

## Prof. UFUK ÇAKATAY

### Personal Information

**Office Phone:** [+90 212 414 3000](tel:+902124143000) Extension: 23067

**Email:** [cakatay@iuc.edu.tr](mailto:cakatay@iuc.edu.tr)

**Other Email:** [cakatay@yahoo.com](mailto:cakatay@yahoo.com)

**Web:** <http://avesis.istanbulc.edu.tr/cakatay/>

**Address:** Cerrahpaşa Tıp Fakültesi, Temel Tıp Bilimleri, Tıbbi Biyokimya AD



### Education Information

Doctorate, İstanbul Üniversitesi, Cerrahpaşa Tıp Fakültesi/ Sağlık Bilimleri Enstitüsü/Temel Bilimler, Biyokimya, Turkey 1990 - 1993

Postgraduate, İstanbul Üniversitesi, Cerrahpaşa Tıp Fakültesi/Sağlık Bilimleri Enstitüsü/Temel Bilimler, Biyokimya, Turkey 1988 - 1990

Undergraduate, İstanbul Üniversitesi, Fen Fakültesi, Biyoloji, Turkey 1983 - 1988

### Biography

**Dr. Ufuk Çakatay is a tenured professor of medical biochemistry and a senior scientist at Cerrahpaşa Faculty of Medicine, Istanbul University-Cerrahpasa, in Istanbul, Turkey. His research interests include the optimization of various bioanalytical methods to measure the levels of redox status biomarkers in aging tissues as well as anti-aging interventions, establishment experimental animal models for aging studies and redox-taxis in age-related disorders.**

**He has a long-standing interest in oxidative protein damage and proteostasis biomarkers. In addition, Professor Çakatay has a deep interest in mentoring medical students and fostering their research career. Professor Çakatay has authored more than 100 publications in several leading journals, which include research papers, book chapters, editorials and invited reviews on free radical biology, aging, diabetes, and biological activity of alpha-lipoic acid. He has served as a guest editor, referee or member of the editorial board for more than 50 journals. He has received various prestigious awards such as the top reviewer award from Elsevier Science Publishing and previously served as a committee *member in* Istanbul University's Committee on Animal Research and Ethics.**

### Foreign Languages

Latin, B1 Intermediate

English, C1 Advanced

### Dissertations

Doctorate, Sağlıklı Kişilerin ve Diabetik Hastaların Serum Osteokalsin Düzeyleri, İstanbul Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyokimya, 1993

Postgraduate, Üriner Sistem Kalsiyum Taşlı Hastaların 24 Saatlik İdrarlarındaki Ürat Miktarının Önemi, İstanbul Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyokimya, 1990

## Research Areas

Medicine, Health Sciences, Internal Medicine Sciences, Internal Diseases , Geriatrics, Life Sciences, Biochemistry, Metabolism, Chemistry, Biochemistry, Protein Chemistry, Natural Sciences

## Academic Titles / Tasks

Professor, Istanbul University, Cerrahpaşa Tıp Fakültesi, Tıbbi Biyokimya Ad, Temel Tıp Bilimleri, 2012 - Continues  
Associate Professor, Istanbul University, Cerrahpaşa Tıp Fakültesi, Tıbbi Biyokimya Ad, Temel Tıp Bilimleri, 2011 - 2012  
Associate Professor, Istanbul University, İstanbul Tıp Fakültesi, Klinik Biyokimya Merkez Laboratuvarı, Klinik Biyokimya Merkez Laboratuvarı, 2002 - 2011  
Medical Doctor, İstanbul Üniversitesi, İstanbul Tıp Fakültesi, Klinik Biyokimya Merkez Laboratuvarı, Klinik Biyokimya Merkez Laboratuvarı, 1995 - 2002  
Medical Doctor, Gülhane Askeri Tıp Akademisi, Haydarpaşa Eğitim Hastanesi, Biyokimya Ad, Biyokimya , 1993 - 1995  
Other, İstanbul Üniversitesi, İstanbul Tıp Fakültesi, Klinik Biyokimya Merkez Laboratuvarı, Klinik Biyokimya Merkez Laboratuvarı, 1991 - 1993

## Academic and Administrative Experience

Anabilim Dalı Akademik Kurul Üyesi, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty Of Medicine, Department Of Basic Medical Sciences, 2021 - Continues

