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Education Information

Expertise In Medicine, Cumhuriyet Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri / Biyokimya A.D., Turkey 1995 - 1998

Dissertations

Expertise In Medicine, Demir Madeni Çalışanlarında Demir, Ferritin ve Malondialdehid Düzeyleri ile Lipit Parametreleri Arasındaki İlişki ve Ateroskleroz Gelişme Riski, Cumhuriyet Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri / Biyokimya A.D., 1998

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biochemistry

Academic Titles / Tasks

Professor, Istanbul University, Cerrahpaşa Tıp Fakültesi, Temel Tıp Bilimleri, 2014 - Continues

Professor, Fatih University, School Of Medicine, Temel Tıp Bilimleri, 2010 - 2014

Associate Professor, Fatih University, School Of Medicine, Temel Tıp Bilimleri, 2008 - 2010

Associate Professor, Canakkale Onsekiz Mart University, Temel Tıp Bilimleri, Biyokimya, 2007 - 2008

Associate Professor, Bülent Ecevit Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 2005 - 2007

Assistant Professor, Bülent Ecevit Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 2000 - 2005

Research Assistant PhD, Cumhuriyet Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri, 1995 - 1999

Advising Theses

ARMUTCU F., Alkol bağımlılığı olanlarda oksidatif stres ile ilişki bazı plazma proteinleri ve AFP-L3 düzeylerinin araştırılması, Postgraduate, T.YILDIRIM(Student), 2012

ARMUTCU F., Non-alkolik yağlı karaciğer hastalığında demir, hepsidin ve sitokin düzeylerinin incelenmesi, Expertise In Medicine, S.UYSAL(Student), 2011

ARMUTCU F., Ratlarda aspirinle indüklenen mide hasarında kanama durdurucu Ankaferd'in oksidatif mukozal hasar üzerine koruyucu etkileri, Postgraduate, R.HASGÜL(Student), 2011

ARMUTCU F., Metabolik Sendromlu Hastalarda Oksidatif Hasar Belirteçlerinin ve Isı Şok Protein 70'in Değerlendirilmesi, Expertise In Medicine, M.ATAYMEN(Student), 2007

ARMUTCU F., Yetişkin Astım Hasta Serumlarında Lipid Peroksidasyonu ve Antioksidan Enzim Aktivitelerinin Değerlendirilmesi, Expertise In Medicine, N.AKSU(Student), 2006

