

## Prof. Harun BUDAK

### Personal Information

**Fax Phone:** [+90 442 231 4109](tel:+904422314109)

**Office Phone:** [+90 442 231 4454](tel:+904422314454)

**Email:** [hbudak@atauni.edu.tr](mailto:hbudak@atauni.edu.tr)

**Web:** <https://avesis.atauni.edu.tr/hbudak>

**Address:** Atatürk Üniversitesi, Fen Fakültesi Dekanlık Binası, Moleküler Biyoloji ve Genetik Bölümü, 25240, Yakutiye/ERZURUM.

### International Researcher IDs

ScholarID: 2vud8uQAAAAJ

ORCID: 0000-0002-7371-8959

Yoksis Researcher ID: 38262

### Education Information

Doctorate, Ataturk University, Fen Bilimleri, Turkey 2005 - 2009

Postgraduate, Ataturk University, Fen Bilimleri, Turkey 2002 - 2005

Undergraduate, Ataturk University, Fen Fakültesi, Turkey 1998 - 2002

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Memeli Sirkadian Sisteminde Tip60 Geninin Karakterizasyonu., Atatürk Üniversitesi, Fen Bilimleri, Kimya, 2009

Postgraduate, Fare Genomunda Bulunan Bazı TCA Devri Enzim Genlerinin cDNA'larının Üretilmesi, Antisens mRNA Üretimi ve İn Situ Hibridizasyonu İle Gen Ekspresyon Analizi., Atatürk Üniversitesi, Fen Bilimleri, Kimya, 2005

### Research Areas

Life Sciences, Biochemistry, Metabolism, Molecular Biochemistry, Molecular Biology and Genetics, Animal Molecular Genetics, Molecular Biology of Cancer, Chemistry, Biochemistry, Enzyme Kinetics, Natural Sciences

### Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Moleküler Biyoloji ve Genetik, 2021 - Continues

Associate Professor, Ataturk University, Fen Fakültesi, Moleküler Biyoloji ve Genetik, 2015 - 2021

Assistant Professor, Ataturk University, Fen Fakültesi, Moleküler Biyoloji ve Genetik, 2010 - 2015

Lecturer PhD, Max Planck Institute for biophysical Chemistry, Göttingen/GERMANY , Department of Genes and Behavior, 2009 - 2011

Research Assistant, Max Planck Institute for biophysical Chemistry, Göttingen/GERMANY , Department of Genes and Behavior, 2006 - 2009

Research Assistant, Max Planck Institute of Experimental Endocrinology, Hannover/ GERMANY, 2005 - 2005

## Academic and Administrative Experience

Assistant Coordinator, Ataturk University, 2016 - 2022

Atatürk Üniversitesi, Fen Fakültesi, Moleküler Biyoloji ve Genetik, 2016 - 2017

Fakülte Yönetim Kurulu Üyesi, Ataturk University, Fen Fakültesi, 2016 - 2017

Atatürk Üniversitesi, Fen Fakültesi, Moleküler Biyoloji ve Genetik, 2012 - 2016

## Courses

GENOMİK ve PROTEOMİK UYGULAMALAR, Doctorate, 2022 - 2023, 2021 - 2022

Kronobioloji, Undergraduate, 2022 - 2023

Temel Genetik Laboratuvarı, Undergraduate, 2023 - 2024, 2020 - 2021

Kromatografi, Undergraduate, 2023 - 2024, 2022 - 2023

Kanser Biyolojisi, Undergraduate, 2023 - 2024, 2022 - 2023

Moleküler Biyokimya I, Undergraduate, 2023 - 2024, 2022 - 2023

Biyokimya Laboratuvarı, Undergraduate, 2022 - 2023, 2021 - 2022

Moleküler Biyolojide Kullanılan Yöntemler II, Undergraduate, 2022 - 2023, 2021 - 2022

Genomun Moleküler Analizi, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021

Kanser Biyolojisi, Undergraduate, 2021 - 2022

KANSER GENETİĞİ VE MEKANİZMALARI, Postgraduate, 2021 - 2022

Moleküler Biyolojide Kullanılan Yöntemler I Laboratuvarı, Undergraduate, 2022 - 2023

GENOMUN MOLEKÜLER ANALİZİ, Postgraduate, 2022 - 2023

Transgenik Hayvan Teknolojileri, Undergraduate, 2022 - 2023

Biyokimya Laboratuvarı, Undergraduate, 2020 - 2021

Moleküler Biyolojide Kullanılan Yöntemler II, Undergraduate, 2020 - 2021, 2017 - 2018

Kanser Genetiği ve Mekanizmaları, Postgraduate, 2020 - 2021, 2017 - 2018

Genel Kimya Laboratuvarı 1, Undergraduate, 2021 - 2022

Gen Mühendisliği Laboratuvarı, Undergraduate, 2021 - 2022

Kanser Biyolojisi, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Biyokimya 1, Undergraduate, 2021 - 2022

Kromatografi, Undergraduate, 2021 - 2022, 2020 - 2021

Moleküler Biyolojide Kullanılan Yöntemler I Laboratuvarı, Undergraduate, 2020 - 2021

