

# Prof. GÜNGÖR KANBAK

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Eskisehir Osmangazi University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Tıbbi Biyokimya (Dr), Turkey 1989 - 1994

Postgraduate, Eskisehir Osmangazi University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Tıbbi Biyokimya (YI) (Tezli), Turkey 1985 - 1988

Undergraduate, Karadeniz Technical University, Temel Bilimler Fakültesi, Kimyager Lisans Pr., Turkey 1981 - 1985

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, P-aminofenol toksisitesinde serbest radikaller ve antioksidan defans mekanizmalarının rolü, Eskisehir Osmangazi University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Tıbbi Biyokimya (Dr), 1994

Postgraduate, Menenjit'xxli hastalarda, BOS ve kanda, kreatin foskokinaz, laktat dehidrojenaz ve aldolaz enzimlerinin değerlendirilmesi, Eskisehir Osmangazi University, SAĞLIK BİLİMLERİ ENSTİTÜSÜ, Tıbbi Biyokimya (YI) (Tezli), 1989

## Research Areas

Health Sciences

## Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, TIP FAKÜLTESİ, TEMEL TIP BİLİMLERİ BÖLÜMÜ, 2008 - Continues

Associate Professor, Eskisehir Osmangazi University, TIP FAKÜLTESİ, TEMEL TIP BİLİMLERİ BÖLÜMÜ, 2002 - 2008

## Courses

BİOENERJETİKLER I, Doctorate, 2020 - 2021

VİTAMİNOLOJİ, Doctorate, 2020 - 2021, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2012 - 2013, 2010 - 2011, 2008 - 2009, 2005 - 2006

METABOLİK HASTALIKLARIN BİYOKİMYASI, Doctorate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2012 - 2013, 2009 - 2010, 2007 - 2008, 2006 - 2007  
BESLENME BİYOKİMYASI, Doctorate, 2020 - 2021, 2016 - 2017, 2011 - 2012  
BİYOKİMYAYA GİRİŞ I, Postgraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005  
BİYOKİMYA HEMŞİRELİK, Undergraduate, 2017 - 2018, 2016 - 2017  
TIP FKÜLTESİ BİYOKİMYA, Undergraduate, 2017 - 2018, 2016 - 2017  
TIP FKÜLTESİ BİYOKİMYA ORGANİK KİMYA, Undergraduate, 2017 - 2018, 2016 - 2017  
KSENOBİOTİK BİYOTRANSFORMASYONU VE TRANSFOR. ENZ., Doctorate, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2009 - 2010, 2008 - 2009, 2006 - 2007, 2005 - 2006, 2004 - 2005

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

- I. **An Investigation into the Protective Effects of Various Doses of Boric Acid on Liver, Kidney, and Brain Tissue Damage Caused by High Levels of Acute Alcohol Consumption**  
İlhan A. O., Can B., Kar F., Gündoğdu A. Ç., Söğüt İ., Kanbak G.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.201, no.11, pp.5346-5357, 2023 (SCI-Expanded)
- II. **LoxBlock-1 or Curcumin attenuates liver, pancreas and cardiac ferroptosis, oxidative stress and injury in Ischemia/reperfusion-damaged rats by facilitating ACSL/GPx4 signaling**  
Kar F., Yıldız F., Hacıoğlu C., Kar E., Donmez D., Sentürk H., Kanbak G.  
TISSUE & CELL, vol.82, 2023 (SCI-Expanded)
- III. **Possible Curative Effects of Boric Acid and Bacillus clausii Treatments on TNBS-Induced Ulcerative Colitis in Rats**  
Özkoç M., Can B., Şentürk H., Burukoğlu Dönmez D., Kanbak G.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.201, no.3, pp.1237-1251, 2023 (SCI-Expanded)
- IV. **Conivaptan and Boric Acid Treatments in Acute Kidney Injury: Is This Combination Effective and Safe?**  
Can B., Kar F., Kar E., Özkoç M., Şentürk H., Donmez D., Kanbak G., Alataş İ. Ö.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.200, no.8, pp.3723-3737, 2022 (SCI-Expanded)
- V. **Probiotics ameliorates LPS induced neuroinflammation injury on A $\beta$  1-42, APP,  $\gamma$ - $\beta$  secretase and BDNF levels in maternal gut microbiota and fetal neurodevelopment processes.**  
KAR F., Hacıoğlu C., Kar E., Donmez D., KANBAK G.  
Metabolic brain disease, vol.37, no.5, pp.1387-1399, 2022 (SCI-Expanded)
- VI. **The effects of conivaptan and boric acid in post-ischemic renal function impairment**  
CAN B., Kar F., Kar E., Ozkoc M., ŞENTÜRK H., KANBAK G., ALATAŞ İ. Ö.  
CLINICA CHIMICA ACTA, vol.530, 2022 (SCI-Expanded)
- VII. **Effect of chronic alcohol consumption on myocardial apoptosis in the rat model of isoproterenol-induced myocardial injury and investigation on the cardioprotective role of calpain inhibitor 1**  
Oglakci-Ilhan A., Kusat-Ol K., Uzuner K., Uysal O., Sogut I., Yücel F., Kanbak G.  
DRUG AND CHEMICAL TOXICOLOGY, vol.45, no.6, pp.2727-2738, 2022 (SCI-Expanded)
- VIII. **Reproductive Effects of Nicotinamide on Testicular Function and Structure in Old Male Rats: Oxidative, Apoptotic, Hormonal, and Morphological Analyses**  
Hacıoğlu C., Kar F., KANBAK G.  
REPRODUCTIVE SCIENCES, vol.28, no.12, pp.3352-3360, 2021 (SCI-Expanded)
- IX. **Comparative effects of metformin and Cistus laurifolius L. extract in streptozotocin-induced diabetic rat model: oxidative, inflammatory, apoptotic, and histopathological analyzes.**  
Hacıoğlu C., Kar F., KARA Y., Yucel E., Donmez D., ŞENTÜRK H., KANBAK G.  
Environmental science and pollution research international, vol.28, no.41, pp.57888-57901, 2021 (SCI-Expanded)
- X. **Effects of Curcumin and Boric Acid Against Neurodegenerative Damage Induced by Amyloid Beta (1-42)**

