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Publons / Web Of Science ResearcherID: AAG-8288-2021

ScopusID: 44661687400

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Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Biyoloji (Dr), Turkey 2010 - 2016

Postgraduate, Illinois Institute of Technology, Armour College of Engineering, Biological Engineering, United States Of America 2007 - 2008

Undergraduate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, INVESTIGATION of ANTIOXIDATIVE, GENOTOXIC, CYTOTOXIC and APOPTOTIC PROPERTIES of SOME PLANT SPECIES, 2016

Research Areas

Biochemistry, Biotechnology, Molecular Biology and Genetics

Academic Titles / Tasks

Research Assistant PhD, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, BİYOLOJİ, 2018 - Continues

Research Assistant, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, BİYOLOJİ, 2010 - 2016

Courses

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the Dual Role of *Scorzonera pygmaea*: Cytotoxic Activity and Antioxidant Potential**
SARIMAHMUT M.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, 2023 (SCI-Expanded)
- II. **Plants from Northwestern Anatolia Display Selective Cytotoxicity and Induce Mitotic Catastrophe: A Study on Anticancer and Genotoxic Activities**
Sarımahmut M., Çelikler Kasımoğulları S.
CHEMISTRY AND BIODIVERSITY, vol.20, pp.202300460, 2023 (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. **Enhanced cytotoxic activity of doxorubicin through the inhibition of autophagy in triple negative breast cancer cell line**
Aydinlik S., Erkisa M., Cevatemre B., SARIMAHMUT M., DERE E., ARI F., Ulukaya E.
BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS, vol.1861, no.2, pp.49-57, 2017 (SCI-Expanded)
- V. **Combination of esomeprazole with chemotherapeutics results in more pronounced cytotoxic effect via apoptosis on A549 non-small-cell lung cancer cell line**
YILMAZTEPE ORAL A., ORAL H. B., SARIMAHMUT M., Cevatemre B., ÖZKAYA G., Korkmaz S., Ulukaya E.
TURKISH JOURNAL OF BIOLOGY, vol.41, no.1, pp.231-241, 2017 (SCI-Expanded)
- VI. **Cytotoxic and apoptotic effects of endemic *Centaurea fenzlii* Reichardt on the MCF-7 breast cancer cell line**
YIRTICI Ü., GÖGER F., SARIMAHMUT M., ERGENE A.
TURKISH JOURNAL OF BIOLOGY, vol.41, no.2, pp.370-377, 2017 (SCI-Expanded)
- VII. **Olive leaf extract containing oleuropein modulates the cytotoxic effect of epirubicin on breast cancer cells depending on the cell line**
Korkmaz S., SARIMAHMUT M., Ozel M. Z., Ulukaya E.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.41, no.6, pp.385-392, 2016 (SCI-Expanded)
- VIII. ***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)
- IX. **Evaluation of genotoxic and apoptotic potential of *Hypericum adenotrichum* Spach. in vitro**
SARIMAHMUT M., Balıkcı N., ÇELİKLER KASIMOĞULLARI S., ARI F., Ulukaya E., GÜLERYÜZ G., Ozel M. Z.
REGULATORY TOXICOLOGY AND PHARMACOLOGY, vol.74, pp.137-146, 2016 (SCI-Expanded)
- X. **Cationic Pd(II)/Pt(II) 5,5-diethylbarbiturate complexes with bis(2-pyridylmethyl)amine and terpyridine: Synthesis, structures, DNA/BSA interactions, intracellular distribution, cytotoxic activity and induction of apoptosis**
İÇSEL C., YILMAZ V. T., Kaya Y., Durmus S., SARIMAHMUT M., BÜYÜKGÜNGÖR O., Ulukaya E.
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.152, pp.38-52, 2015 (SCI-Expanded)
- XI. **The M30 assay does not detect apoptosis in epithelial-derived cancer cells expressing low levels of cytokeratin 18**
Cevatemre B., Ulukaya E., SARIMAHMUT M., ORAL A., Frame F. M.
TUMOR BIOLOGY, no.9, pp.6857-6865, 2015 (SCI-Expanded)
- XII. **Anti-growth effect of a novel *trans*-dichloridobis[2-(2-hydroxyethyl)pyridine] platinum (II) complex via induction of apoptosis on breast cancer cell lines**

