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Education Information

Doctorate, İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Biyoloji, Turkey 1986 - 1992

Post Graduate, İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Turkey 1984 - 1986

Under Graduate, İstanbul Üniversitesi, Faculty of Science, Biyoloji, Turkey 1978 - 1982

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Siklofosamid'in Swiss Black C 57'nin Böbrek Dokusu Üzerine Etkileri, İstanbul University, Institute of Graduate Studies In Sciences, Hücre Biyolojisi, 1992

Post Graduate, Siklofosamid'in Swiss Black C 57'nin Karaciğer Dokusu Üzerine Etkileri, İstanbul University, Institute of Graduate Studies In Sciences, Hücre Biyolojisi, 1986

Research Areas

Life Sciences, Biochemistry, Biochemical Toxicology, Molecular Biochemistry, Structural Biology, Molecular Biology and Genetics, Molecular Biology of Cancer, Natural Sciences

Academic Titles / Tasks

Professor, İstanbul University, Faculty of Science, Department of Biology, 2014 - Continues

Professional Experience

Head of Department, İstanbul Üniversitesi, Faculty of Science, 2014 - Continues

Head of Department, İstanbul Üniversitesi, Faculty of Science, Department of Biyology, 2007 - 2009

Deputy Head of Department, İstanbul Üniversitesi, Faculty of Science, Department of Biyology, 2006 - 2009

Courses

Bilimsel Araştırmaya Giriş, Under Graduate, 2012 - 2013

Moleküler Hücre Biyolojisi, Under Graduate, 2011 - 2012

Kök Hücre Biyolojisine Giriş, Under Graduate, 2012 - 2013

Moleküler Biyoloji Teknikleri, Under Graduate, 2011 - 2012

Advising Theses

- BOLKENT Ş., INS-Beta Hücrelerinde Serbest Yağ Asidiyle Oluşan Apoptozda GLP-1 Analogunun Biyolojik Etkisi, Post Graduate, E.Oyar(Student), 2015
- BOLKENT Ş., Sıçan İnsülinoma İ-Hücrelerinde (INS-1) 4-Metilcatekol'ün Etkileri, Doctorate, A.Karatuğ(Student), 2015
- BOLKENT Ş., Prostat Kanseri Hücre Hatlarında Epibrassinolide Tetiklenen Apoptotik Süreçde Poliaminlerin Rollerinin Araştırılması., Doctorate, P.Obakan(Student), 2012
- BOLKENT Ş., Farklı Memeli Hücre Soylarının Transfeksiyon Ajanlarına Karşı Membran Davranışları, Post Graduate, Z.Güler(Student), 2011
- BOLKENT Ş., C6 Glioma Hücrelerinde Histon Deasetilaz İnhibitörlerinin ve Sinir Büyüme Faktörünün Rolü, Post Graduate, S.Narin(Student), 2011
- BOLKENT Ş., Gen Salınımı Çalışmalarında Değişik Deney Koşullarında Plazmid Miktar Optimizasyonu, Post Graduate, Z.Ficen(Student), 2011
- BOLKENT Ş., Kurbağa (Rana ridibunda) Parmak Yastıkcığındaki Mevsimsel Değişikliklerin Morfolojik ve Biyokimyasal Olarak Araştırılması, Doctorate, E.Kaptan(Student), 2010
- BOLKENT Ş., Streptozotosin Verilen Sıçanların Pankreas Beta Hücrelerinde Sinir Büyüme Faktörünün Apoptoz Mekanizmasına Etkileri, Doctorate, S.Gezginci(Student), 2010
- BOLKENT Ş., STZ-Diyabetik Farelere Uygulanan Kombine Antioksidanın Pankreas Üzerine İmmunohistokimyasal ve Biyokimyasal Etkileri, Post Graduate, A.Karatuğ(Student), 2009
- BOLKENT Ş., BALB/C Farelerde TNF-alfa/Aktinomisin D İle Oluşan İnce Bağırsak Hasarında GLP-2'nin Biyolojik Rolü, Doctorate, P.Arda(Student), 2008
- BOLKENT Ş., BALB/c Farelerde D-Galaktozamin/Tümör Nekroz Faktör-Alfa ile Oluşturulan Karaciğer Hasarında Apoptoz ve Katepsin B'nin Rolü, Post Graduate, S.Gezginci(Student), 2005
- BOLKENT Ş., Sıçan (Rattus norvegicus)'larda D-Galaktozamin ile Oluşturulan Karaciğer Hasarında Askorbik Asit, Beta-Karoten, Alfa-Tokoferol ve Selenyumun Rolü, Post Graduate, T.Çatal(Student), 2004
- BOLKENT Ş., Sıçan (Rattus norvegicus)'larda Akut İskemi Reperfüzyon Modeli ile Oluşturulan Böbrek Yetmezliğinde Prostaglandin E(1)'in Rolü, Post Graduate, N.Orhan(Student), 2004
- BOLKENT Ş., Sıçan (Rattus norvegicus) Gastrik Mukoza Lezyonları Üzerine Çinkonun Etkileri, Post Graduate, P.Arda(Student), 2003
- BOLKENT Ş., Tiroid Hormonlarının İnce Bağırsak Üzerine Etkileri, Doctorate, Ö.Bulan(Student), 1998

