

Res. Asst. PhD AYŞE ERDOĞAN

Personal Information

Office Phone: [+90 242 512 0499](tel:+902425120499)

Office Phone: [+90 242 310 2376](tel:+902423102376) Extension: 2376

Fax Phone: [+90 242 227 8911](tel:+902422278911)

Email: ayseerdogan@akdeniz.edu.tr

Web: <https://avesis.akdeniz.edu.tr/ayseerdogan>

Education Information

Doctorate, Akdeniz University, Fen Bilimleri, Biyoloji/Moleküler Biyoloji, Turkey 2010 - 2016

Postgraduate, Akdeniz University, Institute of Science, Biyoloji/ Moleküler Biyoloji, Turkey 2007 - 2010

Undergraduate, Halic University, Faculty Of Arts And Sciences, Moleküler Biyoloji Ve Genetik, Turkey 2003 - 2007

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Uygulamalı Ulusal ve Avrupa Birliği Projeleri Hazırlama Eğitimi, TÜBİTAK-BİDEB, 2014

Education Management and Planning, Bilgilendirme ve Eğitim Semineri, TÜBİTAK, 2012

Dissertations

Doctorate, CETUXIMABIN TEK BAŞINA ve EPİRUBICIN ile BİRLİKTE PARENTAL ve EPİRUBICIN DİRENÇLİ KARACİĞER KANSERİ HÜCRELERİNDE SİTOTOKSİK ve APOPTOTİK ETKİLERİNİN ARAŞTIRILMASI, Akdeniz University, Institute of Science, Biyoloji/Moleküler Biyoloji, 2016

Postgraduate, Kekik [Thymus Revolutus Céлак (Lamiaceae)] Bitkisinden Elde Edilen Uçucu Yağın Antioksidan Özelliğinin Ve Hepatoma G2 Hücrelerinde Membran Üzerine Etkilerinin Araştırılması, Akdeniz University, Institute of Science, Biyoloji/ Moleküler Biyoloji, 2010

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Medical Biology, Life Sciences, Biochemistry, Biomolecules, Molecular Biology and Genetics, Animal Molecular Genetics, Molecular Biology of Cancer, Natural Sciences

Academic Titles / Tasks

Research Assistant, Akdeniz University, Institute of Science, Biyoloji/ Moleküler Biyoloji, 2009 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of Antioxidative, Cytotoxic, Membrane-Damaging and Membrane-Protective Effects of The Essential Oil of *Origanum majorana* and its Oxygenated Monoterpene Component Linalool in Human-Derived Hep G2 Cell Line**
Erdogan A., ÖZKAN A.
IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH, vol.16, pp.24-34, 2017 (SCI-Expanded)
- II. **Evaluation of cytotoxic, membrane, and DNA damaging effects of *Thymus revolutus* Celak essential oil on different cancer cells**
ÖZKAN A., Erdogan A.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.47, no.2, pp.702-714, 2017 (SCI-Expanded)
- III. **A comparative study of cytotoxic, membrane and DNA damaging effects of *Origanum majorana*'s essential oil and its oxygenated monoterpene component linalool on parental and epirubicin-resistant H1299 cells**
Erdogan A., ÖZKAN A.
BIOLOGIA, vol.68, no.4, pp.754-761, 2013 (SCI-Expanded)
- IV. **Membrane and DNA damaging/protective effects of eugenol, eucalyptol, terpinen-4-ol, and camphor at various concentrations on parental and drug-resistant H1299 cells**
ÖZKAN A., Erdogan A.
TURKISH JOURNAL OF BIOLOGY, vol.37, no.4, pp.405-413, 2013 (SCI-Expanded)
- V. **Effects of *Thymus revolutus* Celak essential oil and its two major components on Hep G2 cells membrane**
Erdogan A., ÖZKAN A.
BIOLOGIA, vol.68, no.1, pp.105-111, 2013 (SCI-Expanded)
- VI. **A Comparative Study of the Antioxidant/Prooxidant Effects of Carvacrol and Thymol at Various Concentrations on Membrane and DNA of Parental and Drug Resistant H1299 Cells**
Ozkan A., Erdogan A.
NATURAL PRODUCT COMMUNICATIONS, vol.7, no.12, pp.1557-1560, 2012 (SCI-Expanded)
- VII. **Antioxidant and anticancer activity of fresh corm extract from *Romulea tempskyana* (Iridaceae)**
ÖZKAN A., Erdogan A.
NATURAL PRODUCT RESEARCH, vol.26, no.22, pp.2126-2128, 2012 (SCI-Expanded)
- VIII. **Antioxidant capacity of juice from different papaya (*Carica papaya* L.) cultivars grown under greenhouse conditions in Turkey**
ÖZKAN A., GÜBBÜK H., Gunes E., Erdogan A.
TURKISH JOURNAL OF BIOLOGY, vol.35, no.5, pp.619-625, 2011 (SCI-Expanded)
- IX. **A comparative evaluation of antioxidant and anticancer activity of essential oil from *Origanum onites* (Lamiaceae) and its two major phenolic components**
ÖZKAN A., Erdogan A.
TURKISH JOURNAL OF BIOLOGY, vol.35, no.6, pp.735-742, 2011 (SCI-Expanded)
- X. **Antitumoral and antioxidant effect of essential oils and in vitro antioxidant properties of essential oils and aqueous extracts from *Salvia pisidica***
Özkan A., Erdogan A., Sokmen M., Tugrulay S., Ünal O.
BIOLOGIA, vol.65, no.6, pp.990-996, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of cellular responses of parental and epirubicin-resistant non-small cell lung cancer cells against stabilized-ag ion solution induced injury**
Erdogan A., Ozkan O., KİRAZ N., ÖZKAN A.
CUKUROVA MEDICAL JOURNAL, vol.41, no.1, pp.74-81, 2016 (ESCI)

