., Ozkaya S., Karakaya A.  
FOOD AND CHEMICAL TOXICOLOGY, vol.48, no.3, pp.877-882, 2010 (SCI-Expanded)
- XVII. **Serum and BAL cytokine and antioxidant enzyme levels at different stages of pneumoconiosis in coal workers**  
Ulker Ö., Yucesoy B., Demir O., Tekin I. O., Karakaya A.  
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.27, no.12, pp.871-877, 2008 (SCI-Expanded)
- XVIII. **Cytogenetic monitoring of coal workers and patients with coal workers' pneumoconiosis in Turkey**  
ÜLKER Ö., ÜSTÜNDAĞ A., DUYDU Y., Yucesoy B., Karakaya A.  
ENVIRONMENTAL AND MOLECULAR MUTAGENESIS, vol.49, no.3, pp.232-237, 2008 (SCI-Expanded)
- XIX. **Neopterin as a marker for immune system activation in coal workers' pneumoconiosis**  
Ulker Ö., Yucesoy B., Durucu M., Karakaya A.  
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.23, no.3, pp.155-160, 2007 (SCI-Expanded)
- XX. **Possible genotoxic risk in coal workers' pneumoconiosis**  
ÜLKER Ö., Ustundag A., Duydu Y., Yucesoy B., Karakaya A.  
TOXICOLOGY LETTERS, vol.164, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **ORAL COLLAGEN SUPPLEMENTS AND DETERMINATION OF THEIR POSSIBLE ADVERSE EFFECTS**  
ÖZSOY S., ÜLKER Ö. C., ÜSTÜNDAĞ A.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.48, no.3, pp.1180-1188, 2024 (Scopus)
- II. **KİMYASALLARIN OLUŞTURDUĞU ALERJİK TEMAS DERMATİT POTANSİYELİNİN DOĞRUDAN PEPTİT REAKTİVİTE YÖNTEMİ İLE DEĞERLENDİRİLMESİ**  
Ülker Ö., Gökbulut A., Coşkun N., Kavas P.  
ANKARA UNIVERSİTESİ ECZACILIK FAKULTESİ DERGİSİ, vol.47, no.3, pp.967-977, 2023 (Scopus)
- III. **Editorial: Is it time to stick it to PFAS?**  
ÜLKER Ö., Banerjee P.  
Frontiers in Toxicology, vol.5, 2023 (ESCI)
- IV. **Farmakovijilans Sistemi ve Eczacının Rolü**  
ÜLKER Ö., ESEN B.  
Literatür Eczacılık Bilimleri Dergisi, 2021 (Peer-Reviewed Journal)
- V. **Pharmacokinetic evaluation of drug-drug interactions in the treatment of COVID-19 COVID-19 tedavisinde ilaç-ilaç etkileşimlerinin farmakokinetik açıdan değerlendirilmesi**  
Coşkun N., CemiLoğlu Ülker Ö.  
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.45, no.2, pp.443-456, 2021 (Scopus)
- VI. **3R Kuramına Göre Güncel Deri Duyarlılığı Testleri**  
ÜLKER Ö., ESEN B.  
Literatür Eczacılık Bilimleri Dergisi, 2020 (Peer-Reviewed Journal)
- VII. **Kronik akciğer hastalıkları ve sitokinler**  
ÜLKER Ö., YÜCESOY B.  
Sendrom, vol.15, no.10, pp.95-101, 2003 (Peer-Reviewed Journal)

## Books & Book Chapters

### I. Radyasyon ve radyoaktif materyallerin toksik etkileri

DEMİR BÜĞEN M., ÜSTÜNDAĞ A., ÜLKER Ö., UÇKUN Z., YILMAZ SARIALTIN S.