ARMUTCU F., Sürekli Alkol Kullananlarda Demir Metabolizması Markırları ve Oksidan Durumun Bir Göstergesi Olarak MDA Düzeyleri, Postgraduate, S.KURTMAN(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The potential pathophysiological role of altered lipid metabolism and electronegative low-density lipoprotein (LDL) in non-alcoholic fatty liver disease and cardiovascular diseases**
Vural H., Armutcu F., Akyol O., Weiskirchen R.
CLINICA CHIMICA ACTA, vol.523, pp.374-379, 2021 (SCI-Expanded)
- II. **The relationship between obstructive sleep apnea syndrome and obesity: A new perspective on the pathogenesis in terms of organ crosstalk**
Kuvat N., Tanriverdi H., Armutcu F.
CLINICAL RESPIRATORY JOURNAL, vol.14, no.7, pp.595-604, 2020 (SCI-Expanded)
- III. **Organ crosstalk: the potent roles of inflammation and fibrotic changes in the course of organ interactions**
Armutcu F.
INFLAMMATION RESEARCH, vol.68, no.10, pp.825-839, 2019 (SCI-Expanded)
- IV. **Hypoxia causes important changes of extracellular matrix biomarkers and ADAMTS proteinases in the adriamycin-induced renal fibrosis model**
Armutcu F., Demircan K., Yildirim U., Namuslu M., Yagmurca M., Celik H. T.
NEPHROLOGY, vol.24, no.8, pp.863-875, 2019 (SCI-Expanded)
- V. **The role of electronegative low-density lipoprotein in cardiovascular diseases and its therapeutic implications**
Akyol S., Lu J., Akyol O., Akcay F., Armutcu F., Ke L., Chen C.
TRENDS IN CARDIOVASCULAR MEDICINE, vol.27, no.4, pp.239-246, 2017 (SCI-Expanded)
- VI. **Increased Exhaled 8-Isoprostane and Interleukin-6 in Patients with Helicobacter pylori Infection**
YILDIRIM Z., Bozkurt B., Ozol D., Armutcu F., Akgedik R., Karamanli H., Kizilirmak D., Ikizek M.
HELICOBACTER, vol.21, no.5, pp.389-394, 2016 (SCI-Expanded)
- VII. **The Effects of Quercetin on Acute Lung Injury and Biomarkers of Inflammation and Oxidative Stress in the Rat Model of Sepsis**
Gerin F., Sener U., Erman H., Yilmaz A., Aydin B., Armutcu F., Gurel A.
INFLAMMATION, vol.39, no.2, pp.700-705, 2016 (SCI-Expanded)
- VIII. **Melatonin and caffeic acid phenethyl ester in the regulation of mitochondrial function and apoptosis: The basis for future medical approaches**
ERDEMLI H. K., Akyol S., Armutcu F., Gulec M. A., Canbal M., Akyol O.
LIFE SCIENCES, vol.148, pp.305-312, 2016 (SCI-Expanded)
- IX. **The possible preventive effect of caffeic acid phenethyl ester (CAPE) against myringosclerosis**
ERDEMLI H. K., Akyol S., Armutcu F., Akyol O.
EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY, vol.273, no.3, pp.789-790, 2016 (SCI-Expanded)
- X. **The comparison of caffeic acid and caffeic acid phenethyl ester against cisplatin-induced hair cell damage**
Akyol S., ERDEMLI H. K., Armutcu F., Akyol O.
INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY, vol.81, no.2, pp.103-104, 2016 (SCI-Expanded)
- XI. **Emerging roles of ADAMTS metalloproteinases in regenerative medicine and restorative biology**
Armutcu F., Demircan K.
TURKISH JOURNAL OF BIOLOGY, vol.40, no.2, pp.308-315, 2016 (SCI-Expanded)
- XII. **Indices of Central and Peripheral Obesity; Anthropometric Measurements and Laboratory Parameters of Metabolic Syndrome and Thyroid Function**
ARAS S., Ustunsoy S., Armutcu F.
BALKAN MEDICAL JOURNAL, vol.32, no.4, pp.414-420, 2015 (SCI-Expanded)
- XIII. **Comment on 'Caffeic acid phenethyl ester lessens disease symptoms in an experimental autoimmune uveoretinitis mouse model' by Choi JH et al. [Exp. Eye Res. 134 (2015) 53-62]**
ERDEMLI H. K., Akyol S., Armutcu F., Akyol O.

EXPERIMENTAL EYE RESEARCH, vol.138, pp.124-125, 2015 (SCI-Expanded)

