

## Prof. Dr. Hasan TÜRKEZ

### Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAQ-4905-2020

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Yoksis Araştırmacı ID: 43649

### Eğitim Bilgileri

Doktora, Università Degli Studi "G. D'annunzio, Chieti, Department of Pharmacy, Pharmaceutical and Biomolecular science, İtalya 2013 - 2017

Doktora, Atatürk Üniversitesi, Fen Fakültesi, Biyoloji, Türkiye 2004 - 2007

### Sertifika, Kurs ve Eğitimler

Sağlık ve Tıp, MICROARRAY ANALYSIS, MACROGEN, 2016

### Yaptığı Tezler

Doktora, NOVEL GLYCINE-PROLINE-GLUTAMATE TRIPEPTIDEDERIVATIVES AND HISTIDYL-PROLINE DIKETOPIPERAZINEISOMERS FOR TREATMENT OF ALZHEIMER'S DISEASE, Università Degli Studi "G. D'annunzio, Chieti, 2017

Doktora, Bazı bor bileşiklerinin in vitro şartlarda periferel insan kanı üzerine genetik ve biyokimyasal etkileri, Atatürk Üniversitesi, 2007

### Araştırma Alanları

Tıp, Biyokimya, Biyoinformatik, Moleküler Biyoloji ve Genetik, Nörobiyoloji, Sağlık Bilimleri

### Akademik Unvanlar / Görevler

Prof. Dr., Atatürk Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 2020 - Devam Ediyor

Prof. Dr., Erzurum Teknik Üniversitesi, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2016 - 2020

### Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Atatürk Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 2020 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Erzurum Teknik Üniversitesi, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2015 - 2020  
Enstitü Müdürü, Erzurum Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2013 - 2016  
Bölüm Başkanı, Erzurum Teknik Üniversitesi, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2012 - 2016  
Dekan Yardımcısı, Erzurum Teknik Üniversitesi, Fen Fakültesi, 2012 - 2015

## Yönetilen Tezler

Türkez H., İminodiasetik asidin In vitro ve In vivo anti-alzheimer potansiyelinin değerlendirilmesi, Yüksek Lisans, T.GEZMİŞ(Öğrenci), 2019  
Türkez H., Deneysel Parkinson modelinde bor nitrür nanopartiküllerinin nöroprotektif etkilerinin değerlendirilmesi, Yüksek Lisans, R.KÜÇÜKDOĞRU(Öğrenci), 2019  
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Türkez H., Karvakrol türevlerinin glioblastoma tedavisinde kullanım potansiyellerinin değerlendirilmesi, Yüksek Lisans, A.ÖZDEMİR(Öğrenci), 2015  
Türkez H., Monosiklik ve bisiklik monoterpen uygulamasının deneysel beyin tümör modeli üzerine potansiyel etkilerinin in vitro yöntemlerle araştırılması, Doktora, E.AYDIN(Öğrenci), 2013  
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Türkez H., Usnik asit bileşiğinin in vitro koşullarda risk değerlendirmesi, Yüksek Lisans, Z.POLAT(Öğrenci), 2013  
Türkez H., Biyomedikal teknolojilerde kullanım potansiyeli olan bazı nanomateryallerin in vitro biyoyumluluklarının araştırılması, Doktora, G.BUĞRA(Öğrenci), 2013  
Türkez H., Wintergreen yağının antitümorojenik ve sitotoksik etkilerinin araştırılması, Yüksek Lisans, K.ÇELİK(Öğrenci), 2012  
Türkez H., Erzurum ve Artvin illerinde tespit edilen bazı liken türlerinin sitogenetik ve oksidatif etkilerinin araştırılması, Yüksek Lisans, E.AYDIN(Öğrenci), 2011  
Türkez H., İn vitro şartlarda kadmiyumun oluşturduğu genetik ve oksidatif hasara karşı Dermatocarpon intestiniforme (liken) ekstrelerinin etkisi, Yüksek Lisans, A.GÜNER(Öğrenci), 2011  
Türkez H., Bazı atipik antipsikotik ilaçların gentoksik etki potansiyellerinin tek hücre jel elektroforez ve mikroçekerdek yöntemleriyle araştırılması, Yüksek Lisans, B.TOĞAR(Öğrenci), 2010

## Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Atatürk Üniversitesi, Eylül, 2021