## Courses

Klinik Laboratuvar Yönetimi ve Kalite Yönetimi, Expertise In Medicine, 2016 - 2017  
Kolesterol Metabolizması, Postgraduate, 2014 - 2015  
Araştırma ve Bilim Etiği, Postgraduate, 2015 - 2016  
Derleme yazısı hazırlama, Postgraduate, 2015 - 2016  
Karaciğer lipid ve alkol metabolizmaları Yağlı karaciğer oluşumu, Undergraduate, 2014 - 2015  
Kas ve İskelet Sistemi Hastalıkları, Postgraduate, 2014 - 2015  
Nükleotidler, Associate Degree, 2015 - 2016  
Asitler-bazlar ve tampon çözeltiler pH metre, Expertise In Medicine, 2013 - 2014  
DNA synthesis, Associate Degree, 2013 - 2014  
Araştırma sonuçlarının değerlendirilmesi, istatistiksel yorumlanması, Postgraduate, 2014 - 2015  
Tampon Çözeltiler ve Hazırlama Prensipleri, Expertise In Medicine, 2014 - 2015  
DNA repair and mutations, Associate Degree, 2013 - 2014  
Araştırma Projesi Hazırlanması, Postgraduate, 2014 - 2015  
Çözeltiler Kimyası ve Laboratuvarla İlgili Hesaplamalar, Expertise In Medicine, 2014 - 2015  
Reaktiflerin Hazırlanması ve Saklanması, Expertise In Medicine, 2014 - 2015  
Makale yazımı ve dergi seçimi, Postgraduate, 2014 - 2015  
Biyoenjerji ve termodinamik, Doctorate, 2013 - 2014  
Materyalin toplanması, yöntem geliştirilmesi, Postgraduate, 2014 - 2015  
Laboratuvarda Kullanılan Birimler ve Çevrimleri, Expertise In Medicine, 2014 - 2015  
Laboratuvar alet ve cihazlarının kalibrasyonu, Expertise In Medicine, 2014 - 2015  
Membran Hasarı:Lipid peroksidasyonu, Postgraduate, 2013 - 2014  
Amino asitlerin özel ürünlere dönüşümü , Doctorate, 2013 - 2014  
Yaşlanmaya Bağlı Nörodejenerasyonlar, Doctorate, 2013 - 2014  
Wilson Hastalığı, Doctorate, 2013 - 2014

Biyomoleküllerin Yapı ve Fonksiyonları: Nükleotidlerin ile DNA'nın yapı ve fonksiyonları,, Postgraduate, 2012 - 2013

Gastrointestinal Sistem: Digestion and absorption of carbohydrates, Associate Degree, 2012 - 2013

Amino asitlerin biyosentezi, Postgraduate, 2013 - 2014

Biyokimyasal Araştırmalarda Temel İlkeler: Araştırma projesi hazırlanması, Postgraduate, 2012 - 2013

Amino asit azotunun metabolizması ve amonyak metabolizması, Associate Degree, 2012 - 2013

Biyokimyasal Yapılar ve Metabolizma: Reseptörler ve hücre ileti sistemleri, Expertise In Medicine, 2012 - 2013

Üre siklusu ve ilgili metabolik bozukluklar, Associate Degree, 2012 - 2013

Amino asit karbon atomlarının metabolizması ve esansiyel olmayan amino asitlerin biyosentezi, Associate Degree, 2012 - 2013

Biyokimyasal Yapılar ve Metabolizma: Biyomoleküllerin fonksiyonel grupları , Expertise In Medicine, 2012 - 2013

Laboratuvar: Spektrofotometrik teknikler ve analizler, Expertise In Medicine, 2012 - 2013

Amino asitlerin transportu ve ilgili kalımsal bozukluklar, Associate Degree, 2012 - 2013

Besinlerle alınan proteinlerin sindirimi, Associate Degree, 2012 - 2013

Biochemical evaluation in renal disorders, Undergraduate, 2013 - 2014

Biyokimyasal Yapılar ve Metabolizma: Biyokimyasal reaksiyonlar , Expertise In Medicine, 2012 - 2013

Biyomoleküllerin Yapı ve Fonksiyonları: DNA ile RNA'nın yapı ve özellikleri, Postgraduate, 2012 - 2013

Amino asitlerin özel ürünlere dönüşümü ve kalımsal bozukluklar, Associate Degree, 2012 - 2013

Biyokimyasal Yapılar ve Metabolizma: Biyomoleküller: Genel yapısal özellikler, Expertise In Medicine, 2012 - 2013

Gastrointestinal Sistem: The citric acid cycle, Associate Degree, 2012 - 2013

Gen Biyokimyası: Rekombinant DNA teknolojisi, Doctorate, 2012 - 2013

Temel Laboratuvar Teknikleri: Elektroforez II, Postgraduate, 2012 - 2013

Işığın yayılma ve saçılım tetkikleri, Postgraduate, 2013 - 2014

Gastrointestinal Sistem: Metabolism of glycogen, Associate Degree, 2012 - 2013

Gen Biyokimyası: Gen ekspresyonunun modifikasyonu, Doctorate, 2012 - 2013

Temel Laboratuvar Teknikleri: Elektroforez I, Postgraduate, 2011 - 2012, 2012 - 2013