Genomik ve Proteomik Uygulamalar, Doctorate, 2019 - 2020

## Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Erzurum Teknik Üniversitesi, March, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, December, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Bilecik Şeyh Edebali Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Erzurum Teknik Üniversitesi, November, 2022

Doctoral Examination, Doctoral Examination, Erzurum Teknik Üniversitesi, November, 2022

Associate Professor Exam, Associate Professor Exam, October, 2022

Associate Professor Exam, Associate Professor Exam, October, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Bingöl Üniversitesi, September, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ondokuz Mayıs Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2022

Associate Professor Exam, Associate Professor Exam, March, 2022

Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurul Başkanlığı, March, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, February, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ağrı İbrahim Çeçen Üniversitesi, October, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, May, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, November, 2020

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

- I. **Diffractaic acid exerts anti-cancer effects on hepatocellular carcinoma HepG2 cells by inducing apoptosis and suppressing migration through targeting thioredoxin reductase 1**  
Sulukoglu E. K., GÜNAYDIN Ş., Kalin S. N., ALTAY A., BUDAK H.  
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.397, no.8, pp.5745-5755, 2024 (SCI-Expanded)
- II. **Parthenolide as a potential analgesic in the treatment of paclitaxel-induced neuropathic pain: the rat modeling**  
TORAMAN E., BAYRAM C., Sezen S., ÖZKARACA M., HACİMÜFTÜOĞLU A., BUDAK H.  
NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, vol.396, no.12, pp.3707-3721, 2023 (SCI-Expanded)
- III. **Diffractaic acid exhibits thioredoxin reductase 1 inhibition in lung cancer A549 cells**  
Gunaydin S., Sulukoglu E. K., Kalin S. N., ALTAY A., BUDAK H.  
JOURNAL OF APPLIED TOXICOLOGY, vol.43, no.11, pp.1676-1685, 2023 (SCI-Expanded)
- IV. **Evaluated periodontal tissues and oxidative stress in rats with neuropathic pain-like behavior**  
Toraman A., Toraman E., Özkaraca M., Budak H.  
MOLECULAR BIOLOGY REPORTS, vol.50, no.11, pp.9315-9322, 2023 (SCI-Expanded)
- V. **Quantitative investigation of the bacterial content of periodontal abscess samples by real-time PCR**  
Ergün E., Toraman E., Barış Ö., Budak H., Demir T.  
JOURNAL OF MICROBIOLOGICAL METHODS, vol.213, 2023 (SCI-Expanded)
- VI. **Effect of Evernic Acid on Human Breast Cancer MCF-7 and MDA-MB-453 Cell Lines via Thioredoxin Reductase 1: a Molecular Approach.**  
Kalin Ş. N., Altay A., Budak H.  
Journal of applied toxicology : JAT, vol.43, no.8, pp.1148-1158, 2023 (SCI-Expanded)
- VII. **Comparison of the efficacy of the mouse hepatic and renal antioxidant systems against inflammation-induced oxidative stress**  
Hukkamlı B., Dağdelen B., Sönmez Aydın F., BUDAK H.  
Cell Biochemistry and Biophysics, vol.81, no.2, pp.299-311, 2023 (SCI-Expanded)
- VIII. **Depletion of *Tip60/Kat5* affects the hepatic antioxidant system in mice**  
Kocpinar E. F., Baltacı N., AKKEMİK E., BUDAK H.  
JOURNAL OF CELLULAR BIOCHEMISTRY, vol.124, no.1, pp.103-117, 2023 (SCI-Expanded)
- IX. **Fluoride exposure causes behavioral, molecular and physiological changes in adult zebrafish (*Danio rerio*) and their offspring**  
Karaman M., Toraman E., Sulukan E., Baran A., Bolat İ., Yıldırım S., Kankaynar M., Ghosigharehagaji A., Budak H., Ceyhun S. B.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.97, 2023 (SCI-Expanded)
- X. **Inhibition of thioredoxin reductase 1 by vulpinic acid suppresses the proliferation and migration of human breast carcinoma**  
Kalin S. N., ALTAY A., BUDAK H.  
LIFE SCIENCES, vol.310, 2022 (SCI-Expanded)
- XI. ***Tip60/Kat5* may be a novel candidate histone acetyltransferase for the regulation of liver iron localization via acetylation**  
Baltacı N., TORAMAN E., Akyuz M., Kalin S. N., BUDAK H.  
BIOMETALS, vol.35, no.6, pp.1187-1197, 2022 (SCI-Expanded)