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Synthesis, characterization and staining performance of peripherally and non-peripherally substituted metallo-phthalocyanines bearing 1,3-bis-(trimethylamino)-2-propoxy groups**
Özçeşmeci M., Bas S., Akkurt B., BOLKENT Ş., Hamuryudan E.
NEW JOURNAL OF CHEMISTRY, vol.44, pp.7786-7794, 2020 (Journal Indexed in SCI)
- **Galectin-1 exhibits a protective effect against hepatotoxicity induced by dextran sulfate sodium in mice.**
Arda-Pirincci P., Sacan O., Ozal-Coskun C., Aykol-Celik G., Karabulut-Bulan O., Yanardag R., Bolkent Ş.
Human & experimental toxicology, vol.39, pp.423-432, 2020 (Journal Indexed in SCI Expanded)
- **Investigation of cell death mechanism and activity of esculetin-loaded PLGA nanoparticles on insulinoma cells in vitro.**
Karatuğ Kacar A., Bahadori F., Tekkeli Ş. E. , Topçu G., Bolkent S.
The Journal of pharmacy and pharmacology, vol.72, pp.592-606, 2020 (Journal Indexed in SCI Expanded)
- **The effects of vitamins and selenium mixture against brain tissue induced by d-galactosamine**
TUNALI S., ÇATAL T., Bolkent S., YANARDAĞ R.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.33, 2019 (Journal Indexed in SCI)
- **The effects of atorvastatin on the kidney injury in mice with pulmonary fibrosis.**
Karatuğ Kacar A., Yildirim M., Bolkent Ş., Oztay F.
The Journal of pharmacy and pharmacology, vol.71, pp.1301-1310, 2019 (Journal Indexed in SCI Expanded)