- XIV. **Therapeutic potential of caffeic acid phenethyl ester and its anti-inflammatory and immunomodulatory effects**
Armutcu F., Akyol S., Ustunsoy S., Turan F. F.
EXPERIMENTAL AND THERAPEUTIC MEDICINE, vol.9, no.5, pp.1582-1588, 2015 (SCI-Expanded)
- XV. **Obez hastaların yoğunlaştırılmış ekspirasyon havası ve serum örneklerinde oksidatif stres ve inflamasyon markırlarının incelenmesi**
Karakaş A. S., Çelik H. T., ARMUTCU F., Namuslu M., Erdamar H., Yiğitoğlu R.
Yeni Tıp Dergisi, vol.32, pp.75-78, 2015 (SSCI)
- XVI. **Effects of sodium arsenite on the some laboratory signs and therapeutic role of thymoquinone in the rats**
ARAS S., Gerin F., Aydın B., Ustunsoy S., Sener U., Turan B. C., Armutcu F.
EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES, vol.19, no.4, pp.658-663, 2015 (SCI-Expanded)
- XVII. **In the history of Department of Biochemistry of Istanbul Medical Faculty (1933-1957) three German scientists; Werner Lipschitz, Felix Haurowitz and Zdenko Stary**
ARAS S., Armutcu F., Dinc G.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.40, no.5, pp.423-430, 2015 (SCI-Expanded)
- XVIII. **The platelet activating factor acetyl hydrolase, oxidized low-density lipoprotein, paraoxonase 1 and arylesterase levels in treated and untreated patients with polycystic ovary syndrome**
CARLIOGLU A., Kaygusuz I., Karakurt F., Gumus I. I., UYSAL A., Kasapoglu B., Armutcu F., UYSAL S., Keskin E. A., KOCA C.
ARCHIVES OF GYNECOLOGY AND OBSTETRICS, vol.290, no.5, pp.929-935, 2014 (SCI-Expanded)
- XIX. **Protective effects of Ankaferd blood stopper on aspirin-induced oxidative mucosal damage in a rat model of gastric injury**
Hasgul R., UYSAL S., Haltas H., Akyol S., Yuksel Y., Gurel A., Armutcu F.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.30, no.10, pp.888-895, 2014 (SCI-Expanded)
- XX. **Influence of CPAP treatment on airway and systemic inflammation in OSAS patients**
Karamanli H., Ozol D., Ugur K. S., Yildirim Z., Armutcu F., Bozkurt B., Yigitoglu R.
SLEEP AND BREATHING, vol.18, no.2, pp.251-256, 2014 (SCI-Expanded)
- XXI. **APRI, the FIB-4 score, and Forn's index have noninvasive diagnostic value for liver fibrosis in patients with chronic hepatitis B**
UCAR F., SEZER S., GINIS Z., OZTURK G., ALBAYRAK A., BASAR O., EKIZ F., COBAN S., YUKSEL O., Armutcu F., et al.
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- XXII. **The relationship between oxidative stress and nonalcoholic fatty liver disease: Its effects on the development of nonalcoholic steatohepatitis**
UCAR F., SEZER S., ERDOGAN S., Akyol S., Armutcu F., Akyol O.
REDOX REPORT, vol.18, no.4, pp.127-133, 2013 (SCI-Expanded)
- XXIII. **ADAMTS1, ADAMTS5, ADAMTS9 and aggrecanase-generated proteoglycan fragments are induced following spinal cord injury in mouse**
Demircan K., Yonezawa T., Takigawa T., TOPCU V., ERDOGAN S., UCAR F., Armutcu F., Yigitoglu M. R., Ninomiya Y., Hirohata S.
NEUROSCIENCE LETTERS, vol.544, pp.25-30, 2013 (SCI-Expanded)
- XXIV. **Lymphocyte subpopulations in Sheehan's syndrome**
Atmaca H., Arasli M., YAZICI Z. A., Armutcu F., Tekin I. O.
PITUITARY, vol.16, no.2, pp.202-207, 2013 (SCI-Expanded)
- XXV. **In Vivo and In Vitro Antneoplastic Actions of Caffeic Acid Phenethyl Ester (CAPE): Therapeutic Perspectives**
Akyol S., OZTURK G., GINIS Z., Armutcu F., Yigitoglu M. R., Akyol O.
NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL, vol.65, no.4, pp.515-526, 2013 (SCI-Expanded)
- XXVI. **Markers in Nonalcoholic Steatohepatitis**

