

Asst. Prof. Deniz İrtem Kartal

Personal Information

Office Phone: [+90 432 225 1698](tel:+904322251698) Extension: 22267

Email: denizirtem@yyu.edu.tr

Web: <https://avesis.yyu.edu.tr/denizirtem>

Address: Van YYÜ Fen Fakültesi Moleküler Biyoloji ve Genetik Böl. 3. Kat

International Researcher IDs

ORCID: 0000-0001-9669-5828

Yoksis Researcher ID: 119021

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyokimya, Turkey 2008 - 2015

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyokimya, Turkey 2006 - 2008

Undergraduate, Akdeniz University, Faculty Of Science, Biyoloji, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, İnterlab- Sigma/ Aldrich Seminer Serisi/ Gen'den Proteine, Ankara, 2014

Occupational Health and Safety, iş Sağlığı ve Güvenliği Temel Bilgilendirme Ergonomi Eğitimi, ODTÜ FEF Biyolojik Bilimler Bölümü, 2011

Education Management and Planning, TemelHücre/ Primer Hücre Kültürleri Kursu, Ege Üniversitesi Biyomühendislik Bölümü, 2010

Education Management and Planning, EMBO Genç Araştırmacılar Forumu, Boğaziçi Üniversitesi, 2008

Dissertations

Doctorate, Antioxidant Properties of *Salvia absconditiflora* Extracts And Their Effects On Phase I And Phase II Gene Expressions In HepG2 Cell Line , Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya, 2015

Postgraduate, The Expression of GST Genes In Diabetic Rat Liver Tissues, Van Yüzüncü Yil University, Fen Bilimleri Enstitüsü, Biyokimya, 2008

Research Areas

Basic Pharmaceutics Sciences, Health Sciences, Pharmacology and Therapeutics, Biochemistry, Life Sciences, Biochemistry, Metabolism, Molecular Biochemistry, Molecular Biology and Genetics, Molecular Biology of Cancer, Natural

Sciences

Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2017 - Continues
Research Assistant PhD, Van Yüzüncü Yil University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2016 - 2017
Research Assistant PhD, Middle East Technical University, Fbe, Biyokimyas, 2015 - 2016
Research Assistant, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyokimya, 2004 - 2015

Academic and Administrative Experience

Van Yüzüncü Yil University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2017 - Continues
Staj Başkanı, Van Yüzüncü Yil University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2017 - Continues

Courses

Biochemistry- II, Undergraduate, 2020 - 2021
CYTOLOGY, Undergraduate, 2020 - 2021
PHASE II DRUG METABOLISM, Postgraduate, 2018 - 2019
MOLEKULAR CELL BIOLOGY, Undergraduate, 2018 - 2019
Mesleki İngilizce 4, Undergraduate, 2016 - 2017
Kanser Biyolojisi, Undergraduate, 2017 - 2018
Sitoloji (seçmeli), Undergraduate, 2016 - 2017
Mesleki İngilizce III, Undergraduate, 2017 - 2018
Faz I İlaç Biyokimyası, Postgraduate, 2017 - 2018
Serbest Radikaller Ve Antioksidanlar, Undergraduate, 2016 - 2017

Advising Theses

İrtem Kartal D., Drug Metabolism and Apoptosis in HEPG2 Cell Line, Postgraduate, S.Rustam(Student), 2017

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yil Üniversitesi, July, 2022
Post Graduate, Post Graduate, Van Yüzüncü Yil Üniversitesi, July, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yil Üniversitesi, July, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yil Üniversitesi, July, 2022
Post Graduate, Post Graduate, Van Yüzüncü Yil Üniversitesi, June, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yil Üniversitesi, February, 2022
Doctoral Examination, Doctoral Examination, Van Yüzüncü Yil Üniversitesi, January, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yil Üniversitesi, December, 2021

Doctorate, Doctorate, Van Yüzüncü Yıl Üniversitesi, September, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yıl Üniversitesi, June, 2021

