

# Prof. MELEHAT DİRİCAN

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## International Researcher IDs

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## Education Information

Expertise In Medicine, Bursa Uludağ University, TIP FAKÜLTESİ, Temel Tıp Bilimleri Bölümü, Turkey 1988 - 1992

Undergraduate, Bursa Uludağ University, TIP FAKÜLTESİ, Turkey 1981 - 1987

## Research Areas

Health Sciences

## Academic Titles / Tasks

Professor, Bursa Uludağ University, TIP FAKÜLTESİ, TEMEL TIP BİLİMLERİ, 2005 - Continues

Associate Professor, Bursa Uludağ University, TIP FAKÜLTESİ, TEMEL TIP BİLİMLERİ, 1999 - 2005

Assistant Professor, Bursa Uludağ University, TIP FAKÜLTESİ, TEMEL TIP BİLİMLERİ, 1997 - 1999

Expert, Bursa Uludağ University, TIP FAKÜLTESİ, TEMEL TIP BİLİMLERİ, 1993 - 1997

Research Assistant, Bursa Uludağ University, TIP FAKÜLTESİ, TEMEL TIP BİLİMLERİ, 1988 - 1992

## Advising Theses

DİRİCAN M., Hiperprolaktinemi ile kitotirozidaz ilişkisinin incelenmesi, Expertise In Medicine, Ö.TÜYSÜZ(Student), 2015

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

- I. Dehydroepiandrosterone modulates the PTEN/PI3K/AKT signaling pathway to alleviate 4-vinylcyclohexene diepoxide-induced premature ovarian insufficiency in rats.**  
Cakir C., Kuspinar G., Aslan K., Bozyigit C., Kasapoglu I., Dirican M., Uncu G., Avci B.  
Experimental animals, 2024 (SCI-Expanded)
- II. Analysis of inappropriate repeated laboratory testing**  
Bozyigit C., Odabasi M. S., DİRİCAN M.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.48, no.2, pp.145-151, 2023 (SCI-Expanded)

- III. **The danger of hyperoxia on the rat kidneys: is tadalafil a real shield?**  
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International Urology and Nephrology, vol.55, no.2, pp.241-247, 2023 (SCI-Expanded)
- IV. **Tadalafil against hyperoxia-induced oxidative stress; an experimental study**  
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- V. **Oxidative stress in common variable immunodeficiency**  
Basaranoglu S. T., Cekic S., Kirhan E., Dirican M., Kilic S. Ş.  
EUROPEAN JOURNAL OF INFLAMMATION, vol.19, 2021 (SCI-Expanded)
- VI. **Evaluation of percentage recovery together with modified reference range in hyperprolactinemia**  
Dirican M., Acikgoz H. E., SARANDÖL E.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.45, no.1, pp.37-43, 2020 (SCI-Expanded)
- VII. **Impact of preventive actions on rejection rates in the preanalytical period**  
Odabasi M. S., Dirican M., Yilmaztepe Oral A., Özkaya G.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.45, no.1, pp.19-25, 2020 (SCI-Expanded)
- VIII. **Effects of thiamine treatment on oxidative stress in experimental diabetes**  
Sarandol E., Tas S., Serdar Z., Dirican M.  
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.121, no.3, pp.235-241, 2020 (SCI-Expanded)
- IX. **Urinary Neutrophil Gelatinase-Associated Lipocalin (NGAL) as a Marker of Diabetic Nephropathy in Type 1 Diabetic Patients**  
Sisman P., ÖZ GÜL Ö., Dirican M., Bal A. S., CANDER S., ERTÜRK E.  
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- X. **The association between cardiac valvular calcification and fetuin-A levels in kidney transplant recipients**  
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CLINICAL AND EXPERIMENTAL NEPHROLOGY, vol.23, no.10, pp.1250-1256, 2019 (SCI-Expanded)
- XI. **SHORT TERM EFFECT OF LAPAROSCOPIC SLEEVE GASTRECTOMY ON CLINICAL, RENAL PARAMETERS AND URINARY NGAL LEVELS IN DIABETIC AND NON DIABETIC OBESITY**  
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- XII. **FETUIN-A LEVELS IN KIDNEY TRANSPLANT RECIPIENTS WITH CARDIAC VALVULAR CALCIFICATION**  
Koca N., ERSOY A., Sensoy B., Kirhan E., ORUÇ A., Gullulu S., ERSOY C., DİRİCAN M., SARANDÖL E.  
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- XIII. **A nationwide multicentre study in Turkey for establishing reference intervals of haematological parameters with novel use of a panel of whole blood**  
ÖZARDA Y., Ichihara K., BAKAN E., Polat H., ÖZTÜRK N., KILIÇ BAYGUTALP N., TANELİ F., GÜVENÇ Y., ÖRMEN M., ERBAYRAKTAR Z., et al.  
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- XIV. **Adiponectin, leptin, nitric oxide, and C-reactive protein levels in kidney transplant recipients: comparison with the hemodialysis and chronic renal failure**  
Ocak N., Dirican M., ERSOY A., SARANDÖL E.  
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- XV. **Fluvastatin Decreases Oxidative Stress in Kidney Transplant Patients**  
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- XVI. **First-episode psychosis is associated with oxidative stress: Effects of short-term antipsychotic treatment**  
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- XVII. **A multicenter nationwide reference intervals study for common biochemical analytes in Turkey**

