

Prof. Fatma Zühal UMUDUM

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Tıp Fakültesi, Tıbbi Biyokimya, Turkey 1989 - 1993

Postgraduate, Ataturk University, Tıp Fakültesi, Tıbbi Biyokimya, Turkey 1986 - 1988

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Health&Medicine, TS ISO IEC 15189 TEMEL EĞİTİMİ, Tıp Fakültesi, 2011

Health&Medicine, İyi Bir klinik Laboratuvar Nasıl Olmalı, Tıp Fakültesi, 2007

Dissertations

Doctorate, Diabetiklerde Aldok Redüktaz Aktivitesi ve Lipid Peroksidasyonu, Atatürk Üniversitesi, Tıp Fakültesi, Tıbbi Biyokimya, 1993

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

Academic Titles / Tasks

Professor, Ataturk University, Tıp Fakültesi, Temel Tıp Bilimleri, 2008 - Continues

Associate Professor, Ataturk University, Tıp Fakültesi, Temel Tıp Bilimleri, 2003 - 2008

Assistant Professor, Ataturk University, Tıp Fakültesi, Temel Tıp Bilimleri, 1996 - 2003

Assistant Professor, Ataturk University, Tıp Fakültesi, Temel Tıp Bilimleri, 1996 - 2003

Courses

temel tıp bilimleri -tıbbi biyokimya, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
tıbbi biyokimya, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Amino Acids, Peptides and Proteins, Postgraduate, 2021 - 2022, 2020 - 2021
tıbbi biyokimya, Undergraduate, 2021 - 2022, 2020 - 2021
Organik Kimya, Undergraduate, 2020 - 2021, 2019 - 2020
BİYOKİMYAYA GİRİŞ, Postgraduate, 2019 - 2020
Nitrogen Compounds Biochemistry, Postgraduate, 2019 - 2020
BİYOKİMYASAL ANALİTİK HESAPLAMALAR, Postgraduate, 2019 - 2020
organik kimya, Undergraduate, 2019 - 2020

Advising Theses

Umudum F. Z., Vücut Kitle İndeksine Göre Bireylerde Bazı İştah Parametrelerinin Belirlenmesi, Doctorate, G.ALYAR(Student), 2022
Umudum F. Z., Hiperkolesterolemi oluşturulmuş ratlarda Centranthus longiflorus ve β -Sitosterolün oksidatif stres ve lipid profili üzerine etkilerinin biyokimyasal incelenmesi, Doctorate, S.AŞKIN(Student), 2019
Umudum F. Z., Doğu Anadolu bölgesindeki otizmlili çocuklarda serum amino asit ve asimetric dimetiltarjinin düzeyleri, Doctorate, M.ALİ(Student), 2019
Umudum F. Z., Akciğer kanserli hastalarda apolipoprotein B ve apolipoprotein E gen polimorfizmlerinin belirlenmesi, Postgraduate, M.ALİ(Student), 2013
UMUDUM F. Z., Hiper ve hipotiroidili hastalarda homosistein,s-adenozilmetiyonin ve antioksidan düzeyleri, Postgraduate, H.Hakan(Student), 2005

Jury Memberships

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Atatürk Üniversitesi, December, 2022
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Atatürk Üniversitesi, January, 2022
Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, Ekim, Doçentlik sınavı, May, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Differences in the levels of the appetite peptides ghrelin, peptide tyrosine tyrosine, and glucagon-like peptide-1 between obesity classes and lean controls**
ALYAR G., UMUDUM F. Z.
LABORATORY MEDICINE, 2024 (SCI-Expanded)
- II. **Changes in ghrelin, GLP-1, and PYY levels after diet and exercise in obese individuals**
ALYAR G., UMUDUM F. Z., Akba N.
REVISTA DA ASSOCIACAO MEDICA BRASILEIRA, vol.70, no.1, 2024 (SCI-Expanded)
- III. **Automation of extra-analytical phase for clinical laboratory**
BAKAN E., UMUDUM F. Z.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.46, no.2, pp.115-128, 2021 (SCI-Expanded)
- IV. **The comparison of two glucose measurement systems: POCT devices versus central laboratory**
Baygutalp N., BAKAN E., BAYRAKTUTAN Z., UMUDUM F. Z.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.43, no.5, pp.510-519, 2018 (SCI-Expanded)
- V. **Evaluation of the analytical performances of Cobas 6500 and Sysmex UN series automated urinalysis systems with manual microscopic particle counting**

BAKAN E., BAYRAKTUTAN Z., Baygutaip N., GÜL M. A., UMUDUM F. Z., BAKAN N.