- XII. **Increased nociceptive sensitivity is associated with periodontal inflammation and expression of chronic pain genes in gingival tissues of male rats.**  
Toraman A., Toraman E., Özkaraca M., Budak H.  
Chemico-biological interactions, vol.366, pp.110128, 2022 (SCI-Expanded)
- XIII. **Diffraetaic acid, a novel TrxR1 inhibitor, induces cytotoxicity, apoptosis, and antimigration in human breast cancer cells**  
Kalin S. N., ALTAY A., BUDAK H.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.361, 2022 (SCI-Expanded)
- XIV. **Tip60 might be a candidate for the acetylation of hepatic carbonic anhydrase I and III in mice**  
Gonul Baltaci N., Koçpınar E. F., Budak H.  
MOLECULAR BIOLOGY REPORTS, no.11, pp.7397-7404, 2021 (SCI-Expanded)
- XV. **Coaction of hepatic thioredoxin and glutathione systems in iron overload-induced oxidative stress.**  
Sönmez Aydın F., Hukkamlı B., Budak H.  
Journal of biochemical and molecular toxicology, vol.35, 2021 (SCI-Expanded)
- XVI. **The protective effect of the cardiac thioredoxin system on the heart in the case of iron overload in mice.**  
Altun S., Budak H.  
Journal of trace elements in medicine and biology : organ of the Society for Minerals and Trace Elements (GMS), vol.64, pp.126704, 2021 (SCI-Expanded)
- XVII. **Gastroprotective effects of oleuropein and thymol on indomethacin-induced gastric ulcer in Sprague-Dawley rats**  
Koç K., Çeriğ S., Uçar S., Çolak S., Bakır M., Erol H. S., Yıldırım S., Mirkhalil H., Şimşek Özek N., Aysin F., et al.  
DRUG AND CHEMICAL TOXICOLOGY, vol.43, no.5, pp.441-453, 2020 (SCI-Expanded)
- XVIII. **An in vivo and in vitro comparison of the effects of amoxicillin, gentamicin, and cefazolin sodium antibiotics on the mouse hepatic and renal glutathione reductase enzyme**  
Güller P., Budak H., Şişeciöğlü M., Çiftci M.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.34, no.7, 2020 (SCI-Expanded)
- XIX. **Effect of a Prolonged Dietary Iron Intake on the Gene Expression and Activity of the Testicular Antioxidant Defense System in Rats**  
Kocpınar E. F., Gönül Baltacı N., Ceylan H., Kalın S. N., Erdoğan O., Budak H.  
BIOLOGICAL TRACE ELEMENT RESEARCH, no.1, pp.135-141, 2020 (SCI-Expanded)
- XX. **The Effects of Amoxicillin, Cefazolin, and Gentamicin Antibiotics on the Antioxidant System in Mouse Heart Tissues**  
Savci A., Kocpınar E. F., BUDAK H., Ciftci M., ŞİŞECİÖĞLÜ M.  
PROTEIN AND PEPTIDE LETTERS, vol.27, no.7, pp.614-622, 2020 (SCI-Expanded)
- XXI. **Examining the link between dose-dependent dietary iron intake and Alzheimer's disease through oxidative stress in the rat cortex**  
Ceylan H., Budak H., Kocpınar E. F., Baltacı N., Erdoğan O.  
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, pp.198-206, 2019 (SCI-Expanded)
- XXII. **Amoxicillin and gentamicin antibiotics treatment adversely influence the fertility and morphology through decreasing the Dazl gene expression level and increasing the oxidative stress**  
Karaman M., BUDAK H., Ciftci M.  
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, vol.125, no.5, pp.447-455, 2019 (SCI-Expanded)
- XXIII. **Acetylation of BMAL1 by TIP60 controls BRD4-P-TEFb recruitment to circadian promoters**  
PETKAU N., Budak H., ZHOU X., OSTER H., Eichele G.  
ELIFE, vol.8, 2019 (SCI-Expanded)
- XXIV. **In vitro and in vivo effects of iron on the expression and activity of glucose 6-phosphate dehydrogenase, 6-phosphogluconate dehydrogenase, and glutathione reductase in rat spleen**  
Gonul B., Guler C., Ceylan H., Kalın S., Adem S., Kocpınar E. F., Erdogan O., Budak H.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, no.1, 2019 (SCI-Expanded)

