

## Assoc. Prof. BURCU YÜKSEL

### Personal Information

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### International Researcher IDs

ScholarID: G-2460-2018

ORCID: 0000-0001-8691-6447

Publons / Web Of Science ResearcherID: G-2460-2018

Yoksis Researcher ID: 107612

### Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), Turkey 2014 - 2017

Postgraduate, Dumlupınar Üniversitesi, Turkey 2008 - 2010

Undergraduate, Ege University, Faculty Of Science, Biyokimya Bölümü, Turkey 2003 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Cytotoxic, biochemical and genotoxic effects of coumarin on lentil plant (*Lens culinaris Medik.*), Kocaeli University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, 2017

Postgraduate, Yeni proton transfer bileşiklerinin antiglokom aktivitesinin incelenmesi, 2010

### Research Areas

Life Sciences, Biochemistry, Biomolecules, Bioinformatics, Molecular Biology and Genetics, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Kocaeli University, Kocaeli Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2022 - Continues

Lecturer PhD, Kocaeli University, Kocaeli Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler, 2011 - Continues

Lecturer, Bilecik Seyh Edebali University, Pazaryeri Vocational School, Department Of Health Programs, 2010 - 2011

## Academic and Administrative Experience

Kocaeli Üniversitesi, Kocaeli Sağlık Hizmetleri Meslek Yüksekokulu, 2013 - Continues  
Deputy Head of Department, Kocaeli University, Sağlık Programları Bölümü, 2014 - 2020  
Kocaeli Üniversitesi, Kocaeli Sağlık Hizmetleri Meslek Yüksekokulu, 2012 - 2019

## Courses

Introduction to Endocrinology, Undergraduate, 2020 - 2021  
Medical Laboratory Applications-II, Associate Degree, 2019 - 2020  
HISTOLOGY LABORATORY, Undergraduate, 2019 - 2020  
SAĞLIKLI YAŞAM VE BESLENME, Associate Degree, 2019 - 2020  
HISTOLOGY, Undergraduate, 2019 - 2020  
FİZYOLOJİ, Associate Degree, 2018 - 2019  
HEMATOLOJİ, Associate Degree, 2018 - 2019  
KLİNİK BİYOKİMYA, Associate Degree, 2018 - 2019  
TIBBİ TERMİNOLOJİ, Associate Degree, 2016 - 2017

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

- I. **Assessing in vitro anti-cancer efficacy of sulfonated water-soluble phthalocyanine on breast and prostate cancer cells**  
Deveci A., Betts Z., Yüksel B., Alimudin, J., Aydın D., Güzel E.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.1, pp.1-11, 2023 (SCI-Expanded)
- II. **Investigation of the combined cytotoxicity induced by sodium butyrate and a flavonoid quercetin treatment on MCF-7 breast cancer cells**  
BETTS Z., Deveci Ozkan A., YÜKSEL B., Alimudin J., AYDIN D., AKSOY Ö., Yanar S.  
Journal of Toxicology and Environmental Health - Part A: Current Issues, vol.86, no.22, pp.833-845, 2023 (SCI-Expanded)
- III. **Lessening the toxic effect of the methylisothiazolinone via vermicompost tea on Pisum sativum**  
AYDIN D., YÜKSEL B.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.33, pp.50443-50453, 2022 (SCI-Expanded)
- IV. **Anticancer Properties of Eisenia Foetida Proteins in Prostate Cancer Cells In Vitro**  
Ozkan A. D., Eskiler G. G., SARIHAN M., Kazan N., AKSOY Ö., YÜKSEL B., BETTS Z.  
International Journal of Peptide Research and Therapeutics, vol.28, no.4, 2022 (SCI-Expanded)
- V. **The impact of Vermicompost on Pisum sativum spp. Arvence L exposed to methylisothiazolinone**  
Yüksel B., Aydın D., Aksoy Ö.  
BIOLOGIA, vol.77, no.4, pp.1109-1119, 2022 (SCI-Expanded)
- VI. **Evaluation of the antioxidative and genotoxic effects of sodium butyrate on breast cancer cells**  
Yüksel B., Deveci Ozkan A., Aydın D., Betts Z.  
Saudi Journal of Biological Sciences, vol.29, pp.1394-1401, 2022 (SCI-Expanded)
- VII. **Determination of cytogenetic abnormalities in buccal mucosa of dental laboratory technicians**  
YÜKSEL B., ARSAL YILDIRIM S.  
ARCHIVES OF ENVIRONMENTAL & OCCUPATIONAL HEALTH, vol.77, no.2, pp.165-172, 2022 (SCI-Expanded)
- VIII. **The growing importance of cytogenetic biomonitoring studies in buccal mucosa of dental laboratory technicians RESPONSE**  
YÜKSEL B., Yildirim S. A.  
ARCHIVES OF ENVIRONMENTAL & OCCUPATIONAL HEALTH, vol.77, no.2, pp.175-176, 2022 (SCI-Expanded)
- IX. **Erythrocyte morphology and fatigue levels in podologists**  
YÜKSEL B., ARSAL YILDIRIM S., POLAT F.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH, vol.33, no.12, pp.1305-1315, 2022 (SCI-

