

## Asst. Prof. Ayşe Usta

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAI-7545-2021

ScopusID: 57196420522

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### Biography

1983 yılında Denizli' de dünyaya geldi. İlk, orta ve lise eğitimini Denizli'nin Tavas ilçesinde tamamladı. 2002 yılında girdiği Afyon Kocatepe Üniversitesi Fen Edebiyat Fakültesi Kimya Bölümünden 2006 yılında mezun olduktan sonra aynı yıl Afyon Kocatepe Üniversitesi, Fen Bilimleri Enstitüsü, Organik Kimya Ana Bilim Dalı'nda Yüksek Lisans öğrenimine başladı ve 2008 yılında mezun oldu. Van Yüzüncü Yıl Üniversitesi Fen Fakültesi Kimya Bölümü'ne açılan Uzmanlık sınavını kazanarak, 2009 yılında Uzman olarak göreve başladı. Doktora eğitimine 2011'de Van Yüzüncü Yıl Üniversitesi, Sağlık Bilimleri Enstitüsü, Veteriner Biyokimya Anabilim Dalı'nda devam etti ve 2014 tarihinde mezun oldu. Halen Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Kimya Bölümü, Biyokimya Anabilim Dalı'nda Dr. Öğr. Üyesi olarak görev yapmaktadır. Evlidir ve bir çocuk annesidir.

### Education Information

Doctorate, Van Yüzüncü Yıl University, Sağlık Bilimleri Enstitüsü, Biyokimya Anabilim Dalı, Turkey 2008 - 2014

Postgraduate, Afyon Kocatepe University, Fen Bilimleri Enstitüsü, Kimya Bölümü, Turkey 2006 - 2008

Undergraduate, Afyon Kocatepe University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 2002 - 2006

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Health&Medicine, 18. Uygulamalı hücre kültürü ve moleküler biyoloji araştırmaları kursu, Atlas Biyoteknoloji, 2021

Health&Medicine, Kan ve idrar analizlerinin yorumlanması, Balıkesir Üniversitesi, 2020

Health&Medicine, Course for cell death methods, İstanbul Üniversitesi, 2013

Health&Medicine, ODTÜ biyoenformatik kursu 2013, ODTÜ/KİMYA, 2013

Health&Medicine, Temel moleküler hücre biyolojisi teknikleri, Tübitak MAM, 2013  
Health&Medicine, Deneysel hayvanları kullanım sertifikası, Ankara Üniversitesi, 2012

## Dissertations

Doctorate, Deneysel diyabetli ratlarda timokinon uygulanmasının nükleer faktör kappa B (NF-KB) ve DNA hasarı üzerine etkisi, Van Yüzüncü Yil University, Sağlık Bilimleri Enstitüsü, Biyokimya Anabilim Dalı, 2014  
Postgraduate, Tiyazol ve siklobütan halkası içeren yeni bir metakrilamit monomerinin sentezi ve kopolimerizasyonu, Afyon Kocatepe University, Fen Bilimleri Enstitüsü, Kimya, 2008

## Research Areas

Biochemistry, Health Sciences

## Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, 2018 - Continues  
Lecturer, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, 2009 - 2018

## Courses

Kan Parametrelerinin Yorumlanması ve Referans Aralıkları , Postgraduate, 2024 - 2025  
Genel Kimya Laboratuvarı, Undergraduate, 2022 - 2023  
Biyokimyada Araştırma Yöntemleri, Postgraduate, 2022 - 2023  
Chemistry, Undergraduate, 2022 - 2023  
Animal Cell Culture Techniques, Postgraduate, 2021 - 2022  
DNA Damage Analysis, Postgraduate, 2021 - 2022

## Advising Theses

Usta A., Glukokortikoid uygulanan ratlarda Chenopodium Quinoa Wild ekstratının apoptotik otofajik antioksidan ve inflamasyon markırları üzerine etkisi, Postgraduate, S.Erfidan(Student), 2020

## Jury Memberships

Post Graduate, Post Graduate, Van Yüzüncü Yil Üniversitesi, June, 2022  
Post Graduate, Post Graduate, Van Yüzüncü Yil Üniversitesi, January, 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- Phenolic contents, antioxidant activities, lcms profiles of mespilus germanica leaf extract and effects on mrna transcription levels of apoptotic, autophagic, and necrotic genes in MCF7 and A549 cancer cell lines**  
Görmez G., Yüksek V., Usta A., Dede S., Gümüş S.  
CELL BIOCHEMISTRY AND BIOPHYSICS, vol.82, no.3, pp.2141-2155, 2024 (SCI-Expanded)
- Lycopene prevents cell death in NRK-52E cells by inhibition of high glucose-activated DNA damage**

**and apoptotic, autophagic, and necrotic pathways**

Usta A., Yüksek V., Çetin S., Dede S.

JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.38, no.1, pp.1-13, 2024 (SCI-Expanded)

- III. **Vitamin D may assist the UPR against sodium fluoride-induced damage by reducing RIPK1, ATG5, BECN1, oxidative stress and increasing caspase-3 in the osteoblast MC3T3-E1 cell line.**  
Yüksek V., Dede S., Çetin S., Usta A., Taşpınar M.  
Journal of trace elements in medicine and biology : organ of the Society for Minerals and Trace Elements (GMS), vol.80, pp.127293, 2023 (SCI-Expanded)
- IV. **Effect of thymoquinone on endoplasmic reticulum (ER) stress in NRK-52e cells**  
Celebi M., Dede S., Usta A.  
Pakistan Journal of Pharmaceutical Sciences, vol.36, no.4, pp.1139-1146, 2023 (SCI-Expanded)
- V. **The Effects of Vitamin D Application on NaF-Induced Cytotoxicity in Osteoblast Cells (hFOB 1.19).**  
Dede S., Taşpınar M., Yüksek V., Çetin S., Usta A.  
Biological trace element research, vol.201, no.2, pp.698-705, 2023 (SCI-Expanded)
- VI. **The effect of quinoa (Chenopodium quinoa) on apoptotic, autophagic, antioxidant and inflammation markers in glucocorticoid-induced insulin resistance in rats**  
Erfidan S., Dede S., Usta A., Yüksek V., Çetin S.  
MOLECULAR BIOLOGY REPORTS, vol.49, no.7, pp.6509-6516, 2022 (SCI-Expanded)
- VII. **Effect of imidocarb on DNA damage in sheep with babesiosis**  
Öner A. C., Ayan A., Oruç Kılınç Ö., Usta A., Ertuş F.  
KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, vol.28, no.1, pp.115-120, 2022 (SCI-Expanded)
- VIII. **Determination of Blood Serum Protein Fractions of Calves with Clinically Diagnosed Pneumonia**  
Ekici P. T., Dede S., Yüksek V., Çetin S., Usta A.  
Indian Journal of Animal Research, vol.55, no.10, pp.1163-1166, 2021 (SCI-Expanded)
- IX. **The Effect of Lycopene on DNA Damage and Repair in Fluoride-Treated NRK-52E Cell Line.**  
Çetin S., Usta A., Yüksek V.  
Biological trace element research, vol.199, no.5, pp.1979-1985, 2021 (SCI-Expanded)
- X. **In vitro evaluation of the apoptotic, autophagic, and necrotic molecular pathways of fluoride**  
Urut F., Dede S., Yüksek V., Çetin S., Usta A., Taşpınar M.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.10, pp.3700-3706, 2020 (SCI-Expanded)
- XI. **The effect of vitamin E and selenium combination in repairing fluoride-induced DNA damage to NRK-52E cells.**  
Yüksek V., Çetin S., Usta A.  
Molecular biology reports, vol.47, no.10, pp.7761-7770, 2020 (SCI-Expanded)
- XII. **DNA damage-induced by sodium fluoride (NaF) and the effect of cholecalciferol**  
Yüksek V., Dede S., Usta A., Çetin S., Taşpınar M.  
BIOCELL, vol.44, no.2, pp.263-268, 2020 (SCI-Expanded)
- XIII. **In vitro Evaluation of Thymoquinone and Lycopene Supplementation on Oxidative DNA Damage and Oxidant Status in High Glucose Conditions**  
Dede S., Yur F., Taşpınar M., Çetin S., Usta A., Yüksek V.  
LATIN AMERICAN JOURNAL OF PHARMACY, vol.38, no.1, pp.209-212, 2019 (SCI-Expanded)
- XIV. **The Effect of Thymoquinone on Nuclear Factor Kappa B Levels and Oxidative DNA Damage on Experimental Diabetic Rats**  
Usta A., Dede S.  
PHARMACOGNOSY MAGAZINE, vol.13, no.51, 2017 (SCI-Expanded)
- XV. **Therapeutic potential of boric acid and borax: dietary approaches for cancer prevention**  
Oto G., Yıldırım S., Dede S., Özdemir H., Yener Z., Usta A.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.3, pp.2262-2270, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Determination of the effect of thymoquinone on DNA damage in kidney cells applied to high glucose depending on time and dosage by comet assay**  
Usta A., Dede S., Yüksek V., Öner A. C.  
Turkish Journal of Agriculture - Food Science and Technology, vol.12, no.7, pp.10-15, 2024 (Peer-Reviewed Journal)
- II. **In vitro evaluation of glutathione implementation on oxidative DNA damage and oxidant status in high glucose conditions**  
Yur F., Dede S., Çetin S., Taşpınar M., Usta A.  
Eurasian Journal of Veterinary Sciences, vol.38, no.4, pp.242-247, 2022 (Peer-Reviewed Journal)
- III. **Comparison of serum protein fractions in calves showing diarrhea and healthy calves**  
Usta A., Çetin S., Yüksek V., Ekici P., Dede S.  
Erciyes Üniversitesi Veteriner Fakültesi Dergisi, vol.18, no.2, pp.89-95, 2021 (Peer-Reviewed Journal)
- IV. **Effect of vitamins C and E on inflammation gene expression in kidney tissue of rats with experimental fluorosis**  
Usta A., Öner A. C., Yüksek V., Dede S., Çetin S.  
Van Sağlık Bilimleri Dergisi, vol.14, no.2, pp.199-208, 2021 (Peer-Reviewed Journal)
- V. **In vitro evaluation of the effect of glutathione on caspase system and oxidative DNA damage in high glucose condition**  
Yaycı G., Dede S., Çetin S., Usta A., Yüksek V.  
Eskişehir Teknik Üniversitesi Bilim ve Teknoloji Dergisi C- yaşam Bilimleri ve Biyoteknoloji (Online), vol.10, no.2, pp.132-137, 2021 (Peer-Reviewed Journal)
- VI. **Investigation of the effect of vitamin C and vitamin E on serum protein fractions in experimentally induced fluorosis rats**  
Dede S., Öner A. C., Yüksek V., Çetin S., Usta A.  
Kocatepe Veterinary Journal, vol.14, no.2, pp.262-267, 2021 (Peer-Reviewed Journal)
- VII. **Serum protein fraction profile in sheep infected with sarcoptes ovis**  
Çetin S., Usta A., Tanrıtanır P., Dede S., Yüksek V.  
Ataturk Üniversitesi Veteriner Bilimleri Dergisi, vol.15, no.1, pp.70-75, 2020 (Scopus)
- VIII. **Effect of lycopene administration on necrotic gene expression in renal epithelial cell line (NRK-52E) exposed to sodium fluoride**  
Çetin S., Yüksek V., Dede S., Usta A., Taşpınar M.  
Turkish Journal of Veterinary Research (Online), vol.4, no.2, pp.45-49, 2020 (Peer-Reviewed Journal)
- IX. **In vitro evaluation of the effect of vitamin C on necrosis and autophagy caused by ionizing radiation**  
Dede S., Yüksek V., Yılmaz O., Çetin S., Usta A., Güney M.  
Avrasya Sağlık Bilimleri Dergisi, vol.2, no.4, pp.169-172, 2019 (Peer-Reviewed Journal)
- X. **The effect of thymoquinone treatment on total oxidant and total antioxidant level in experimental diabetic rats**  
Usta A., Dede S., Çetin S.  
Ataturk Üniversitesi Veteriner Bilimleri Dergisi, vol.13, no.1, pp.84-91, 2018 (Scopus)
- XI. **The effect of thymoquinone on serum antioxidant vitamin levels in diabetic rats**  
Usta A., Dede S., Yörük İ. H.  
Turkish Journal of Veterinary Research (Online), vol.2, no.1, pp.26-33, 2018 (Peer-Reviewed Journal)
- XII. **Effect of some vitamins on antioxidant/prooxidant parameters in sodium fluoride (NaF)-treated cell line (hFOB 1.19)**  
Yüksek V., Çetin S., Usta A., Kömüroğlu A. U., Dede S.  
Turkish Journal of Veterinary Research (Online), vol.1, no.1, pp.1-6, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **NF-κB'nin önemi ve diyabetle ilişkisi**  
Usta A.  
in: SAĞLIK BİLİMLERİNDE GÜNCEL BAŞLIKLAR - IV, Doç. Dr. Adnan AYAN Dr. Öğr. Üyesi Ahmet Cihat ÖNER, Editor, İksad Yayınevi, Ankara, pp.47-70, 2023
- II. **The effect of antioxidant vitamins on necrotic genes in the liver tissues of fluorotic rats**  
Öner A. C., Usta A.  
in: Sağlık Bilimlerinde Güncel Başlıklar III, Doç. Dr. Adnan AYAN, Doç. Dr. Osman YILMAZ, Doç. Dr. Özlem ORUNÇ KILINÇ, Dr. Öğr. Ü. Ahmet Cihat ÖNER, Editor, İksad Yayınevi, Ankara, pp.49-62, 2022