BIOCHEMIA MEDICA, vol.28, no.2, 2018 (SCI-Expanded)

- VI. **Effects of sevoflurane and propofol on S100 β and neuron-specific enolase protein levels during cardiopulmonary bypass.**
Erdem A. F., ŞAHİN Y., DOĞAN N., Umudum Z., BAYAR F., BULUT C., Alici H. A., Erkut B., Cesur M., CEVİZ M.
Nigerian journal of clinical practice, vol.19, no.2, pp.278-83, 2016 (SCI-Expanded)
- VII. **A reference interval study for common biochemical analytes in Eastern Turkey: a comparison of a reference population with laboratory data mining.**
BAKAN E., Polat H., Ozarda Y., ÖZTÜRK N., BAYGUTALP N., UMUDUM F. Z., BAKAN N.
Biochemia medica, vol.26, no.2, pp.210-23, 2016 (SCI-Expanded)
- VIII. **S-100 beta and neuron-specific enolase levels in carbon monoxide-related brain injury**
ÇAKIR Z., Aslan S., UMUDUM Z., Acemoglu H., AKOZ A., TURKYILMAZ S., ÖZTÜRK N.
AMERICAN JOURNAL OF EMERGENCY MEDICINE, vol.28, no.1, pp.61-67, 2010 (SCI-Expanded)
- IX. **Nitric Oxide Levels in Erythrocyte of The Rabbits Which Implanted Ormocer Filling Materials into Connective Tissue**
Yildiz M., Umudum Z., TAYSI S.
ASIAN JOURNAL OF CHEMISTRY, vol.21, no.4, pp.2610-2614, 2009 (SCI-Expanded)
- X. **Bone Turnover Markers in Patients with Type 2 Diabetes and Their Correlation with Glycosylated Haemoglobin Levels**
Capoglu I., Ozkan A., Ozkan B., Umudum Z.
JOURNAL OF INTERNATIONAL MEDICAL RESEARCH, vol.36, no.6, pp.1392-1398, 2008 (SCI-Expanded)
- XI. **Nitric oxide synthase activity on erythrocyte of the rabbits which implanted composite resin filling materials into connective tissue**
Yildiz M., Taysi S., Umudum Z.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.5, pp.3902-3906, 2008 (SCI-Expanded)
- XII. **Nitric oxide level and superoxide dismutase activity in serum of the patients with rheumatoid arthritis**
SARI R. A., TAYSI S., UMUDUM F. Z., KUŞKAY S., BAKAN N.
Annals Of The Rheumatic Diseases, vol.62, pp.391, 2003 (SCI-Expanded)
- XIII. **Nitric oxide level and superoxide dismutase activity in serum of patients with rheumatoid arthritis**
TAYSI S., Umudum Z., SARI R. A., KUŞKAY S., Bakan N.
PAIN CLINIC, vol.15, no.4, pp.429-434, 2003 (SCI-Expanded)
- XIV. **Changes of PSA concentrations in serum and saliva of healthy women during the menstrual cycle**
Aksoy H., Akcay F., Umudum Z., Yildirim A., Memisogullari R.
ANNALS OF CLINICAL AND LABORATORY SCIENCE, vol.32, no.1, pp.31-36, 2002 (SCI-Expanded)
- XV. **Erythrocyte membrane glycation and NA(+)-K(+) levels in NIDDM.**
UMUDUM F. Z., YÜCEL O., SAHIN Y., Bakan E.
Journal of diabetes and its complications, vol.16, pp.359-62, 2002 (SCI-Expanded)
- XVI. **Erythrocyte membrane glycation and NA+–K+ levels in NIDDM**
UMUDUM F. Z., YÜCEL O., ŞAHİN Y. N., BAKAN E.
JOURNAL OF DIABETES AND ITS COMPLICATIONS, vol.16, no.5, pp.359-362, 2002 (SCI-Expanded)
- XVII. **Nitric oxide levels and lipid peroxidation in plasma of patients with gastric cancer**
BAKAN E., TAYSI S., POLAT M. F., DALGA S., Umudum Z., Bakan N., Gumus M.
JAPANESE JOURNAL OF CLINICAL ONCOLOGY, vol.32, no.5, pp.162-166, 2002 (SCI-Expanded)
- XVIII. **The effect of adrenalectomy on leptin levels and some metabolic parameters in rats with diet-induced obesity**
YILMAZ A., SÜLEYMAN H., UMUDUM F. Z., ŞAHİN Y. N.
BIOLOGICAL & PHARMACEUTICAL BULLETIN, vol.25, no.5, pp.580-583, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Serum Amino Acid Levels in Children with Autism Spectrum Disorder by Liquid Chromatography-Mass Spectrometry/Mass Spectrometry**
GÜL M. A., UMUDUM F. Z., KURT N., ÖZGERİŞ F. B., Türkeri Ö. N., TURAN B., DURSUN O. B., KELEŞ M. S.
Archives of Basic and Clinical Research, vol.5, no.1, pp.208-217, 2023 (Peer-Reviewed Journal)
- II. **Düzenli egzersize yanıt olarak idrar irisin, alfa 1-mikroglobülin ve retinol bağlayıcı protein düzeyleri**
Bayraktutan Z., Bakan E., Kılıç Baygutalp N., Gül M. A., Ozan M., Çelik M., Erduhan S., Umudum F. Z.
International Journal of medical biochemistry, vol.2, no.1, 2019 (Conference Book)
- III. **Beta-fibrinogen 455 G/A and angiotensin converting enzyme ins/del polymorphisms in patients with lung cancer**
Alp H. H., UMUDUM F. Z., BAKAN E.
Eastern Journal of Medicine, vol.23, no.3, pp.160-167, 2018 (Scopus)
- IV. **The value of cardiac troponin T to determine myocardial injury in coronary artery bypass surgery**
Medical Journal of Atatürk University 2001 33 4 97 102 Turkish
ÜNLÜ Y., CEVİZ M., UMUDUM F. Z., KOÇAK H., KARAKELLEOĞLU Ş.
EURASIAN JOURNAL OF MEDICINE, vol.33, pp.97-102, 2001 (ESCI)
- V. **Determination Of free Fatty Acid Composition in Plasma Membranes of Neutrophils in Diabetics**
KELEŞ M. S., DEMİR Y., ALTUNTAŞ İ., UMUDUM F. Z., BAKAN E.
Turkish journal of medical Sciences, vol.30, no.5, pp.465-468, 2000 (Scopus)
- VI. **Kardiyopulmonar Baypass ta Kullanılan Farklı Priming Solüsyonlarının Böbrek Fonksiyonlarına Etkileri**
KÜRŞAD H., ONUR A., DOĞAN N., BECİT N., TONBUL H. Z., UMUDUM F. Z., USLU S.
Türk Anestezi Reanimasyon Mecmuası, vol.25, pp.57-61, 1997 (ESCI)

