

# Prof. BİRGÜL KURAL

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## Education Information

Doctorate, Karadeniz Technical University, -, Biyokimya, Turkey 1995 - 2001

Postgraduate, Karadeniz Technical University, -, Biyokimya, Turkey 1993 - 1995

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 1987 - 1993

## Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry, Natural Sciences

## Academic Titles / Tasks

Professor, Karadeniz Technical University, Temel Tıp, Tıbbi Biyokimya, 2014 - Continues

## Academic and Administrative Experience

Karadeniz Technical University, 2015 - Continues

## Courses

TIP106, Undergraduate, 2015 - 2016, 2014 - 2015

## Advising Theses

KURAL B., L-theaninin doksorubisin uygulanan sıçanlarda nefrotoksisite üzerine etkilerinin incelenmesi, Doctorate, Y.ALTINKAYNAK(Student), 2018

KURAL B., Çözünür siyah çayın hepatosit hücre serilerinde (HEPG2) paraoksonaz-1 ekspresyonuna etkisinin incelenmesi, Postgraduate, H.HAJIZADEH(Student), 2015

KURAL B., Bazı lipid düşürücü ilaçların serum paraoksonaz-1 enzimine afinitelerinin docking metodu ile incelenmesi,

Postgraduate, Z.DÜZGÜN(Student), 2013

KURAL B., Postprandiyal lipemide adipokinlerin seviyeleri, Doctorate, N.KÜÇÜK(Student), 2012

KURAL B., Fındık tüketiminin hiperkolesterolemik şahısların eritrosit membranı lipid ve protein oksidasyonuna etkisi, Postgraduate, G.OKUR(Student), 2008

KURAL B., Karalahananın lipoproteinlerin oksidasyonuna etkisi, Postgraduate, N.KÜÇÜK(Student), 2007

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

- I. **How does L-theanine treatment affect the levels of serum and hippocampal BDNF, insulin and adipocytokines in diabetic rats?**  
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BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.667, pp.95-103, 2023 (SCI-Expanded)
- II. **Caution may be required in using L-theanine in diabetes mellitus: A study on the rats**  
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Biochemical and Biophysical Research Communications, vol.666, pp.170-178, 2023 (SCI-Expanded)
- III. **In silico investigation of the interactions of certain drugs proposed for the treatment of Covid-19 with the paraoxonase-1.**  
Duzgun Z., Kural B., Örem A., Yildiz I.  
Journal of biomolecular structure & dynamics, vol.41, no.3, pp.884-896, 2023 (SCI-Expanded)
- IV. **An increased disulfide/native thiol ratio and oxidative stress index in metabolic syndrome patients with postprandial lipemia**  
Yaman S. O., Yucesan F., ÖREM A., ÖREM C., KURAL B., YAMAN H.  
INTERNATIONAL JOURNAL OF DIABETES IN DEVELOPING COUNTRIES, vol.43, no.1, pp.125-133, 2023 (SCI-Expanded)
- V. **Elevated Circulating Endocan Levels Are Associated with Increased Levels of Endothelial and Inflammation Factors in Postprandial Lipemia**  
Ozer Yaman S., Balaban Yücesan F., Örem C., Vanizor Kural B., Örem A.  
JOURNAL OF CLINICAL MEDICINE, vol.12, no.4, 2023 (SCI-Expanded)
- VI. **The effect of L-theanine on the oxidant-antioxidant balance in serum and lung tissue in experimentally induced sepsis in rats**  
Arıkan Malkoç M., Patan H., Özer Yaman S., Türedi S., Ersöz Ş., Kural B., Örem A.  
INDIAN JOURNAL OF BIOCHEMISTRY & BIOPHYSICS, vol.59, no.2, pp.139-147, 2022 (SCI-Expanded)
- VII. **Endothelial Progenitor Cell Levels and Extent of Post-prandial Lipemic Response**  
Akcan B., oerem A., Altinkaynak Y., Kural B., oerem C., Soenmez M., Serafini M.  
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- VIII. **Effects of hazelnut supplemented diet on doxorubicin-induced damage of reproductive system in male rats**  
Kara H., ÖREM A., YULUĞ E., Yucesan F., KERİMOĞLU G., KURAL B., Yaman S. O., Bodur A., Turedi S., Alasalvar C.  
JOURNAL OF FOOD BIOCHEMISTRY, vol.45, no.11, 2021 (SCI-Expanded)
- IX. **Effects of L-Theanine on Hepatic Ischemia-Reperfusion Injury in Rats.**  
Küçükaslan H., Usta A., Uluşahin M., Ercin M. E., Patan H., Vanizor Kural B., Alhan E.  
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- X. **Evaluation of circulating miR-122, miR-30c and miR-33a levels and their association with lipids, lipoproteins in postprandial lipemia**  
Yaman S. O., Örem A., Yucesan F., Kural B., Örem C.  
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- XI. **Anti-inflammatory, antioxidant and wound-healing effects of mad honey in streptozotocin-induced diabetic rats**  
Malkoç M., Özer Yaman S., Imamoglu Y., Ince I., Kural B., Aydın Mungan S., Livaoğlu M., Yıldız O., Kolaylı S., Örem A.