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ÖZARDA Y., Ichihara K., ASLAN D., AYBEK H., ARI Z., TANELİ F., Coker C., AKAN P., Sisman A. R., Bahceci O., et al.  
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, vol.52, no.12, pp.1823-1833, 2014 (SCI-Expanded)

- XVIII. **Effects of Calcineurin Inhibitors on Paraoxonase and Arylesterase Activity After a Kidney Transplant**  
Kahvecioglu S., ERSOY A., GÜLLÜLÜ M., Dirican M.  
EXPERIMENTAL AND CLINICAL TRANSPLANTATION, vol.12, no.4, pp.334-342, 2014 (SCI-Expanded)
- XIX. **Evidence of Defective Growth Hormone Response and Adaptive Hormonal Changes in Fibromyalgia**  
Alp A., ORAL A. Y., Ocakoglu G., Dirican M., Yurtkuran M.  
PHYSIKALISCHE MEDIZIN REHABILITATIONSMEDIZIN KURORTMEDIZIN, vol.24, no.1, pp.14-20, 2014 (SCI-Expanded)
- XX. **Ulva rigida improves carbohydrate metabolism, hyperlipidemia and oxidative stress in streptozotocin-induced diabetic rats**  
TAŞ S., ÇELİKLER KASIMOĞULLARI S., Ziyank-Ayvalik S., SARANDÖL E., Dirican M.  
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- XXI. **SERUM PARAOXONASE AND ARYLESTERASE ACTIVITIES THROUGHOUT NORMAL PREGNANCY**  
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- XXII. **The effects of vitamin E-coated dialysis membranes on serum paraoxonase activity in hemodialysis patients**  
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Coskun C., AVCI B., Ocak N., YALÇIN M., Dirican M., SAVCI V.  
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- XXV. **Susceptibility of red blood cell lipids to in vitro oxidation and antioxidant status in preeclampsia**  
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- XXVII. **Sialic acid and oxidizability of lipid and proteins and antioxidant status in patients with coronary artery disease**  
Serdar Z., Yesilbursa D., Dirican M., Sarandol E., Serdar A.  
CELL BIOCHEMISTRY AND FUNCTION, vol.25, no.6, pp.655-664, 2007 (SCI-Expanded)
- XXVIII. **High-dose taurine supplementation increases serum paraoxonase and arylesterase activities in experimental hypothyroidism**  
Dirican M., Tas S., Sarandol E.  
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.34, no.9, pp.833-837, 2007 (SCI-Expanded)
- XXIX. **Vanadyl sulfate, taurine, and combined vanadyl sulfate and taurine treatments in diabetic rats: Effects on the oxidative and antioxidative systems**  
Tas S., Sarandol E., Ayvalik S., Serdar Z., Dirican M.  
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- XXX. **Paraoxonase activity in glomerulonephritic patients**