- ARMUTCU F., Akyol S., UCAR F., ERDOGAN S., Akyol O.
ADVANCES IN CLINICAL CHEMISTRY, VOL 61, vol.61, pp.67-125, 2013 (SCI-Expanded)
- XXVII. **The effects of formaldehyde intoxication on the inducible nitric oxide synthase expression and nitric oxide level in the liver tissue of rats**
Ucmakli E., Armutcu F., Ozturk A.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.43, no.1, pp.52-56, 2013 (SCI-Expanded)
- XXVIII. **Serum nitric oxide, asymmetric dimethylarginine, and plasma homocysteine levels in active Behcet's disease**
AYDIN M., KOCA C., UYSAL S., Totan Y., Yagci R., Armutcu F., Cucen Z., Yigitoglu M. R.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.42, pp.1194-1199, 2012 (SCI-Expanded)
- XXIX. **Effect of Resveratrol on Treatment of Bleomycin-Induced Pulmonary Fibrosis in Rats**
AKGEDIK R., AKGEDIK S., KARAMANLI H., Uysal S., Bozkurt B., Ozol D., Armutcu F., Yildirim Z.
INFLAMMATION, vol.35, no.5, pp.1732-1741, 2012 (SCI-Expanded)
- XXX. **Association of serum calcitonin with coronary artery disease in individuals with and without chronic kidney disease**
Kanbay M., Wolf M., Selcoki Y., Solak Y., IKIZEK M., Uysal S., SEGALL L., Armutcu F., Eryonucu B., DURANAY M., et al.
INTERNATIONAL UROLOGY AND NEPHROLOGY, vol.44, no.4, pp.1169-1175, 2012 (SCI-Expanded)
- XXXI. **The potential usage of caffeic acid phenethyl ester (CAPE) against chemotherapy-induced and radiotherapy-induced toxicity**
Akyol S., GINIS Z., Armutcu F., OZTURK G., Yigitoglu M. R., Akyol O.
CELL BIOCHEMISTRY AND FUNCTION, vol.30, no.5, pp.438-443, 2012 (SCI-Expanded)
- XXXII. **Some inflammatory cytokine levels, iron metabolism and oxidant stress markers in subjects with nonalcoholic steatohepatitis**
Uysal S., Armutcu F., Aydogan T., Akin K., Ikizek M., Yigitoglu M. R.
CLINICAL BIOCHEMISTRY, vol.44, pp.1375-1379, 2011 (SCI-Expanded)
- XXXIII. **Uric Acid and Pentraxin-3 Levels Are Independently Associated with Coronary Artery Disease Risk in Patients with Stage 2 and 3 Kidney Disease**
Kanbay M., Ikizek M., Solak Y., Selcoki Y., Uysal S., Armutcu F., Eryonucu B., COVIC A., JOHNSON R. J.
AMERICAN JOURNAL OF NEPHROLOGY, vol.33, no.4, pp.325-331, 2011 (SCI-Expanded)
- XXXIV. **Fibroblast Growth Factor 23 and Fetuin A are Independent Predictors for the Coronary Artery Disease Extent in Mild Chronic Kidney Disease**
Kanbay M., NICOLETA M., Selcoki Y., Ikizek M., Aydin M., Eryonucu B., DURANAY M., Akcay A., Armutcu F., COVIC A.
CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY, vol.5, no.10, pp.1780-1786, 2010 (SCI-Expanded)
- XXXV. **Association of Serum Fetuin-A with Valvular Calcium Concentration in Rheumatic Mitral Valve Disease**
CAGLI K., BASAR N., CAGLI K., Armutcu F., Aylak F., YALCINKAYA A., ERDEN G., KADIROGULLARI E.
JOURNAL OF HEART VALVE DISEASE, vol.19, no.5, pp.636-643, 2010 (SCI-Expanded)
- XXXVI. **Oxidative stress in acne vulgaris**
Sarici G., Cinar S., Armutcu F., ALTINYAZAR C., KOCA R., TEKIN N. S.
JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY, vol.24, no.7, pp.763-767, 2010 (SCI-Expanded)
- XXXVII. **Decreased Superoxide Dismutase Activity after ECT and Correlation between Higher Oxidant Levels and Poor Response to ECT in Depression**
Viritt O., Dalkilic A., Bulut M., Bulbul F., Altindag A., Armutcu F., Kocoglu E., CITAK S., Savas H. A.
NOROPSIKIYATRI ARSIVI-ARCHIVES OF NEUROPSYCHIATRY, vol.47, no.3, pp.247-251, 2010 (SCI-Expanded)
- XXXVIII. **The evaluation of serum cystatin C, malondialdehyde, and total antioxidant status in patients with metabolic syndrome**
Demircan N., Gurel A., Armutcu F., Unalacak M., Aktunc E., Atmaca H.
MEDICAL SCIENCE MONITOR, vol.14, no.2, 2008 (SCI-Expanded)
- XXXIX. **Oxidative stress markers, C-reactive protein and heat shock protein 70 levels in subjects with**