Expanded)

- X. **In vitro chemo-protective effect of Eisenia foetida coelomic fluid against histone deacetylase inhibitor-induced oxidative toxicity in breast cancer cells**  
Ozkan A. D., Alimudin J., Kilciler Y., YÜKSEL B., AKSOY Ö., BETTS Z.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH, vol.33, no.12, pp.1728-1737, 2022 (SCI-Expanded)
- XI. **The healing effect of liquid vermicompost against Kathon CG application in Pisum sativum spp. arvence**  
Aksoy Ö., Aydın D., Yüksel B.  
ACTA PHYSIOLOGIAE PLANTARUM, vol.44, no.1, 2022 (SCI-Expanded)
- XII. **Molecular and Spectroscopic Evaluation of the Effects of Coumarin on Lentil**  
YÜKSEL B., AKSOY Ö., KUTLUK T.  
Cytology and genetics, vol.55, pp.274-282, 2021 (SCI-Expanded)
- XIII. **Investigation of morphological abnormalities in red blood cells among dental laboratory technicians**  
YÜKSEL B.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.28, no.16, pp.20650-20658, 2021 (SCI-Expanded)
- XIV. **The cytological and molecular investigation of the toxic effects of the herbicide Roundup on Cucumis sativus**  
YÜKSEL B., AKSOY Ö., Karatas M.  
CARYOLOGIA, vol.74, no.1, pp.3-12, 2021 (SCI-Expanded)
- XV. **Analysis of the effects of coumarin on Lens culinaris Medik by some biochemical parameters using real-time polymerase chain reaction**  
YÜKSEL B., AKSOY Ö.  
LEGUME RESEARCH, vol.42, no.5, pp.640-645, 2019 (SCI-Expanded)
- XVI. **CYTOLOGICAL EFFECTS OF COUMARIN ON THE MITOSIS OF LENS CULINARIS MEDIK**  
YÜKSEL B., AKSOY Ö.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.11, pp.6400-6407, 2017 (SCI-Expanded)
- XVII. **Synthesis and characterisation of two novel proton transfer compounds and their inhibition studies on carbonic anhydrase isoenzymes**  
YENİKAYA C., SARI M., BÜLBÜL M., İLKİMEN H., ÇINAR B., BÜYÜKGÜNGÖR O.  
Journal Of Enzyme Inhibition And Medicinal Chemistry, vol.26, no.1, pp.104-114, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Evaluation of the foot health with baropodometric analysis of acromegaly patients followed after pituitary surgery**  
Karatoprak A. P., AYDIN L., YÜKSEL B., Demirhan Y., BAYDEMİR C., SELEK A., CANTÜRK Z., ARSLAN B.  
Bangladesh Journal of Medical Science, vol.23, no.3, pp.698-705, 2024 (ESCI)
- II. **A systematic review of antiproliferative and antitumour activity of earthworm extracts**  
YÜKSEL B., Ozkan A.  
TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, vol.25, no.1, pp.111-120, 2024 (ESCI)
- III. **Evaluation of Blood Sugar, Blood Pressure and Foot Health in Individuals Not Diagnosed with Diabetes, Hypertension**  
Peker A., DEMİRHAN Y., SELEK A., ÇETİNARSLAN B., cantürk z., tarkun ı., YÜKSEL B., AYDIN L., BAYDEMİR C.  
Kocaeli Üniversitesi Sağlık Bilimleri Dergisi, vol.9, no.2, pp.111-119, 2023 (Peer-Reviewed Journal)
- IV. **Association of DRD2 Gene C957T Polymorphism with Stuttering in Turkish Population**  
Polat F., Aydın Uysal A., Yüksel B.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.1, pp.125-132, 2022 (Peer-Reviewed Journal)
- V. **POLY I:C-INDUCED TLR3 ACTIVATION ON OXIDATIVE STRESS LEVELS IN PC-3(HORMONE-INSENSITIVE) AND LNCAP (HORMONE-SENSITIVE) AS PROSTATE CANCER CELLS**

Deveci Özkan A., Yüksel B.

Kocaeli Üniversitesi Sağlık Bilimleri Dergisi, vol.8, no.1, pp.18-24, 2022 (Peer-Reviewed Journal)

VI. **Analysis of L-1Ra and IL-4 Gene VNTRs Polymorphisms among Dental Laboratory Technicians: A Genotype\2013Phenotype Study**

Yüksel B., Arsal Yıldırım S.

İnönü üniversitesi Sağlık Hizmetleri Meslek Yüksek Okulu Dergisi, vol.9, no.3, pp.831-845, 2021 (Peer-Reviewed Journal)

VII. **The Role of Citrus Nobiletin on Oxidative Stress Levels and Superoxide Dismutase Activities in Metastatic Castration-Resistant Prostate Cancer**

YÜKSEL B., DEVECİ ÖZKAN A.