- Gullulu M., Kahvecioglu S., Dirican M., Akdag I., Ocak N., Demircan C., Dilek K., Ersoy A., Yavuz M., Yurtkuran M.  
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- XXXI. **Oxidative status and prevalent cardiovascular disease in patients with chronic renal failure treated by hemodialysis**  
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- XXXIII. **Oxidation of apolipoprotein B-containing lipoproteins and serum paraoxonase/arylesterase activities in major depressive disorder**  
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- XXXIV. **Lipid and protein oxidation and antioxidant status in patients with angiographically proven coronary artery disease**  
Serdar Z., Aslan K., Dirican M., Sarandol E., Yesilbursa D., Serdar A.  
CLINICAL BIOCHEMISTRY, vol.39, no.8, pp.794-803, 2006 (SCI-Expanded)
- XXXV. **The effect of taurine supplementation on oxidative stress in experimental hypothyroidism**  
Tas S., Dirican M., Sarandol E., Serdar Z.  
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- XXXVI. **Effects of green tea on serum paraoxonase/arylesterase activities in streptozotocin-induced diabetic rats**  
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- XXXVIII. **Serum paraoxonase activity in uremic predialysis and hemodialysis patients**  
Dirican M., Akca R., Sarandol E., Dilek K.  
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- XXXIX. **Oxidizability of apolipoprotein B-containing lipoproteins and serum paraoxonase/arylesterase activities in preeclampsia**  
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- XL. **Effects of red wine consumption on serum paraoxonase/arylesterase activities and on lipoprotein oxidizability in healthy-men**  
Sarandol E., Serdar Z., Dirican M., Safak O.  
JOURNAL OF NUTRITIONAL BIOCHEMISTRY, vol.14, no.9, pp.507-512, 2003 (SCI-Expanded)
- XLI. **Exercise-induced oxidative stress and muscle performance in healthy women: role of vitamin E supplementation and endogenous oestradiol**  
Akova B., Surmen-Gur E., Gur H., Dirican M., Sarandol E., Kucukoglu S.  
EUROPEAN JOURNAL OF APPLIED PHYSIOLOGY, vol.84, no.1-2, pp.141-147, 2001 (SCI-Expanded)
- XLII. **Susceptibility of apolipoprotein B-containing lipoproteins to oxidation and antioxidant status in acute coronary syndromes**  
Yesilbursa D., Serdar Z., Dirican M., Serdar A., Gullulu S., Cordan J.  
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- XLIII. **Relation between lipoprotein (a) and in vitro oxidation of apolipoprotein B-containing lipoproteins**  
Serdar Z., Sarandol E., Dirican M., Yesilbursa D., Serdar A., Tokullugil A.

CLINICAL BIOCHEMISTRY, vol.33, no.4, pp.303-309, 2000 (SCI-Expanded)