Hacıoğlu C., Kar F., Kar E., Kara Y., Kanbak G.

BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.10, pp.3793-3800, 2021 (SCI-Expanded)

- XI. **Hexagonal boron nitride nanoparticles trigger oxidative stress by modulating thiol/disulfide homeostasis**  
Kar F., Söğüt İ., Hacıoğlu C., GÖNCÜ Y., ŞENTÜRK H., Şenat A., EREL Ö., Ay N., Kanbak G.  
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.40, no.9, pp.1572-1583, 2021 (SCI-Expanded)
- XII. **Protective Effect of Boric Acid and Omega-3 on Myocardial Infarction in an Experimental Rat Model**  
Karimkhani H., Ozkoc M., Shojaolsadati P., UZUNER K., BURUKOĞLU DÖNMEZ D., KANBAK G.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.7, pp.2612-2620, 2021 (SCI-Expanded)
- XIII. **Cyproheptadine causes apoptosis and decreases inflammation by disrupting thiol/disulfide balance and enhancing the levels of SIRT1 in C6 glioblastoma cells**  
Kacar S., Hacıoğlu C., Kar F., Sahinturk V., Kanbak G.  
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- XIV. **Concanavalin A induces apoptosis in a dose-dependent manner by modulating thiol/disulfide homeostasis in C6 glioblastoma cells**  
Kar F., KAÇAR S., Hacıoğlu C., KANBAK G., ŞAHİNTÜRK V.  
Journal of Biochemical and Molecular Toxicology, vol.35, 2021 (SCI-Expanded)
- XV. **Ex Vivo Investigation of Bexarotene and Nicotinamide Function as a Protective Agent on Rat Synaptosomes Treated with A beta(1-42)**  
HACIOĞLU C., KAR F., KANBAK G.  
NEUROCHEMICAL RESEARCH, vol.46, no.4, pp.804-818, 2021 (SCI-Expanded)
- XVI. **In Vivo Assessment of the Effect of Hexagonal Boron Nitride Nanoparticles on Biochemical, Histopathological, Oxidant and Antioxidant Status**  
KAR F., HACIOĞLU C., GÖNCÜ Y., Sogut I., ŞENTÜRK H., BURUKOĞLU DÖNMEZ D., KANBAK G., Ay N.  
JOURNAL OF CLUSTER SCIENCE, vol.32, no.2, pp.517-529, 2021 (SCI-Expanded)
- XVII. **Bexarotene inhibits cell proliferation by inducing oxidative stress, DNA damage and apoptosis via PPAR $\gamma$ / NF- $\kappa$ B signaling pathway in C6 glioma cells**  
Hacıoğlu C., Kar F., KAÇAR S., ŞAHİNTÜRK V., KANBAK G.  
Medical Oncology, vol.38, no.3, 2021 (SCI-Expanded)
- XVIII. **Evaluation of the Neuroprotective Role of Boric Acid in Preventing Traumatic Brain Injury-Mediated Oxidative Stress**  
Ataizi Z. S., Ozkoc M., Kanbak G., Karimkhani H., Donmez D., Ustunisik N., Ozturk B.  
TURKISH NEUROSURGERY, vol.31, no.4, pp.493-499, 2021 (SCI-Expanded)
- XIX. **Curcumin and LOXblock-1 ameliorate ischemia-reperfusion induced inflammation and acute kidney injury by suppressing the semaphorin-plexin pathway**  
Kar F., Hacıoğlu C., Şentürk H., Burukoğlu Dönmez D., Kanbak G., Uslu S.  
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- XX. **Concentration-Dependent Effects of Zinc Sulfate on DU-145 Human Prostate Cancer Cell Line: Oxidative, Apoptotic, Inflammatory, and Morphological Analyzes**  
HACIOĞLU C., KAÇAR S., KAR F., KANBAK G., ŞAHİNTÜRK V.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.195, no.2, pp.436-444, 2020 (SCI-Expanded)
- XXI. **The Role of Oxidative Stress, Renal Inflammation, and Apoptosis in Post Ischemic Reperfusion Injury of Kidney Tissue: the Protective Effect of Dose-Dependent Boric Acid Administration**  
KAR F., HACIOĞLU C., ŞENTÜRK H., BURUKOĞLU DÖNMEZ D., KANBAK G.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.195, no.1, pp.150-158, 2020 (SCI-Expanded)
- XXII. **The effects of L-NAME on DU145 human prostate cancer cell line: A cytotoxicity-based study**  
KAÇAR S., KAR F., Hacıoğlu C., Kanbak G., ŞAHİNTÜRK V.  
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.39, no.2, pp.182-193, 2020 (SCI-Expanded)
- XXIII. **Hepatotoxicity and nephrotoxicity following long-term prenatal exposure of paracetamol in the neonatal rat: is betaine protective?**  
Ozkoc M., Karimkhani H., KANBAK G., BURUKOĞLU DÖNMEZ D.

- TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.45, no.1, pp.99-107, 2020 (SCI-Expanded)
- XXIV. **High Concentrations of Boric Acid Trigger Concentration-Dependent Oxidative Stress, Apoptotic Pathways and Morphological Alterations in DU-145 Human Prostate Cancer Cell Line**  
HACIOĞLU C., KAR F., KAÇAR S., ŞAHİNTÜRK V., KANBAK G.  
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- XXV. **Protective effect of betaine against skeleton muscle apoptosis in rats induced by chronic alcohol and statin consumption**  
Ilhan O. A., Ozkoc M., Ol K. K., Karimkhani H., Senturk H., Burukoglu D., Kanbak G.  
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.121, no.8, pp.589-599, 2020 (SCI-Expanded)
- XXVI. **Betaine suppresses cell proliferation by increasing oxidative stress-mediated apoptosis and inflammation in DU-145 human prostate cancer cell line**  
KAR F., HACIOĞLU C., KAÇAR S., ŞAHİNTÜRK V., KANBAK G.  
CELL STRESS & CHAPERONES, vol.24, no.5, pp.871-881, 2019 (SCI-Expanded)
- XXVII. **Curcumin Acts as Post-protective Effects on Rat Hippocampal Synaptosomes in a Neuronal Model of Aluminum-Induced Toxicity**  
KAR F., HACIOĞLU C., USLU S., KANBAK G.  
NEUROCHEMICAL RESEARCH, vol.44, no.8, pp.2020-2029, 2019 (SCI-Expanded)
- XXVIII. **A possible protective role of betain and omega-3 supplementation in traumatic brain injury**  
Ataizi S., Ozkoc M., KANBAK G., Karimkhani H., BURUKOĞLU DÖNMEZ D., Ustunisik N., Ozturk B.  
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- XXIX. **Prenatal alcohol-induced neuroapoptosis in rat brain cerebral cortex: protective effect of folic acid and betaine**  
Sogut I., UYSAL O., Oglakci A., YÜCEL F., Kartkaya K., KANBAK G.  
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- XXX. **The investigation of the prenatal and postnatal alcohol exposure-induced neurodegeneration in rat brain: protection by betaine and/or omega-3**  
Ol K. K., KANBAK G., Ilhan A. O., BURUKOĞLU DÖNMEZ D., YÜCEL F.  
CHILDS NERVOUS SYSTEM, vol.32, no.3, pp.467-474, 2016 (SCI-Expanded)
- XXXI. **Effects of Black Hoof Medicinal Mushroom, *Phellinus linteus* (Agaricomycetes), Polysaccharide Extract in Streptozotocin-Induced Diabetic Rats**  
YAMAÇ M., Zeytinoglu M., ŞENTÜRK H., Kartkaya K., KANBAK G., BAYRAMOĞLU G., Oglakci A., Van Griensven L. J. L. D.  
INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS, vol.18, no.4, pp.301-311, 2016 (SCI-Expanded)
- XXXII. **Effect of boric acid on oxidative stress in rats with fetal alcohol syndrome**  
Sogut I., Oglakci A., Kartkaya K., Ol K. K., Sogut M. S., KANBAK G., Inal M. E.  
EXPERIMENTAL AND THERAPEUTIC MEDICINE, vol.9, no.3, pp.1023-1027, 2015 (SCI-Expanded)
- XXXIII. **Protective effect of calpain inhibitor N-acetyl-L-leucyl-L-leucyl-L-norleucinal on acute alcohol consumption related cardiomyopathy**  
Kartkaya K., KANBAK G., Oglakci A., BURUKOĞLU DÖNMEZ D., Ozer M. C.  
MOLECULAR BIOLOGY REPORTS, vol.41, no.10, pp.6743-6753, 2014 (SCI-Expanded)
- XXXIV. **Prenatal alcohol-induced neuroapoptosis in rat brain: protection by folic acid and betaine**  
Söğüt İ., Uysal O., Oğlakçı A., Yücel F., Kartkaya K., Kanbak G.  
Febs Journal, vol.28, no.S1, pp.205-206, 2014 (SCI-Expanded)
- XXXV. **Consumption of *Coprinus comatus* polysaccharide extract causes recovery of alcoholic liver damage in rats**  
Ozalp F. O., CANBEK M., YAMAÇ M., KANBAK G., Van Griensven L. J. L. D., UYANOĞLU M., ŞENTÜRK H., Kartkaya K., Oglakci A.  
PHARMACEUTICAL BIOLOGY, vol.52, no.8, pp.994-1002, 2014 (SCI-Expanded)
- XXXVI. **Effects of polysaccharide from fruiting bodies of *Agaricus bisporus*, *Agaricus brasiliensis*, and *Phellinus linteus* on alcoholic liver injury**