- XXV. **A novel therapeutics agent: antioxidant effects of hydroxylfasudil on rat kidney and liver tissues in a protamine sulphate-induced cystitis rat model; preliminary results**  
BOZKURT A., BUDAK H., Erol H. S., Can S., Mercantepe T., Akin Y., ÖZBEY İ., ÇANKAYA M., Halici M. B., ÇOBAN T. A.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.46, pp.9-14, 2018 (SCI-Expanded)
- XXVI. **A Comparison of the Inhibitory Effects of Anti-Cancer Drugs on Thioredoxin Reductase and Glutathione S-Transferase in Rat Liver**  
Özgençli I., KILIÇ D., Guller U., Ciftci M., Kufrevioglu Ö. İ., BUDAK H.  
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.18, no.14, pp.2053-2061, 2018 (SCI-Expanded)
- XXVII. **Lichen Acids May Be Used as A Potential Drug For Cancer Therapy; by Inhibiting Mitochondrial Thioredoxin Reductase Purified From Rat Lung**  
Özgençli I., BUDAK H., Ciftci M., Anar M.  
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.18, no.11, pp.1599-1605, 2018 (SCI-Expanded)
- XXVIII. **A compendium of expression patterns of cholesterol biosynthetic enzymes in the mouse embryo**  
ŞİŞECİOĞLU M., BUDAK H., GEFTERS L., ÇANKAYA M., Ciftci M., THALLER C., EICHELE G., KÜFREVİOĞLU Ö. İ., ÖZDEMİR H.  
JOURNAL OF LIPID RESEARCH, vol.56, no.8, pp.1551-1559, 2015 (SCI-Expanded)
- XXIX. **Stimulation of gene expression and activity of antioxidant related enzyme in Sprague Dawley rat kidney induced by long-term iron toxicity**  
Budak H., Kocpinar E. F., Gonul N., Ceylan H., Erol H. S., Erdoğan O.  
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, pp.44-50, 2014 (SCI-Expanded)
- XXX. **Expression of Glucose-6-Phosphate Dehydrogenase and 6-Phosphogluconate Dehydrogenase in Oxidative Stress Induced by Long- Term Iron Toxicity in Rat Liver**  
BUDAK H., CEYLAN H., Kocpinar E. F., Gonul N., ERDOĞAN O.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, no.5, pp.217-223, 2014 (SCI-Expanded)
- XXXI. **Impact of long term Fe<sup>3+</sup> toxicity on expression of glutathione system in rat liver**  
BUDAK H., GONUL N., Ceylan H., KOCPINAR E.  
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, no.1, pp.365-370, 2014 (SCI-Expanded)
- XXXII. **The sexually dimorphic adipose fin is an androgen target tissue in the brown trout (*Salmo trutta fario*)**  
HİSAR O., Sönmez A. Y., HİSAR Ş. A., BUDAK H., GÜLTEPE N.  
FISH PHYSIOLOGY AND BIOCHEMISTRY, vol.39, no.2, pp.233-241, 2013 (SCI-Expanded)
- XXXIII. **Purification and characterization of glutathione S transferase from turkey liver and inhibition effects of some metal ions on enzyme activity**  
AKKEMİK E., GÜLLER P., AYŞEGÜL B., BUDAK H., ÇİFTÇİ M.  
Environmental Toxicology And Pharmacology, vol.34, no.3, pp.888-894, 2012 (SCI-Expanded)
- XXXIV. **In vitro effects of some drugs on human erythrocyte glutathione reductase.**  
AKKEMİK E., Senturk M., ÖZGERİŞ F. B., Taser P., Ciftci M.  
Journal of enzyme inhibition and medicinal chemistry, vol.27, no.2, pp.18-23, 2012 (SCI-Expanded)
- XXXV. **Effects of some drugs on human erythrocyte glucose 6-phosphate dehydrogenase: an in vitro study**  
Akkemik E., BUDAK H., ÇİFTÇİ M.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.25, no.6, pp.871-875, 2010 (SCI-Expanded)
- XXXVI. **Effects of some drugs on human erythrocyte 6-phosphogluconate dehydrogenase: an in vitro study**  
Akkemik E., BUDAK H., ÇİFTÇİ M.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.25, no.4, pp.476-479, 2010 (SCI-Expanded)
- XXXVII. **An analysis of expression patterns of genes encoding proteins with catalytic activities**  
ÇANKAYA M., HERNANDEZ A. M., Ciftci M., Beydemir S., Ozdemir H., Budak H., Gulcin I., COMAKLI V., EMIRCUPANI T., EKINCI D., et al.  
BMC GENOMICS, vol.8, 2007 (SCI-Expanded)

## Articles Published in Other Journals

### I. Use of Herbal Extracts in Edible Film and Coatings

PEKDOĞAN E., Akkemik E., Hallaç B.

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.1, pp.271-283, 2024 (Peer-Reviewed Journal)

## Books & Book Chapters

### I. Western Blot Tekniği

Koçpınar E. F., Gönül N., Çakır Ş., Bastem A., Budak H. (Editor)

in: III Uygulamalı Moleküler Biyoloji Teknikleri Lisansüstü Yaz Okulu, Prof.Dr. Orhan ERDOĞAN,Doç.Dr. Saltuk Buğrahan CEYHUN,Doç.Dr. Melda ŞİŞECİOĞLU,Doç.Dr. Emre KARAKUŞ,Doç.Dr. Harun BUDAK, Editor, Aktif, Erzurum, pp.97-120, 2016

### II. Moleküler Biyoloji Teknikleri Laboratuvar El Kitabı

ERDOĞAN O., ADIGÜZEL A., AŞKIN H., ŞİŞECİOĞLU M., TAŞKIN M., BUDAK H., ANAR M., CEYLAN H., ÜNVER Y., YILDIZ M., et al.