- **The effects of vitamins and selenium mixture or ranitidine against small intestinal injury induced by indomethacin in adult rats.**
Turkylmaz I. B. , Pirincci P. A. , Bolkent Ş., Yanardag R.
Journal of food biochemistry, vol.43, 2019 (Journal Indexed in SCI Expanded)
- **Vitronectin, fibronectin and epidermal growth factor induce proliferation via the JNK and ERK pathways in insulinoma INS-1 cells.**
Karatug Kacar A., Bolkent Ş.
Cytotechnology, vol.71, pp.209-217, 2019 (Journal Indexed in SCI Expanded)
- **Synthesis and Biological Uses of A(3)B Type Water-Soluble Phthalocyanine Alternate to Alcian Blue**
Özçeşmeci M., Sancar-Bas S., Akkurt B., Hamuryudan E., Bolkent S.
CHEMISTRYSELECT, vol.3, pp.12805-12812, 2018 (Journal Indexed in SCI)
- **Tub and beta-catenin play a key role in insulin and leptin resistance-induced pancreatic beta-cell differentiation**
Ercin M., Sancar-Bas S., Bolkent S., Gezginci-Oktayoglu S.
BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH, vol.1865, pp.1934-1944, 2018 (Journal Indexed in SCI)
- **4-Methylcatechol prevents streptozotocin-induced acute kidney injury through modulating NGF/TrkA and ROS-related Akt/GSK3 beta/beta-catenin pathways**
Gezginci-Oktayoglu S., Coskun E., Ercin M., Bolkent S.
INTERNATIONAL IMMUNOPHARMACOLOGY, vol.64, pp.52-59, 2018 (Journal Indexed in SCI)
- **4-Methylcatechol stimulates apoptosis and reduces insulin secretion by decreasing betacellulin and inhibin beta-A in INS-1 beta-cells.**
Karatug Kacar A., Gezginci-Oktayoglu S., Bolkent Ş.
Human & experimental toxicology, vol.37, pp.1123-1130, 2018 (Journal Indexed in SCI Expanded)
- **The effect of plant lectins on the survival and malignant behaviors of thyroid cancer cells**
Kaptan E., Sancar-Bas S., Sancakli A., Bektas S., Bolkent S.
JOURNAL OF CELLULAR BIOCHEMISTRY, vol.119, pp.6274-6287, 2018 (Journal Indexed in SCI)
- **Involvement of dying beta cell originated messenger molecules in differentiation of pancreatic mesenchymal stem cells under glucotoxic and glucolipotoxic conditions.**
Gezginci-Oktayoglu S., Onay-Ucar E., Sancar-Bas S., Karatug-Kacar A., Arda E. Ş. N. , Bolkent Ş.
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- **Necrotic cell death occur via JNK pathway with the activity of transcription factor c-Jun by 4-MC in INS-1 cell line.**
Karatug Kacar A., Bolkent Ş.
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- **Exendin-4 partly ameliorates - hyperglycemia-mediated tissue damage in lungs of streptozotocin-induced diabetic mice**
Oztay F., Sancar-Bas S., Gezginci-Oktayoglu S., Ercin M., Bolkent S.
PEPTIDES, vol.99, pp.99-107, 2018 (Journal Indexed in SCI)
- **Runx-Related Transcription Factor 2 (Runx2) Is Responsible for Galectin-3 Overexpression in Human Thyroid Carcinoma**
KAPTAN E., Bas S., SANCAKLI A., Aktas H. G. , BAYRAK B. B. , Yanardag R., BOLKENT Ş., BOLKENT Ş.
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- **The Role of Delta(9)-Tetrahydrocannabinol in Diabetes Mellitus**
Coskun Z. M. , Bolkent S.
HANDBOOK OF CANNABIS AND RELATED PATHOLOGIES: BIOLOGY, PHARMACOLOGY, DIAGNOSIS, AND TREATMENT, pp.779-786, 2017 (Journal Indexed in SCI)
- **Protective Effects of Vitamin E and Selenium Administration on Small Intestinal Damage Prior to Abdominal Radiation**
Karabulut-Bulan O., Bolkent S., Kizir A., Yanardag R.
PAKISTAN JOURNAL OF ZOOLOGY, vol.48, pp.1225-1232, 2016 (Journal Indexed in SCI)
- **The protective effects of prostaglandin E1 on lung injury following renal ischemia-reperfusion in rats.**
Oztay F., Kara-Kisla B., Orhan N., Yanardag R., Bolkent Ş.

