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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: L-6687-2018

Yoksis Researcher ID: 269416

Education Information

Doctorate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Biology, Turkey 2013 - 2017

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Biology, Turkey 2011 - 2013

Undergraduate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Biyoloji, Turkey 2006 - 2010

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Investigating the dynamics between histone modifications and cell death in breast cancer stem cells, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Biology, 2017

Postgraduate, Bursa Uludağ University, Fen Bilimleri Enstitüsü, Biology, 2013

Research Areas

Life Sciences, Molecular Biology and Genetics, Molecular Biology of Cancer, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Biyoloji Bölümü, 2022 - Continues

Assistant Professor, Istinye University, Faculty Of Arts And Sciences, Department Of Molecular Biology And Genetics, 2017 - 2022

Academic and Administrative Experience

Assistant Director of the Institute, Istinye University, Institute Of Health Sciences, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Combination of Histone Deacetylase Inhibitor with Cu(II) 5,5-diethylbarbiturate Complex Induces Apoptosis in Breast Cancer Stem Cells: A Promising Novel Approach**
Erkisa M., Aztopal N., ERTÜRK E., Ulukaya E., Yilmaz V. T., ARI F.
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.21, no.14, pp.1850-1860, 2021 (SCI-Expanded)
- II. **A promising therapeutic combination for metastatic prostate cancer: Chloroquine as autophagy inhibitor and palladium(II) barbiturate complex**
Erkisa M., Aydinlik S., Cevatemre B., Aztopal N., Akar R. O., ÇELİKLER KASIMOĞULLARI S., Yilmaz V. T., ARI F., Ulukaya E.
BIOCHIMIE, vol.175, pp.159-172, 2020 (SCI-Expanded)
- III. **Toxicity assessment of Hypericum olympicum subsp. olympicum L. on human lymphocytes and breast cancer cell lines**
Balıkcı N., SARIMAHMUT M., ARI F., Aztopal N., Ozel M. Z., Ulukaya E., ÇELİKLER KASIMOĞULLARI S.
JOURNAL OF APPLIED BIOMEDICINE, vol.18, no.1, pp.18-25, 2020 (SCI-Expanded)
- IV. **Paclitaxel resistance and the role of miRNAs in prostate cancer cell lines**
ŞAMLI H., Samli M., Vatansever B., ARDIÇLI S., Aztopal N., DİNÇEL D., ŞAHİN A., Balci F.
WORLD JOURNAL OF UROLOGY, vol.37, no.6, pp.1117-1126, 2019 (SCI-Expanded)
- V. **Key actors in cancer therapy: epigenetic modifiers**
Akar R. O., Selvi S., Ulukaya E., Aztopal N.
TURKISH JOURNAL OF BIOLOGY, vol.43, no.3, pp.155-170, 2019 (SCI-Expanded)
- VI. **A promising natural product, pristimerin, results in cytotoxicity against breast cancer stem cells in vitro and xenografts in vivo through apoptosis and an incomplete autophagy in breast cancer**
Cevatemre B., Erkisa M., Aztopal N., Karakas D., Alper P., Tsimploulis C., Sereti E., Dimas K., ARMUTAK E. İ., GÜREL GÜREVİN E., et al.
PHARMACOLOGICAL RESEARCH, vol.129, pp.500-514, 2018 (SCI-Expanded)
- VII. **Valproic acid, a histone deacetylase inhibitor, induces apoptosis in breast cancer stem cells**
Aztopal N., Erkisa M., ERTÜRK E., Ulukaya E., Tokullugil A. H., ARI F.
CHEMICO-BIOLOGICAL INTERACTIONS, vol.280, pp.51-58, 2018 (SCI-Expanded)
- VIII. **A trans-platinum(II) complex induces apoptosis in cancer stem cells of breast cancer**
Aztopal N., Karakas D., Cevatemre B., ARI F., Içsel C., Daidone M. G., Ulukaya E.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.25, no.1, pp.269-276, 2017 (SCI-Expanded)
- IX. **Antigrowth and Apoptosis Inducing Effects of Hypericum Olympicum L. and Hypericum Adenotrichum Spach. on Lung Cancer Cells In Vitro: Involvement of DNA Damage**
Aztopal N., Erkisa M., ÇELİKLER KASIMOĞULLARI S., Ulukaya E., ARI F.
JOURNAL OF FOOD BIOCHEMISTRY, vol.40, no.4, pp.559-566, 2016 (SCI-Expanded)
- X. **Pelargonium quercetorum Agnew induces apoptosis without PARP or cytokeratin 18 cleavage in non-small cell lung cancer cell lines**
Aztopal N., Cevatemre B., SARIMAHMUT M., ARI F., DERE E., Ozel M. Z., Fırat M., Ulukaya E.
ONCOLOGY LETTERS, vol.12, no.2, pp.1429-1437, 2016 (SCI-Expanded)
- XI. **Ni(II)/Cu(II)/Zn(II) 5,5-diethylbarbiturate complexes with 1,10-phenanthroline and 2,2'-dipyridylamine: synthesis, structures, DNA/BSA binding, nuclease activity, molecular docking, cellular uptake, cytotoxicity and the mode of cell death**
Yilmaz V. T., Içsel C., Suyunova F., AYGÜN M., Aztopal N., Ulukaya E.
DALTON TRANSACTIONS, vol.45, no.25, pp.10466-10479, 2016 (SCI-Expanded)
- XII. **Addition of niclosamide to palladium(II) saccharinate complex of terpyridine results in enhanced cytotoxic activity inducing apoptosis on cancer stem cells of breast cancer**
Karakas D., Cevatemre B., Aztopal N., ARI F., Yilmaz V. T., Ulukaya E.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.23, no.17, pp.5580-5586, 2015 (SCI-Expanded)
- XIII. **Parmelia sulcata Taylor and Usnea filipendula Stirt induce apoptosis-like cell death and DNA damage in cancer cells**
ARI F., Aztopal N., ORAN S., Bozdemir S., Celikler S., ÖZTÜRK Ş., Ulukaya E.