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Multi-omics analysis reveals the key factors involved in the severity of the Alzheimer's disease**  
Meng L., Jin H., Yulug B., Altay O., Li X., HANOĞLU L., Cankaya S., Coskun E., Idil E., Nogaylar R., et al.  
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- II. **Novel tetrahydronaphthalen-1-yl-phenethyl ureas: synthesis and dual antibacterial-anticancer activities**  
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JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, cilt.39, sa.1, ss.2286925-0, 2024 (SCI-Expanded)
- III. **Boric Acid and Borax Protect Human Lymphocytes from Oxidative Stress and Genotoxicity Induced by 3-Monochloropropane-1,2-diol**  
Türkez H., Tozlu O. O., Arslan M. E., Baba C., Saracoglu M. M., Yıldız E., Tatar A., Mardinoglu A.  
Biological Trace Element Research, cilt.202, sa.11, ss.5006-5016, 2024 (SCI-Expanded)
- IV. **Unveiling the Molecular Mechanisms of Glioblastoma through an Integrated Network-Based Approach**  
Kaynar A., Kim W., Ceyhan A. B., Zhang C., Uhlén M., TÜRKEZ H., Shoaie S., Mardinoglu A.  
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- V. **Design and evaluation of novel inhibitors for the treatment of clear cell renal cell carcinoma**  
Bouzian Y., El Hafi M., Parvizi N., Kim W., Subasioglu M., Ozcan M., TÜRKEZ H., Mardinoglu A.  
BIOORGANIC CHEMISTRY, cilt.151, 2024 (SCI-Expanded)
- VI. **Synthesis, spectroscopic characterization, DFT and molecular docking of N-(3-cyano-4,5,6,7-tetrahydrobenzo[b]thiophen-2-yl) naphthalene-1-sulfonamide derivatives**  
Ashraf S., Iqbal S., Sebhaoui J., Ozcan M., Kim W., Belmen B., Yeşilyurt G., Hanashalshahaby E., Zhang C., Uhlen M., et al.  
Journal of Molecular Structure, cilt.1312, 2024 (SCI-Expanded)
- VII. **Discovery of a Therapeutic Agent for Glioblastoma Using a Systems Biology-Based Drug Repositioning Approach**  
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- VIII. **Discovery of Cell-Permeable Allosteric Inhibitors of Liver Pyruvate Kinase: Design and Synthesis of Sulfone-Based Urolithins**  
Iqbal S., Islam M. Z., Ashraf S., Kim W., AL-Sharabi A. A., Ozcan M., Hanashalshahaby E., Zhang C., Uhlen M., Boren J., et al.  
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- IX. **Borax attenuates oxidative stress, inflammation, and apoptosis by modulating Nrf2/ROS balance in acrylamide-induced neurotoxicity in rainbow trout**  
TÜRKEZ H., ALAK G., ÖZGERİŞ F. B., Cilingir Yeltekin A., UÇAR A., PARLAK V., Sutan N. A., ATAMANALP M.  
DRUG AND CHEMICAL TOXICOLOGY, 2024 (SCI-Expanded)
- X. **Combined Metabolic Activators with Different NAD<sup>+</sup> Precursors Improve Metabolic Functions in the Animal Models of Neurodegenerative Diseases**  
Altay O., Yang H., YILDIRIM S., BAYRAM C., BOLAT İ., Oner S., Tozlu O. O., Arslan M. E., HACİMÜFTÜOĞLU A., Shoaie S., et al.  
Biomedicines, cilt.12, sa.4, 2024 (SCI-Expanded)
- XI. **Unveiling structural features, chemical reactivity, and bioactivity of a newly synthesized purine derivative through crystallography and computational approaches**  
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JOURNAL OF MOLECULAR STRUCTURE, cilt.1311, ss.138400-138418, 2024 (SCI-Expanded)
- XII. **In Vitro Cytotoxic, Genotoxic, Embryotoxic and Oxidative Damage Potentials by Empagliflozin**

Kenan Cadirci C., TÜRKEZ H., Tozlu O. O., YAPÇA Ö. E., Bayrak M., Emsen B., Mardinoglu A.  
Biology Bulletin, cilt.51, sa.2, ss.243-250, 2024 (SCI-Expanded)