Aktif Yayınevi, G.M.K Bulvarı No:32/C Kızılay-Ankara, Erzurum, 2014

### III. Moleküler Biyoloji ve Genetik İlgili Çeşitli Veri Tabanları ve Paket Programların Kullanımları, Western Blot Tekniği

Budak H.

in: Moleküler Biyoloji Teknikleri Laboratuvar El Kitabı, Prof.Dr. Orhan ERDOĞAN, Editor, Aktif Yayınevi, Ankara, pp.37-147, 2014

### IV. Western Blotlama

Budak H., Küfrevioğlu Ö. İ., Ceylan H., Şahin F., Akkemik E.

in: Uygulamalı Moleküler Biyoloji Teknikleri Lisansüstü Yaz Okulu Kitabı, Küfrevioğlu Ö.İ.,Watae S.,Çiltaş A.,Erdogan O., Editor, Aktif Yayınevi, Ankara, pp.57-62, 2011

## Refereed Congress / Symposium Publications in Proceedings

### I. INVESTIGATION of THE THERAPEUTIC EFFECT OF PARTHENOLIDE on PACLITAXEL-INDUCED NEUROPATHIC PAIN in RATS

Toraman E., Budak H.

FAREAST 1st INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Ha-Noi, Vietnam, 2 - 06 July 2023, pp.78-83

### II. Changes in activity of antioxidant enzymes in zebrafish muscle after chronically exposed to fluoride

Karaman M., Toraman E., Ceyhun S. B., Budak H.

5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Turkey, 23 - 25 November 2022, pp.573-576

### III. Protective Effect of Parthenolide on Paclitaxel-Induced Liver Toxicity

Keleş F., Toraman E., Budak H.

4th Eurasia Biochemical Approaches & Technologies Congress (4. EBAT), Antalya, Turkey, 3 - 06 November 2022

### IV. The role of TIP60 in the regulation of metabolism and its mechanisms of action

BUDAK H.

III. International Enzyme and Bioprocess Days EBDays 2022, Tokat, Turkey, 9 September - 11 November 2022

### V. Evaluation of Thioredoxin Reductase 1-Targeted Anticancer Effect of Evernic Acid on Human Lung Cancer A549 Cell Line

GÜNAYDIN Ş., KALIN Ş. N., KARACA SULUKOĞLU E., ALTAY A., BUDAK H.

4th Eurasia Biochemical Approaches & Technologies Congress (4. EBAT), Antalya, Turkey, 3 - 06 November 2022

- VI. **Anti-cancer Effect of Diffractaic Acid on Hepatocellular Carcinoma through Inducing of Apoptosis and Suppression of Metastasis**  
Karaca E., Günaydın Ş., Kalın Ş. N., Altay A., Budak H.  
3rd Eurasia Biochemical Approaches & Technologies Congress (3. EBAT), Antalya, Turkey, 4 - 07 November 2021, pp.64
- VII. **A Comparative Study on Antioxidant System in Mouse Liver and Kidney Affected by Lipopolysaccharide-Induced Inflammation**  
Hukkamlı B., Dağdelen B., Sönmez Aydın F., Budak H.  
3rd Eurasia Biochemical Approaches & Technologies Congress (3. EBAT), Antalya, Turkey, 4 - 07 November 2021, pp.59
- VIII. **Investigation of Thioredoxin Reductase-Targeted Anticancer Effect of Diffractaic Acid on Human Lung Cancer**  
Günaydın Ş., Karaca E., Kalın Ş. N., Altay A., Budak H.  
3rd Eurasia Biochemical Approaches & Technologies Congress (3. EBAT), Antalya, Turkey, 4 - 07 November 2021, pp.85
- IX. **Investigation of Anti-Cancer Effects of Enantiomerically Pure (S)-4-Aminoquinazoline Derivatives on Human Liver (HepG2) Cancer Cell Line**  
Polat E., Karaca E., Günaydın Ş., Budak H., Çakıcı M.  
3rd Eurasia Biochemical Approaches & Technologies Congress (3. EBAT), Antalya, Turkey, 4 - 07 November 2021, pp.86
- X. **Diffractaic Acid Induces Cytotoxicity and Apoptosis in MCF-7 Cell Line**  
Kalın Ş. N., Altay A., Budak H.  
3rd Eurasia Biochemical Approaches & Technologies Congress (3. EBAT), Antalya, Turkey, 4 - 07 November 2021, pp.51
- XI. **EFFECT of CHRONIC FLUORIDE ADMINISTRATION on ANTIOXIDANT ENZYMES in ZEBRAFISH LIVER**  
Toraman E., Karaman M., Sulukan E., Ceyhun S. B., Budak H.  
3. INTERNATIONAL SCIENCES AND INNOVATION CONGRESS, Ankara, Turkey, 21 - 22 November 2021, pp.71-84
- XII. **The Effect of Parthenolide on Testicular Oxidative Stress during Paclitaxel-Induced Neuropathic Pain in Rat**  
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3rd Eurasia Biochemical Approaches & Technologies Congress (3. EBAT), Antalya, Turkey, 4 - 07 November 2021, pp.94
- XIII. **Evaluation of Oxidative Damage and Inflammation in Periodontal Tissues of Rats with Paclitaxel-Induced Neuropathic Pain**  
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- XIV. **The comparison of TXNIP-mediated response of hepatic and renal glutathione systems during iron overload**  
SÖNMEZ AYDIN F., BUDAK H.  
2nd Eurasia Biochemical Approaches & Technologies Congress (2. EBAT), Antalya, Turkey, 26 - 29 October 2019
- XV. **Protection of hepatic tissue via glutathione system during the acute inflammation**  
HUKKAMLI B., BUDAK H.  
2nd Eurasia Biochemical Approaches & Technologies Congress (2. EBAT), Antalya, Turkey, 26 - 29 October 2019
- XVI. **The Protective Role of Thioredoxin- Interacting Protein (TXNIP) Against Oxidative Stress in Mouse Heart Tissue**  
ALTUN S., BUDAK H.  
2nd Eurasia Biochemical Approaches & Technologies Congress (2. EBAT), Antalya, Turkey, 26 - 29 October 2019



