

# Prof. GÜL ÖZDEMİRLER

## Personal Information

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## International Researcher IDs

ScholarID: NfGQ3CIAAAAJ

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ScopusID: 6602373399

Yoksis Researcher ID: 56483

## Education Information

Doctorate, Istanbul University, Turkey 1989 - 1991

Expertise In Medicine, Istanbul University, Istanbul Medical Faculty, Turkey 1985 - 1989

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 1980 - 1984

## Foreign Languages

English

## Dissertations

Doctorate, Glutasyon ve glutasyon ile ilgili enzimlerin zehirsizleştirmedeki rollerinin karaciğer hücre fraksiyonlarında incelenmesi, Istanbul University, 1991

Expertise In Medicine, Akut etanol uygulamasının sıçanların karaciğer mitokondri ve mikrozoamlarında lipit peroksit düzeyleri üzerine etkisi, Istanbul University, Istanbul Medical Faculty, 1989

## Research Areas

Medicine

## Academic Titles / Tasks

Professor, Istanbul Yeni Yuzyil University, 2017 - Continues

Professor, Halic University, 2015 - 2017

Professor, Istanbul University, Istanbul Medical Faculty, Basic Medical Sciences, 1985 - 2015

## Academic and Administrative Experience

Istanbul Yeni Yuzyil University, 2021 - Continues

Istanbul Yeni Yuzyil University, 2019 - Continues

Istanbul Yeni Yuzyil University, 2019 - Continues

Istanbul Yeni Yuzyil University, 2017 - Continues

Istanbul University, 2013 - 2014

## Courses

Dönem 2 Endokrin Sistem ve Üreme Sistemi, Undergraduate, 2020-2021

Dönem 3 Dolaşım ve Solunum Sistemi Hastalıkları, Undergraduate, 2020-2021

Dönem 3 Sindirim Sistemi ve Endokrin Sistem Hastalıkları, Undergraduate, 2020-2021

Dönem 2 Sinir Sistemi ve Duyu Organları, Undergraduate, 2020-2021

Dönem I Temel Tıp Bilimlerine Giriş IV, Undergraduate, 2020-2021

Dönem I Temel Tıp Bilimlerine Giriş III, Undergraduate, 2020-2021

Ateroskleroz, Undergraduate, 2013-2014

SU VE TAMPONLAR, Undergraduate Minor, 2013-2014, 2012-2013, 2000-2001

Oksidatif Fosforilasyon, Undergraduate, 2013-2014, 2012-2013

Uygulamalı laboratuvar teknikleri, Undergraduate Double Major, 2013-2014

Endotel Biyokimyası, Undergraduate, 2013-2014

Lipitler , Undergraduate, 2013-2014, 2012-2013

Laboratuvar teknikleri ( Kromatografi ve Western Blotting), Undergraduate Minor, 2013-2014

## Advising Theses

ÖZDEMİRLER G., İzoprenalin ile miyokard infarktüsü oluşturulan sıçanlarda hemoksijenaz-1 indüksiyonunun etkisi, Expertise In Medicine, L.BULUT(Student), 2013

ÖZDEMİRLER G., Erkek infertilitesinde semen kalitesinin heat shock protein70 ile ilişkisinin incelenmesi, Expertise In Medicine, Ö.DURLANIK(Student), 2004

ÖZDEMİRLER G., Hiperkolestrolemik kişilerin eritrosit zarlarında lipit ve protein değişikliklerinin incelenmesi, Postgraduate, S.KÜÇÜK(Student), 1999

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

- I. **Evaluation of sperm DNA fragmentation in male infertility**  
ÇALIŞKAN Z., KÜÇÜKGERGİN C., AKTAN G., KADIOĞLU A., ÖZDEMİRLER G.  
Andrologia, vol.54, no.11, 2022 (SCI-Expanded)
- II. **Evaluation of the Relation between Omentin-1 and Vitamin D in Postmenopausal Women with or Without Osteoporosis**  
Dikker O., Bekpınar S., Ozdemirler G., Uysal M., Vardar M., Atar S., Usta M., Huner B.  
Experimental and Clinical Endocrinology and Diabetes, vol.126, no.5, pp.316-320, 2018 (SCI-Expanded)
- III. **Protective effect of Nigella sativa oil against binge ethanol-induced oxidative stress and liver injury in rats**  
Develi S., Evran B., Betül Kalaz E., Koçak-Toker N., ÖZDEMİRLER G.  
Chinese Journal of Natural Medicines, vol.12, no.7, pp.495-499, 2014 (SCI-Expanded)
- IV. **Is thioredoxin reductase involved i. The defense against DNA fragmentation in varicocele?**  
ÖZDEMİRLER G., Küçükgergin C., Aktan G., Kadioglu A., Uysal M., Koçak-Toker N.  
Asian Journal of Andrology, vol.15, no.4, pp.518-522, 2013 (SCI-Expanded)
- V. **Mystery of idiopathic male infertility: Is oxidative stress an actual risk?**  
Aktan G., Doğru-Abbasoğlu S., Küçükgergin C., Kadioğlu A., ÖZDEMİRLER G., Koçak-Toker N.  
Fertility and Sterility, vol.99, no.5, pp.1211-1215, 2013 (SCI-Expanded)