- ORAL A., Cevatemre B., SARIMAHMUT M., İÇSEL C., YILMAZ V. T., Ulukaya E.
BIOORGANIC & MEDICINAL CHEMISTRY, no.15, pp.4303-4310, 2015 (SCI-Expanded)
- XIII. **Additive enhancement of apoptosis by TRAIL and fenretinide in metastatic breast cancer cells in vitro**
Ulukaya E., SARIMAHMUT M., Cevatemre B., ARI F., YERLİKAYA A., Dimas K.
BIOMEDICINE & PHARMACOTHERAPY, vol.68, no.4, pp.477-482, 2014 (SCI-Expanded)
- XIV. **Genotoxic, cytotoxic, and apoptotic effects of crude extract of *Usnea filipendula* Stirt. in vitro**
Çelikler Kasımoğulları S., Oran S., Arı F., Ulukaya E., Aztopal N., Sarimahmut M., Öztürk Ş.
TURKISH JOURNAL OF BIOLOGY, vol.38, no.6, pp.940-947, 2014 (SCI-Expanded)
- XV. **Promising anti-growth effects of palladium(II) saccharinate complex of terpyridine by inducing apoptosis on transformed fibroblasts *in vitro***
Coskun M. D., ARI F., ORAL A., SARIMAHMUT M., KUTLU H. M., YILMAZ V. T., Ulukaya E.
BIOORGANIC & MEDICINAL CHEMISTRY, no.15, pp.4698-4705, 2013 (SCI-Expanded)
- XVI. **Combination of fenretinide and indole-3-carbinol results in synergistic cytotoxic activity inducing apoptosis against human breast cancer cells *in vitro***
Cevatemre B., ARI F., SARIMAHMUT M., ORAL A., DERE E., Kacar O., Adiguzel Z., Acilan C., Ulukaya E.
ANTI-CANCER DRUGS, no.6, pp.577-586, 2013 (SCI-Expanded)
- XVII. **Palladium(II) saccharinate complexes with bis(2-pyridylmethyl) amine induce cell death by apoptosis in human breast cancer cells in vitro**
ARI F., Ulukaya E., SARIMAHMUT M., YILMAZ V. T.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.21, no.11, pp.3016-3021, 2013 (SCI-Expanded)
- XVIII. **Peripherally Located A431 Cells are More Sensitive to Cell Death Induced by Exogenous Oxidative Stress**
ARI F., SARIMAHMUT M., Ulukaya E.
CURRENT SIGNAL TRANSDUCTION THERAPY, vol.7, no.3, pp.202-208, 2012 (SCI-Expanded)
- XIX. **Cell death-inducing effect of novel palladium(II) and platinum(II) complexes on non-small cell lung cancer cells in vitro**
Ulukaya E., ARI F., Dimas K., SARIMAHMUT M., Guney E., Sakellaridis N., YILMAZ V. T.
JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY, vol.137, no.10, pp.1425-1434, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of hematopoietic- and neurologic-expressed sequence 1-like (HN1L) protein levels in tissue and plasma of breast cancer patients**
ERTÜRK E., Sarimahmut M., GÖKGÖZ M. Ş., TOLUNAY Ş.
The European Research Journal, vol.9, no.3, pp.529-535, 2023 (Peer-Reviewed Journal)
- II. **In vitro Evaluation of Antigenotoxic Effects of Phloridzin**
Sarimahmut M., Vekshari S., Demirbag Karaali M., Celikler S.
CUMHURİYET SCIENCE JOURNAL, vol.43, no.3, pp.358-364, 2022 (Peer-Reviewed Journal)
- III. **Cytotoxic Effect of *Conyza canadensis* (L.) Cronquist on Human Lung Cancer Cell Lines**
AYAZ F., SARIMAHMUT M., KÜÇÜKBOYACI N., Ulukaya E.
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.13, no.3, pp.342-346, 2016 (ESCI)

Books & Book Chapters

- I. **Centaurea L. Türlerinde Antikanser Aktivite**
SARIMAHMUT M.
in: Doğa Bilimleri ve Matematikte Öncü ve Çağdaş Çalışmalar, ÖZDEMİR Canan, ÖZDEMİR Ali, Editor, Duvar Yayınları, İzmir, pp.79-99, 2023