- UYANOĞLU M., CANBEK M., van Griensven L. J. L. D., YAMAÇ M., ŞENTÜRK H., Kartkaya K., Oglakci A., Turgak O., KANBAK G.  
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.65, no.4, pp.482-488, 2014 (SCI-Expanded)
- XXXVII. **Biochemical cellular damage indicators and in situ cell death in chronic alcohol consumption: Pseudomonas aeruginosa induced pneumonia rat model**  
DEMİR M., Kartkaya K., Tufan A. C., Arslan O. C., KANBAK G.  
BIOMEDICAL RESEARCH-INDIA, vol.25, no.2, pp.213-220, 2014 (SCI-Expanded)
- XXXVIII. **Effect of carotenoid beta-cryptoxanthin on cellular and humoral immune response in rabbit**  
Ghodratizadeh S., KANBAK G., Beyramzadeh M., DİKMEN Z. G., Memarzadeh S., Habibian R.  
VETERINARY RESEARCH COMMUNICATIONS, vol.38, no.1, pp.59-62, 2014 (SCI-Expanded)
- XXXIX. **Effect of kefir and low-dose aspirin on arterial blood pressure measurements and renal apoptosis in unhypertensive rats with 4 weeks salt diet**  
KANBAK G., UZUNER K., Ol K. K., Oglakci A., Kartkaya K., ŞENTÜRK H.  
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- XL. **Biological assays on the effects of Acra3 peptide from Turkish scorpion *Androctonus crassicauda* venom on a mouse brain tumor cell line (BC3H1) and production of specific monoclonal antibodies**  
ÇALIŞKAN F., ERGENE E., Sogut I., Hatipoglu I., Basalp A., Sivas H., KANBAK G.  
TOXICON, vol.76, pp.350-361, 2013 (SCI-Expanded)
- XLI. **Curative Effect of Crude Exopolysaccharides of Some Macrofungi on Alcohol-induced Liver Damage**  
UYANOĞLU M., YAMAÇ M., CANBEK M., ŞENTÜRK H., Kartkaya K., Oglakci A., Turgak O., KANBAK G.  
ULTRASTRUCTURAL PATHOLOGY, vol.37, no.3, pp.218-226, 2013 (SCI-Expanded)
- XLII. **Investigation of the possible protective role of gallic acid on paraoxanase and arylesterase activities in livers of rats with acute alcohol intoxication**  
Kartkaya K., Oglakci A., ŞENTÜRK H., BAYRAMOĞLU G., CANBEK M., KANBAK G.  
CELL BIOCHEMISTRY AND FUNCTION, vol.31, no.3, pp.208-213, 2013 (SCI-Expanded)
- XLIII. **The neuroprotective effect of acute moderate alcohol consumption on caspase-3 mediated neuroapoptosis in traumatic brain injury: The role of lysosomal cathepsin L and nitric oxide**  
KANBAK G., Kartkaya K., Ozcelik E., Guvenal A. B., CANBAZ KABAY S., ARSLAN G., DURMAZ R.  
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- XLIV. **Preventive role of gallic acid on alcohol dependent and cysteine protease-mediated pancreas injury**  
KANBAK G., CANBEK M., Oglakci A., Kartkaya K., ŞENTÜRK H., BAYRAMOĞLU G., BAL C., Gol B., Ozmen A.  
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- XLV. **Monoclonal Antibodies Specific for Hepatitis B e Antigen and Hepatitis B Core Antigen**  
Sogut I., Hatipoglu I., KANBAK G., Basalp A.  
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- XLVI. **Erythropoietin prevents nitric oxide and cathepsin-mediated neuronal death in focal brain ischemia**  
ÖZDEN H., DURMAZ R., KANBAK G., UZUNER K., Aral E., Kartkaya K., CANBAZ KABAY S., Atasoy M. A.  
BRAIN RESEARCH, vol.1370, pp.185-193, 2011 (SCI-Expanded)
- XLVII. **In Vitro Effects of Ethanol With Aspirin on Rat Brain Synaptosomes: The Potential Protective Role of Betaine**  
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INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.120, no.12, pp.774-783, 2010 (SCI-Expanded)
- XLVIII. **Pancreas Protective Effect of Button Mushroom *Agaricus bisporus* (JE Lange) Imbach (*Agaricomycetidae*) Extract on Rats with Streptozotocin-Induced Diabetes**  
YAMAÇ M., KANBAK G., Zeytinoglu M., ŞENTÜRK H., BAYRAMOĞLU G., Dokumacioglu A., Van Griensven L.  
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- XLIX. **Hypoglycemic effect of crude exopolysaccharides produced by *Cerrena unicolor*, *Coprinus comatus*, and *Lenzites betulina* isolates in streptozotocin-induced diabetic rats**  
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- L. **Hypoglycemic effect of *Lentinus strigosus* (Schwein.) fr. crude exopolysaccharide in streptozotocin-**