Biyokimyasal Araştırma Yöntemleri: Spektrofotometrik yöntemler, Doctorate, 2012 - 2013

Gastrointestinal Sistem: Gluconeogenesis and control of blood glucose, Associate Degree, 2012 - 2013

Kamu İhale Mevzuatı ve Pratikte Uygulama: Teknik Şartname Hazırlama, Expertise In Medicine, 2011 - 2012

Hücre Doku ve Organ Sistemleri: Lipoprotein metabolizma bozuklukları, Associate Degree, 2012 - 2013

Gastrointestinal Sistem: The pentose phosphate pathway and other pathways of hexose metabolism, Associate Degree, 2012 - 2013

Hücre Doku ve Organ Sistemleri: Protein sentezi, Associate Degree, 2012 - 2013

Hücre Doku ve Organ Sistemleri: Gen ifadesinin düzenlenmesi ve proteinlerin yönlendirilmeleri, Associate Degree, 2012 - 2013

Klinik Patolojilerde Biyokimyasal Tanı: Yaşlılık Biyokimyası, Expertise In Medicine, 2011 - 2012

1001 Tıp Bilimlerine Giriş Ders Kurulu Uygulamaları: Amino Asitler ve Proteinler, Associate Degree, 2011 - 2012

1001 Tıp Bilimlerine Giriş Ders Kurulu Uygulamaları: Biyokimya Laboratuvarında Güvenlik, Associate Degree, 2011 - 2012

Kalıtsal Metabolik Hastalıkların Biyokimyası: Yağ asidi oksidasyon bozuklukları, Doctorate, 2011 - 2012

Kalıtsal Metabolik Hastalıkların Biyokimyası: Üre siklusu bozuklukları, Doctorate, 2011 - 2012

Biyokimyasal Araştırmalarda Temel İlkeler: Derleme Hazırlanması, Postgraduate, 2011 - 2012

1001 Tıp Bilimlerine Giriş Ders Kurulu Uygulamaları: Lipidlerin Genel Reaksiyonları, Associate Degree, 2011 - 2012

Gastrointestinal Sistem: Mide bağırsak sistem hastalıklarında biyokimyasal değerlendirme, Associate Degree, 2010 - 2011

Genel Biyokimya, Associate Degree, 2011 - 2012

1001 Tıp Bilimlerine Giriş Ders Kurulu Uygulamaları: Karbonhidratların Genel Reaksiyonları, Associate Degree, 2011 - 2012

BİK 112 Nükleik Asit ve Protein Metabolizması: Protein Sentezi ve Posttranslasyonel Modifikasyonlar, Postgraduate, 2011 - 2012

Eser Elementler: Bakır ölçüm ve değerlendirmesi, Doctorate, 2011 - 2012

Klinik Biyokimya Laboratuvar Eğitimi: Nükleik asitler, analiz yöntemleri, uygulama klinik önemi , Expertise In Medicine,

2011 - 2012

Protein Biyokimyası: Analitik Enzimoloji, Doctorate, 2011 - 2012

Protein Biyokimyası: Aktin, miyozin ve moleküler motorlar, Bazal lamina protein kompleksi, Doctorate, 2011 - 2012

Beslenme Biyokimyası: Yağ absorpsiyonunun tedavisi amaçlı inhibisyonu, Postgraduate, 2011 - 2012

Biyomoleküller: Genel Yapısal Özellikler, Associate Degree, 2011 - 2012

Beslenme Biyokimyası: Fiberler ve Sağlık, Postgraduate, 2011 - 2012

Beslenme Biyokimyası: Vücut Kompozisyonu, Enerji Tüketimi ve Enerji Dengesi, Postgraduate, 2011 - 2012

Eser Elementler: Çinko ölçüm ve değerlendirilmesi, Doctorate, 2011 - 2012

Kalıtısal Metabolik Hastalıkların Biyokimyası: Lizozomal enzim bozuklukları, Doctorate, 2011 - 2012

Klinik Biyokimya Laboratuvar Teknikleri: Spektrofotometri, Postgraduate, 2011 - 2012

Biyokimyasal Reaksiyonlar, Associate Degree, 2011 - 2012

Kalıtısal Metabolik Hastalıkların Biyokimyası: Peroksizomal hastalıklar, Doctorate, 2011 - 2012

BİK 109 Biyokimyasal Araştırmalarda Temel İlkeler: Derleme Yazısı, Postgraduate, 2011 - 2012