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, February, 2021

Doctoral Examination, Doctoral Examination, Van Yüzüncü Yıl Üniversitesi, January, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yıl Üniversitesi, January, 2021

Doctoral Examination, Doctoral Examination, Van Yüzüncü Yıl Üniversitesi, July, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yıl Üniversitesi, March, 2019

Doctoral Examination, Doctoral Examination, Van Yüzüncü Yıl Üniversitesi, February, 2019

Appointment Academic Staff, Appointment Academic Staff, Van Yüzüncü Yıl Üniversitesi, September, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **MODULATION OF CYTOCHROME P450s AND ANTIOXIDANT ENZYMES BY CAFFEIC ACID, p-COUMARIC ACID AND QUERCETIN-RICH ANATOLIAN PROPOLIS IN HUMAN ADENOCARCINOMA HT-29 CELLS**
ALTAY A., Irtem-Kartal D., Sagdicoglu-Celep G., Guray T., Bozoglu F.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.1, pp.336-345, 2018 (Peer-Reviewed Journal)
- II. **Modulation of mRNA expression and activities of xenobiotic metabolizing enzymes, CYP1A1, CYP1A2, CYP2E1, GPx and GSTP1 by the Salicornia freitagii extract in HT-29 human colon cancer cells**
ALTAY A., Kartal D., Sadi G., Guray T., Yaprak A. E.
ARCHIVES OF BIOLOGICAL SCIENCES, vol.69, no.3, pp.439-448, 2017 (Peer-Reviewed Journal)
- III. **Wild Edible Mushrooms from Turkey as Possible Anticancer Agents on HepG2 Cells Together with Their Antioxidant and Antimicrobial Properties**
Sadi G., Kaya A., Yalcin H. A., Emsen B., Kocabas A., Kartal D., Altay A.
INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS, vol.18, no.1, pp.83-95, 2016 (Peer-Reviewed Journal)
- IV. **Cytotoxicity of some edible mushrooms extracts over liver hepatocellular carcinoma cells in conjunction with their antioxidant and antibacterial properties**
Sadi G., Emsen B., Kaya A., Kocabas A., Cinar S., Kartal D.
PHARMACOGNOSY MAGAZINE, vol.11, no.42, 2015 (Peer-Reviewed Journal)
- V. **Regulation of Glutathione S-Transferase Mu with type 1 diabetes and its regulation with antioxidants**
Sadi G., Kartal D., GÜRAY N. T.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.38, no.1, pp.92-100, 2013 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **Investigation of Antioxidant Activities of Agrocybe praecox Fungus**
Irtem Kartal D., Şayak O., Acar İ.
MANTAR DERGISİ, vol.13, no.1, pp.37-43, 2022 (Peer-Reviewed Journal)
- II. **Antioxidant Properties of Cichorium intybus L. (Chicory) Extracts and Their Cytotoxic Effects on HepG2 Cells**
Eray N., Irtem Kartal D., Çelik İ.
Yuzuncu Yıl University Journal of Agricultural Sciences, vol.30, no.3, pp.444-453, 2020 (Peer-Reviewed Journal)
- III. **Van İlinin Çaldıran İlçesinde Yetişen Bazı Tıbbi Bitkilerin Toplam Fenolik ve Flavonoid Madde Miktarlarının Belirlenmesi**
Irtem Kartal D., Eray N., Öztürk F.
KSU JOURNAL OF AGRICULTURE AND NATURE, vol.23, no.3, pp.611-616, 2020 (Peer-Reviewed Journal)