in: Casarett and Doull's Toksikolojinin Temelleri, Sinan Süzen, Ahmet Oğuz Ada, Bulut Demirel, Onur Erdem, Gonca Çakmak Demircigil, Pınar Erkekoğlu, Editor, Nobel Tıp Kitabevi, Ankara, pp.373-380, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the mutagenicity of the TiO<sub>2</sub> nanoparticles by modified Ames II assay**  
ÜSTÜNDAĞ A., ÜLKER Ö., teker e., DUYDU Y., KARAKAYA M. A.  
2nd International Gazi Pharma Symposium Series (GPSS-2017), 11 - 13 October 2017
- II. **Investigation of the mutagenetic effects of metal oxide nanoparticles**  
ÜLKER Ö., teker e., ÜSTÜNDAĞ A., DUYDU Y., KARAKAYA M. A.  
52nd Congress of the European Societies of Toxicology (EUROTOX), 4 - 07 September 2016
- III. **In vitro cytotoxicity and genotoxicity einvestigation of differently sized TiO<sub>2</sub> nanoparticles**  
ÜLKER Ö., ÜSTÜNDAĞ A., DUYDU Y., YALÇIN C. Ö., KARAKAYA M. A.  
52nd Congress of the European Societies of Toxicology (EUROTOX), 4 - 07 September 2016
- IV. **3D models and omics approaches to study developmental neurotoxicity**  
Hogberg H. T., Bouhifd M., ÜLKER Ö., da Silveira e Sa R. d. C., Harris G., Kleensang A., Maertens A., Pamies D., Smirnova L., Zhao L., et al.  
52nd Congress of the European-Societies-of-Toxicology (EUROTOX), Sevilla, Spain, 4 - 07 September 2016, vol.258
- V. **In vitro cytotoxicity and genotoxicity studies of titanium dioxide TiO<sub>2</sub> nanoparticles**  
KARAKAYA M. A., ÜLKER Ö., ÜSTÜNDAĞ A., YALÇIN C. Ö., DUYDU Y.  
55th Annual Meeting and ToxExpo, SOT (Society of Toxicology), 13 - 17 March 2016
- VI. **Comparison of TiO<sub>2</sub> nanoparticles genotoxicity in two different cell lines by using Comet assay**  
ÜLKER Ö., ÜSTÜNDAĞ A., YALÇIN C. Ö., DUYDU Y., KARAKAYA M. A.  
9th Congress of Toxicology in Developing Countries (9CTDC), 7 - 10 November 2015
- VII. **Investigation of the genotoxic effects of TiO<sub>2</sub> nanoparticles by using Ames test**  
ÜLKER Ö., ÜSTÜNDAĞ A., teker e., DUYDU Y., KARAKAYA M. A.  
TURKHELTOX Toxicology Congress, 9th Congress of the Turkish Society of Toxicology with the participation of the Hellenic Society of Toxicology, 21 - 24 October 2015
- VIII. **Comparison of TiO<sub>2</sub> nanoparticles genotoxicity in two differrent cell lines by using Comet Assay**  
KARAKAYA M. A., ÜLKER Ö., ÜSTÜNDAĞ A., YALÇIN C. Ö., DUYDU Y.  
TURKHELTOX Toxicology Congress, 9th Congress of the Turkish Society of Toxicology with the participation of the Hellenic Society of Toxicology, 21 - 24 October 2015
- IX. **Investigation of the TiO<sub>2</sub> solid nanoparticles safety for human health by using in vitro tests**  
YALÇIN C. Ö., ÜSTÜNDAĞ A., ÜLKER Ö., DUYDU Y., KARAKAYA M. A.  
11th International Symposium on Pharmaceutical Sciences (ISOPS), 9 - 12 June 2015
- X. **Investigation of Antioxidant Activity of Boric Acid in V79 Cell Cultures**  
YILMAZ S., ÜSTÜNDAĞ A., ÜLKER Ö., DUYDU Y.  
50th Congress of the European Societies of Toxicology (EUROTOX), Edinburgh, Saint Helena, 7 - 10 September 2014
- XI. **Investigation of antioxidant activity of boric acid in V79 cell cultures**  
Yilmaz S., ÜSTÜNDAĞ A., ÜLKER Ö., DUYDU Y.  
50th Congress of the European-Societies-of-Toxicology, Edinburgh, Saint Helena, 7 - 10 September 2014, vol.229
- XII. **Borik Asitin Oksidatif DNA Hasarı Üzerindeki Koruyucu Etkisinin Hücre Kültüründe Araştırılması**  
YILMAZ S., ÜSTÜNDAĞ A., ÜLKER Ö., DUYDU Y.  
Türk Toksikoloji Derneği III. Bölgesel Toksikoloji Sempozyumu, İzmir, Turkey, 12 - 14 June 2014
- XIII. **Investigation of sensitizing potency of some cosmetic mixtures**

ÜLKER Ö., ATEŞ İ., ATAK YÜCEL A., Karakaya A.

48th Congress of the European-Societies-of-Toxicology (EUROTOX), Stockholm, Sweden, 17 - 20 June 2012, vol.211

**XIV. Evaluation of alternative endpoints for non-radioactive local lymph node assay by using two strong sensitizers**

ÜLKER Ö., Karakaya A.

46th Congress of the European-Societies-of-Toxicology, Dresden, Germany, 13 - 16 September 2009, vol.189

**XV. Relationship of inflammatory cytokines with disease severity in CWP patients**

Karakaya A., ÜLKER Ö., Yucesoy B., Demir O., TEKİN İ. Ö.

45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180

**XVI. Evaluation of antioxidant enzyme levels as biological markers at different stages of pneumoconiosis in coal workers**

ÜLKER Ö., Yucesoy B., Demir O., TEKİN İ. Ö., Karakaya A.

45th Congress of the European-Societies-of-Toxicology, Rhodes, Greece, 5 - 08 October 2008, vol.180

## Supported Projects

ÜLKER Ö., Project Supported by Higher Education Institutions, Deri Duyarlandırması Testi Olan Direkt Peptit Reaktivite Yöntemi (Direct Peptide Reactivity Assay-DPRA) ile Bazı Kimyasal Maddelerin Duyarlandırma Potansiyellerinin Değerlendirilmesi, 2019 - Continues

DUYDU Y., ÜLKER Ö., ÜSTÜNDAĞ A., TUBITAK Project, Kozmetik Formülasyonlarında Kullanılan TiO<sub>2</sub> Katı Nanopartiküllerin İnsan Sağlığı için Güvenliğinin in vitro Testlerle Araştırılması, 2013 - 2016

## Metrics

Publication: 44

Citation (WoS): 229

Citation (Scopus): 254

H-Index (WoS): 10

H-Index (Scopus): 10