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JOURNAL OF MEDICINAL FOOD, vol.11, no.3, pp.513-517, 2008 (SCI-Expanded)

- L.I. **Nitric oxide level and adenosine deaminase activity in cerebrospinal fluid of patients with subarachnoid hemorrhage**  
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- L.II. **Effects of chronic ethanol consumption on brain synaptosomes and protective role of betaine**  
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- L.III. **Efficiency of coenzyme Q(10) at experimental spinal cord injury**  
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- L.IV. **Betaine prevents loss of sialic acid residues and peroxidative injury of erythrocyte membrane in ethanol-given rats**  
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- L.V. **Protective effect of leptin against ischemia-reperfusion injury in the rat small intestine**  
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- L.VI. **Nickel and cadmium concentrations in plasma and Na<sup>+</sup>/K<sup>+</sup>ATPase activities in erythrocyte membranes of the people exposed to cement dust emissions**  
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- L.VII. **Lazaroid U-74389G attenuates edema in rat brain subjected to post-ischemic reperfusion injury**  
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- L.VIII. **Lazaroid attenuates edema by stabilizing ATPase in the traumatized rat brain**  
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- L.IX. **Age-related changes in the glutathione redox system**  
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- L.X. **Ethanol-induced hepatotoxicity and protective effect of betaine**  
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- L.XII. **Preventive effect of betaine on ethanol-induced membrane lipid composition and membrane ATPases**  
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- L.XIII. **Changes of antioxidant enzyme activities during cardiopulmonary bypass**  
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- L.XIV. **Antioxidant status and lipid peroxidation in hemodialysis patients undergoing erythropoietin and erythropoietin-vitamin E combined therapy**  
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- LXV. **Effects of postmenopausal hormone replacement and alpha-tocopherol on the lipid profiles and antioxidant status**  
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