Toxicology and industrial health, vol.32, pp.1684-92, 2016 (Journal Indexed in SCI Expanded)

- **Runx2-related transcription factor 2 (Runx2) is responsible for galectin-3 overexpression in human thyroid carcinoma**
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- **Prostaglandin-E1 has a protective effect on renal ischemia/reperfusion-induced oxidative stress and inflammation mediated gastric damage in rats.**
Gezginci-Oktayoglu S., Orhan N., Bolkent Ş.
International immunopharmacology, vol.36, pp.142-150, 2016 (Journal Indexed in SCI Expanded)
- **Esculentin-2PLa, a frog skin antimicrobial peptide, causes necrotic cell death in breast cancer cell lines**
Sancar-Bas S., Bolkent S.
EUROPEAN JOURNAL OF CANCER, vol.61, 2016 (Journal Indexed in SCI)
- **THE PROTECTIVE EFFECT OF AN AQUEOUS EXTRACT FROM SMILAX EXCELSA L. AGAINST CARBON TETRACHLORIDE-INDUCED LIVER INJURY IN RATS**
Ozsoy N., Okyar A., Arda-Pirincci P., Can A., Bolkent Ş., Akev N.
AFRICAN JOURNAL OF TRADITIONAL COMPLEMENTARY AND ALTERNATIVE MEDICINES, vol.13, pp.203-208, 2016 (Journal Indexed in SCI)
- **Vitamin U has a protective effect on valproic acid-induced renal damage due to its anti-oxidant, anti-inflammatory, and anti-fibrotic properties.**
GEZGINCI-OKTAYOGLU S., TURKYILMAZ I., Ercin M., YANARDAG R., BOLKENT S.
Protoplasma, vol.253, pp.127-35, 2016 (Journal Indexed in SCI)
- **The role of ghrelin on apoptosis, cell proliferation and oxidant-antioxidant system in the liver of neonatal diabetic rats**
Koyuturk M., Sacan O., Karabulut S., Turk N., Bolkent S., Yanardag R., Bolkent S.
CELL BIOLOGY INTERNATIONAL, vol.39, pp.834-841, 2015 (Journal Indexed in SCI)
- **Nerve Growth Factor Neutralization Suppresses beta-Cell Proliferation Through Activin A and Betacellulin**
Gezginci-Oktayoglu S., Karatug A., Bolkent S.
PANCREAS, vol.44, pp.243-249, 2015 (Journal Indexed in SCI)
- **Chard (Beta vulgaris var. cicla) extract improved hyperglycemia-induced oxidative stress and surfactant-associated protein alterations in rat lungs**
Oztay F., Sacan O., Kayalar O., Bolkent S., Ipci Y., KABASAKAL L., ŞENER G., Yanardag R.
PHARMACEUTICAL BIOLOGY, vol.53, pp.1639-1646, 2015 (Journal Indexed in SCI)
- **Exendin-4 attenuates renal tubular injury by decreasing oxidative stress and inflammation in streptozotocin-induced diabetic mice.**
Sancar-Bas S., Gezginci-Oktayoglu S., Bolkent Ş.
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- **Protective effect of Amaranthus lividus L. on carbon tetrachloride induced hepatotoxicity in rats**
Yilmaz-Ozden T., Can A., Sancar-Bas S., Pala-Kara Z., Okyar A., Bolkent Ş.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.40, pp.125-131, 2015 (Journal Indexed in SCI)
- **Carbon tetrachloride induced kidney damage and protective effect of Amaranthus lividus L. in rats**
YILMAZ ÖZDEN T., CAN A., KARATUĞ A., PALA KARA Z., OKYAR A., BOLKENT Ş.
TOXICOLOGY AND INDUSTRIAL HEALTH, pp.1-10, 2014 (Journal Indexed in SCI)
- **Activation of polyamine catabolic enzymes involved in diverse responses against epibrassinolide-induced apoptosis in LNCaP and DU145 prostate cancer cell lines**
OBAKAN P., ARISAN E. D. , Calcabrini A., Agostinelli E., Bolkent S., Palavan-Unsal N.
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- **Chard (Beta vulgaris L. var. cicla) extract ameliorates hyperglycemia by increasing GLUT2 through Akt2 and antioxidant defense in the liver of rats.**
Gezginci-Oktayoglu S., Sacan O., Bolkent Ş., Ipci Y., KABASAKAL L., ŞENER G., Yanardag R.
Acta histochemica, vol.116, pp.32-9, 2014 (Journal Indexed in SCI Expanded)
- **The role of epidermal growth factor in prevention of oxidative injury and apoptosis induced by intestinal**

ischemia/reperfusion in rats

Arda-Pirincci P., Bolkent S.