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of fluorine application and vitamin D supplementation on Tp53 gene expression in human bone cells**  
Usta A., Dede S., Yüksek V.  
Van Yuzuncu Yil University 3rd International Health Sciences Congress (3.VUSAK-2024), Van, Turkey, 12 - 13 December 2024, vol.1, no.20, pp.50-51
- II. **Effect of quinoa seed on endoplasmic reticulum stress gene Xbp1 expression in insulin-resistant rat liver**  
Usta A., Dede S., Yüksek V.  
6th International Conference on Applied Engineering and Natural Sciences - 6.ICAENS 2024, Konya, Turkey, 25 - 26 September 2024, vol.1, no.196, pp.10-11
- III. **Tnfa and IL-1b expression level in testicular tissue of rats administered coenzyme-Q10 with cyclophosphamide**  
Yüksek V., Dede S., Usta A., Koşal V.  
13th International Istanbul Scientific Research Congress, İstanbul, Turkey, 1 - 03 October 2024, vol.1, no.156, pp.13-14
- IV. **Effect of thymoquinone on serum vitamin A and E levels in glucocorticoid-induced insulin resistance**  
Dede S., Yörük İ. H., Yüksek V., Usta A.  
3rd International Conference on Frontiers in Academic Research (3.ICFAR 2024), Konya, Turkey, 15 - 16 June 2024, vol.1, pp.1208-1214
- V. **Cytotoxicity evaluation of Silybum marianum extract and silymarin molecule: mtt assay**  
Yüksek V., Usta A., Denk R.  
3rd International Veterinary Biochemistry and Clinical Biochemistry Congress (3.VBCB-2024), Van, Turkey, 23 - 25 May 2024, vol.1, no.22, pp.14-15
- VI. **Investigation of the time between induction and parturition in ewes with induced parturition**  
Çetin N., Taşal İ., Şendağ S., Usta A.  
3rd International Veterinary Biochemistry and Clinical Biochemistry Congress (3.VBCB-2024), Van, Turkey, 23 - 25 May 2024, vol.1, no.21, pp.12-13
- VII. **Effects of sodium fluoride applied to kidney cells on the renin angiotensin system**  
Usta A., Dede S., Yüksek V.  
3rd International Veterinary Biochemistry and Clinical Biochemistry Congress (3.VBCB-2024), Van, Turkey, 23 - 25 May 2024, vol.1, no.20, pp.10-11
- VIII. **Effect of thymoquinone on DNA double strand repair mechanism in kidney cells**  
Yüksek V., Dede S., Usta A.  
2nd International Conference on Recent Academic Studies (ICRAS 2023), Konya, Turkey, 19 - 20 October 2023, vol.1, no.11, pp.259-261
- IX. **Effect of thymoquinone on Pi3k and Akt1 gene expression in kidney cells depending on time and concentration**

