

Assoc. Prof. Zehra Bař

Personal Information

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Education Information

Doctorate, Van Yüzüncü Yıl University, Turkey 2011 - 2016

Postgraduate, Van Yüzüncü Yıl University, Turkey 2006 - 2009

Undergraduate, Van Yüzüncü Yıl University, Turkey 2002 - 2006

Dissertations

Doctorate, İnsan plazmasından afinite kromatografisi yöntemiyle saflařtırılan anjiotensin konverting enzim üzerine nigella sativa l. ekstraktından kolon kromatografisi ile izole edilen bazı etken maddelerin etkisinin araştırılması, Van Yüzüncü Yıl University, Kimya, Kimya/Biyokimya, 2016

Postgraduate, Van Gölü balığı (Chalcalburnus tarichi P.1811) karaciđeri ve beyin homojenatındaki asetilkolinesteraz (EC.3.1.1.7) enzimi üzerine bazı bitki ekstraktlarının in vitro etkilerinin araştırılması, Van Yüzüncü Yıl University, Kimya, Kimya/Biyokimya, 2009

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yıl University, Sađlık Bilimleri Fakültesi, Beslenme ve Diyetetik Bölümü, 2018 - Continues

Courses

VITAMINS, Undergraduate, 2019 - 2020

Chromatographic Methods, Postgraduate, 2019 - 2020

BIOCHEMISTRY, Undergraduate, 2019 - 2020

VITAMINS, Undergraduate, 2019 - 2020

Electrophoretic Methods, Postgraduate, 2019 - 2020

VITAMINS, Undergraduate, 2019 - 2020

BİOCHEMISTRY, Undergraduate, 2018 - 2019

BIOCHEMISTRY, Undergraduate, 2018 - 2019

ADVISING THeses

Baş Z., Investigation of the effect of ascorbic acid on angiotensin converting enzyme activity purified from sheep plasma by affinity chromatography method, Postgraduate, Z.NIZAR(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **In vitro inhibitor effect and molecular docking of thiamine (vitamin B1), riboflavin (vitamin B2), and reference inhibitor captopril on angiotensin-converting enzyme purified from sheep plasma**
Ciftci M. H., Türkoğlu V., Baş Z., Celikezen F. C.
Archives of Physiology and Biochemistry, 2024 (SCI-Expanded)
- II. **The inhibitory effects of lycopene and thymoquinone on angiotensin converting enzyme from human plasma (An in vitro study)**
Dede S., Türkoğlu V., Baş Z.
PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.35, no.3, pp.801-805, 2022 (SCI-Expanded)
- III. **Purification of Angiotensin-Converting Enzyme (ACE) from Sheep Kidney and Inhibition Effect of Reduced Nicotinamide Adenine Dinucleotide (NADH) on Purified ACE Activity**
Kiylik A., Turkoglu V., Baş Z.
CELL BIOCHEMISTRY AND BIOPHYSICS, vol.80, no.1, pp.115-122, 2022 (SCI-Expanded)
- IV. **Investigation of inhibition effect of butanol and water extracts of Matricaria chamomilla L. on angiotensin-converting enzyme purified from human plasma**
Baş Z., Türkoğlu V., Göz Y.
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, vol.69, no.1, pp.273-280, 2022 (SCI-Expanded)
- V. **Inhibition effect of thymoquinone and lycopene compounds on glutathione reductase enzyme activity purified from human erythrocytes**
Ciftci E., Türkoğlu V., Baş Z.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.20, pp.10086-10093, 2022 (SCI-Expanded)
- VI. **Inhibition effect of nicotinamide (vitamin B-3) and reduced glutathione (GSH) peptide on angiotensin-converting enzyme activity purified from sheep kidney**
Baş Z.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.189, pp.65-71, 2021 (SCI-Expanded)
- VII. **Purification and characterization of angiotensin-converting enzyme (ACE) from sheep lung**
Aydin F., Türkoğlu V., Baş Z.
MOLECULAR BIOLOGY REPORTS, vol.48, no.5, pp.4191-4199, 2021 (SCI-Expanded)
- VIII. **Electrochemical Determination of Fluoroquinolone Antibiotic Norfloxacin in the Presence of Anionic Surfactant Using the Anodically Pretreated Boron-Doped Diamond Electrode**
Karahan F., Basi Z., Keskin E., Pinar P. T., Yardım Y., Şentürk Z.
CHEMISTRYSELECT, vol.5, no.42, pp.12862-12868, 2020 (SCI-Expanded)
- IX. **In vitro effect of ethyl acetate, butanol and water extracts of Juniperus excelsa Bieb. on angiotensin-converting enzyme purified from human plasma**
Basi Z., Türkoğlu N., Türkoğlu V., Karahan F.
CHEMICAL PAPERS, vol.73, no.10, pp.2525-2533, 2019 (SCI-Expanded)
- X. **In vitro effect of oxidized and reduced glutathione peptides on angiotensin converting enzyme purified from human plasma**
Basi Z., Türkoğlu V.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1104, pp.190-195, 2019 (SCI-Expanded)
- XI. **Purification of angiotensin-converting enzyme from human plasma and investigation of the effect of some active ingredients isolated from Nigella sativa L. extract on the enzyme activity**
Basi Z., Türkoğlu V.
BIOMEDICAL CHROMATOGRAPHY, vol.32, no.5, 2018 (SCI-Expanded)
- XII. **Determination of malation, methidathion, and chlorpyrifos ethyl pesticides using**