- IV. **Medicago sativa Bitkisinin Antioxidant Kapasitesinin Belirlenmesi**
İrtem Kartal D., Şayak O.
DOĞU FEN BİLİMLERİ DERGİSİ, vol.3, no.1, pp.9-18, 2020 (Peer-Reviewed Journal)
- V. **Determination of Total Phenolic and Flavonoid Contents of Some Medicinal Plants Growing in Caldiran Province of Van**
İrtem Kartal D., Eray Vuran N., Öztürk F.
KSU TARIM VE DOĞA DERGİSİ-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.23, no.3, pp.611-616, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **TOTAL PHENOLIC AND FLAVONOID CONTENTS OF Malus sylvestris L. EXTRACTS**
Eray Vuran N., İrtem Kartal D., Çelik İ.
ISPEC 10th International Conference On Engineering & Natural Sciences , Siirt, Turkey, 16 - 18 May 2021, pp.463
- II. **INVESTIGATION OF ANTIOXIDANT ACTIVITIES OF RENEWABLE HEBELOMA SUBTORTUM FUNGI**
İrtem Kartal D., Şayak O., Acar İ.
7. Uluslararası Avrasya Zirvesi, Baku, Azerbaijan, 6 - 09 December 2020, pp.142
- III. **Cytotoxic Effects Of Cichorium intybus L. Extracts On HepG2 Cell Line**
Eray N., İrtem Kartal D., Çelik İ., Altay A.
5th International Conference On Engineering & Natural Sciences, Van, Turkey, 20 - 22 December 2019, pp.168
- IV. **Chemical Characterization Of Cichorium intybus L. Extracts**
Eray N., İrtem Kartal D., Çelik İ.
5th International Conference On Engineering & Natural Sciences, Van, Turkey, 20 - 22 December 2019, pp.169
- V. **In vitro Antiproliferative Activities of Rheum ribes L. Ectracts Against Human-Derived HT-29 and MCF-7 Cell Lines**
İrtem Kartal D., Eray N., Altay A.
4. International Symposium of Medicinal and Aromatic Plants, İzmir, Turkey, 2 - 04 October 2018, pp.46
- VI. **Phytochemical Profile of Water and Methanol Extracts of Rheum ribe L.**
İrtem Kartal D., Eray N.
4. International Symposium of Medicinal and Aromatic Plants, İzmir, Turkey, 2 - 04 October 2018, pp.139
- VII. **Biochemical Analysis of Water and Methanol Extracts of Rheum ribes L. Seeds**
İrtem Kartal D., Eray N.
International Agricultural Science Congress, Van, Turkey, 9 - 12 May 2018, pp.197
- VIII. **CHANGES IN EXPRESSIONS OF ENZYMES INVOLVED IN METABOLISM OF SOME CHEMOTHERAPEUTIC DRUGS BY SALVIA FRUTICOSA MILL**
ALTAY A., İrtem Kartal D., Bozoğlu F. T. , SADI G.
I. INTERNATIONAL CONGRESS on MEDICINAL and AROMATIC PLANTS, Konya, Turkey, 10 - 12 May 2017, pp.499-500
- IX. **Modulation of Cyp2E1 mRNA Expression By Anatolian Propolis**
ALTAY A., İrtem Kartal D.
TBD Biyokimya Günleri, Sivas, Turkey, 2 - 05 November 2016, vol.41, no.3, pp.108
- X. **Altay A., İrtem Kartal D., Celep G.S., Guray N.T., Bozoglu F.T., "Antioxidant activitis of Salvia fruticosa and its effects on HT-29 cell line"**
ALTAY A., İrtem Kartal D., Sağdıçoğlu Celep G., Güray T., Bozoğlu F. T.
40 th FEBS Congress,, Berlin, Germany, 4 - 09 July 2015, vol.282, no.1, pp.269-270
- XI. **"Effect of the bioactive components of Salvia absconditiflora on gene expressions of HepG2 cell line"**
İrtem Kartal D., SADI G., Güray T.
40 th FEBS Congress,, Berlin, Germany, 4 - 09 July 2015, vol.282, no.1, pp.265-266
- XII. **Antioksidant Activities of Propolis and its Bioactive Components and Their Effects oc CYP1A1 Gene Expression in HT29 Adenocarcinoma Cell Line**

İrtem Kartal D., ALTAY A., Gülsüm Y., Güray T.

13th European ISSX Meeting, Glasgow, United Kingdom, 22 - 25 June 2015, pp.51

XIII. Yenilebilir *Volvopluteus gloiocephalus* (Pluteaceae)'un HepG2 Hücre Hatları Üzerindeki Toksik Etkilerinin Tespiti

EMSEN B., SADI G., Abdullah K., CINAR S., İrtem Kartal D.