- II. **Moleküler Hedefli Anti-Kanser Ajan Kombinasyonlarını Optimize Etmek İçin Stratejiler**
ERDOĞAN A., ÖZKAN A.
ARŞİV KAYNAK TARAMA DERGİSİ, vol.24, pp.432-451, 2015 (Peer-Reviewed Journal)
- III. **Kanser Tedavisinde ve Tümör Görüntülemesinde Nanoteknolojik Uygulamalar**
ERDOĞAN A., ÖZKAN A.
ARŞİV KAYNAK TARAMA DERGİSİ, vol.22, pp.425-439, 2013 (Peer-Reviewed Journal)
- IV. **Nanotechnological Applications in Cancer Treatment and Tumor Imaging**
ERDOĞAN A., ÖZKAN A.
Archives Medical Review Journal, vol.22, no.3, pp.425-439, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Apoptotic effect of essential oils from cultured and wild form of *Origanum acutidens* (Hand.-Mazz.) Ietswaart. (Lamiaceae) on lung cancer cells (A549)**
ÖZKAN A., ERDOĞAN A., DÜLGEROĞLU C.
43rd Federation of European Biochemical Societies (FEBS) congress, Prag, Czech Republic, 7 - 12 July 2018, vol.8, pp.333
- II. **Yeni Bis-sülfid ve Bis-sülfon Bileşiklerinin Sentezi ve Sitotoksik Aktivitelerinin İncelenmesi**
BİÇER A., TURGUT CİN G., Gültekin M. S., Erdoğan A., Özkan A.
5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 30 March - 02 April 2017, pp.22
- III. **Yeni Bis-sülfid ve Bis-sülfon Bileşiklerinin Sentezi ve Sitotoksik Aktivitelerinin İncelenmesi**
BİÇER A., TURGUT CİN G., Gültekin M. S., ERDOĞAN A., ÖZKAN A.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 30 March - 02 April 2017, pp.22
- IV. **Side Star Elegance Hotel 30 Mart – 2 Nisan 2017 ANTALYA P22 Yeni Bis-sülfid ve Bis-sülfon Bileşiklerinin Sentezi ve Sitotoksik Aktivitelerinin İncelenmesi**
BİÇER A., TURGUT CİN G., Gültekin M. S., ERDOĞAN A., ÖZKAN A.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 30 March - 02 April 2017, pp.22
- V. **"Prooxidant and Antioxidant Properties of Oxygenated Monoterpene Linalool in Hep G2 Cells (The FEBS Journal 283)**
ÖZKAN A., ERDOĞAN A.
41st Federation of European Biochemical Societies (FEBS) congress, Aydın, Turkey, 3 - 08 September 2016, vol.Suppl. 1, pp.394
- VI. **Stabilized-Silver Ion Solution Enhances Cetuximab Cytotoxicity in Lung and Epidermoid Carcinoma Cells**
ERDOĞAN A., ÖZKAN A., MANGUOĞLU AYDEMİR A. E., KİRAZ N., Özkan Ö.
4th Inter. Congress of the Molecular Biology Association of Turkey, Ankara, Turkey, 27 - 29 November 2015, pp.77
- VII. **Stabilized-Silver Ion Solution Enhances Cetuximab Cytotoxicity in Lung and Epidermoid Carcinoma Cells**
ERDOĞAN A., ÖZKAN A., MANGUOĞLU AYDEMİR A. E., KİRAZ N., Özkan Ö.
4th Inter. Congress of the Molecular Biology Association of Turkey, Ankara, Turkey, 27 - 29 November 2015, pp.77
- VIII. **Combined effect of Cetuximab and Stabilized- Ag ion solution on epirubicin-resistant human Non-Small Cell Lung Cancer (NSCLC) comparing with parental cells**
ÖZKAN A., ERDOĞAN A., MANGUOĞLU AYDEMİR A. E., KİRAZ N.
40 th FEBS Congress, Berlin, Germany, 4 - 09 July 2015, pp.248
- IX. **Cytotoxicity of Cetuximab in Lung Cancer Lines Expressing Different Level of EGFR**
ERDOĞAN A., ÖZKAN A.
III. International Congress of the Molecular Biology Association, İzmir, Turkey, 10 - 12 September 2014, pp.162

