

## **Asst. Prof. Deniz İrtem Kartal**

### **Personal Information**

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### **Education Information**

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya, Turkey 2008 - 2015

Post Graduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya, Turkey 2006 - 2008

Under Graduate, Akdeniz University, Fen Fakültesi, 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

Post Graduate, 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, Biyokimys, 2015 - 2016

Research Assistant, Middle East Technical University, Fen Bilimleri Enstitüsü, Biyokimya, 2004 - 2015

## Professional Experience

Ethics Committee Member, Van Yüzüncü Yil University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2017 - Continues

## Courses

Mesleki İngilizce 4, Under Graduate, 2016 - 2017

Kanser Biyolojisi, Under Graduate, 2017 - 2018

Sitoloji (seçmeli), Under Graduate, 2016 - 2017

Mesleki İngilizce III, Under Graduate, 2017 - 2018

Faz I İlaç Biyokimyası, Post Graduate, 2017 - 2018

Serbest Radikaller Ve Antioksidanlar, Under Graduate, 2016 - 2017

## Advising Theses

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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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, pp.336-345, 2018 (Journal Indexed in SCI)
- 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, pp.439-448, 2017 (Journal Indexed in SCI)
- 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, pp.83-95, 2016 (Journal Indexed in SCI)
- 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, 2015 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Van İlinin Çaldıran İlçesinde Yetişen Bazı Tıbbi Bitkilerin Toplam Fenolik ve Flavonoid Madde Miktarlarının Belirlenmesi**  
İrtem Kartal D., Eray N., Öztürk F.  
KSU JOURNAL OF AGRICULTURE AND NATURE, vol.23, pp.611-616, 2020 (Journal Indexed in ESCI)
- II. **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, pp.611-616, 2020 (Journal Indexed in ESCI)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **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 January 2020, pp.169
- II. **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 January 2020, pp.168
- III. **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
- IV. **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
- V. **In vitro Antiproliferative Activities of Rheum ribes L. Extracts 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. **"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
- XI. **Altay A., İrtem Kartal D., Celep G.S., Guray N.T., Bozoglul F.T., "Antioxidant activities 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
- XII. **Antioksidant Activities of Propolis and its Bioactive Components and Their Effects on 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 Siçanlarda 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 Siçan 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

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

## Memberships / Tasks in Scientific Organizations

ISSX, Member, 2015 - Continues

Türk Biyokimya Derneği, Member, 2007 - Continues

## Scientific Refereeing

Project Supported by Higher Education Institutions, December 2018

Cell Growth Inhibitory Potential of *Craterellus cornucopioides* (L.) Pers. Together with Antioxidant and Antimicrobial Properties, SCI Journal, April 2018

Project Supported by Higher Education Institutions, March 2018

## Citations

Total Citations (WOS):24

h-index (WOS):2

## **Scholarships**

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

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