- XVII. Expression and Function of Hepatic and Renal Thioredoxin System in Mice Treated with Iron**  
SÖNMEZ F., BUDAK H.  
1st Eurasia Biochemical Approaches Technologies, Antalya, Turkey, 27 - 30 October 2018
- XVIII. Investigation of the Effect of Acute Inflammation on Hepatic and Renal Thioredoxin System in Mice**  
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1st Eurasia Biochemical Approaches Technologies, Antalya, Turkey, 27 - 30 October 2018
- XIX. The Effect of Iron on Thioredoxin System in Mouse Heart Tissue**  
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- XX. Western Blot Tekniği**  
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- XXI. Effects of long term iron toxicity on antioxidant related enzyme in rat spleen at gene and protein level**  
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- XXV. The Investigation of the Relationship Between TIP60 and STAT3**  
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- XXVI. The Effect of Acute Inflammation on Antioxidant System and Various Pathways Related with This System**  
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- XXVII. THE RELATIONSHIP BETWEEN IRON TOXICITY AND INFERTILITY**  
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- XXVIII. Gentamisin Sülfat, Amoksisilin ve Sefazolin Sodyum Antibiyotiklerinin Fare Kalp Dokusundaki Antioksidan Sistem Üzerine Etkilerinin Gen ve Protein Seviyesinde İncelenmesi**  
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- XXIX. Investigation of the Effects of Some Anticancer Agents on The Activity of Mitochondrial Thioredoxin Reductase and Cytosolic Glutathione S-transferase by Purification, Kinetic and Molecular Docking Studies**  
ÖZGENÇLİ İ., KILIÇ D., ÇİFTÇİ M., KÜFREVİOĞLU Ö. İ., BUDAK H.  
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- XXX. Investigation of the Effects of Some Anticancer Agents on the Activity of Mitochondrial Thioredoxin Reductase and Cytosolic Glutathione S-transferase by Purification, Kinetic and Molecular Docking Studies**

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- XXXI. **Gentamisin, amoksisilin ve sefazolin sodyum antibiyotiklerinin fare karaciğer ve böbrek glutatyon redüktaz enziminin aktivite, protein ve gen ekspresyon düzeyleri üzerine etkilerinin incelenmesi**  
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- XXXII. **The impact of Tip60 gene on antioxidant system**  
KOÇPINAR E. F., GONUL N., AKKEMİK E., GREGOR E., BUDAK H.  
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- XXXIII. **Stimulation of gene expression and activities of some renal antioxidant enzymes during inflammation**  
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- XXXIV. **Impact of amoxicillin gentamicin and cefazolin sodium antibiotics on antioxidant gene expression and enzymatic activities in mouse liver**  
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- XXXV. **The role of Tip60 in the inflammation process**  
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- XXXVII. **Some Lichen Acids May Be Used as a Potential Drug For Cancer Therapy By Inhibiting Mitochondrial Thioredoxin Reductase**  
İLKNUR Ö., BUDAK H., ÇİFTÇİ M., ANAR M.  
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- XXXVIII. **Novel Genomic And Proteomic Effects Of Hydroxyfasudil In Ps Induced Rat Bladder Preliminary Results**  
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- XLI. **Oxidative Stress in Rat Cortex**  
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- XLII. **Gene Expression and Activity of Some Antioxidant Enzyme in Oxidative Stress Induced by Long-Term Iron Overload in Rat Liver and Kidney**  
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- XLIII. **Tip60 Geninin Glutatyon Redüktaz Gen Ekspresyonu ve Enzim Aktivitesi Üzerine Etkisi**  
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- XLIV. **Tip60'ın Karbonik Anhidraz 1 Gen Ekspresyonu Üzerine Etkisinin Sirkadian Döngü İçerisinde Araştırılması**  
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- XLV. **Tip60 Geninin Demir Düzenleyici Hormon Hepsidin (Hamp) Üzerine Etkisinin Araştırılması**  
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- XLVI. **PCR ile genotipleme ve blotlama teknikleri**  
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- XLVII. **Glutasyon-S-Transferaz Enziminin Hindi Karaciğerinden Saflaştırılması, Karakterizasyonu ve Bazı Metallerin Enzim Aktivitesi Üzerine Etkilerinin incelenmesi**  
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- XLVIII. **Fare Genomunda Bulunan Safra Asitleri Sentezinde Görev Alan Bazı Enzim Genlerinin cDNA'xxlarının Üretilmesi ve İn Situ Hibridizasyonu İle Gen Ekspresyon Analizi**  
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- XLIX. **In vitro inhibition of some cardiovascular drugs on human serum carbonic anhydrase VI**  
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- LI. **Fare Genomunda Bulunan Bazı Kolesterol Sentez Metabolizması Genlerinin İn Situ Hibridizasyon Tekniği İle Gen Ekspresyon Analizleri**  
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- LII. **Fare Genomunda Bulunan Glutamat Metabolizması Transaminaz Genlerinin Değişik Embriyonik Evreler Ve Yetişkin Fare Beynindeki P56 Ekspresyonlarının in situ Hibridizasyon Tekniği İle Analizi**  
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- LIV. **Fare heksokinaz ve glukokinaz cDNA'larının üretilmesi ve in situ hibridizasyon tekniği ile gen ekspresyon analizi**  
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- LV. **Fare genomunda bulunan bazı TCA devri enzim genlerinin cDNA'larının üretilmesi ve in situ hibridizasyon tekniği ile gen ekspresyon analizi**  
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## Supported Projects