Usta A., Yüksek V., Dede S.

6. International Food, Agriculture and Veterinary Sciences Congress (GTHK-2023), Ganca, Azerbaijan, 22 - 23 September 2023, vol.1, no.1, pp.49-53

- X. **Effect of TQ on liver tissue TNF- $\alpha$  and IL-1 $\beta$  gene expression in experimental insulin resistance**  
Dede S., Usta A., Yüksek V., Göktuğ H. B.  
1st International Conference on Modern and Advanced Research - (1.ICMAR-2023), Konya, Turkey, 29 - 31 July 2023, vol.1, no.175, pp.364-369
- XI. **The effect of magnesium administration on IL-1B gene expression in sodium fluoride-induced kidney cell line**  
Çetin S., Dede S., Usta A., Yüksek V.  
5th International Eurasian Conference on Biological and Chemical Sciences - (5.EurasianBioChem-2022), Ankara, Turkey, 23 - 25 November 2022, vol.1, no.74, pp.86
- XII. **Medicinal plant mespilus germanica L. extract increases tumor suppressor p53 protein expression in mcf-7 cell series**  
Görmez G., Yüksek V., Usta A., Dede S.  
Van Yuzuncu Yil University 1st International Health Sciences Congress - (1.Vusak-2022), Van, Turkey, 27 - 29 October 2022, vol.1, no.1, pp.45
- XIII. **The effect of antioxidant vitamins on necrotic genes in the liver tissues of fluorotic rats**  
Öner A. C., Usta A.  
Van Yuzuncu Yil University 1st International Health Sciences Congress - (1.Vusak-2022), Van, Turkey, 27 - 29 October 2022, vol.1, no.4, pp.24
- XIV. **Effect of administration of sodium fluoride in different concentrations on Gpx1 gene expression in NRK-52E cell**  
Usta A., Yüksek V., Çetin S., Dede S.  
10th International Medical and Health Sciences Research Congress (10.UTSAK-2022), Ankara, Turkey, 27 - 28 August 2022, vol.1, no.1, pp.621-622
- XV. **Effects of NaF on IL-1 $\beta$  gene expression depending on concentrations**  
Dede S., Usta A., Yüksek V., Çetin S.  
XXXVTH Conference of the International Society for Fluoride Research (35.ISFR-2022), Harbin, China, 28 - 31 July 2022, vol.1, no.1, pp.61-62
- XVI. **The effect of thymoquinone at proliferative and toxic doses on Ripk1 gene expression in kidney cells**  
Usta A., Yüksek V., Dede S.  
2. International Congress on Biological and Health Sciences (2.ICBH-2022), Afyonkarahisar, Turkey, 24 - 27 February 2022, vol.1, no.97, pp.127
- XVII. **Effect of lycopene on TNF- $\alpha$  gene expression in high glucose-treated NRK-52E cells**  
Usta A., Yüksek V., Çetin S., Dede S.  
4th International Eurasian Conference on Biological and Chemical Sciences (4.EurasianBioChem-2021), Ankara, Turkey, 24 - 26 November 2021, vol.1, no.1, pp.14
- XVIII. **Effect of antioxidant vitamins on inflammation in rat liver tissue with fluorosis**  
Usta A., Öner A. C.  
6th International Congress on Veterinary and Animal Sciences (6.ICVAS-2021), Hatay, Turkey, 2 - 04 September 2021, pp.117-118
- XIX. **The effect of thymoquinone in proliferative concentration on the TP53 gene expression level in NRK-52E cell line**  
Yüksek V., Çetin S., Usta A., Dede S.  
International Eurasian Conference on Biotechnology and Biochemistry (1.BioTechBioChem-2020), Ankara, Turkey, 16 - 18 December 2020, vol.1, pp.167
- XX. **The effect of quinoa (chenopodium quinoa willd) on necrotic cell death in rats with insülin resistance**  
Usta A., Dede S., Yüksek V., Çetin S.  
9.International Moleculer Biology and Biotechnology Congress (9.Molbiotech-2020), Kars, Turkey, 6 - 10