CELL PROLIFERATION, vol.47, no.5, pp.457-464, 2014 (SCI-Expanded)

- XIV. **Apoptosis-inducing effect of a palladium(II) saccharinate complex of terpyridine on human breast cancer cells in vitro and in vivo**

ARI F., Cevatemre B., ARMUTAK E. İ., Aztopal N., Yilmaz V. T., Ulukaya E.

BIOORGANIC & MEDICINAL CHEMISTRY, vol.22, no.17, pp.4948-4954, 2014 (SCI-Expanded)

- XV. **Genotoxic, cytotoxic, and apoptotic effects of crude extract of Usnea filipendula Stirt. in vitro**

ÇELİKLER KASIMOĞULLARI S., ORAN S., ARI F., Ulukaya E., Aztopal N., SARIMAHMUT M., ÖZTÜRK Ş.

TURKISH JOURNAL OF BIOLOGY, vol.38, no.6, pp.940-947, 2014 (SCI-Expanded)

- XVI. **Synthesis, structural characterization and cell death-inducing effect of novel palladium(II) and platinum(II) saccharinate complexes with 2-(hydroxymethyl)pyridine and 2-(2-hydroxyethyl)pyridine on cancer cells in vitro**

ARI F., Aztopal N., Içsel C., Yilmaz V. T., Guney E., Buyukgungor O., Ulukaya E.

BIOORGANIC & MEDICINAL CHEMISTRY, vol.21, no.21, pp.6427-6434, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of Aspartame on Acetylcholinesterase Activity in Different Rat Tissues.**

POLAT F., DERE E., ARI F., TURAÇLAR N., BİNGÖL G., AZTOPAL N.