Commagene Journal of Biology, vol.5, no.1, pp.84-89, 2021 (Scopus)

VIII. **Investigation of Neuregulin-1 Gen rs6994992 Polymorphism in Gifted Students in Turkish Population**

POLAT F., Bayram T. B., YÜKSEL B.

Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.6, pp.1337-1343, 2020 (Peer-Reviewed Journal)

IX. **Su Stresi Koşullarında Bitkilerde Gözlenen Değişimler**

YÜKSEL B., AKSOY Ö.

Turkish Journal of Scientific Reviews, vol.10, no.2, pp.1-5, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Diversity in legume genetic resources for adaptation to climate stress**  
Yüksel B., Aksoy Ö.  
in: Climate Change and Legumes Stress Mitigation for Sustainability and Food Security, CRC Press, Mohammad Zabed Hossain, Hossain Md Anawar, D.R. Chaudhary, Editor, CRC, New York, London, pp.41-55, 2023
- II. **Impact of High Temperature Stress and its Alleviation in Fabaceae**  
Yüksel B., Vardar F.  
in: Climate Change and Legumes Stress Mitigation for Sustainability and Food Security, Mohammad Zabed Hossain, Hossain Md Anawar, D.R. Chaudhary, Editor, CRC, New York, London, pp.126-150, 2023
- III. **Diversity in legume genetic resources for adaptation to climate stress**  
YÜKSEL B., AKSOY Ö.  
in: Climate Change and Legumes Stress Mitigation for Sustainability and Food Security, Mohammad Zabed Hossain, Hossain Md Anawar, D.R. Chaudhary, Editor, CRC Press is an imprint of Taylor & Francis Group, London, pp.41-55, 2023
- IV. **Impact of High Temperature Stress and its Alleviation in Fabaceae**  
YÜKSEL B., VARDAR F.  
in: Climate Change and Legumes Stress Mitigation for Sustainability and Food Security, Mohammad Zabed Hossain, Hossain Md Anawar, D.R. Chaudhary, Editor, CRC Press is an imprint of Taylor & Francis Group, London, pp.126-155, 2023
- V. **A Review of Studies on the Application of Coumarin and its Derivatives in Plants**  
YÜKSEL B.  
in: Advances in Health and Natural Sciences, YÜKSEL BURCU, KARAGÜL SENCER MUSTAFA, Editor, Nova Science Publishers, New-York, pp.97-114, 2018
- VI. **MUTAGENIC POTENTIAL OF THE INSECTICIDE ARRIVO 25 EC ON MITOSIS AND MEIOSIS OF HYACINTHUS ORIENTALIS**  
AKSOY Ö., HOROZAL A., YÜKSEL B.  
in: ADVANCES IN HEALTH AND NATURAL SCIENCES, YÜKSEL BURCU, KARAGÜL MUSTAFA SENCER, Editor, NOVA SCIENCE PUBLISHERS, New-York, pp.139-154, 2018
- VII. **Healthy Life and Nutrition**  
YÜKSEL B.

in: Developments in Health Sciences, OZDEMİR Bulent, SHAPEKOVA Nelya L. , AK Bilal, YILDIZ Hicran, OZCANARSLAN Fugen , IVANOVA Lyudmila, Editor, ST. KLIMENT OHRIDSKI UNIVERSITY PRESS, Sofya, pp.473-478, 2017

## Supported Projects

YÜKSEL B., DİKİLİTAŞ S., Project Supported by Higher Education Institutions, Bir turunçgil flavaonoidi olan nobiletinin SOD enzim aktivitesi ve bazı oksidatif stres parametreler üzerine etkisinin kastrasyon dirençli metastatik prostat kanseri hücrelerinde incelenmesi, 2021 - 2023

AKSOY Ö., AYDIN D., YÜKSEL B., Project Supported by Higher Education Institutions, PİSUM SATIVUM'DA BAZI İSOTHIAZOLİNONE BİLEŞİKLERİNİN HÜCRE ÖLÜMÜ ÜZERİNDEKİ ETKİLERİNİ AZALTMAK İÇİN VERMİKOMPOST KULLANIMI, 2019 - 2021

AKSOY Ö., YÜKSEL B., Project Supported by Higher Education Institutions, KUMARİNİN MERCİMEK BİTKİSİ (LENSCULİNARİS MEDİK) ÜZERİNDEKİ MOLEKÜLER VE BİYOKİMYASAL ETKİLERİNİN ARAŞTIRILMASI, 2016 - 2018

## Metrics

Publication: 54

Citation (WoS): 52

Citation (Scopus): 43

H-Index (WoS): 5

H-Index (Scopus): 4

## Awards

YÜKSEL B., Genç araştırmacı ödülü, Uluslararası akademik ve uygulamalı bilimler kongresi, October 2018