December 2020, vol.1, pp.60

- XXI. **The effect of lycopene onto apoptotic pathway caused by NaF**  
Yüksek V., Çetin S., Usta A., Dede S., Taşpınar M.  
2.Medicine and Health Sciences Researches Congress (2.UTSAK-2019), Şanlıurfa, Turkey, 1 - 03 November 2019, vol.1, no.11, pp.473-481
- XXII. **Effect of vitamin E and selenium on necrotic cell death in fluorine toxicity**  
Usta A., Yüksek V., Çetin S., Dede S.  
2nd Eurasia Biochemical Approaches & Technologies (2.EBAT-2019) Congress, Antalya, Turkey, 26 - 29 October 2019, vol.1, no.12, pp.22
- XXIII. **The effect of lycopene on autophagy in fluoride toxicity in kidney cells**  
Usta A., Yüksek V., Çetin S., Dede S.  
XXVII. Balkan Clinical Laboratory Federation Meeting (27.BCLF-2019) / National Congress of the Turkish Biochemical Society (TBS-2019) Congress, Antalya, Turkey, 26 - 31 October 2019, vol.44, no.3, pp.45
- XXIV. **The in vitro evaluation of molecular basis of fluoride toxication**  
Dede S., Urut F., Taşpınar M., Yüksek V., Çetin S., Usta A.  
AfricaMedLab-2019, Marrakush, Morocco, 25 - 28 September 2019, pp.265
- XXV. **Determination of blood serum fractions of caves with clinically diagnosed pneumonia**  
Ekici P., Dede S., Yüksek V., Çetin S., Usta A.  
AfricaMedLab-2019, Marrakush, Morocco, 25 - 28 September 2019, pp.137
- XXVI. **Investigation of oxidative mechanisms in kidney tissue of sheep with fluorosis**  
Bingöl N. T., Efe U., Dede S., Yüksek V., Çetin S., Usta A., Taşpınar M.  
AfricaMedLab-2019, Marrakush, Morocco, 25 - 28 September 2019, pp.137
- XXVII. **The impact of lycopene on necrotic pathway in fluoride applied kidney epithelial cell line**  
Çetin S., Yüksek V., Usta A., Dede S., Taşpınar M.  
1st International Congress of The Turkic World on Health and Natural Sciences (1.ITRCHSNSC-2019), Osh, Kyrgyzstan, 21 - 24 April 2019, vol.1, no.1, pp.155-156
- XXVIII. **Diplotaenia turcica's effect on liveliness on the NRK-52E cell line in different concentrations and periods**  
Çetin S., Yüksek V., Dede S., Usta A., Özdek U.  
1. Euroasia Biochemical Approaches & Technologies Congress (1.EBAT-2018), Antalya, Turkey, 27 - 30 October 2018, vol.1, no.1, pp.55
- XXIX. **Investigation of necrotic genes of sodium fluoride (NaF) in renal cell line**  
Urut F., Dede S., Yüksek V., Çetin S., Usta A., Taşpınar M.  
26th Meeting of Balkan Clinical Laboratory Federation (26.BCLF-2018), Skopje, Macedonia, 3 - 05 October 2018, pp.30
- XXX. **The determination of serum protein fractions in calves with neonatal diarrhea**  
Usta A., Çetin S., Yüksek V., Ekici P., Dede S.  
1st International GAP agriculture and livestock Congress (1.UGAP-2018), Şanlıurfa, Turkey, 25 - 27 April 2018, vol.1, no.1, pp.448
- XXXI. **Determination of vitamin D3 effect on DNA damage in sodium fluoride induced kidney cells by comet assay method**  
Yüksek V., Dede S., Usta A., Çetin S., Taşpınar M.  
1st International Veterinary Biochemistry and Clinical Biochemistry Congress (1.VBCB-2018), Hatay, Turkey, 12 - 15 April 2018, vol.1, no.1, pp.46-47
- XXXII. **The determination of the effect of thymoquinone on the DNA damage in the high glucose applied cell with the comet assay**  
Usta A., Dede S., Yüksek V., Öner A. C.  
1st International Veterinary Biochemistry and Clinical Biochemistry Congress (1.VBCB-2018), Hatay, Turkey, 12 - 15 April 2018, vol.1, no.1, pp.124-125
- XXXIII. **The effect of lycopene on oxidative DNA damage and antioxidant system on high glucose treated renal cell line**