acetylcholinesterase biosensor based on Nafion/Ag@rGO-NH₂ nanocomposites

Güler M., Türkoğlu V., Baş Z.

ELECTROCHIMICA ACTA, vol.240, pp.129-135, 2017 (SCI-Expanded)

XIII. In Vitro Determination of 6PGD Enzyme Activity Purified from Lake Van Fish (*Chalcalburnus tarichii* Pallas, 1811) Liver Exposed to Pesticides

Güler M., Kivanç M. R., Türkoğlu V., BASI Z., Kivrak H.

BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.91, no.5, pp.560-564, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Inhibition effect of Gly-Arg-Gly-Asp-Ser (GRGDS) and Arg-Gly-Asp (RGD) Bioactive Peptides on Angiotensin-Converting Enzyme Activity Purified from Human Serum**
Adanaş R., TÜRKÖĞLU V., BAŞ Z.
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.4, pp.2847-2860, 2023 (Peer-Reviewed Journal)
- II. **Investigation of inhibition effect of folic acid (vitamin B9) on angiotensin-converting enzyme activity purified from human plasma**
BAŞ Z.
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.3, pp.1607-1614, 2022 (Peer-Reviewed Journal)
- III. **The Effects of *Coriandrum sativum* L. and *Chaerophyllum macropodium* Boiss. (Apiaceae) on human plasma angiotensin-converting enzyme (ACE) in vitro**
Çelikezen F. Ç., Türkoğlu V., Fırat M., Baş Z.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.10, no.7, pp.710-718, 2021 (Peer-Reviewed Journal)
- IV. **The Determination of Inhibition Effect of Extracts of *Thymbra sintenisii* Bornm. et Aznav. Subsp on Angiotensin Converting Enzyme**
Gür T., Karahan F., Baş Z., Türkoğlu V.
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.3, pp.1848-1856, 2020 (Peer-Reviewed Journal)
- V. **In vitro Effects of Certain Plant Extracts on Acetylcholinesterase (EC 3.1.1.7) Enzyme in Lake Van Fish Liver and Brain**
Başı Z., Türkoğlu V., Güler M., Kivanç M. R.
Hacettepe Journal of Biology and Chemistry, vol.44, pp.435-440, 2016 (Peer-Reviewed Journal)
- VI. **In Vitro Inhibition of Human Plasma and Erythrocyte AChE by Various Drugs**
Kivanç M. R., Türkoğlu V., Güler M., Baş Z.
Hacettepe Journal of Biology and Chemistry, vol.44, pp.217-224, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Investiagtion of In Vitro Effect of Ascorbic Acid (Vitamin C) and Reduced Nicotinamide Adenine Dinucleotide (NADH) on Acetylcholinesterase Enzyme (AChE; EC 3.1.1.7) in Human Plasma**
ADANAŞ R., TÜRKÖĞLU V., BAŞ Z.
4th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Turkey, 3 - 06 November 2022
- II. **İnsan plazmasından saflaştırılan anjiotensin konverting enzim aktivitesi üzerine Gly-Pro (GP) biyoaktif peptidinin inhibisyon etkisinin araştırılması**
BAŞ Z.
3. Uluslararası Sağlık Bilimleri ve Biyoteknoloji Kongresi, Turkey, 3 - 07 October 2022, pp.258
- III. **The Performance of Boron-doped Diamond Electrode in Anionic Surfactant Media for Enhancing the Adsorptive Stripping Voltammetric Determination of Fluoroquinolones**
Şentürk Z., Dönmez F., Baş Z., Karahan F., Talay Pınar P., Yardım Y.