metabolic syndrome

Armutcu F., Ataymen M., Atmaca H., Gurel A.

CLINICAL CHEMISTRY AND LABORATORY MEDICINE, vol.46, no.6, pp.785-790, 2008 (SCI-Expanded)

- XL. **Purine catabolic enzymes and nitric oxide in patients with recurrent aphthous ulceration**
Gurel A., Altinyazar H. C., Unalacak M., Armutcu F., Koca R.
ORAL DISEASES, vol.13, no.6, pp.570-574, 2007 (SCI-Expanded)
- XLI. **Examination of lung toxicity, oxidant/antioxidant status and effect of erdosteine in rats kept in coal mine ambience**
Armutcu F., Gun B. D., Altin R., Gurel A.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.24, no.2, pp.106-113, 2007 (SCI-Expanded)
- XLII. **Caffeic acid phenethyl ester and vitamin E moderates IL-1 beta and IL-6 in bleomycin-induced pulmonary fibrosis in rats**
Armutcu F., Cabuk M., Gurel A., Atmaca H., Kart L.
PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY, vol.88, no.2, pp.209-212, 2007 (SCI-Expanded)
- XLIII. **Excessive dietary fructose is responsible for lipid peroxidation and steatosis in the rat liver tissues**
ARMUTCU F., Kanter M., Gurel A., Unalacak M.
Turkiye Klinikleri J Med Sci, vol.27, pp.164-169, 2007 (SCI-Expanded)
- XLIV. **Adenosine deaminase, nitric oxide, superoxide dismutase, and xanthine oxidase in patients with major depression: Impact of antidepressant treatment**
Herken H., Gurel A., Selek S., Armutcu F., Ozen M. E., Bulut M., Kap O., Yumru M., Savas H. A., Akyol O.
ARCHIVES OF MEDICAL RESEARCH, vol.38, no.2, pp.247-252, 2007 (SCI-Expanded)
- XLV. **Vitamin e protects against oxidative damage caused by formaldehyde in the liver and plasma of rats**
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- XLVI. **Elevated serum nitric oxide and superoxide dismutase in euthymic bipolar patients: Impact of past episodes**
Savas H., Gergerlioglu H., Armutcu F., Herken H., Yilmaz H., Kocoglu E., Selek S., Tutkun H., Zoroglu S. S., Akyol O.
WORLD JOURNAL OF BIOLOGICAL PSYCHIATRY, vol.7, no.1, pp.51-55, 2006 (SCI-Expanded)
- XLVII. **Effects of whole-body hypoxic preconditioning on hypoxia/reoxygenation-induced intestinal injury in newborn rats**
Ceylan H., Yüncü M., Gurel A., ARMUTCU F., Gergerlioglu H., Bağcı C., Demiryürek T.
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- XLVIII. **Protective effects of vitamin C, alone or in combination with vitamin a, on endotoxin-induced oxidative renal tissue damage in rats**
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- XLIX. **Antiepileptogenic and antioxidant effects of Nigella sativa oil against pentylene tetrazol-induced kindling in mice**
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- LI. **Thymosin alpha 1 attenuates lipid peroxidation and improves fructose-induced steatohepatitis in rats**
Armutcu F., Coskun O., Gurel A., Kanter M., Can M., Ucar F., Unalacak M.
CLINICAL BIOCHEMISTRY, vol.38, no.6, pp.540-547, 2005 (SCI-Expanded)
- LII. **Evaluation of lipid peroxidation, oxidant/antioxidant status, and serum nitric oxide levels in alopecia areata**
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MEDICAL SCIENCE MONITOR, vol.11, no.6, 2005 (SCI-Expanded)