Biyomoleküllerin Fonksiyonel Grupları, Associate Degree, 2011 - 2012

Protein Biyokimyası: Proteinlerin karakterizasyonu, saflaştırılması ve miktar belirlenimi, Doctorate, 2011 - 2012

Hormon Biyokimyası: Tiroid hormonları, Doctorate, 2010 - 2011

Hormon Biyokimyası: Adrenal korteks ve medulla hormonları, Doctorate, 2010 - 2011

Dokuların Metabolizması ve Hormonlar: Bağ dokusu ve ekstrasellüler matriks biyokimyası, Postgraduate, 2010 - 2011

Biyokimyasal Araştırma Yöntemleri: Otoanalizörler, Doctorate, 2010 - 2011

Temel Laboratuvar Teknikleri: Filtrasyon, santrifüjasyon, homojenizasyon, diyaliz, Expertise In Medicine, 2010 - 2011

Yaşlanma Biyokimyası: Yaşlanmanın matematiksel modelleri, Doctorate, 2010 - 2011

Yaşlanma Biyokimyası: Yaşlanma teorileri: Biyolojik ve kimyasal, Doctorate, 2010 - 2011

Hormon Biyokimyası: Erkek ve kadın cinsiyet hormonları, Doctorate, 2010 - 2011

Biyokimyasal Araştırma Yöntemleri: Yöntemlerin değerlendirilmesi, Doctorate, 2010 - 2011

## Advising Theses

ÇAKATAY U., Kalori kısıtlamasının yaşlı sıçanların böbrek dokularındaki makromoleküllerin redoks homeostasisi üzerine olan etkisi, Postgraduate, A.Dursun(Student), 2019

ÇAKATAY U., Sporadik Alzheimer modelinde, insülin glukoz metabolizması,  $\beta$ -amiloid birikimi ve redoks homeostasisinin araştırılması; lipoik asidin modelin oluşumu üzerine olan etkisinin belirlenmesi, Expertise In Medicine, M.Evren(Student), 2016

## Jury Memberships

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, August, 2020

Appointment Academic Staff, Appointment Academic Staff, Biruni Üniversitesi, April, 2020

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, December, 2016

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, August, 2016

Expertise In Medicine, Expertise In Medicine, İstanbul Üniversitesi, August, 2016

Doctorate, Doctorate, İstanbul Üniversitesi, August, 2016

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2014

Expertise In Medicine, Expertise In Medicine, İstanbul Üniversitesi, December, 2013

Doctorate, Doctorate, İstanbul Üniversitesi, July, 2011

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

1. "Live High Train Low" Hypoxic Training Enhances Exercise Performance with Efficient Redox

### **Homeostasis in Rats' Soleus Muscle**

Çolak R., Ağaşcıoğlu E., Çakatay U.

HIGH ALTITUDE MEDICINE & BIOLOGY, vol.22, no.1, pp.77-86, 2021 (Journal Indexed in SCI)