30 PBA (30th International Symposium on Pharmaceutical and Biomedical Analysis), Tel-Aviv-Yafo, Israel, 15 - 18 September 2019

- IV. **The Research of In vitro Effect of Extracts of Ecballium Elaterium and Salvia Triloba Plants on Acetylcholinesterase Enzyme (AChE; EC 3.1.1.7) in Human Serum**
Tekin Ö., Türkoğlu V., Baş Z., Güler M.
1. Eurasia Biochemical Approaches & Technologies (1. EBAT) Congress, Antalya, Turkey, 27 - 30 October 2018, pp.69
- V. **The Investigation of Effect of Polar And Apolar Extracts of White Chicory (Cichorium İntybus L.) Plant on Angiotensin Converting Enzyme (ACE, EC 3.4.15.1) and Acetylcholinesterase (AChE, EC 3.1.1.7) Enzyme in Human Plasma**
Aksuz A., Türkoğlu V., Baş Z., Kivanç M. R.
1. Eurasia Biochemical Approaches & Technologies (1. EBAT) Congress, Antalya, Turkey, 27 - 30 October 2018, pp.23
- VI. **Investigation of inhibition effect of butanol, ethyl acetate, and water extracts of Thymbra sintenisii Bornm. et Aznav. Subsp on Angiotensin Converting Enzyme from human plasma**
Gür T., Baş Z., Karahan F., Türkoğlu V., ÖZTÜRK F.
Uluslararası Müzik Dans ve Sağlık Kongresi, Van, Turkey, 10 - 13 October 2018, pp.55
- VII. **The Research of Effect of Vitamin C on Angiotensin Converting Enzyme Purified from Human Plasma**
BAŞI Z., TÜRKOĞLU V., KIVANÇ M. R.
II. International Iğdır Symposium, Iğdır, Turkey, 9 - 11 October 2017, pp.191
- VIII. **The Investigate of Effect of Matricaria chamomilla L. Plant on Angiotensin Converting Enzyme Purified from Human Plasma**
BAŞ Z., TÜRKOĞLU V., GÜLER M.
II. International Iğdır Symposium, Turkey, 09 October 2017, pp.193
- IX. **Effect Of Oxide And Reduced Glutathione On Angiotensin Converting Enzyme Purified By From Human Plasma**
BAŞ Z., TÜRKOĞLU V., KIVANÇ M. R., GÜLER M.
The 3rd International Porous and Powder Materials Symposium and Exhibition Symposium (PPM 2017), Turkey, 12 September 2017
- X. **The Research of Effect of Juniperus Excelsa Bieb. Fruits on Angiotensin Converting Enzyme Purified by From Human Plasma**
BAŞ Z., TÜRKOĞLU N., TÜRKOĞLU V., KARAHAN F.
The 3rd International Porous and Powder Materials Symposium and Exhibition Symposium (PPM 2017), Turkey, 12 September 2017
- XI. **A novel glucose and H2O2 biosensor based on nafion and amine functionalized reduced graphene oxide**
TÜRKOĞLU V., GÜLER M., KIVANÇ M. R., BAŞ Z.
AACD 2016 İternational Conference 10th Aegean Analytical Chemistry Days, Turkey, 29 September - 02 October 2016, pp.252
- XII. **Centaurea solstitialis L. subsp. carneola (Boiss.) Wagenitz, Sideritis brevidens P.H. Davis ve Origanum majorana Bitkilerinin İnsan Plazması Anjiotensin Konverting Enzim Üzerine Etkilerinin Araştırılması**
ÖNEN Y., TÜRKOĞLU V., BAŞ Z., GÜLER M.
10.Ulusal Afinite Teknikleri Kongresi, Turkey, 26 May 2016, pp.70
- XIII. **İnsan Plazmasından Afinite Kromatografisi Yöntemiyle Safılaştırılan Anjiotensin Konverting Enzim Üzerine Nigella Sativa Ekstraktından Kolon Kromatografisi İle İzole Edilen Bazı Etken Maddelerin Etkisinin Araştırılması**
Baş Z., Türkoğlu V.
10.Ulusal Afinite Teknikleri Kongresi, Balıkesir, Turkey, 26 May 2018, pp.8
- XIV. **Peganum harmala ve Chelidonium majus Bitkilerinin Polar Faz Ekstraktlarının İnsan Plazması Asetilkolinesteraz Enzimi Üzerine Etkilerinin Araştırılması", 10.Uluslararası Afinite Teknikleri**