- X. **Cytotoxicity of Cetuximab in Lung Cancer Lines Expressing Different Level of EGFR**
ÖZKAN A., ERDOĞAN A.
III. International Congress of the Molecular Biology Association, İzmir, Turkey, 10 - 12 September 2014, pp.162
- XI. **Anticancer effect of essential oil of Thymus Revolutus Celak, Endemic to the Antalya, Turkey.**
ÖZKAN A., ERDOĞAN A.
ISEEP-2013 (international Symposium on Ecology and Environmental Problems, Turkey
- XII. **Anticancer effect of essential oil of Thymus Revolutus Celak, Endemic to the Antalya, Turkey.**
ÖZKAN A., ERDOĞAN A.
ISEEP-2013 (international Symposium on Ecology and Environmental Problems, Turkey, 1 - 04 August 2014, pp.81
- XIII. **Sideritis stricta (Lamiceae) Bitkisinden Elde Edilen Uçucu Yağının Akciğer Kanseri Hücre Dizisinde Antikanser Etkisinin Araştırılması**
ÖZKAN A., ERDOĞAN A., ÜNAL O.
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.1303
- XIV. **Sideritis stricta (Lamiceae) Bitkisinden Elde Edilen Uçucu Yağının Akciğer Kanseri Hücre Dizisinde Antikanser Etkisinin Araştırılması**
ERDOĞAN A., ÖZKAN A., ÜNAL O.
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 - 27 June 2014, pp.1303
- XV. **Effects of stabilized-Ag ion solution on 8-OHdG and MDA levels in different human lung cancer cells (H1299)**
ÖZKAN A., Özkan Ö., ERDOĞAN A., Kiraz N.
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Russia, 1 - 04 December 2013, vol.280, pp.305
- XVI. **Effects of stabilized-Ag ion solution on 8-OHdG and MDA levels in different human lung cancer cells (H1299)**
ÖZKAN A., Özkan Ö., ERDOĞAN A., KIRAZ N.
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), St. Petersburg, Russia, 6 - 11 July 2013, vol.280, pp.305
- XVII. **Parental and Epirubicin resistant H1299 cells showed different sensitivity to Origanum majorana (O. Majorana) L. Essential oil and its oxygenated component linalool**
ERDOĞAN A., ÖZKAN A.
1st International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 23 - 24 November 2012, pp.85
- XVIII. **Parental and Epirubicin resistant H1299 cells showed different sensitivity to Origanum majorana (O. Majorana) L. Essential oil and its oxygenated component linalool**
ÖZKAN A., ERDOĞAN A.
1st International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 23 - 24 November 2012, pp.85
- XIX. **Comparative Evaluation of Membrane Damaging/Protective Effects of Essential Oil from Origanum majorana and Linalool**
ÖZKAN A., ERDOĞAN A.
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 3 - 07 September 2012, pp.1386-1387
- XX. **Comparative Evaluation of Membrane Damaging/Protective Effects of Essential Oil from Origanum majorana and Linalool**
ERDOĞAN A., ÖZKAN A.
21. Ulusal Biyoloji Kongresi, İzmir, Turkey, 3 - 07 September 2012, pp.1386
- XXI. **Effects of essential oil from Thymus Revolutus Celak (Lamiceae) and its two main componenets on membrane of Hep G2 cells**
ERDOĞAN A., ÖZKAN A.
XII. Tıbbi Biyoloji ve Genetik Kongresi, Antalya, Turkey, 27 - 30 October 2011, pp.63
- XXII. **Effects of essential oil from Thymus Revolutus Celak (Lamiceae) and its two main componenets on membrane of Hep G2 cells**

ERDOĞAN A., ÖZKAN A.