- XIII. **Mitigating roles by Ulexite against acetylerrocene-induced hematotoxicity, hepatotoxicity, genotoxicity and oxidative stress in *Oncorhynchus mykiss***  
UÇAR A., PARLAK V., ÇAĞLAR Ö., Yeltekin A. Ç., ÖZGERİŞ F. B., TÜRKEZ H., ALAK G., ATAMANALP M.  
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- XIV. **Modulatory role ulexit against thiamethoxam-induced hematotoxicity/hepatotoxicity oxidative stress and immunotoxicity in *Oncorhynchus mykiss***  
UÇAR A., Günay A., PARLAK V., Yeltekin A. Ç., ÖZGERİŞ F. B., TÜRKEZ H., ALAK G., ATAMANALP M.  
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- XV. **Drug Synergism of Anticancer Action in Combination with Favipiravir and Paclitaxel on Neuroblastoma Cells**  
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- XVI. **Physiological response of thiamethoxam and ulexite in rainbow trout: A neural network-mediated approach**  
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- XVII. **Synthesis and Biological Evaluation of Novel Benzyldiene Thiazolo Pyrimidin-3(5H)-One Derivatives**  
Akbaş E., Othman K. A., Çelikezen F. Ç., Aydoğan Ejder N., Türkez H., Yapça Ö. E., Mardinoglu A.  
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- XVIII. **Ferulic acid: extraction, estimation, bioactivity and applications for human health and food**  
Kumar M., Kaushik D., Shubham S., Kumar A., Kumar V., Öz E., Brennan C., Zeng M., Proestos C., Çadircı K., et al.  
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- XIX. **Systematic transcriptional analysis of human cell lines for gene expression landscape and tumor representation**  
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- XX. **Open MoA: revealing the mechanism of action (MoA) based on network topology and hierarchy**  
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- XXI. **Synthesis of alnustone-like diarylpentanoids via a 4 + 1 strategy and assessment of their potential anticancer activity**  
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- XXII. **Novel styryl-thiazole hybrids as potential anti-Alzheimer's agents**  
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- XXIII. **Characterization of an in vitro steatosis model simulating activated de novo lipogenesis in MAFLD patients**  
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- XXIV. **Neuroprotective properties of borax against aluminum hydroxide-induced neurotoxicity: Possible role of Nrf-2/BDNF/AChE pathways in fish brain**  
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- XXV. **Borax relieved the acrylamide-induced hematotoxic, hepatotoxic, immunotoxic and genotoxic damages in rainbow trout by regulating apoptosis and Nrf2 signaling pathway**  
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- XXVI. **Borax exerts protective effect against ferrocene-induced neurotoxicity in *Oncorhynchus mykiss*.**  
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- XXVII. **Molecular Genetics and Cytotoxic Responses to Titanium Dioxide and Zinc Borate Nanoparticles on Cultured Human Primary Alveolar Epithelial Cells**  
Türkez H., Arslan M. E., Tatar A., Ozdemir O., Sönmez E., Cadirci K., Hacımüftüoğlu A., Ceylan B., Açıkyıldız M., Yüce Kahraman Ç., et al.  
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- XXVIII. **Combined Metabolic Activators Decrease Liver Steatosis by Activating Mitochondrial Metabolism in Hamsters Fed with a High-Fat Diet**  
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- XXIX. **Multi-omics approaches for revealing the complexity of cardiovascular disease**  
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- XXX. **Combined Metabolic Activators Accelerates Recovery in Mild-to-Moderate COVID-19**  
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- XXXI. **Stratification of patients with clear cell renal cell carcinoma to facilitate drug repositioning**  
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- XXXII. **Anticancer effects of novel NSAIDs derivatives on cultured human glioblastoma cells.**  
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- XXXIII. **iNetModels 2.0: an interactive visualization and database of multi-omics data**  
Arif M., Zhang C., Li X., Gungor C., Cakmak B., Arslanturk M., Tebani A., Ozcan B., Subas O., Zhou W., et al.  
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- XXXIV. **Revealing the Metabolic Alterations during Biofilm Development of *Burkholderia cenocepacia* Based on Genome-Scale Metabolic Modeling**  
Altay O., Zhang C., TÜRKEZ H., Nielsen J., Uhlen M., Mardinoglu A.  
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- XXXV. **Seroprevalence of coronavirus disease 2019 (COVID-19) among health care workers from three pandemic hospitals of Turkey**  
Alkurt G., MURT A., Aydin Z., Tatli O., Agaoglu N. B., Irvem A., Aydin M., KARAALÍ R., Gunes M., Yesilyurt B., et al.  
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- XXXVI. **Antioxidant Potential of Ulexite in Zebrafish Brain: Assessment of Oxidative DNA Damage, Apoptosis, and Response of Antioxidant Defense System**  
ALAK G., UÇAR A., PARLAK V., Yeltekin A. Ç., ÖZGERİŞ F. B., ATAMANALP M., Türkez H.  
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- XXXVII. **Addressing the heterogeneity in liver diseases using biological networks.**  
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Briefings in bioinformatics, cilt.22, ss.1751-1766, 2021 (SCI-Expanded)
- XXXVIII. **A Novel Mutation of ATP7B Gene in a Case of Wilson Disease**  
Yüce Kahraman Ç., İşlek A., Tatar A., Ozdemir O., Mardinglu A., Türkez H.  
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- XXXIX. **Targeted Gene Candidates for Treatment and Early Diagnosis of Age-Related Macular Degeneration**  
ÇİNİCİ E., ÇAĞLAR Ö., ARSLAN M. E., Dilekmen N., Utlu B., Mardinoglu A., TÜRKEZ H.  
BIOMED RESEARCH INTERNATIONAL, cilt.2021, 2021 (SCI-Expanded)