ACTA HISTOCHEMICA, vol.116, pp.167-175, 2014 (Journal Indexed in SCI)

- **Seasonal lectin binding variations of thumb pad in the frog (*Pelophylax ridibundus*).**

Kaptan E., Bolkent Ş.

Journal of morphology, vol.275, pp.76-86, 2014 (Journal Indexed in SCI Expanded)

- **Evaluation of *Smilax excelsa* L. Use in Experimentally Induced Nephrotoxicity**

Ozsoy N., Okyar A., Arda-Pirincci P., Can A., Bolkent S., Akev N.

KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI, vol.19, pp.807-814, 2013 (Journal Indexed in SCI)

- **Regulation of oxidative stress and somatostatin, cholecystokinin, apelin gene expressions by ghrelin in stomach of newborn diabetic rats.**

Coskun Z. M. , Sacan O., Karatug A., Turk N., Yanardag R., Bolkent S., Bolkent S.

Acta histochemica, vol.115, pp.740-7, 2013 (Journal Indexed in SCI Expanded)

- **The potential role of combined antioxidant treatment on pancreas of STZ-diabetic mice**

Karatug A., Bolkent S.

EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, vol.65, pp.255-262, 2013 (Journal Indexed in SCI)

- **Acute effects of methiocarb on oxidative damage and the protective effects of vitamin E and taurine in the liver and kidney of Wistar rats**

Ozden S., Catalgol B., Gezginci-Oktayoglu S., Karatug A., Bolkent S., Alpertunga B.

TOXICOLOGY AND INDUSTRIAL HEALTH, vol.29, pp.60-71, 2013 (Journal Indexed in SCI)

- **Alterations in kidney tissue following zinc supplementation to STZ-induced diabetic rats**

Karatug A., Kaptan E., Bolkent Ş., Mutlu O., Yanardag R.

Journal of Trace Elements in Medicine and Biology, vol.27, pp.52-57, 2013 (Journal Indexed in SCI Expanded)

- **Teduglutide, a glucagon-like peptide 2 analogue: a novel protective agent with anti-apoptotic and anti-oxidant properties in mice with lung injury.**

Arda-Pirincci P., Oztay F., Bayrak B. B. , Yanardag R., Bolkent S.

Peptides, vol.38, pp.238-47, 2012 (Journal Indexed in SCI Expanded)

- **The relation among NGF, EGF and insulin is important for triggering pancreatic beta cell apoptosis**

Gezginci-Oktayoglu S., Karatug A., Bolkent S.

DIABETES-METABOLISM RESEARCH AND REVIEWS, vol.28, pp.654-662, 2012 (Journal Indexed in SCI)

- **Regulation of gene expression and biochemical changes in small intestine of newborn diabetic rats by exogenous ghrelin**

Karatug A., Sacan O., Coskun Z. M. , Bolkent S., Yanardag R., Turk N., Bolkent S.

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- **Ras signaling in NGF reduction and TNF-alpha-related pancreatic beta cell apoptosis in hyperglycemic rats**

Gezginci-Oktayoglu S., Bolkent S.

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- **4-Methylcatechol prevents NGF/p75(NTR)-mediated apoptosis via NGF/TrkA system in pancreatic beta cells**

Gezginci-Oktayoglu S., Bolkent S.

NEUROPEPTIDES, vol.45, pp.143-150, 2011 (Journal Indexed in SCI)

- **The role of glucagon-like peptide-2 on apoptosis, cell proliferation, and oxidant-antioxidant system at a mouse model of intestinal injury induced by tumor necrosis factor-alpha/actinomycin D**

Arda-Pirincci P., Bolkent S.

MOLECULAR AND CELLULAR BIOCHEMISTRY, vol.350, pp.13-27, 2011 (Journal Indexed in SCI)

- **Exendin-4 improves hepatocyte injury by decreasing proliferation through blocking NGF/TrkA in diabetic mice**

Gezginci-Oktayoglu S., Sacan O., Yanardag R., Karatug A., Bolkent S.