- II. **Novel biomarkers for the evaluation of aging-induced proteinopathies**  
Yanar K., Atayik M., Simsek B., Çakatay U.  
BIOGERONTOLOGY, vol.21, no.5, pp.531-548, 2020 (Journal Indexed in SCI)
- III. **Early-adulthood caloric restriction is beneficial to improve renal redox status as future anti-aging strategy in rats**  
Dağ A., Yanar K., Atayik M., Simsek B., Belce A., Çakatay U.  
ARCHIVES OF GERONTOLOGY AND GERIATRICS, vol.90, 2020 (Journal Indexed in SCI)
- IV. **Impaired redox homeostasis in the heart left ventricles of aged rats experiencing fast-developing severe hypobaric hypoxia**  
Agascioglu E., ÇOLAK R., Demirel H., ÇAKATAY U.  
BIOGERONTOLOGY, vol.20, no.5, pp.711-722, 2019 (Journal Indexed in SCI)
- V. **Integration of Melatonin Related Redox Homeostasis, Aging, and Circadian Rhythm**  
YANAR K., Simsek B., ÇAKATAY U.  
REJUVENATION RESEARCH, vol.22, no.5, pp.409-419, 2019 (Journal Indexed in SCI)
- VI. **Could cyanogenic glycoside rich diet cause increased risk for carbamylation-induced protein damage in individuals with chronic inflammatory diseases?**  
Simsek B., ÇAKATAY U.  
MEDICAL HYPOTHESES, vol.130, 2019 (Journal Indexed in SCI)
- VII. **Is d-Galactose a Useful Agent for Accelerated Aging Model of Gastrocnemius and Soleus Muscle of Sprague-Dawley Rats?**  
YANAR K., Simsek B., ATUKEREN P., AYDIN S., ÇAKATAY U.  
REJUVENATION RESEARCH, 2019 (Journal Indexed in SCI)
- VIII. **Could ornithine supplementation be beneficial to prevent the formation of pro-atherogenic carbamylated low-density lipoprotein (c-LDL) particles?**  
Şimşek B., Çakatay U.  
Medical Hypotheses, vol.126, pp.20-22, 2019 (Journal Indexed in SCI)
- IX. **Intercellular Adhesion Molecule-1 Lys469Glu Polymorphism, Systemic Redox Homeostasis and Gestational Diabetes Mellitus in Pregnant Women**  
Yanar K., Aydin S., Simsek B., Yaylim I., Turan S., Sitar M. E. , Cacina C., Kucukhuseyin O., Tuten A., Cakatay U., et al.  
CANADIAN JOURNAL OF DIABETES, vol.43, no.3, pp.173-179, 2019 (Journal Indexed in SCI)
- X. **Caloric restriction and redox homeostasis in various regions of aging male rat brain: Is caloric restriction still worth trying even after early-adulthood? Redox homeostasis and caloric restriction in brain**  
YANAR K., Simsek B., Cayli N., Bozkir H. O. , MENGİ M., Belce A., AYDIN S., ÇAKATAY U.  
JOURNAL OF FOOD BIOCHEMISTRY, vol.43, no.3, 2019 (Journal Indexed in SCI)
- XI. **Caloric restriction improves the redox homeostasis in the aging male rat heart even when started in middle-adulthood and when the body weight is stable.**  
Simsek B., Yanar K., Kansu A. D. , Belce A., Aydin S., Cakatay U.  
Biogerontology, vol.20, no.1, pp.127-140, 2019 (Journal Indexed in SCI Expanded)
- XII. **How various concentrations of nutrients affect basal redox homeostasis of fruit flies according to gender and aging**  
Karolin Y., ÇAKATAY U., Seval A.  
JOURNAL OF FOOD BIOCHEMISTRY, vol.42, no.6, 2018 (Journal Indexed in SCI)
- XIII. **High versus Moderate Dosage of Daily and Weekly Administration of Vitamin D Supplements in the Form of Oil Drop in Nursing Home Residents.**  
MOL R., KANSU A., CEBE T., YILDIZ S., BUTUN V., SIMSEK B., Cakatay U.  
Journal of the College of Physicians and Surgeons--Pakistan : JCPSP, vol.28, pp.618-622, 2018 (Journal Indexed in SCI)