Hacettepe Journal of Biology and Chemistry, vol.45, no.3, pp.321-327, 2017 (Peer-Reviewed Journal)

- II. **Nonapoptotic cell death induced by Hypericum species on cancer cells**

ARI F., AZTOPAL N., erkisa m., ÇELİKLER KASIMOĞULLARI S., ŞAHİN S., ULUKAYA E.

The European Research Journal, vol.3, no.1, pp.1-10, 2017 (Peer-Reviewed Journal)

- III. **The Effect of Aspartame on the Activity of Glutathione S Transferase in Tissues of Brain Liver Kidney And Lung of Rats**

TURAÇLAR N., POLAT F., DERE E., BİNGÖL G., ARI F., AZTOPAL N.

International Invention Journal of Medicine and Medical Sciences, vol.3, no.7, pp.130-135, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Hücre Kültüründe İlaç Yanıtının Değerlendirilmesi**

Aztopal N., Ulukaya E.

in: Moleküler Biyoloji Güncel Araştırma Teknikleri, Dr Öğr Ü Sinem Fırtına, Editor, EMA, Ankara, pp.171-199, 2022

- II. **Kanser Kök Hücre**

Cevatemre B., Aztopal N., Ulukaya E.

in: Kanser Moleküler Biyolojisi, Prof Dr Yusuf Baran, Editor, Kısayol, Ankara, pp.209-223, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Exosome-mediated communication between pancreatic cancer cells and Schwann cells promotes aggressiveness of pancreatic cancer**

Karakaş Zeybek D., Aztopal N., Erkisa M., Özpolat B., Ceyhan G. O., Ulukaya E.

55th Annual Meeting of the European Pancreatic Club , Kufstein, Austria, 28 June - 01 July 2023, pp.149

- II. **Combination Therapy with Valproic Acid and Cu (II)- Barbiturate Complex Induces ROS-Mediated Apoptosis in Breast Cancer Stem Cell**

ERKISA M., AZTOPAL N., ERTÜRK E., ULUKAYA E., ARI F.

7. Multidisipliner Kanser Araştırma 1. Temel Onkoloji Kongresi, İzmir, Turkey, 11 - 14 October 2018

- III. **Paklitaksel tedavisinin meme kanseri kanser kök hücrelerinde miRNA ekspresyon profiline etkisi**

ERTÜRK E., AKGÜN O., ERKISA M., AZTOPAL N., ULUKAYA E., ZEYBEK Ş. Ü., KÜÇÜKALİ C. İ., ARI F.

7. MULTİDİSİPLİNER KANSER ARAŞTIRMA 1. TEMEL ONKOLOJİ KONGRESİ, İzmir, Turkey, 11 - 14 October 2018

IV. **TARGETING BREAST CANCER STEM CELLS VIA DUAL INHIBITION OF WNT SIGNALING AND HISTONE DEACETYLATION**

AZTOPAL N., ERKISA M., ARI F., DERE E., ULUKAYA E.

TBS INTERNATIONAL BIOCHEMISTRY CONGRESS 2018 29TH NATIONAL BIOCHEMISTRY CONGRESS, 26 - 30 October 2018

V. **Dual inhibition of Wnt/beta-catenin signaling and histone deacetylation as a new strategy to eliminate breast cancer stem cells by augmentation of apoptosis**

AZTOPAL N., Merve E., ARI F., DERE E., ULUKAYA E.

FEBS OPEN BIO, 4 - 12 July 2018, vol.8, pp.301

VI. **SYNTHESIS, CHARACTERIZATION AND PHARMACOLOGICAL STUDIES OF SOME NEW MANNICH BASES DERIVED FROM 1,2,4-TRIAZOLES**

Avcı A., Taşçı H., GÖKHAN KELEKÇİ N., AZTOPAL N., ULUKAYA E., TOZKOPARAN B.