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- **Z-FA.FMK activates duodenal epithelial cell proliferation through oxidative stress, NF-kappa B and IL-1 beta in D-GalN/TNF-alpha-administered mice**

Gezginci-Oktayoglu S., Bolkent S., Bayrak B. B. , Yanardag R.

CELL BIOLOGY INTERNATIONAL, vol.34, pp.543-552, 2010 (Journal Indexed in SCI)

- **Protective effects of antioxidant combination against D-galactosamine-induced kidney injury in rats**

Catal T., Sacan O., Yanardag R., Bolkent S.

CELL BIOCHEMISTRY AND FUNCTION, vol.28, pp.107-113, 2010 (Journal Indexed in SCI)

- **Cathepsin B inhibition improves lung injury associated to D-galactosamine/tumor necrosis factor-alpha-induced liver injury in mice.**

Oztay F., Gezginci-Oktayoglu S., Bayrak B. B. , Yanardag R., Bolkent S.

Molecular and cellular biochemistry, vol.333, pp.65-72, 2010 (Journal Indexed in SCI Expanded)

- **The Influence of Zinc Supplementation on the Pancreas of Streptozotocin-Diabetic Rats**

Bolkent S., Yanardag R., Bolkent S., Mutlu O.

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Gezginci-Oktayoglu S., Bolkent S.

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- **Methiocarb-induced oxidative damage following subacute exposure and the protective effects of vitamin E and taurine in rats**

Ozden S., Catalgol B., Gezginci-Oktayoglu S., Arda-Pirincci P., Bolkent S., Alpertunga B.

FOOD AND CHEMICAL TOXICOLOGY, vol.47, pp.1676-1684, 2009 (Journal Indexed in SCI)

- **The Effects of Combined Treatment of Antioxidants on the Liver Injury in STZ Diabetic Rats**

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- **Synthesis, characterization and antidiabetic properties of N-1-2,4-dihydroxybenzylidene-N-4-2-hydroxybenzylidene-S-methyl-thiosemicarbazidato-oxovanadium(IV)**

Yanardag R., Demirci T. B. , Ulkuseven B., Bolkent S., Tunalı S., Bolkent S.

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- **IMMUNOHISTOCHEMICAL AND BIOCHEMICAL EFFECTS ON PANCREAS OF COMBINED TREATMENT WITH ANTIOXIDANT IN STZ-DIABETIC MICE**

Bolkent S., Karatug A.

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- **Effects of vitamin E, vitamin C, and selenium on gastric fundus in cadmium toxicity in male rats.**

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- **The Role of Vitamin C, Vitamin E, and Selenium on Cadmium-Induced Renal Toxicity of Rats**

Karabulut-Bulan O., Bolkent S., Yanardag R., Bilgin-Sokmen B.

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- **Cholesterol efflux and the effect of combined treatment with niacin and chromium on aorta of hyperlipidemic rat.**

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- **Exposure of Dunaliella tertiolecta to lead and aluminum: Toxicity and effects on ultrastructure**

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- **Vanadyl sulfate protects against streptozotocin-induced morphological and biochemical changes in rat aorta**
Akgun-Dar K., Bolkent S., Yanardag R., Tunali S.
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- **Oxidative stress and histological changes in the in the kidney following oral methiocarb administrations in rats: Role of vitamin E and taurine**
Ozden S., Gezginci S., Catalgol B. K. , Bolkent S., Alpertunga B.
TOXICOLOGY LETTERS, vol.172, 2007 (Journal Indexed in SCI)
- **Effects of parsley (*Petroselinum crispum*) extract and glibornuride on the kidney of streptozotocin-induced diabetic rats**
Koyuturk M., Ozsoy-Sacan O., Yanardag R., Bolkent S.
ASIAN JOURNAL OF CHEMISTRY, vol.19, pp.3894-3902, 2007 (Journal Indexed in SCI)
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