- XIV. **Galactose-induced Aging Model in Rat Testicular Tissue.**  
 AYDIN S., YANAR K., SIMSEK B., CEBE T., SITAR M. E. , BELCE A., Cakatay U.  
 Journal of the College of Physicians and Surgeons--Pakistan : JCPSP, vol.28, pp.501-504, 2018 (Journal Indexed in SCI)
- XV. **The effects of lipoic acid on redox status in brain regions and systemic circulation in streptozotocin-induced sporadic Alzheimer's disease model**  
 Erdogan M. E. , Aydin S., Yanar K., Mengi M., Kansu A. D. , Cebe T., Belce A., Celikten M., Cakatay U.  
 METABOLIC BRAIN DISEASE, vol.32, no.4, pp.1017-1031, 2017 (Journal Indexed in SCI)
- XVI. **Gender and chronological age affect erythrocyte membrane oxidative indices in citrate phosphate dextrose adenine-formula 1 (CPDA-1) blood bank storage condition**  
 ERMAN H., Aksu U., Belce A., Atukeren P., Uzun D., Cebe T., Kansu A. D. , Gelisgen R., Uslu E., Aydin S., et al.  
 GENERAL PHYSIOLOGY AND BIOPHYSICS, vol.35, no.3, pp.343-351, 2016 (Journal Indexed in SCI)
- XVII. **Crucial Roles of Systemic and Tissue Lipid Peroxidation Levels and Anti-Oxidant Defences Following Contrast Agent Application**  
 SITAR G., KUCUK M., Sitar M. E. , Yasar O., Aydin S., Yanar K., Cakatay U., Buyukpinarbasili N.  
 IRANIAN RED CRESCENT MEDICAL JOURNAL, vol.18, no.6, 2016 (Journal Indexed in SCI)
- XVIII. **Relation between Endothelial Nitric Oxide Synthase Genotypes and Oxidative Stress Markers in Larynx Cancer**  
 Yanar K., Cakatay U., Aydin S., Verim A., Atukeren P., Ozkan N. E. , Karatoprak K., Cebe T., Turan S., Ozkok E., et al.  
 OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.2016, 2016 (Journal Indexed in SCI)
- XIX. **Individual and Combined Effects of CTLA4-CD28 Variants and Oxidant-Antioxidant Status on the Development of Colorectal Cancer**  
 Kucukhuseyin O., Turan S., Yanar K., Arıkan S., Duzkoylu Y., Aydin S., Cakatay U., Mezani B., Farooqi A. A. , Isitmangil G. A. , et al.  
 ANTICANCER RESEARCH, vol.35, no.10, pp.5391-5400, 2015 (Journal Indexed in SCI)
- XX. **Ameliorative Effects of Testosterone Administration on Renal Redox Homeostasis in Naturally Aged Rats**  
 Yanar K., Atukeren P., Cebe T., Kunbaz A., Ozan T., Kansu A. D. , Durmaz S., Gulec V., Belce A., Aydin S., et al.  
 REJUVENATION RESEARCH, vol.18, no.4, pp.299-312, 2015 (Journal Indexed in SCI)
- XXI. **Age-related changes in rat prostate tissue; perspective of protein oxidation.**  
 UZUN D., Yanar K., Atukeren P., CEBE T., Mengi M., OZAN T., KUNBAZ A., KURUÇ A., Çakatay U., Aydın S.  
 The aging male : the official journal of the International Society for the Study of the Aging Male, vol.18, pp.54-9, 2015 (Journal Indexed in SCI)
- XXII. **Oxidation scrutiny in persuaded aging and chronological aging at systemic redox homeostasis level**  
 Cebe T., Atukeren P., Yanar K., Kuruc A. I. , Ozan T., Kunbaz A., Sitar M. E. , Mirmaroufizibandeh R., Aydin S., Cakatay U.  
 EXPERIMENTAL GERONTOLOGY, vol.57, pp.132-140, 2014 (Journal Indexed in SCI)
- XXIII. **EFFECT OF TEMPOL ON REDOX HOMEOSTASIS AND STRESS TOLERANCE IN MIMETICALLY AGED DROSOPHILA**  
 Aksu U., Yanar K., Terzioglu D., Erkol T., Ece E., Aydin S., Uslu E., Cakatay U.  
 ARCHIVES OF INSECT BIOCHEMISTRY AND PHYSIOLOGY, vol.87, no.1, pp.13-25, 2014 (Journal Indexed in SCI)
- XXIV. **A comprehensive study of myocardial redox homeostasis in naturally and mimetically aged rats.**  
 CEBE T., Yanar K., Atukeren P., OZAN T., KURUÇ A., KUNBAZ A., Sitar M. E. , Mengi M., AYDIN M., EŞREFOĞLU M., et al.  
 Age (Dordrecht, Netherlands), vol.36, pp.9728, 2014 (Journal Indexed in SCI)
- XXV. **Human Serum Albumin and Its Relation with Oxidative Stress**  
 Sitar M. E. , Aydin S., Cakatay U.  
 CLINICAL LABORATORY, vol.59, pp.945-952, 2013 (Journal Indexed in SCI)
- XXVI. **Oxidative damage parameters in renal tissues of aged and young rats based on gender**  
 Uzun D., Korkmaz G. G. , Sitar M. E. , Cebe T., Yanar K., Cakatay U., Aydin S.  
 CLINICAL INTERVENTIONS IN AGING, vol.8, pp.809-815, 2013 (Journal Indexed in SCI)

- XXVII. **CURRENT ASPECTS OF AGEING THEORIES AND CLASSIFICATION ACCORDING TO MECHANISMS**  
Sitar M. E. , Yanar K., Aydin S., Cakatay U.  
TURKISH JOURNAL OF GERIATRICS-TURK GERIATRI DERGISI, vol.16, no.3, pp.339-346, 2013 (Journal Indexed in SCI)
- XXVIII. **Comparison of oxidative stress biomarkers in renal tissues of D-galactose induced, naturally aged and young rats**  
Aydin S., Yanar K., Atukeren P., Dalo E., Sitar M. E. , Uslu E., CAF N., Cakatay U.  
BIOGERONTOLOGY, vol.13, no.3, pp.251-260, 2012 (Journal Indexed in SCI)
- XXIX. **Melatonin ameliorates oxidative damage in hyperglycemia-induced liver injury**  
Korkmaz G. G. , Uzun H., Cakatay U., Aydin S.  
CLINICAL AND INVESTIGATIVE MEDICINE, vol.35, no.6, 2012 (Journal Indexed in SCI)
- XXX. **Protein and DNA Oxidation in Different Anatomic Regions of Rat Brain in a Mimetic Ageing Model**  
Yanar K., Aydin S., Cakatay U., Mengi M., Buyukpinarbasili N., Atukeren P., Sitar M. E. , Sonmez A., Uslu E.  
BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY, vol.109, no.6, pp.423-433, 2011 (Journal Indexed in SCI)
- XXXI. **Protein oxidation markers in women with and without gestational diabetes mellitus: A possible relation with paraoxonase activity**  
Gelisen R., Genc H., Kayali R., Oncul M., Benian A., Guralp O., Uludag S., Cakatay U., Albayrak M., Uzun H.  
DIABETES RESEARCH AND CLINICAL PRACTICE, vol.94, no.3, pp.404-409, 2011 (Journal Indexed in SCI)
- XXXII. **Gender-dependent oxidative variations in liver of aged rats**  
Aydin S., Atukeren P., Cakatay U., Uzun H., Altug T.  
BIOGERONTOLOGY, vol.11, no.3, pp.335-346, 2010 (Journal Indexed in SCI)
- XXXIII. **Redox homeostasis of albumin in relation to alpha-lipoic acid and dihydrolipoic acid**  
Atukeren P., Aydin S., Uslu E., Gumustas M. K. , Cakatay U.  
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY, vol.3, no.3, pp.206-213, 2010 (Journal Indexed in SCI)
- XXXIV. **Gender-dependent variations in systemic biomarkers of oxidative protein, DNA, and lipid damage in aged rats**  
Cakatay U., Aydin S., Yanar K., Uzun H.  
AGING MALE, vol.13, no.1, pp.51-58, 2010 (Journal Indexed in SCI)
- XXXV. **The chance of gender dependency of oxidation of brain proteins in aged rats**  
Uzun H., Kayali R., Cakatay U.  
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## Supported Projects