HACİMÜFTÜOĞLU A., OKKAY U., ÇELEBİ D., ÜNVER Y., BUDAK H., ÖZDEMİR H., Project Supported by Higher Education Institutions, Yeni Korona Virüs Hastalığı 2019a COVID19 Karşı İki Farklı Ekspresyon Sistemi Kullanılarak Aşı Geliştirilmesi, 2022 - 2024

ERDOĞAN O., YILMAZ A., ÖMEROĞLU M. A., ADIGÜZEL A., ŞİŞMAN T., ŞİŞECİOĞLU M., BUDAK H., ÖZKAN H., AŞKIN H., ÜNVER Y., et al., Project Supported by Higher Education Institutions, Moleküler Biyoloji ve Genetik Bölümü Kanser Araştırma Laboratuvarı Araştırma Altyapısının Desteklenmesi, 2022 - 2023

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Çelebi S., Özdemir H., Hacımüftüoğlu A., Budak H., Yıldırım S., Ünver Y., Çelebi D., Okkay U., Kalın R., Anakök Ö. F., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Yeni Korona Virüs Hastalığı 2019'a (COVID-19) Karşı İki Farklı Ekspresyon Sistemi Kullanılarak Aşı Geliştirilmesi, 2020 - 2023

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KARAMAN M., BUDAK H., CEYHUN S. B., TORAMAN E., Project Supported by Higher Education Institutions, Kronik Florür Uygulanmasının Anksiyete Benzeri Davranış ve Sirkadiyen Saat Üzerine Etkisinin Zebra Balıklarında Araştırılması, 2020 - 2022

BUDAK H., ALTAY A., ÇAKIR Ş. N., Project Supported by Higher Education Institutions, İnsan Meme Kanser Hücre Hatları Üzerine Bazı Liken Asitlerinin Tiyoredoksin Sistem Hedefli Antikanser Etkisinin Gen ve Protein Seviyesinde Araştırılması, 2019 - 2022

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Budak H., TÜBİTAK Project, Tip60 Geninin Demir Homeostazisi ve İnflamasyon Üzerine Etkisinin Fare Karaciğerinde Araştırılması, Burslu, Sonuçlandı, KBAG - Kimya Biyoloji Araştırma Destek Grubu, 2014 - 2017

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BUDAK H., EU Supported Other Project, Arı Sütünün Zebra Balığı (Danio rerio) Diyetlerinde Bazı Antioksidan Enzim (SOD, CAT, GPx ve GR) Aktiviteleri ve Antioksidan, Büyüme (GH ve IGF-I) ve İmmün Sistem (TGF-β) Doku Spesifik Gen Ekspresyonları Üzerine Olan Etkisi, 2014 - 2015

BUDAK H., Project Supported by Higher Education Institutions, TİP60 GENİNİN OKSİDATİF STRES ÜZERİNE ETKİSİNİN FARE KARACİĞERİNDE ARAŞTIRILMASI, 2013 - 2015

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ERDOĞAN O., BUDAK H., Project Supported by Higher Education Institutions, SIÇAN (RATTUS NORVEGICUS) BEYNİNDEN ASETİLKOLİN ESTERAZ (ACHE) GENİNİN KLONLANMASI, EKSPRESYONU, BAZI METALLERİN VE İLAÇLARIN ENZİM AKTİVİTESİ ÜZERİNE İN VİTRO ETKİLERİNİN SAPTANMASI, 2012 - 2014