JOURNAL OF APICULTURAL RESEARCH, vol.59, no.4, pp.426-436, 2020 (SCI-Expanded)

- XII. **L-theanine alleviates liver and kidney dysfunction in septic rats induced by cecal ligation and puncture**  
Malkoç M., Patan H., Özer Yaman S., Türedi S., Kerimoğlu G., Kural B., Örem A.  
LIFE SCIENCES, vol.249, 2020 (SCI-Expanded)
- XIII. **The relationship between dermatological findings and serum interleukin 31 and serum uridine diphosphate glucose ceramide glucosyltransferase levels among patients with chronic kidney disease.**  
Güvercin B., Kaynar K., Arıca D., Kural B., Ulusoy Ş., Cansız M., Selçuk L., Akyüz A., Kolaylı C.  
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- XIV. **Blood levels of agouti-related peptide (AgRP), obestatin, corticosteroid-binding globulin (CBG), and cortisol in patients with bipolar disorder (BD): a case-control study**  
Karaguzel E. O., KURAL B., Tiryaki A., Altun I. K., ÖZER YAMAN S., CİVİL ARSLAN F.  
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- XV. **Ethyl pyruvate treatment ameliorates pancreatic damage: evidence from a rat model of acute necrotizing pancreatitis**  
Türkyılmaz S., Çekiç A. B., Usta A., Alhan E., Kural B., Ercin C., Sağlam K.  
ARCHIVES OF MEDICAL SCIENCE, vol.15, no.1, pp.232-239, 2019 (SCI-Expanded)
- XVI. **Protective effects of L-theanine against doxorubicin-induced nephrotoxicity in rats**  
Altinkaynak Y., KURAL B., Akcan B. A., Bodur A., ÖZER YAMAN S., YULUĞ E., AYDIN MUNGAN S., Kaya C., ÖREM A.  
BIOMEDICINE & PHARMACOTHERAPY, vol.108, pp.1524-1534, 2018 (SCI-Expanded)
- XVII. **Relationship between postprandial lipemia and atherogenic factors in healthy subjects by considering gender differences**  
Örem A., Yaman S. O., Altinkaynak B., Kural B., Yucesan F., Altinkaynak Y., Örem C.  
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- XVIII. **The effects of royal jelly on the oxidant-antioxidant system in rats with N-methyl-N-nitrosourea-induced breast cancer**  
MALKOÇ M., Altay D. U., ALVER A., ERSÖZ Ş., Sen T. M., KURAL B., Uydu H. A.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.43, no.2, pp.176-183, 2018 (SCI-Expanded)
- XIX. **Native high-density lipoprotein and melatonin improve platelet response induced by glycated lipoproteins**  
ÖZSAVCI D., Nazlı A., BİNGÖL ÖZAKPINAR Ö., Yanıkkaya Demirel G., Vanızor Kural B., ŞENER A.  
Folia Biologica (Czech Republic), vol.64, no.4, pp.144-152, 2018 (SCI-Expanded)
- XX. **Cardio-protective effects of phytosterol-enriched functional black tea in mild hypercholesterolemia subjects**  
ÖREM A., ALAŞALVAR C., Kural B., Yaman S., ÖREM C., KARADAG A., PELVAN E., Zawistowski J.  
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- XXI. **Dexmedetomidine acts as an oxidative damage prophylactic in rats exposed to ionizing radiation**  
Kutunis D., Ertürk E., Beşir A., Demirci Y., Kayır S., Akdoğan A., Kural B., Bahat Z., Canyılmaz E., Kara H.  
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- XXII. **Status of vitamin D, antioxidant enzymes, and antioxidant substances in neonates with neonatal hypoxic-ischemic encephalopathy**  
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- XXIV. **Effects of glutamine alone on the acute necrotizing pancreatitis in rats**  
Alhan E., USTA A., TÜRKYILMAZ S., Kural B. V., Ercin C.  
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- XXV. **Is the combined use of insulin resistance indices, including adipokines, more reliable in metabolic**