XII. Tıbbi Biyoloji ve Genetik Kongresi, Antalya, Turkey, 27 - 30 October 2011, pp.63

XXIII. Antioxidant and anticancer activity of essential oil from *Origanum onites* (Lamiaceae)

ÖZKAN A., ERDOĞAN A., Trak N. G.

XII International Congress of Toxicology, Barcelona, Spain, 19 - 23 July 2010, pp.131-132

XXIV. Antioxidant properties and cytotoxic effects of essential oils from *Salvia pisidica* L. on hepatoma G2 cells

ÖZKAN A., ERDOĞAN A.

34th Congress of the Federation-of-European-Biochemical-Societies, Czech Republic, 1 - 04 July 2009, vol.276, pp.333

XXV. Antioxidant properties and cytotoxic effects of essential oils from *Salvia pisidica* L. on hepatoma G2 cells

ÖZKAN A., ERDOĞAN A.

34th Congress of the Federation-of-European-Biochemical-Societies, Czech Republic, vol.276

Other Publications

I. Combined effect of Cetuximab and Stabilized-Ag ion solution on epirubicin-resistant human Non-Small Cell Lung Cancer (NSCLC) comparing with parental cells

ÖZKAN A., ERDOĞAN A., MANGUOĞLU AYDEMİR A. E., KİRAZ N.

Other, pp.248-48, 2015

II. Effects of stabilized-Ag ion solution on 8-OHdG and MDA levels in different human lung cancer cells (H1299)

ÖZKAN A., ÖZKAN Ö., ERDOĞAN A., KİRAZ N.

Other, pp.305, 2013

III. Antioxidant and anticancer activity of essential oil from *Origanum onites* (Lamiaceae)

ÖZKAN A., ERDOĞAN A., Trak N. G.

Other, pp.131-132, 2010

IV. Antioxidant properties and cytotoxic effects of essential oils from *Salvia pisidica* L. on hepatoma G2 cells

ÖZKAN A., ERDOĞAN A.

Other, pp.333, 2009

Supported Projects

ÖZKAN A., ERDOĞAN A., Project Supported by Higher Education Institutions, Membrane and DNA damaging protective effects of eugenol eucalyptol terpinen-4-ol and camphor at various concentrations on parental and drug resistant H1299 cells, 2014 - 2016

Memberships / Tasks in Scientific Organizations

Ulusal moleküler biyoloji derneği, Member, 2012 - Continues

Scientific Refereeing

Iranian Journal of Pharmaceutical Research, National Scientific Refereed Journal, April 2015

Natural Product research, SCI Journal, January 2013

Metrics

Publication: 43

Citation (WoS): 221

Citation (Scopus): 237

H-Index (WoS): 7

H-Index (Scopus): 7

Congress and Symposium Activities

4th Inter. Congress of the Molecular Biology Association of Turkey, Attendee, Ankara, Turkey, 2015

III. International Congress of the Molecular Biology Association, Attendee, İzmir, Turkey, 2014

22. Ulusal Biyoloji Kongresi, Attendee, Turkey, 2014

1st International Congress of the Molecular Biology Association of Turkey, Attendee, Turkey, 2012

21. Ulusal Biyoloji Kongresi, Attendee, İzmir, Turkey, 2012

XII. Tıbbi Biyoloji ve Genetik Kongresi, Attendee, Antalya, Turkey, 2011

XII International Congress of Toxicology, Attendee, Barcelona, Spain, 2010

34th Congress of the Federation-of-European-Biochemical-Societies, Attendee, Prague, Czech Republic, 2009

EMBO Young Scientists Forum, Attendee, İstanbul, Turkey, 2008

Scholarships

2211 A-Yurt İçi Doktora Burs Programı, TÜBİTAK, 2010 - Continues

2210-Yurt İçi Yüksek Lisans Burs Programı, TÜBİTAK, 2007 - Continues

ÖSYM Bursu, University, 2003 - Continues