Dede S., Yur F., Taşpınar M., Çetin S., Usta A., Yüksek V.

1st International Veterinary Biochemistry and Clinical Biochemistry Congress (1.VBCB-2018), Hatay, Turkey, 12 - 15 April 2018, vol.1, no.1, pp.217-218

**XXXIV. The effect of certain vitamins on antioxidant/prooxidant balance in fluoride administered osteoblast cell lines**

Yüksek V., Usta A., Dede S., Çetin S., Taşpınar M., Kömüroğlu A. U.

International Biochemistry Congress – 2017 /28 th National Biochemistry Congress (TurkJBiochem-2017), Erzurum, Turkey, 19 - 23 September 2017, vol.42, no.1, pp.35

**XXXV. The effect of some minerals on total oxidant / antioxidant status in sodium fluoride (NaF) administered renal cell line**

Kömüroğlu A. U., Çetin S., Yur F. G., Dede S., Yüksek V., Usta A.

International Biochemistry Congress – 2017 /28 th National Biochemistry Congress (TurkJBiochem-2017), Erzurum, Turkey, 19 - 23 September 2017, vol.42, no.1, pp.41

**XXXVI. The effect of certain minerals on the total oxidant/antioxidant system in sodium fluoride (NaF) induced osteoblast cell line**

Çetin S., Kömüroğlu A. U., Yur F. G., Taşpınar M., Usta A., Yüksek V.

International Biochemistry Congress – 2017 /28 th National Biochemistry Congress (TurkJBiochem-2017), Erzurum, Turkey, 19 - 23 September 2017, vol.42, no.1, pp.36

**XXXVII. The effects of glutathione application on oxidative DNA damage and antioxidant system in glucose-added renal cell line**

Yur F. G., Dede S., Taşpınar M., Usta A., Çetin S.

International Biochemistry Congress–2017 /28 th National Biochemistry Congress (TurkJBiochem-2017), Erzurum, Turkey, 19 - 23 September 2017, vol.42, no.1, pp.51

**XXXVIII. Antioxidant / prooxide balance effect of vitamins C and E in the relation of NRK-52 E cell applied sodium fluoride**

Usta A., Yüksek V., Dede S., Kömüroğlu A. U., Çetin S.

International Biochemistry Congress – 2017 /28 th National Biochemistry Congress (TurkJBiochem-2017), Erzurum, Turkey, 19 - 23 September 2017, vol.42, no.1, pp.41

**XXXIX. Effect of thymoquinone administration on tissue total oxidant/antioxidant status in diabetic rats**

Usta A., Dede S., Çetin S.

8. Ulusal Veteriner Biyokimya ve Klinik Biyokimya Kongresi (8.Vetbiyokimya-2016), Bursa, Turkey, 22 - 24 September 2016, vol.1, no.1, pp.86-87

**XL. Effects of thymoquinone on oxidative DNA damage and antioxidant system in kidney cell line treated with high glucose**

Dede S., Yur F. G., Taşpınar M., Çetin S., Usta A., Yüksek V.

8. Ulusal Veteriner Biyokimya ve Klinik Biyokimya Kongresi (8.Vetbiyokimya-2016), Bursa, Turkey, 22 - 24 September 2016, vol.1, no.1, pp.164-165

**XLI. The effect of thymoquinone on antioxidant vitamin levels in experimental diabetic rats**

Usta A., Dede S., Yörük İ. H.