- LIII. **Erdosteine ameliorates PTZ-induced oxidative stress in mice seizure model**
 Ilhan A., Aladag A., Kocer A., Boluk A., Gurel A., ARMUTCU F.
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- LIV. **Vitamin E against oxidative damage caused by formaldehyde in frontal cortex and hippocampus: Biochemical and histological studies**
 Gurel A., Coşkun O., ARMUTCU F., Kanter M., Ozen O.
 JOURNAL OF CHEMICAL NEUROANATOMY, vol.29, no.3, pp.173-178, 2005 (SCI-Expanded)
- LV. **Biochemical stress indicators of greater wax moth exposure to organophosphorus insecticides**
 İçen E., ARMUTCU F., Büyükgüzel K., Gurel A.
 JOURNAL OF ECONOMIC ENTOMOLOGY, vol.98, no.2, pp.358-366, 2005 (SCI-Expanded)
- LVI. **Neuroprotective effects of Ebselen on experimental spinal cord injury in rats**
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 NEUROCHEMICAL RESEARCH, vol.30, no.3, pp.403-410, 2005 (SCI-Expanded)
- LVII. **Vitamin E protects against acetone-induced oxidative stress in rat red blood cells**
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- LVIII. **Attenuation of bleomycin-induced lung fibrosis by oral sulfhydryl containing antioxidants in rats: erdosteine and N-acetylcysteine**
 Yidirim Z., Kotuk M., Iraz M., Kuku I., Ulu R., Armutcu F., Ozen S.
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- LIX. **Effects of early phase of preconditioning on rat testicular ischemia**
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- LX. **The oxidative and morphological effects of high concentration chronic toluene exposure on rat sciatic nerves**
 Coşkun O., Oter S., Korkmaz A., ARMUTCU F., Kanter M.
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- LXI. **Effect of long-term therapy with sodium valproate on nail and serum trace element status in epileptic children**
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- LXII. **The Ala-9Val polymorphism in the mitochondrial targeting sequence (MTS) of the manganese superoxide dismutase gene is not associated with juvenile-onset asthma**
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- LXIII. **Caffeic acid phenethyl ester exerts a neuroprotective effect on CNS against pentylenetetrazol-induced seizures in mice**
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- LXIV. **The protective effect of nebivolol on ischemia/reperfusion injury in rabbit spinal cord**
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- LXV. **Antioxidant response at early stages and low grades of simple coal worker's pneumoconiosis diagnosed by high resolution computed tomography**
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- LXVI. **Effects of aminoguanidine and antioxidant erdosteine on bleomycin-induced lung fibrosis in rats**
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 NITRIC OXIDE-BIOLOGY AND CHEMISTRY, vol.11, no.2, pp.156-165, 2004 (SCI-Expanded)

- LXVII. **Protection of endotoxin-induced oxidative renal tissue damage of rats by vitamin E or/and EGb 761 treatment**
Coşkun O., ARMUTCU F., Kanter M., Kuzey G.
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- LXVIII. **Protective effects of caffeic acid phenethyl ester against experimental allergic encephalomyelitis-induced oxidative stress in rats**
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- LXIX. **Oxidant-antioxidant enzymes and lipid peroxidation in generalized vitiligo**
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- LXX. **Erdosteine prevents bleomycin-induced pulmonary fibrosis in rats**
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- LXXI. **Increased oxidative stress and altered activities of erythrocyte free radical scavenging enzymes in autism**
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EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE, vol.254, no.3, pp.143-147, 2004 (SCI-Expanded)
- LXXII. **Nitric oxide as a physiopathological factor in neuropsychiatric disorders**
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Non Academic Experience

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