- VI. **Effect of artichoke leaf extract on hepatic and cardiac oxidative stress in rats fed on high cholesterol diet**  
Küçükgergin C., Aydın A. F., ÖZDEMİRLER G., Mehmetçik G., Koçak-Toker N., Uysal M.  
Biological Trace Element Research, vol.135, no.1-3, pp.264-274, 2010 (SCI-Expanded)
- VII. **The effect of carnosine treatment on prooxidant-antioxidant balance in liver, heart and brain tissues of male aged rats**  
Aydın A., Küçükgergin C., ÖZDEMİRLER G., Koçak-Toker N., Uysal M.  
Biogerontology, vol.11, no.1, pp.103-109, 2010 (SCI-Expanded)
- VIII. **Effect of pretreatment with artichoke extract on carbon tetrachloride-induced liver injury and oxidative stress**  
Mehmetçik G., Özdemirler G., Koçak-Toker N., Çevikbaş U., Uysal M.  
Experimental and Toxicologic Pathology, vol.60, no.6, pp.475-480, 2008 (SCI-Expanded)
- IX. **The role of heat shock protein 70 (Hsp 70) in male infertility: is it a line of defense against sperm DNA fragmentation?**  
ÖZDEMİRLER G., Koçak Toker N., Durlanik Ö., Kadioğlu A., Aktan G., Aykaç Toker G.  
Fertility and Sterility, vol.90, no.2, pp.322-327, 2008 (SCI-Expanded)
- X. **Role of carnosine in preventing thioacetamide-induced liver injury in the rat**  
Mehmetçik G., Özdemirler G., Koçak-Toker N., Çevikbaş U., Uysal M.  
Peptides, vol.29, no.3, pp.425-429, 2008 (SCI-Expanded)
- XI. **Lipid peroxidation potential and antioxidants in the heart tissue of  $\beta$ -alanine- or taurine-treated old rats**  
Parıldar H., Doğru-Abbasoğlu S., Mehmetçik G., Özdemirler G., Koçak-Toker N., Uysal M.  
Journal of Nutritional Science and Vitaminology, vol.54, no.1, pp.61-65, 2008 (SCI-Expanded)
- XII. **Induced oxidative stress and decreased expression of inducible heat shock protein 70 (ihsp 70) in patients with colorectal adenocarcinomas**  
ÖZDEMİRLER G., Kanbağlı Ö., Durlanik Ö., Bulut T., Toker G., Uysal M.  
Japanese Journal of Clinical Oncology, vol.35, no.2, pp.74-78, 2005 (SCI-Expanded)
- XIII. **Lipid and protein oxidation in erythrocyte membranes of hypercholesterolemic subjects**  
Özdemirler G., Küçük S., Orhan Y., Aykaç-Toker G., Uysal M.  
Clinical Biochemistry, vol.34, no.4, pp.335-339, 2001 (SCI-Expanded)
- XIV. **Mitochondrial lipid peroxides and antioxidant enzymes in colorectal adenocarcinoma tissues**  
Kanbağlı Ö., Özdemirler G., Bulut T., Yamaner S., KÜÇÜKGERGİN C., Uysal M.  
Japanese Journal of Cancer Research, vol.91, no.12, pp.1258-1263, 2000 (SCI-Expanded)
- XV. **Increased lipoperoxide levels and antioxidant system in colorectal cancer**  
Özdemirler G., Pabuççuoğlu H., Bulut T., Buğra D., Uysal M., Toker G.  
Journal of Cancer Research and Clinical Oncology, vol.124, no.10, pp.555-559, 1998 (SCI-Expanded)
- XVI. **Age-related changes in plasma lipid peroxidation and antioxidant system in humans and rats**  
Mehmetçik G., Özdemirler G., Kanbağlı Ö., Toker G., Uysal M.  
Archives of Gerontology and Geriatrics, vol.25, no.3, pp.305-310, 1997 (SCI-Expanded)
- XVII. **Peroxidation status of erythrocytes and apolipoprotein B containing lipoproteins in hypercholesterolemic subjects**  
Özdemirler G., Öztezcan S., Toker G., Uysal M.  
International Journal for Vitamin and Nutrition Research, vol.67, no.2, pp.130-133, 1997 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Self-reported occupational exposure and its association with sperm DNA fragmentation in infertile men**  
ÇALIŞKAN Z., KÜÇÜKGERGİN C., AKTAN G., BULUT N., ÖZDEMİRLER G.  
Journal of Surgery and Medicine, vol.7, no.10, pp.694-699, 2023 (Peer-Reviewed Journal)