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- YANAR K., AYDIN S., ÇAKATAY U., CEBE T., Project Supported by Higher Education Institutions, Redox status changes in naturally and mimetically aged rat testicular tissue, 2017 - 2017
- ÇAKATAY U., Project Supported by Higher Education Institutions, Sağlıklı ve sporadik Alzheimer modeli oluşturulan sıçanlardan elde edilen serum albumin ve globulin üzerine in vivo/in vitro oksidatif stres ve alfa lipoik asidin etkisinin incelenmesi, 2015 - 2017
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- ÇAKATAY U., Project Supported by Higher Education Institutions, ?Effect of gender and chronological age on erythrocyte membrane quality in blood bank storage condition?, 2014 - 2014
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ÇAKATAY U., Project Supported by Higher Education Institutions, Relation of eNOS/NOS3 Genotypes and Oxidative Stress Markers in Larynx Cancer Patients, 2013 - 2013  
YANAR K., ÇAKATAY U., TÜBİTAK Project, D-Galaktozla Yaşlanma Modeli Oluşturulan ve Doğal Olarak Yaşlanan Sıçanların Miyokard Dokusundaki Protein, Lipid ve DNA Oksidasyonu, 2012 - 2013  
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### **Activities in Scientific Journals**

Biogerontology, Publication Committee Member, 2020 - Continues  
Current Aging Science, Publication Committee Member, 2020 - Continues  
Annals of Alzheimer's and Parkinson's Diseases, Committee Member, 2018 - Continues  
International Journal of Aging Research, Committee Member, 2018 - Continues  
Current Clinical Pharmacology, Publication Committee Member, 2017 - Continues  
Austin Aging Research, Publication Committee Member, 2016 - Continues  
Peertechz Journal of Gerontology and Geriatric Research, Publication Committee Member, 2015 - Continues  
Annals of Phytomedicine, Publication Committee Member, 2013 - Continues  
Bezmialem Science , Publication Committee Member, 2013 - Continues  
The Open Access Journal of Science and Technology, Publication Committee Member, 2013 - Continues  
Advances in Hematology, Special Issue Editor, 2011 - 2012