**syndrome?**

KURAL B., DEĞER O., Erem C., BALABAN YÜCESAN F., ALİYAZICIOĞLU R., Barlak Y.

TURKISH JOURNAL OF MEDICAL SCIENCES, vol.44, no.6, pp.1021-1028, 2014 (SCI-Expanded)

- XXVI. **Is There Any Interaction Of Resistin And Adiponectin Levels With Protein Energy Wasting Among Patients With Chronic Kidney Disease**  
KAYNAR R. K., KURAL B., ULUSOY Ş., Cansız M., akçan b., MISIR N., Yaman S., KAYA N.  
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- XXVII. **Is there any interaction of resistin and adiponectin levels with protein-energy wasting among patients with chronic kidney disease**  
KAYNAR R. K., KURAL B., ULUSOY Ş., CANSIZ M., AKCAN B., MISIR N., YAMAN S., KAYA N.  
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- XXVIII. **The Effects of high fat diets with and without N-Acetylcysteine supplementation on the lipin-1 levels of serum and various tissues in rats**  
Kural B. V., ALVER A., Canpolat S., Kahraman C., Altay D. U., Kara H., Akcan B.  
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- XXIX. **Is there any interaction of resistin and adiponectin levels with protein-energy wasting among patients with chronic kidney disease.**  
Kaynar K., KURAL B., ULUSOY Ş., Cansiz M., Akcan B., MISIR N., Yaman S., Kaya N.  
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- XXXII. **EFFECTS OF 17 beta-ESTRADIOL ON THE ACUTE NECROTIZING PANCREATITIS AFTER ONSET IN RATS**  
Alhan E., CİNEL A., TÜRKYILMAZ S., Ercin C., KURAL B., Usta A.  
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- XXXIII. **Hazelnut-enriched diet improves cardiovascular risk biomarkers beyond a lipid-lowering effect in hypercholesterolemic subjects**  
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- XXXIV. **The Role Of Adipocytokines On Depressive Symptoms Of Patients With Chronic Kidney Disease**  
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- XXXV. **Sequence Variant in the LPIN1 gene in Patients with Metabolic Syndrome**  
KURAL B. V., DEĞER O., Erem C., YUCESAN F., Barlak Y., Turan I., ALİYAZICIOĞLU R.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.38, no.3, pp.280-285, 2013 (SCI-Expanded)
- XXXVI. **IL-1 beta, IL-6, IL-8, IL-10, IFN-gamma, TNF-alpha and its relationship with lipid parameters in patients with major depression**  
HOCAOĞLU Ç., KURAL B., ALİYAZICIOĞLU R., DEĞER O., Cengiz S.  
METABOLIC BRAIN DISEASE, vol.27, no.4, pp.425-430, 2012 (SCI-Expanded)
- XXXVII. **The Effects of Atorvastatin Therapy on Rheological Characteristics of Erythrocyte Membrane, Serum Lipid Profile and Oxidative Status in Patients with Dyslipidemia**  
Uydu H. A., YILDIRMIŞ S., ÖREM C., CALAPOĞLU M., ALVER A., KURAL B., ÖREM A.  
JOURNAL OF MEMBRANE BIOLOGY, vol.245, no.11, pp.697-705, 2012 (SCI-Expanded)
- XXXVIII. **Does Nuclear Factor-Kappa B in Peripheral Mononuclear Cells Have a Prognostic Role during Acute Necrotizing Pancreatitis in Rats?**  
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- EUROPEAN SURGICAL RESEARCH, vol.48, no.1, pp.34-39, 2012 (SCI-Expanded)