II. *Achillea* Türlerinin Antikanser ve Genotoksik Özellikleri

SARIMAHMUT M.

in: Fen Bilimleri ve Matematik Alanında Gelişmeler, TALAZ Oktay, Editor, Platanus Publishing, Ankara, pp.8-20, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of the Role of Serum HN1L as a Biomarker in the Early Diagnosis of Breast Cancer**
Öztepe M., SARIMAHMUT M., ERTÜRK BAKIR E., GÖKGÖZ M. Ş., POLATKAN S. A. V., TOLUNAY Ş., ARI F.
9th International Congress of the Molecular Biology, İzmir, Turkey, 12 - 14 September 2024, pp.203
- II. **Antioxidant and Anti-growth Properties of Selected Anatolian Plant Species: Exploring the Potential of *Heracleum humile*, *Doronicum reticulatum*, *Centaurea drabifolia*, and *Senecio olympicus***
SARIMAHMUT M., ÇELİKLER KASIMOĞULLARI S.
3rd International Multidisciplinary Cancer Research Congress, İstanbul, Turkey, 7 - 10 September 2023, pp.111-119
- III. **Determination of Antioxidant Properties and Contents of *Helichrysum Arenarium* L. Extracts, Investigation of Anti-growth Effects Against Human Breast Cancer Cell Lines**
Yıldız G., AYBASTIER Ö., SARIMAHMUT M., ARI F.
3rd International Multidisciplinary Cancer Research Congress, İstanbul, Turkey, 7 - 10 September 2023, pp.73
- IV. **Metastatik Renal Hücreli Karsinomda Metilasyon Değişiklikleri ve Gen Mutasyonlarının Hiperprogresyona Etkisi**
SARIMAHMUT M., ERTÜRK E., ÖZTÜRK NAZLIOĞLU H., DELİGÖNÜL A.
13th International Medicine and Health Sciences Researches Congress, Ankara, Turkey, 26 - 27 August 2023
- V. ***Prunus armeniaca* L. (Acı Kayısı) Çekirdek Ekstresinin Genotoksik ve Sitotoksik Etkilerinin Değerlendirilmesi**
Bulut G., SARIMAHMUT M., ÇELİKLER KASIMOĞULLARI S.
2nd International Multidisciplinary Cancer Research Congress, Giresun, Turkey, 21 - 24 July 2022, no.8, pp.44
- VI. ***Echium vulgare* Bitkisinden Elde Edilen Ekstrelerin Büyüme Baskılayıcı Etkilerinin Değerlendirilmesi**
SARIMAHMUT M., AYBASTIER Ö., Aydın İ., ARI F., ÇELİKLER KASIMOĞULLARI S.
2nd International Multidisciplinary Cancer Research Congress, Giresun, Turkey, 21 - 24 July 2022, pp.54-55
- VII. ***Cichorium intybus* L. (Beyaz hindiba) Ekstresi ile Bazı Antikanser İlaç Etkileşimlerinin Belirlenmesi**
SARIMAHMUT M.
2nd International Multidisciplinary Cancer Research Congress, Giresun, Turkey, 21 - 24 July 2022
- VIII. **Luminal Tip Meme Kanselerinde HN1L Nin Biyobelirteç Olarak Potansiyelinin Belirlenmesi**
SARIMAHMUT M., ERTÜRK E., GÖKGÖZ M. Ş.
7. International Hipocrates Congress On Medical and Health Sciences (Hipocrates Congress), Elazığ, Turkey, 03 September 2021
- IX. **Evaluation of the Effectiveness of HN1L as a Novel Biomarker Candidate in Aggressive Breast Tumors**
Ertürk E., Sarimahmut M., Gökgöz M. Ş.
7th International Medicine and Health Sciences Researches Congress, Ankara, Turkey, 28 - 29 August 2021, pp.216-217
- X. ***Conyza canadensis* (L.) Cronquist Bitkisinin Akciğer Kanseri Hücreleri Üzerindeki Sitotoksik Etkisi**
AYAZ F., KÜÇÜKBOYACI ÜLKER N., SARIMAHMUT M., ULUKAYA E.
21. Bitkisel İlaç Hammaddeleri Toplantısı, Nevşehir, Turkey, 28 May - 01 June 2014
- XI. **NGAL, Vimentin, Fibronektin Düzeylerinin Meme Kanselinin Tanısı, Tedavi Yanıtı ve Prognozla İlişkisi**
ULUKAYA E., USTAALIOĞLU Y. E., SARIMAHMUT M.
XXVII. Ulusal Biyokimya Kongresi, Antalya, Turkey, 3 - 06 November 2015, vol.40
- XII. **M30 assay underestimates apoptosis in the case of inadequate amount of cytokeratin 18 in lung**