### **Memberships / Tasks in Scientific Organizations**

Türkiye Kimya Derneği, Member, 1998 - Continues

### **Scientific Refereeing**

ALCOHOL AND ALCOHOLISM, SCI Journal, January 2022  
TURKISH JOURNAL OF MEDICAL SCIENCES, Journal Indexed in SCI-E, August 2021  
MOLECULAR NUTRITION & FOOD RESEARCH, SCI Journal, May 2021  
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The Journal of Nutrition, Health & Aging, SCI Journal, February 2017  
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Chemico-Biological Interactions, SCI Journal, March 2016  
FEBS Journal, SCI Journal, September 2015  
The Natural Products Journal, Other Indexed Journal, July 2015  
Current Aging Science, Other Indexed Journal, July 2015  
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Journal of the Science of Food and Agriculture:, SCI Journal, January 2014  
International Journal of Pediatrics, Other Indexed Journal, December 2013  
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Journal of Comparative Physiology A, SCI Journal, July 2013  
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Journal of Medicine and Medical Sciences, Other Indexed Journal, March 2011  
Molecular and Cellular Biochemistry, SCI Journal, November 2009  
Disease Markers, SCI Journal, November 2009  
Annals of Clinical Biochemistry, SCI Journal, October 2009  
Applied Physiology, Nutrition and Metabolism , SCI Journal, July 2009  
Pharmacological Research, SCI Journal, March 2009  
British Journal of Nutrition, SCI Journal, February 2009  
Journal of Diabetes and its Complications, SCI Journal, January 2009  
Journal of Cellular and Molecular Medicine, SCI Journal, October 2008  
Chinese Journal of Physiology, SCI Journal, July 2008  
Plant Foods for Human Nutrition, SCI Journal, August 2007  
International Journal of Food Sciences and Nutrition, SCI Journal, July 2007  
Journals of Gerontology Series A-Biological and Medical Sciences, SCI Journal, May 2007  
Clinical Chemistry and Laboratory Medicine, SCI Journal, April 2007  
Diabetologia, SCI Journal, February 2007  
Free Radical Research, SCI Journal, October 2006  
Medical Science Monitor, SCI Journal, September 2006  
Comparative Biochemistry and Physiology, SCI Journal, August 2006  
Nutrition, SCI Journal, July 2006  
Clinica Chimica Acta, SCI Journal, July 2006  
Medicine & Science in Sports & Exercise, SCI Journal, February 2006

## Scientific Consultations

TÜBİTAK, Project Consultancy, İstanbul Üniversitesi, Cerrahpaşa Tıp Fakültesi, Tıbbi Biyokimya Ad, Temel Tıp Bilimleri, Turkey, 2011 - 2013

## Edit Congress and Symposium Activities

International Association of Gerontology and Geriatrics, Audience, Rome, Italy, 2021

İstanbul Üniversitesi, Cerrahpaşa Tıp Fakültesi, Sürekli Tıp Eğitimi Etkinlikleri 91. Sempozyum, Attendee, İstanbul, Turkey, 2017

Hastalıkların Tanı ve İzlenmesinde Biyokimya Laboratuvarının Yeri, Invited Speaker, İstanbul, Turkey, 2013

I. DETAE Günleri, Attendee, İstanbul, Turkey, 2009

Programlı Hücre Ölümü, Attendee, İstanbul Üniversitesi Cerrahpaşa Tıp Fakültesi, Turkey, 2008

Serbest Radikaller ve Antioksidanlar Araştırma Derneği II. Ulusal Kongresi p.106, Attendee, Eskişehir: Osmangazi Üniversitesi Tıp Fakültesi, Turkey, 1999

İstanbul Üniversitesi, İstanbul Tıp Fakültesi, 14. Kurultay:Diabetik hastalarda kemik oluşumundaki yetersizliğe bağlı olarak kemik turnover'ında görülen değişimin idrar deoksipridinolin düzeylerine etkisi, Attendee, İstanbul, Turkey, 1998

İstanbul Üniversitesi İstanbul Tıp Fakültesi 11. Kurultay, Invited Speaker, İstanbul, Turkey, 1991

## Citations

Total Citations (WOS):1758

h-index (WOS):26

## Awards

ÇAKATAY U., Editor's Choice, Journal of Food Biochemistry: <https://onlinelibrary.wiley.com/toc/17454514/2019/43/3>, March 2019

ÇAKATAY U., Actelion Pulmoner Vasküler Hastalıklar Araştırma Ödülü, Türkiye Solunum Araştırmaları Derneği TÜSAD, October 2018

ÇAKATAY U., Winner of Poster Session, 16th Congress of Asian College of Psychomatic Medicine, Jakarta, ENDONEZYA,, August 2014

ÇAKATAY U., Yeni Yüzyıl Üniversitesi III. Bilim Gümleri, T.C. Yeni Yüzyıl Üniversitesi, May 2013

ÇAKATAY U., Yayın Ödül Projeleri (YÖP): Onur Plaketi, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, April 2013

ÇAKATAY U., Akademik Geriatri 2009, Akademik Geriatri Derneği, May 2009

ÇAKATAY U., Top Reviewer Award, Elsevier: Pharmacological Research, January 2008

ÇAKATAY U., Who's Who in Science and Engineering, 2006-2007 - distinction Date of recognition: 2006-09-05; Span: international, Who's Who in Science and Engineering, January 2006

ÇAKATAY U., Yaşlılık ve Sorunları, Acıbadem Sağlık Grubu, February 2002

ÇAKATAY U., Türkiye Diyabet Vakfı Bilimsel Yayın Destek Ödülü (Mansiyon), Türkiye Diyabet Vakfı, December 2000

ÇAKATAY U., Türkiye Diyabet Vakfı Bilimsel Yayın Destek Ödülü (İkincilik), Türkiye Diyabet Vakfı, May 2000