- XXXIX. **Exogenous L-Arginine and HDL Can Alter LDL and ox-LDL-Mediated Platelet Activation: Using Platelet P-Selectin Receptor Numbers**  
ŞENER A., Enc E., ÖZSAVCI D., Vanizor-Kural B., Yanikkaya-Demirel G., Oba R., Uras F., Demir M.  
CLINICAL AND APPLIED THROMBOSIS-HEMOSTASIS, vol.17, no.6, 2011 (SCI-Expanded)
- XL. **Effects of kale (Brassica oleracea L. var. acephala DC) leaves extracts on the susceptibility of very low and low density lipoproteins to oxidation**  
KURAL B. V., Kucuk N., YUCESAN F., ÖREM A.  
Indian Journal of Biochemistry and Biophysics, vol.48, no.5, pp.361-364, 2011 (SCI-Expanded)
- XLI. **The Relationship Between the Peroxisome Proliferator-Activated Receptor Gamma 2 Gene Polymorphism, Lipids and Adipokines in Patients with Major Depression**  
ALİYAZICIOĞLU R., DEĞER O., KURAL B. V., HOCAOĞLU Ç., Colak M., YUCESAN F.  
TURKIYE KLINIKLERI TIP BILIMLERI DERGISI, vol.31, no.5, pp.1065-1072, 2011 (SCI-Expanded)
- XLII. **The effects of p53 inhibition using pifithrin-alpha on acute necrotizing pancreatitis in rats**  
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- XLIII. **Hazelnut consumption decreases the susceptibility of LDL to oxidation, plasma oxidized LDL level and increases the ratio of large/small LDL in normolipidemic healthy subjects**  
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- XLIV. **HAZELNUT CONSUMPTION PROTECT LOW DENSITY LIPOPROTEIN (LDL) AGAINST OXIDATION AND DECREASE PLASMA OXIDIZED LDL LEVEL**  
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- XLVII. **Treatment with lithium, alone or in combination with olanzapine, relieves oxidative stress but increases atherogenic lipids in bipolar disorder**  
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- LIV. **The effects of lipid-lowering therapy on paraoxonase activities and their relationships with the oxidant-antioxidant system in patients with dyslipidemia**  
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- LV. **Effect of plasma from patients with Behcet's disease on the production of nitric oxide in cultured human umbilical vein endothelial cells**  
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- LVIII. **The evaluation of autoantibodies against oxidatively modified low-density lipoprotein (LDL), susceptibility of LDL to oxidation, serum lipids and lipid hydroperoxide levels, total antioxidant status, antioxidant enzyme activities, and endothelial dysfunction in patients with Behcet's disease**  
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- LX. **Evaluation of plasma endothelin-1 levels in patients with cerebral infarction**  
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- LXVI. **The significance of autoantibodies against oxidatively modified low-density lipoprotein (LDL) in patients with psoriasis**  
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## Non Academic Experience

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