cancer cells

ULUKAYA E., CEVATEMRE B., SARIMAHMUT M., ARI F., YILMAZTEPE ORAL A., FM F.

Anticancer Drug Action and Drug Resistance from Cancer Biology to the Clinic, 20 - 23 June 2015

- XIII. **Preliminary results of anti growth activity of Chrysophthalmum montanum from Turkey A bioactivity guided isolation research**
AYAZ F., KÜÇÜKBOYACI N., SARIMAHMUT M., DUMAN H., ULUKAYA E., ÇALIŞ İ.
11th International Symposium on Pharmaceutical Sciences, 9 - 12 June 2015
- XIV. **Cytotoxic activity of the genus chrysophthalmum schultz bip from Turkey against various human cancer cell lines**
AYAZ F., KÜÇÜKBOYACI N., SARIMAHMUT M., BANİ B., DUMAN H., ULUKAYA E., ÇALIŞ İ.
EACR-Sponsored 3rd Anticancer Agent Development Congress, 18 - 19 May 2015
- XV. **Possible Cross talk between Hedgehog Wnt and Notch Pathways Following a Cytotoxic Treatment with Pd II saccharinate complex of terpyridine**
CEVATEMRE B., Karakaş D., SARIMAHMUT M., Aydınlık Ş., Aztopal N., İçsel C., ULUKAYA E.
COST Action CM1106, Targeting Hedgehog Signaling in Cancer Stem Cells, Focused Joint Meeting for ESRs, Barcelona, Spain, 19 - 20 January 2015
- XVI. **Astragalus sibthorpianus Boiss bitkisinin meme kanser hücre soylarında sitotoksik ve apoptotik etkileri**
SARIMAHMUT M., ULUKAYA E., GÜLERYÜZ G., ÇELİKLER KASIMOĞULLARI S.
XIII. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, Aydın, Turkey, 27 - 30 October 2013, pp.251-252
- XVII. **Bazı yeni 3-aril-5-klorometil-1,2,4-oksadiazol bileşiklerinin sentezi ve sitotoksik aktivitelerinin belirlenmesi**
Arslantaş G., SARIMAHMUT M., ARIKAN ÖLMEZ N., ÇELİKLER KASIMOĞULLARI S., ULUKAYA E.
IV. Multidisipliner kanser araştırma kongresi, Turkey, 13 December 2012
- XVIII. **Investigation of the Apoptotic Cytotoxic Effects of Combination of TRAIL and Fenretinide in Breast Cancer**
ULUKAYA E., SARIMAHMUT M., CEVATEMRE B., AZTOPAL N., Debreli Coşkun M., ARI F.
The First Scientific Meeting of the Serbian Association for Cancer Research, Belgrade, Serbia, 29 - 30 November 2012, pp.74
- XIX. **Meme Kanseri Tedavisinde Ümit Vaad Edici Yeni Bir Kombinasyon: Fenretinid+İndol-3-karbinol**
CEVATEMRE B., ARI F., YILMAZTEPE ORAL A., SARIMAHMUT M., DERE E., ULUKAYA E.
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 3 - 07 September 2012, pp.407
- XX. **Yeni Sentezlenen Pd II Sakkarinat Komplekslerinin Antikanser Etkilerinin ve Mekanizmalarının Araştırılması**
KARAKAŞ ZEYBEK D., ARI F., AZTOPAL N., YILMAZTEPE ORAL A., SARIMAHMUT M., YILMAZ V. T., ULUKAYA E.
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 3 - 07 September 2012, pp.370-371
- XXI. **In vitro Evaluation of Cytotoxic Potency of Tamus communis L**
SARIMAHMUT M., ÇELİKLER KASIMOĞULLARI S., GÜLERYÜZ G., ULUKAYA E.
EACR - Anticancer Agents Research Congress, Antalya, Turkey, 13 - 16 October 2011, pp.137