6th World Congress of Oxidative Stress, Calcium Signaling and TRP Channels (6.CMOS-2016), Isparta, Turkey, 24 - 27 May 2016, vol.8, no.1, pp.574-575

**XLII. The effect of thymoquinone treatment on nuclear factor kappa B (NfKB) and DNA damage on experimental diabetic rats**

Usta A., Dede S.

23rd meeting of the Balkan Clinical Laboratory Federation (23.BCLF-2015), Sarajevo, Bosnia And Herzegovina, 7 - 09 October 2015, vol.22, no.1, pp.23

**XLIII. Effects of boric acid and borax therapy on DNA damage, lipid peroxidation and antioxidant system at benzo(a)pyrene and 3-methylcholanthrene administered rats**

Oto G., Yıldırım S., Dede S., Özdemir H., Yener Z., Usta A., Taşpınar M.

9th International Liver Cancer Association Annual Conference (9.ILCA-2015), Paris, France, 4 - 06 September 2015, vol.1, no.1, pp.59

## Supported Projects

Tan Uygun M., Yüksek V., Akyol M. E., Mengeş N., Usta A., Kuzu B., Project Supported by Higher Education Institutions, Yeni tür pirolo[1,2-a]pirazin türevlerinin in vitro ve in vivo çalışmalarıyla Glioblastoma için yeni aday molekülerinin belirlenmesi, 2022 - 2024

Usta A., Dede S., Yüksek V., Çetin S., Project Supported by Higher Education Institutions, Yüksek glukoz uygulanan böbrek hücre hattında Nigella sativa ve timokinonun glukoz metabolizması üzerine etkisinin karşılaştırılması, 2020 - 2023

Yüksek V., Çetin S., Dede S., Usta A., Taşpınar M., Project Supported by Higher Education Institutions, Vitamin D'nin Sodyum Florür (NaF) ile İndüklenen Oksidatif ve Endoplazmik Strese Etkilerinin Aydınlatılması, 2019 - 2022

Çetin S., Yüksek V., Dede S., Usta A., Taşpınar M., Project Supported by Higher Education Institutions, Osteoblast Hücre Hattında Sodyum Florür (NaF) ile İndüklenen Sitotoksik Mekanizmasının İncelenmesi Al ve Mg'nin Koruyucu Etkisinin Belirlenmesi, 2019 - 2022

Dede S., ERFİDAN S., Usta A., Project Supported by Higher Education Institutions, Glukokortikoid uygulanan ratlarda Chenopodium Quinoa Wild ekstrasının apoptotik otofajik antioksidan ve inflamasyon markırları üzerine etkisi, 2019 - 2020

Usta A., Yüksek V., Çetin S., Project Supported by Higher Education Institutions, Yüksek glukozlu ortamda oksidatif stres yolu ile oluşan hücre ölümleri üzerine likopenin rolü, 2018 - 2019

Yüksek V., Çetin S., Usta A., Project Supported by Higher Education Institutions, Yüksek Konsantrasyonda Sodyum Florür (NaF) Uygulamasının Böbrek Hücrelerinde Oluşturduğu DNA Hasarına Karşı Vitamin E+Se Uygulamasının Etkisinin Araştırılması, 2018 - 2019

Çetin S., Usta A., Yüksek V., Project Supported by Higher Education Institutions, Sitotoksik konsantrasyonlarda sodyum florür (NaF) uygulanmış böbrek hücre hattında genotoksik hasara karşı likopenin etkisinin comet assay yöntemi ile belirlenmesi, 2018 - 2019

Yur F., Dede S., Çetin S., Usta A., Taşpınar M., Project Supported by Higher Education Institutions, Glukoz uygulanmış böbrek hücre hattında glutatyon uygulamasının oksidatif DNA Hasarı ve antioksidan sistem üzerine etkileri, 2013 - 2016

Dede S., Yüksek V., Çetin S., Usta A., YUR F., Taşpınar M., Project Supported by Higher Education Institutions, Yüksek glukoz uygulanmış böbrek hücre hattında timokinon ve likopenin oksidatif DNA Hasarı ve antioksidan sistem üzerine etkileri, 2013 - 2016

Dede S., Usta A., Project Supported by Higher Education Institutions, Deneysel Diyabetli Ratlarda Timokinon Uygulanmasının Nükleer Faktör Kappa B (NF-B) ve DNA Hasarı Üzerine Etkisi, 2013 - 2014

## Memberships / Tasks in Scientific Organizations

TÜRK BİYOKİMYA DERNEĞİ, Member, 2017 - Continues

## Scientific Refereeing

Human Nutrition & Metabolism, Journal Indexed in SCI-E, October 2024

Aquaculture, Journal Indexed in SCI-E, September 2024

TOXICOLOGY MECHANISMS AND METHODS, Journal Indexed in SCI-E, September 2024

Research Project To Be Started., YUHADYEK, Van Yüzüncü Yil University, Turkey, September 2024