- XLIV. **Oxidative stress in patients with chronic heart failure**  
YEŞİLBURSA D., SERDAR Z., SERDAR A., DİRİCAN M., Gemici K., Türel B., AYDIN A. İ., Cordan J.  
Heart, vol.83, no.SUPPL. 2, 2000 (SCI-Expanded)
- XLV. **The effects of hormone replacement therapy on interactions between insulin glucose and lipid parameters in normocholesterolemic and hypercholesterolemic menopausal women**  
**Normokolesterolemik ve hiperkolesterolemik menopozlu kadınlarda hormon replasman tedavisinin insulin, glukoz ve lipid duzeyleri arasindaki iliskilere etkisi**  
SARANDÖL E., DİRİCAN M., Agaogullari A., Tokullugil H.  
Erciyes Tip Dergisi, vol.21, no.2, pp.104-110, 1999 (SCI-Expanded)
- XLVI. **OPINIONS OF ULUDAG-UNIVERSITY MEDICAL-SCHOOLS RESEARCH ASSISTANTS ABOUT THE TEACHING OF BASIC MEDICAL SCIENCES**  
DIRICAN M., GULER A.  
BIOCHEMICAL EDUCATION, vol.23, no.2, pp.77-78, 1995 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Ameliorative Effects of Monofloral Cistus Creticus Bee Pollen on the Oxidant-Antioxidant Systems in Streptozotocin-Induced Diabetic Rats**  
TAŞ S., TOSUNOĞLU A., DİRİCAN M., TEKİN C. N., SARANDÖL E.  
Palestinian Medical and Pharmaceutical Journal, vol.9, 2024 (Peer-Reviewed Journal)
- II. **Common Interferences in Laboratory Test**  
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- III. **Inflammation and Oxidative Stress Markers and Their Relationship in Kidney Transplant Recipients**  
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TURKISH JOURNAL OF NEPHROLOGY, vol.31, no.3, pp.250-256, 2022 (ESCI)
- IV. **MONOFLORAL BRASSICA NIGRA POLLEN IMPROVES OXIDATIVE STRESS AND METABOLIC PARAMETERS IN STREPTOZOTOCIN-INDUCED DIABETIC RATS**  
TAŞ S., SARANDÖL E., Tekin C. N., TOSUNOĞLU A., VATAN Ö., Huriyet H., BOZYİĞİT C., ÇİNKİLİÇ N., ÇAVAŞ T., Dirican M.  
Journal of Applied Biological Sciences, vol.16, no.3, pp.563-574, 2022 (Peer-Reviewed Journal)
- V. **The Diagnostic Efficacy of Ubiquitin C-Terminal Hydrolase Blood Levels in Pediatric Patients with Minor Head Trauma**  
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- VI. **Evaluation of Thyroid Function Tests of Primary Hypothyroidism Diagnosed Cases' by Using Big Data: 13-Year Single Center Experience**  
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- VII. **The evaluation of the relationship between fetuin-A and traditional and non-traditional cardiovascular risk factors in kidney transplantation recipients**  
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- VIII. **An Enflammatory Marker in Chronic Renal Failure Patients: Visfatin**  
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- IX. **Kronik Böbrek Yetmezliđi Hastalarında Enflamatuvar bir Belirteç Visfatin**  
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- X. **Plazma 25 OH vitamin D ölçümünde HPLC CMIA ve ECLIA yöntemlerinin karşılaştırılması**  
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- XI. **Vitamin B6 supplementation improves oxidative stress and enhances serum paraoxonase/arylesterase activities in streptozotocin-induced diabetic rats**  
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- XII. **COPING WITH THE PERFORMANCE ANXIETY AMONG MUSIC EDUCATION STUDENTS A METHOD TRIAL**  
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- XIII. **Coping with the performance anxiety among music education students A method trial**  
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- XIV. **Adiponektin in Breast Milk**  
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- XV. **Streptozotosin ile diabet oluşturulmuş sıçanlarda tiroitfonksiyonlarının incelenmesi.**  
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- XVI. **Oxidizability of apolipoprotein B containing lipoproteins levels of lipid peroxidation products and antioxidants in normal pregnancy**  
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- XVIII. **Lecithin kolesterol acyltransferase activity and cholesteryl ester transfer rate in patients with diabetes mellitus**  
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- XIX. **Placental and decidual lipid peroxidation and antioxidant defenses in preeclampsia - Lipid peroxidation in preeclampsia**  
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- XXI. **Relation of functional capacity with the oxidative stress and antioxidants in chronic heart failure**  
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- XXII. **The relationship of serum ferritin with malondialdehyde concentration in patients with coronary artery disease Ferritin and oxidative stress in CAD**  
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- XXIII. **Effects of tibolone and transdermal estrogen on lipid levels and apolipoprotein B-containing lipoprotein oxidation in postmenopausal women Postmenopozal kadınlarda tibolon ve transdermal ostrojen kullanımının lipid düzeylerine ve apolipoprotein B-iceren lipoproteinlerin oksidasyonuna etkisi**  
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- XXIV. **Effects of hormone replacement therapy on the susceptibility of non-high density lipoproteins to oxidation**  
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- XXV. **Effects of Vitamin E and Vitamin C supplementation on plasma lipid peroxidation and on Oxidation of apolipoprotein B-Containing lipoproteins in experimental hyperthyroidism**  
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- XXVI. **Effects of Smoking on Serum Lipid and Lipoprotein Concentrations and Lecithin Cholesterol Acyltransferase Activity**  
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- XXVIII. **Streptozotosin ile diabet oluşturulmuş sıçanlarda A vitamini ile lipid parametreleri arasındaki ilişkilerin incelenmesi**  
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