Supported Projects

SARIMAHMUT M., Project Supported by Higher Education Institutions, Uludağ Üniversitesince Sentezlenen Palladium II Kompleksi PdCl terpy sac 2H₂O ile Sık Kullanılan Kanser İlaç Kombinasyonlarının Sitotoksik Apoptotik Etkilerinin Meme Kanseri Kök Hücrelerinde in vitro Araştırılması, 2012 - Continues

DELİGÖNÜL A., EVRENSEL T., ÇUBUKÇU E., BALABAN ADIM Ş., ÖZTÜRK NAZLIOĞLU H., SARIMAHMUT M., ERTÜRK E., ARI F., ATLI E., Project Supported by Higher Education Institutions, Anti-PD-1/PD-L1 İmmünoterapi Alan Kanser Hastalarında Hiperprogresyonu Belirlemeye Yönelik Biyobelirteçlerin Araştırılması, 2021 - 2024
Sarımahmut M., Cevatemre B., Ulukaya E., Dere E., Yılmaztepe Oral A., TUBITAK Project, Pirüvat Dehidrojenaz Enzim Kompleksinin Epitelyal Mezenkimal Dönüşüm (EMD) ile İlişkisinin in vitro Araştırılması, 2015 - 2017

SARIMAHMUT M., Project Supported by Higher Education Institutions, Kanser Kök Hücrelerine Özgü Hücre Canlılık Test Kiti Geliştirilmesi, 2014 - 2016

ARI F., SARIMAHMUT M., Project Supported by Higher Education Institutions, Akciğer Kanserinde M30 un Tedaviye Yanıtla İlişkisinin İn Vitro Araştırılması, 2014 - 2015

SARIMAHMUT M., Project Supported by Other Official Institutions, Uludağ ın Bitki Potansiyelinin Antikanser İlaç Özellikleri Açısından Taranması ve Korunması, 2013 - 2015

ZİYANOK DEMİRTAŞ S., SARIMAHMUT M., Project Supported by Higher Education Institutions, Tip 2 diyabet oluşturulmuş sıçanlarda Silybum marianum deve diken i ekstresi metformin ve saksagliptinin oksidan antioksidan sistemler üzerine etkisi, 2011 - 2015

SARIMAHMUT M., Project Supported by Higher Education Institutions, Astragalus sibthorpianus Boiss Bitkisinin Meme Kanseri Hücre Soylarında Sitotoksik Apoptotik ve Genotoksik Antigenotoksik Etkilerinin Araştırılması, 2013 - 2014

SARIMAHMUT M., ARI F., Project Supported by Other Official Institutions, Fenretinid ve TRAIL Kombinasyonu Tedavisinin Meme Kanseri Hücre Soyları Üzerindeki Sitotoksik Apoptotik Etkilerinin Araştırılması Meme Kanserinin Tedavisinde Ümit Verici Yeni bir Yaklaşım, 2011 - 2013

Scientific Refereeing

FRONTIERS IN PHARMACOLOGY, SCI Journal, June 2024

BIOMEDICAL AND ENVIRONMENTAL SCIENCES, SCI Journal, November 2023

Metrics

Publication: 52

Citation (WoS): 345

Citation (Scopus): 353

H-Index (WoS): 11

H-Index (Scopus): 11

Non Academic Experience

Company, Kromo-Gen Biyoteknoloji San. ve Tic. Ltd. Şti., Satış

DIRIM TIP SAĞLIK ÜRÜNLERİ SAN.VE TIC.LTD.STİ.

Company, Sanofi, Klinik Araştırmalar

MONİTÖR MEDİKAL ARASTIRMA VE DANISMANLIK TICARET LIMITED SIR

Company, Nanoprobes Inc., Research & Development

Nanoprobes, Inc.