BOZDEMİR Ö. A., BUDAK H., Project Supported by Higher Education Institutions, PERİLEN BİSİMİT ESASLI YÜK-TRANSFER KİMYASAL ALGILAYICILARININ SENTEZİ VE METAL İYONU TAYİNİ UYGULAMALARI, 2011 - 2013  
HACİMÜFTÜOĞLU A., ÇETİN D., BUDAK H., Project Supported by Higher Education Institutions, HEPATİK ENSEFALOPATİ HAYVAN MODELİNDE FARKLI BEYİN BÖLGELERİNDE GLUTAMAT TRANSPORTER EKSPRESYON DEĞİŞİMİNİN İN VİVO VOLTAMETRİK VE İMMÜNFLORASAN YÖNTEMLERLE GÖSTERİLMESİ VE GLUTAMAT TRASPORTER DEĞİŞTİRİCİ İLAÇLARIN BU HASTALIKTAKİ MUHTEMEL FAYDALI ETKİLERİNİN İSPATLANMASI, 2011 - 2013  
BUDAK H., ÇETİN D., Project Supported by Higher Education Institutions, ANTİKANSER İLAÇLARLA OLUŞAN AĞRI YAN ETKİSİNİN BEYİNDE GLUTAMAT TAŞIYICILARININ EKSPRESYON SEVİYELERİ İLE İLİŞKİSİ, 2011 - 2013  
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BUDAK H., Project Supported by Higher Education Institutions, TİP 60 IN SİRKADİAN GEN EKSPRESYONU ÜZERİNDEKİ ETKİSİNİN FARE KARACİĞERİNDE İNCELENMESİ, 2010 - 2011  
Küfrevioğlu Ö. İ., Özdemir H., Çiftçi M., Şişecioğlu M., Çankaya M., Ekinci D., TÜBİTAK Project, Farede Bazı Lipid ve Amino Asit Metabolizması Enzim Genlerinin Ekspresyon Analizi, 2006 - 2008

## Scientific Consultations

AYBEG LAB. MED. SAĞL. TURZ. MAK. YAZILIM LTD. ŞTİ, Project Consultancy, Ataturk University, Fen Fakültesi, Moleküler Biyoloji ve Genetik, Turkey, 2021 - 2021

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## Congress and Symposium Activities

1st Eurasia Biochemical Approaches & Technologies Congress, Session Moderator, Antalya, Turkey, 2018

1st Eurasia Biochemical Approaches & Technologies (1. EBAT) Congress, Attendee, Antalya, Turkey, 2018

Araştırmada ve Tıbbi Uygulamada Kullanılan Moleküler Laboratuvar Teknikleri: Uygulamalı Eğitim Kursu, Attendee, Ankara, Turkey, 2018

Araştırmada ve Tıbbi Uygulamada Kullanılan Moleküler Laboratuvar Teknikleri: Uygulamalı Eğitim Kursu, Invited Speaker, Ankara, Turkey, 2018

Laboratuvar Uygulamalarında Moleküler Tekniklerin Yeri ve Kullanımı Kursu, Attendee, Adana, Turkey, 2018

Laboratuvar Uygulamalarında Moleküler Tekniklerin Yeri ve Kullanımı Kursu, Invited Speaker, Adana, Turkey, 2018

28th National Biochemistry Congress, Attendee, Erzurum, Turkey, 2017

Nutrigenomik Çalıştayı, Invited Speaker, Erzurum, Turkey, 2015

Nutrigenomik Çalıştayı, Attendee, Erzurum, Turkey, 2015

3rd International Congress of the Molecular Biology Association of Turkey, Attendee, İzmir, Turkey, 2014

XIII. Tıbbi Biyoloji ve Genetik Kongresi, Attendee, Aydın, Turkey, 2013

The 9th International Conference on Carbonic Anhydrase (CA), Attendee, Antalya, Turkey, 2012

25. Uluslararası Katılımlı Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011

Uygulamalı Moleküler Biyoloji Teknikleri Lisansüstü Yaz Okulu, Attendee, Turkey, 2011

6. Uygulamalı Moleküler Biyoloji Teknikleri Lisansüstü Yaz Okulu, Attendee, Turkey, 2011

XXII. Ulusal Biyokimya Kongresi, Attendee, Eskişehir, Turkey, 2010

XXII.Ulusal Biyokimya Kongresi, Invited Speaker, Eskişehir, Turkey, 2010

8th International Conference on the Carbonic Anhydrase, Attendee, Firenze, Italy, 2009

Horizons in Molecular Biology", 5th International PhD Student Symposium, Attendee, Göttingen, Germany, 2008

Introductory Course in Laboratory Animals: Handling, Techniques and Theory, Attendee, Göttingen, Germany, 2008

## **Scholarships**

Doktora Sonrası Araştırma Bursu, Other International Organizations, 2009 - 2011

Doktora Bursu, Other International Organizations, 2006 - 2009

Yüksek Lisans Bursu, Other International Organizations, 2005 - 2005

## **Awards**

BUDAK H., Biyokimya Dalında Poster Birincilik Ödülü., XIX.Ulusal Kimya Kongresi Organizasyon Komitesi, July 2005

## **Non Academic Experience**

Other Public Institution, Max Planck Institute For Biophysical Chemistry, Göttingen/Germany

State Agency, Max Planck Institute For Biophysical Chemistry, Göttingen/Germany

State Agency, Max Planck Institute Of Experimental Endocrinology, Hannover/Germany