- XL. **Systems biology based drug repositioning for development of cancer therapy.**  
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- XLII. **Potential Anticancer Effect of Carvacrol Codrugs on Human Glioblastoma Cells.**  
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- XLIII. **In vitro neuroprotective effects of farnesene sesquiterpene on alzheimer's disease model of differentiated neuroblastoma cell line**  
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- XLIV. **Discovery of Functional Alternatively Spliced PKM Transcripts in Human Cancers**  
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- XLV. **Assesment of hematotoxic, oxidative and genotoxic damage potentials of fipronil in rainbow trout *Oncorhynchus mykiss*, Walbaum**  
Uçar A., Parlak V., Cilingir Yeltekin A., Özgeriş F. B., Çağlar Ö., Türkez H., Alak G., Atamanalp M.  
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- XLVI. **The Assessment of Selected miRNA Profile in Familial Mediterranean Fever**  
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- XLVII. **Glycyl-L-Prolyl-L-Glutamate Pseudotriptides for Treatment of Alzheimer's Disease**  
Türkez H., Cacciatore I., Marinelli L., Fornasari E., Arslan M. E., Cadirci K., Kahraman Ç., Çağlar O., Tatar A., Di Biase G., et al.  
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- XLVIII. **A caryophyllene oxide and other potential anticholinesterase and anticancer agent in *Salvia verticillata* subsp. *amasiaca* (Freyn & Bornm.) Bornm. (Lamiaceae)**  
KARAKAYA S., Yilmaz S. V., Ozdemir O., KOCA M., Pinar N. M., Demirci B., Yildirim K., Sytar O., Turkez H., Baser K. H. C.  
JOURNAL OF ESSENTIAL OIL RESEARCH, cilt.32, sa.6, ss.512-525, 2020 (SCI-Expanded)
- XLIX. **Hematological and Hepatic Effects of Ulexite in Zebrafish**  
ALAK G., ÖZGERİŞ F. B., Yeltekin A. Ç., PARLAK V., UÇAR A., Çağlar O., TÜRKEZ H., ATAMANALP M.  
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- L. **Cytotoxic effect and molecular docking studies of essential oils of *Cymbocarpum erythraeum* (DC.) Boiss. (Apiaceae) as potential inhibitors of cholinesterase**  
KARAKAYA S., Ozdemir O., KOCA M., Demirci B., AKSAKAL Ö., Turkez H., Baser K. H. C.  
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- LI. **Applications of Genome-Wide Screening and Systems Biology Approaches in Drug Repositioning**  
Mohammadi E., Benfeitas R., TÜRKEZ H., Boren J., Nielsen J., Uhlen M., Mardinoglu A.  
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- LII. **Neuroprotective effects of boron nitride nanoparticles in the experimental Parkinson's disease model against MPP+ induced apoptosis**  
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## Bilimsel Danışmanlıklar

Tübitak, Bilimsel Projeler İçin Yapılan Danışmanlık, Erzurum Teknik Üniversitesi, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Türkiye, 2019 - Devam Ediyor

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## **Kongre ve Sempozyum Katılımı Faaliyetleri**

3. Uluslararası Kanser ve İyon Kanalları Kongresi, Oturum Başkanı, İstanbul, Türkiye, 2021

## **Akademi Dışı Deneyim**

South Korea

Bakanlık, Sağlık Bakanlığı, Türkiye sağlık enstitüleri başkanlığı

SAĞLIK BAKANLIĞI