Books & Book Chapters

- I. **Medical Biochemistry Applications: Translation From Third Edition**
Umudum F. Z., Karakoç A., Bakan E., Bakan N. (Editor)
Kültür Eğitim Vakfı Yayınları, Erzurum, 2019
- II. **Medical Biochemistry Applications**
BAKAN N., UMUDUM F. Z., KARAKOÇ A.
Kültür Eğitim Kitap ve Kirtasiye, Erzurum, 2019
- III. **TIBBİ BİYOKİMYA UYGULAMALARI**
BAKAN N., UMUDUM F. Z., KARAKOÇ A.
ERZURUM KÜLTÜR EĞİTİM KİTAP KIRTASIYE, 2016
- IV. **Tıbbi Biyokimya Uygulamaları**
BAKAN N., UMUDUM F. Z., KARAKOÇ A.
erzurum kültür eğitim kitap kirtasiye, Erzurum, 2014
- V. **Tıbbi Biyokimya Uygulamaları**
BAKAN N., UMUDUM F. Z., KARAKOÇ A.
Aktif Yayınevi, 2012
- VI. **DENEYSEL BİYOKİMYA**
BAKAN N., UMUDUM F. Z., AVCI B., ERMAN F.
Aktif Yayınevi, Erzurum, 2003
- VII. **DENEYSEL BİYOKİMYA**
BAKAN N., UMUDUM F. Z., ERMAN F., AVCI B.
Aktif Yayınevi, Erzurum, 2000
- VIII. **DENEYSEL BİYOKİMYA**
BAKAN N., UMUDUM F. Z., ERMAN F., AVCI B.

Refereed Congress / Symposium Publications in Proceedings

- I. **Beta-Fibrinogen-4555 G/A and Angiotensin Converting Enzyme I/D Gene polymorphisms in Patients with Lung Cancer**
ALP H. H., UMUDUM F. Z., BAKAN E., KAYNAR H.
SANKO University Innovation in Medicine Summit-3, 11 - 13 May 2017
- II. **Serum sICAM 1 and E selectin Levels in Patients with Lung Cancer**
AŞKIN S., KARAKOÇ A., UMUDUM F. Z., BAKAN N., KIZILTUNÇ A.
27. Ulusal Biyokimya Kongresi, Turkey, 3 - 06 November 2015
- III. **THE APPLICABILITY OF REFERENCE RANGES BETWEEN ANY TWO AUTOMATED ANALYZERS A CROSS CHECK STUDY**
POLAT H., KILIÇ BAYGUTALP N., ÖZTÜRK N., BAKAN E., UMUDUM F. Z.
IFCC WorldLab Istanbul 2014, 24 - 28 June 2014

Supported Projects

UMUDUM F. Z., ALYAR G., Project Supported by Higher Education Institutions, Vücut Kitle İndeksine Göre Bazı İştah Parametrelerinin Belirlenmesi, 2021 - 2022

Metrics

Publication: 64
Citation (WoS): 232
Citation (Scopus): 285
H-Index (WoS): 8
H-Index (Scopus): 8

Congress and Symposium Activities

International Biochemistry Congress 2017, Attendee, Erzurum, Turkey, 2017