Project Supported by Higher Education Institutions, BAP Research Project, Afyon Kocatepe University, Turkey, April 2024

Project Supported by Other Official Institutions, Van Yüzüncü Yil University, Turkey, January 2024

Completed Research Project, HAYVAN DENEYLERİ YEREL ETİK KURULU, Van Yüzüncü Yil University, Turkey, January 2024

Project Supported by Other Official Institutions, Van Yüzüncü Yil University, Turkey, September 2023

Yuzuncu Yil University Journal of Agricultural Sciences, National Scientific Refreed Journal, June 2023

PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, Journal Indexed in SCI-E, April 2023

PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, Journal Indexed in SCI-E, April 2023  
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, Journal Indexed in SCI-E, February 2023  
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, Journal Indexed in SCI-E, February 2023  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, February 2023  
Research Project To Be Started., YUHADYEK, Van Yüzüncü Yil University, Turkey, February 2023  
Project Supported by Other Official Institutions, Van Yüzüncü Yil University, Turkey, December 2022  
Yuzuncu Yil University Journal of Agricultural Sciences, National Scientific Refreed Journal, November 2022  
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, Journal Indexed in SCI-E, April 2022  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, April 2022  
BIOLOGICAL TRACE ELEMENT RESEARCH, Journal Indexed in SCI-E, August 2021  
Journal of the Institute of Science and Technology, National Scientific Refreed Journal, July 2021  
Project Supported by Higher Education Institutions, BAP Research Project, Afyon Kocatepe University, Turkey, July 2021  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, February 2021  
Journal of the Institute of Science and Technology, National Scientific Refreed Journal, November 2020  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, October 2020  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, April 2020  
Research Project To Be Started., Hayvan Deneyleleri Yerel Etik Kurulu, Van Yüzüncü Yil University, Turkey, October 2019  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, June 2019  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, June 2019  
Completed Research Project, YUHADYEK, Van Yüzüncü Yil University, Turkey, June 2019  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, April 2019  
Research Project To Be Started., VAN YUHADYEK, Van Yüzüncü Yil University, Turkey, September 2018  
Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, March 2018

## **Metrics**

Publication: 72  
Citation (WoS): 67  
Citation (Scopus): 71  
H-Index (WoS): 5  
H-Index (Scopus): 6

## **Congress and Symposium Activities**

Van Yuzuncu Yil University 3rd International Health Sciences Congress (3.VUSAK-2024), Attendee, Van, Turkey, 2024  
6th International Conference on Applied Engineering and Natural Sciences (6. ICAENS - 2024), Attendee, Konya, Turkey, 2024  
3rd International Veterinary Biochemistry and Clinical Biochemistry Congress (3.VBCB-2024), Attendee, Van, Turkey, 2024  
6. International Food, Agriculture and Veterinary Sciences Congress (6.GTHK-2023), Attendee, Ganca, Azerbaijan, 2023

10th International Medical and Health Sciences Research Congress (10.UTSAK-2022), Attendee, Ankara, Turkey, 2022  
2. International Congress on Biological and Health Sciences (2.ICBH-2022), Attendee, Afyonkarahisar, Turkey, 2022  
4th International Eurasian Conference on Biological and Chemical Sciences (4.EurasianBioChem-2021), Attendee, Ankara, Turkey, 2021  
6th International Congress on Veterinary and Animal Sciences (6.ICVAS-2021), Attendee, Hatay, Turkey, 2021  
9. International Molecular Biology and Biotechnology Congress (9.Molbiotech-2020), Attendee, Kars, Turkey, 2020  
2nd Eurasia Biochemical Approaches & Technologies Congress (2.EBAT-2019), Attendee, Antalya, Turkey, 2019  
XXVII. Balkan Clinical Laboratory Federation Meeting (BCLF 2019) / National Congress of the Turkish Biochemical Society (TBS 2019) Congress (27.BCLF-2019), Attendee, Antalya, Turkey, 2019  
1st International GAP agriculture and livestock Congress (1.UGAP 2018), Attendee, Şanlıurfa, Turkey, 2018  
1st International Veterinary Biochemistry and Clinical Biochemistry Congress (1.IVBCB-2018), Attendee, Hatay, Turkey, 2018  
International Biochemistry Congress – 2017 /28 th National Biochemistry Congress (TurkJBiochem-2017), Attendee, Erzurum, Turkey, 2017  
8. Ulusal Veteriner Biyokimya ve Klinik Biyokimya Kongresi (8.Vetbiyokimya-2016), Attendee, Bursa, Turkey, 2016  
6th World Congress of Oxidative Stress, Calcium Signaling and TRP Channels (6.CMOS-2016), Attendee, Isparta, Turkey, 2016