Ulusal Botanik Kongresi, Antalya, Turkey, 25 - 28 October 2014, pp.47

XIV. The effects of *Salvia absconditiflora* water extract on HepG2 liver cell line. 39th FEBS-EMBO Congress

İrtem Kartal D., SADI G., Güray T.

39 th FEBS-EMBO Congress,, Paris, France, 30 August - 04 September 2014, vol.281, no.1, pp.606

XV. Determination of Cytotoxic Properties of *Schizophyllum commune*

EMSEN B., SADI G., CINAR S., İrtem Kartal D., Abdullah K.

The 3rd International Molekular Biology and Biotechnology Congress, Saraybosna, Bosnia And Herzegovina, 2 - 06 June 2014, pp.230

XVI. Diyabetli Sıçanlarda Gst Mu Gen Exspresyonu ve Aktivitesi; Antioksidanların Etkisi.

İrtem Kartal D., SADI G., Güray T.

21. Ulusal Biyokimya Kongresi, İstanbul, Turkey, 28 - 31 October 2009, vol.34, no.1, pp.145

XVII. Regulation of GST Mu and CYP2E1 gene Expression in Streptozotocin Induced Diabetes; Effect of Vitamin C

SADI G., İrtem Kartal D., Güray T.

11th European Regional ISSX Meeting,, Lizbon, Portugal, 17 - 20 May 2009, pp.215

XVIII. Diyabetik Sıçan Karaciğerlerinde GST Alfa ve Mu Gen Ekspresyonları ve Aktiviteleri

İrtem Kartal D., SADI G., Güray T.

20. Ulusal Biyokimya Kongresi, Nevşehir, Turkey, 29 October - 01 November 2008, pp.142-143

XIX. Effects of lipoic acid and vitamin C administration on diabetic rat liver total GST activities

İrtem Kartal D., SADI G., Güray T.

15th Meeting of the Balkan Clinical Laboratory Federation, Antalya, Turkey, 4 - 07 September 2007, pp.167

Supported Projects

İrtem Kartal D., DORUK H., Project Supported by Higher Education Institutions, *Helvella leucomelaena* Mantarının Antioksidan Kapasitesi ve Sitotoksik Etkilerinin İncelenmesi, 2019 - 2021

Çelik İ., İrtem Kartal D., Eray N., Project Supported by Higher Education Institutions, *Cichorium intybus* L.(Hindiba) Bitki Ekstrelerinin Kimyasal Karakterizasyonu ve Ekstrelerin HepG2 Kanseri Hücre Hatlarında Sitotoksik Etkilerinin İncelenmesi, 2018 - 2020

İrtem Kartal D., Eray N., Project Supported by Higher Education Institutions, *Rheum ribes* L Işkın Bitki Ekstrelerinin Total Antioksidan Total Fenolik Total Flavonoid ve Metal Şelasyon Aktivitelerinin Belirlenmesi ve Ekstrelerin HepG2 Kanseri Hücre Hatlarında Sitotoksik Etkilerinin İncelenmesi, 2017 - 2018

Memberships / Tasks in Scientific Organizations

ISSX, Member, 2015 - Continues

Türk Biyokimya Derneği, Member, 2007 - Continues

Scientific Refereeing

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, July 2022

Anatolian Journal of Botany, Other journals, February 2020

dođu Fen Bilimleri Dergisi, Other Journals, February 2020

Metrics

Publication: 29

Citation (WoS): 44

Citation (Scopus): 52

H-Index (WoS): 3

H-Index (Scopus): 4

Congress and Symposium Activities

10th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Moderator, Siirt, Turkey, 2021

Scholarships

2211-E Dođrudan Yurt İçi Doktora Burs Programı, TUBITAK, 2008 - Continues

2210-A Genel Yurt İçi Yüksek Lisans Burs Programı, TUBITAK, 2006 - Continues