Kongresi

TEMEL S., TÜRKOĞLU V., BAŞ Z.

10.Ulusal Afinite Teknikleri Kongresi, Turkey, 26 May 2016, pp.71

- XV. **Electrochemical determination of glucose based on the immobilization of glucose oxidase onto poly(2,3-di(thiophene-2-yl) naphthalene -1,4-dione) modified glassy carbon electrode**

GÜLER M., TÜRKOĞLU V., KIVANÇ M. R., KIVRAK A., BAŞ Z., TÜRKOĞLU N.

International conference on applied informatic for health and life science, Turkish-German workshop on bioinformatic resent development from health to nanotechnology, Turkey, 19 - 23 October 2014

- XVI. **Investigation of in vitro effect of *Alcanna tinctoria* root chloroform extract on human erythrocyte 6-phosphogluconate dehydrogenase, glucose 6-phosphate dehydrogenase, and glutathione reductase**

ÇAKAR M., TÜRKOĞLU V., BAŞ Z., KIVANÇ M. R., GÜLER M.

International conference on applied informatic for health and life science, Turkish-German workshop on bioinformatic resent development from health to nanotechnology, Turkey, 19 - 23 October 2014

- XVII. **The Research of in vitro effects of some plant extracts on acetylcholinesterase (EC 3.1.1.7) enzyme in the erythrocyte and serum of human**

ÖZDEMİR A., TÜRKOĞLU V., DEMİR H., BAŞ Z.

1 ST International Symposium on Secondary Metabolites, Turkey, 12 September 2011

- XVIII. **The effects of some water-soluble pesticides on 6-phosphogluconate dehydrogenase enzyme activity purified from Lake Van fish (*Chalcalburnus tarichii* Pallas, 1811) liver**

GÜLER M., KIVANÇ M. R., TÜRKOĞLU V., BAŞ Z.

1st International Symposium on secondary metabolites chemical, biological and biotechnological properties, Turkey, 12 September 2011

- XIX. **The research of in vitro effects of certain plant extracts on acetylcholinesterase (EC. 3.1.1.7) enzyme in homogenate of the liver and brain of Lake Van Fish**

BAŞ Z., TÜRKOĞLU V., GÜLER M.

5. Ulusal veteriner biyokimya ve klinik biyokimya kongresi, Turkey, 06 September 2011

Supported Projects

Baş Z., Güler M., Project Supported by Higher Education Institutions, Synthesis of various conductive polymers for the development of an acetylcholinesterase enzyme sensor for the detection of carbamate pesticides in agricultural wastewater., 2015 - 2017

Türkoğlu V., Baş Z., Project Supported by Higher Education Institutions, Investigation of the Effect of Some Active Substances Isolated from *Nigella sativa* L. Extract by Column Chromatography on Angiotensin Converting Enzyme Purified from Human Plasma by Affinity Chromatography Method, 2013 - 2016

Metrics

Publication: 38

Citation (WoS): 116

Citation (Scopus): 144

H-Index (WoS): 5

H-Index (Scopus): 6