ISOPS-12th International Symposium on Pharmaceutical Sciences, 26 - 29 June 2018

VII. **Pristimerin'in Meme Kanseri Hücreleri Üzerine in vitro ve in vivo Sitotoksik Etkisi**

CEVATEMRE B., Erkisa M., AZTOPAL N., KARAKAŞ D., Pınar A., Tsimplouli C., Sereti E., Dimas K., Armutak E. I. I., Gurevin E. G., et al.

XV. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, Turkey, 26 - 29 October 2017

VIII. **Prostat kanserinde palladyum (II) kompleksi ve microRNA ekspresyonu**

ŞAMLI H., VATANSEVER B., ŞAMLI M., AZTOPAL N., YILMAZ V. T., DİNÇEL D.

XV. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, Fethiye, Turkey, 26 - 29 October 2017, vol.1, pp.106

IX. **Trans-dichloridoplatinum (II) complex induces apoptosis in cancer stem-cell enriched mammospheres**

AZTOPAL N., KARAKAŞ D., ARI F., İÇSEL C., ULUKAYA E.

FEBS JOURNAL, Kusadasi, 3 - 08 September 2016, vol.283, pp.301-302

X. **PALLADIUM (II)-SACCHARINATE COMPLEX OF TERPYRIDINE SEEMS TO BE A PROMISING NOVEL COMPOUND FOR THE TREATMENT OF LUNG CANCER IN VITRO**

ULUKAYA E., KARAKAŞ D., ARI F., AZTOPAL N., AÇILAN AYHAN C., YILMAZ V. T.

RESPIROLOGY, 13 - 16 November 2014, vol.19, pp.37

XI. **Breast cancer stem cells are more resistant than parental cells to a novel palladium (II) saccharinate complex**

KARAKAŞ D., AZTOPAL N., Cevatemre B., ARI F., YILMAZTEPE ORAL A., YILMAZ V. T., ULUKAYA E.

EUROPEAN JOURNAL OF CANCER, 5 - 08 July 2014, vol.50, pp.74-75

XII. **Apoptosis-inducing effect of Usnea filipendula Stirt. in breast cancer cells in vitro**

SARIMAHMUT M., ÇELİKLER KASIMOĞULLARI S., ARI F., ORAN S., AZTOPAL N., ÖZTÜRK Ş., ULUKAYA E.

EUROPEAN JOURNAL OF CANCER, 5 - 08 July 2014, vol.50, pp.60

Supported Projects

Aztopal N., TUBITAK Project, Investigation of the crosstalk between m6A mRNA modification and natural killer cell response in lung cancer cells, 2022 - 2025

Aztopal N., TUBITAK Project, Investigation of the crosstalk between m6A mRNA modification and acquired resistance to Osimertinib in lung cancer, 2022 - 2024

Aztopal N., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Akciğer Kanseri Tedavisinde Alternatif "drug repurposing" Modellerinin ex vivo Araştırılması, 2022 - 2023

Aztopal N., Karakaş Zeybek D., TUBITAK Project, Pankreatik Kanseri Hücreleri ile Nöral Hücreler Arasındaki Eksozomal Mikrorna Aracılı İletişimin Pankreatik Kanserin Agresif Karakteri Üzerine Etkilerinin İncelenmesi, 2018 - 2022

Aztopal N., TUBITAK Project, Akciğer kanseri kök hücrelerinde Naked ifadesinin düzenlenmesinde histon modifikasyonlarının rolünün araştırılması, 2018 - 2020

Ulukaya E., TÜBİTAK - AB COST Project, Uludağ Üniversitesince Sentez Edilen Palladium (II) Kompleksinin Ve Kök Hücre Yolak İnhibitörleri İle Kombinasyonlarının Meme Kanseri Kanseri Kök Hücreleri Üzerindeki Sitotoksik / Genotoksik Etkilerinin Ve Mekanizmanın Gen Ve Protein Düzeyinde Araştırılması, 2013 - 2015

Metrics

Publication: 33

Citation (WoS): 323

Citation (Scopus): 328

H-Index (WoS): 11

H-Index (Scopus): 10