- II. **Plasma lipids, lipid peroxides and antioxidant system in osteoarthritic patients underwent spa therapy**  
Aksoy N. H., ÇALIŞKAN Z., ÖZDEMİRLER G.  
Medical Science and Discovery, vol.9, no.9, pp.495-500, 2022 (Peer-Reviewed Journal)
- III. **Effect of binge ethanol treatment on prooxidant-antioxidant balance in rat heart tissue**  
Kalaz E. B., Evran B., Develi S., ÖZDEMİRLER G., Uysal M., Koçak-Toker N.  
Pathophysiology, vol.19, no.1, pp.49-53, 2012 (Scopus)
- IV. **Effect of taurine treatment on pro-oxidant-antioxidant balance in livers and brains of old rats**  
Parildar-Karpuzoğlu H., Mehmetçik G., ÖZDEMİRLER G., Doğru-Abbasoğlu S., Koçak-Toker N., Uysal M.  
Pharmacological Reports, vol.60, no.5, pp.673-678, 2008 (Scopus)
- V. **Peroxidation potential and antioxidant activity of serum in patients with diabetes mellitus and myocard infarction**  
Ozdemirler G., Mehmetcik G., Oztecan S., Toker G., Sivas A., Uysal M.  
Hormone and Metabolic Research, vol.27, no.4, pp.194-196, 1995 (Scopus)
- VI. **High cholesterol diet supplemented with sunflower seed oil but not olive oil stimulates lipid peroxidation in plasma, liver, and aorta of rats**  
Bulur H., Özdemirler G., Öz B., Toker G., Öztürk M., Uysal M.  
The Journal of Nutritional Biochemistry, vol.6, no.10, pp.547-550, 1995 (Scopus)
- VII. **NADPH-induced microsomal lipid peroxidation in the liver of cholesterol-fed rats**  
Ozdemirler G., Uysal M., Aykac-Toker G.  
Medical Science Research, vol.22, no.5, pp.373-374, 1994 (Scopus)
- VIII. **Liver lipid peroxidation and glutathione-related defence enzyme systems in mice treated with paracetamol**  
Özdemirler G., Aykaç G., Uysal M., Öz H.  
Journal of Applied Toxicology, vol.14, no.4, pp.297-299, 1994 (Scopus)
- IX. **The lecithin-cholesterol acyl transferease activity in rabbits and rats fed with cholesterol diet**  
Ozdemirler G., Uysal M., Oz H.  
Istanbul Tip Fakultesi Mecmuasi, vol.53, no.1, pp.85-88, 1990 (Scopus)
- X. **Effects of CCl4-induced lipid peroxidation and diethyl maleate-induced glutathione depletion on plasma lecithin cholesterol acyl transferase activity in rats**  
Uzel N., Ozdemirler G., Sivas A., Uysal M.  
Biochemical Archives, vol.5, no.4, pp.353-358, 1989 (Scopus)
- XI. **Inhibition of NADPH-induced microsomal lipid peroxidation in the livers of cholestatic rats**  
Aykaç G., Özdemirler G.  
Pharmacological Research, vol.21, no.1, pp.39-42, 1989 (Scopus)
- XII. **Ethanol-induced changes in lipid peroxidation and glutathione content in rat brain**  
Uysal M., Kutalp G., Özdemirler G., Aykaç G.  
Drug and Alcohol Dependence, vol.23, no.3, pp.227-230, 1989 (Scopus)
- XIII. **Lipid Peroxidation in Erythrocytes of Rats Fed a High Copper Diet**  
Aykaç G., Özdemirler G., Uysal M.  
Journal of Clinical Biochemistry and Nutrition, vol.6, no.1, pp.35-38, 1989 (Scopus)
- XIV. **Mitochondrial and microsomal lipid peroxidation in rat liver after acute acetaldehyde and ethanol intoxication**  
Uysal M., Özdemirler G., Kutalp G., Öz H.  
Journal of Applied Toxicology, vol.9, no.3, pp.155-158, 1989 (Scopus)
- XV. **The hepatic lipid peroxidation, copper and fibrosis in cholestatic rats**  
Aykac G., Özdemirler G., Alptekin N., Arican N., Oz B., Uysal M., Öz H.  
Pharmacological Research, vol.21, no.6, pp.701-706, 1989 (Scopus)

## **Metrics**

Publication: 32

Citation (Scopus): 949

H-Index (Scopus): 18

## **Non Academic Experience**

İstanbul Üniversitesi İstanbul Tıp Fakültesi Biyokimya Anabilim Dalı

Florida Atlantic University, Department of Chemistry and Biochemistry (Boca Raton, FL), USA

National Institute of Health Sciences (Durham, NC), USA

Hungarian Academy of Sciences, Department of Biochemistry, Szeged