

# Prof. GÜLBERK UÇAR

## Personal Information

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## Education Information

Doctorate, Hacettepe University, Eczacılık Fakültesi, Biyokimya Anabilim Dalı, Turkey 1983 - 1991

Postgraduate, Hacettepe University, Eczacılık Fakültesi, Biyokimya Anabilim Dalı, Turkey 1979 - 1983

Undergraduate, Hacettepe University, Eczacılık Fakültesi, Turkey 1975 - 1979

## Foreign Languages

English, C1 Advanced

French, B2 Upper Intermediate

## Research Areas

Life Sciences, Biochemistry, Biomolecules, Enzymology, Neurobiology, Natural Sciences

## Academic Titles / Tasks

Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2005 - Continues

Associate Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 1996 - 2005

Assistant Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 1992 - 1996

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 1981 - 1992

## Advising Theses

UÇAR G., Serotoninin renal hasardaki rolü, Doctorate, A.ERİKÇİ(Student), 2015

UÇAR G., Alzheimer hastalığında oluşan beta-amiloid fibrillerin yeni sentezlenen kolinesteraz inhibitörleri ile destabilizasyonu, Doctorate, H.EDA(Student), 2012

UÇAR G., Selektif MAO-B inhibitörü selejilin yüklü PLGA-b-PEG nanopartiküllerin hazırlanması ve beta-amiloid fibrillerle etkileşiminin incelenmesi, Postgraduate, İ.BAYSAL(Student), 2012

UÇAR G., Nitrit uygulamasının karaciğer iskemi reperfüzyon hasarı üzerine etkileri, Postgraduate, A.YALOVAÇ(Student), 2010

UÇAR G., Involvement of serotonin in the development of cardiac remodeling, Doctorate, S.YABANOĞLU(Student), 2008

UÇAR G., Akrilamid kaynaklı olası oksidatif stresin sıçan doku arjinaz ve nitrik oksit sentaz aktivitesine etkisi, Postgraduate, H.EDA(Student), 2007

UÇAR G., Triarilmetan boyaların redoks sistemi enzimleri ile etkileşimleri, Doctorate, E.TOPALOĞLU(Student), 2005

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

- I. **Omic Studies on In Vitro Cystinosis Model: siRNA-Mediated CTNS Gene Silencing in HK-2 Cells**  
Baysal İ., YABANOĞLU ÇİFTÇİ S., NEMUTLU E., EYLEM C. C., Gök-Topak E. D., ULUBAYRAM K., KIR S., GÜLHAN B., UÇAR G., ÖZALTIN F., et al.  
Laboratory investigation; a journal of technical methods and pathology, vol.104, no.1, pp.100287, 2024 (SCI-Expanded)
- II. **Prognostic gene biomarkers for c-Src inhibitor Si162 sensitivity in melanoma cells**  
TÜRK S., YILMAZ A., MALKAN Ü. Y., UÇAR G., TÜRK C.  
Turkish Journal of Biology, vol.48, no.1, pp.13-23, 2024 (SCI-Expanded)
- III. **Enterotoxins A and B produced by Staphylococcus aureus increase cell proliferation, invasion and cytarabine resistance in acute myeloid leukemia cell lines.**  
TÜRK S., Yanpar H., Baesmat A. S., Canli S., ÇINAR O. E., MALKAN Ü. Y., TÜRK C., HAZNEDAROĞLU İ. C., UÇAR G.  
Heliyon, vol.9, no.9, 2023 (SCI-Expanded)
- IV. **Metabolomic Analyses to Identify Candidate Biomarkers of Cystinosis**  
NEMUTLU E., ÖZALTIN F., YABANOĞLU ÇİFTÇİ S., GÜLHAN B., Eylem C. C., BAYSAL İ., Gök-Topak E. D., ULUBAYRAM K., SEZERMAN O. U., UÇAR G., et al.  
International Journal of Molecular Sciences, vol.24, no.3, 2023 (SCI-Expanded)
- V. **Harbinger of Trouble; Fingerprints in the Pre-Senile Stage of NK Cell's Dysfunction**  
TÜRK S., Baesmat A. S., YILMAZ A., MALKAN Ü. Y., TÜRK C., HAZNEDAROĞLU İ. C., UÇAR G.  
UHOD - Uluslararası Hematoloji-Onkoloji Dergisi, vol.33, no.2, pp.66-74, 2023 (SCI-Expanded)
- VI. **Pathobiological alterations affecting the distinct clinical courses of pediatric versus adult COVID-19 syndrome**  
ŞENEL E., TÜRK S., MALKAN Ü. Y., Peker M. Ç., TÜRK C., GÜNER H. R., UÇAR G., İZDEŞ S., KAYAASLAN B., BAYHAN G. İ., et al.  
Turkish Journal of Medical Sciences, vol.53, no.5, pp.1194-1204, 2023 (SCI-Expanded)
- VII. **Donepezil-loaded PLGA-b-PEG Nanoparticles Enhance the Learning and Memory Function of Beta-Amyloid Rat Model of Alzheimer's Disease**  
Donepezil Yüklü PLGA-b-PEG Nanopartiküller Beta-Amiloid Alzheimer Hastalığı Sıçan Modelinde Öğrenme ve Hafızayı Geliştirir  
ÇINAR E., Mutluay S. U., BAYSAL İ., Gültekinoglu M., ULUBAYRAM K., Çiftçi S. Y., TEL B. C., UÇAR G.  
Noropsikiyatri Arsivi, vol.59, no.4, pp.281-289, 2022 (SCI-Expanded)
- VIII. **CANDIDATE BIOMARKER(S) FOR CYSTINOSIS WITH OMIC-BASED TECHNOLOGY: FROM LABORATORY TO BED-SIDE**  
NEMUTLU E., Eylem C. C., GÜLHAN B., BAYSAL İ., Yabanoglu-Ciftci S., KIR S., ULUBAYRAM K., UÇAR G., SEZERMAN O. U., ÖZALTIN F., et al.  
PEDIATRIC NEPHROLOGY, vol.37, no.11, pp.2831, 2022 (SCI-Expanded)
- IX. **Brain permeable curcumin-based pyrazoline analogs: MAO inhibitory and antioxidant activity**  
Badavath V. N., Thakur A., Shilkar D., Nath C., Acevedo O., UÇAR G., Jayaprakash V.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1268, 2022 (SCI-Expanded)
- X. **NK-cell dysfunction of acute myeloid leukemia in relation to the renin-angiotensin system and neurotransmitter genes**  
TÜRK S., Baesmat A. S., YILMAZ A., TÜRK C., MALKAN Ü. Y., UÇAR G., HAZNEDAROĞLU İ. C.  
OPEN MEDICINE, vol.17, no.1, pp.1495-1506, 2022 (SCI-Expanded)
- XI. **Effects of Probiotic Bacteria on Central Neuronal Activation in Experimental Colitis**  
Sengul N., Tore F., Isik S., ASLIM B., UÇAR G., FIRAT T., Ciftci S. Y., Kukner A.  
TURKISH JOURNAL OF GASTROENTEROLOGY, vol.33, no.4, pp.304-311, 2022 (SCI-Expanded)

- XII. **Trimethoxy Crown Chalcones as Multifunctional Class of Monoamine Oxidase Enzyme Inhibitors**  
Maliyakkal N., BAYSAL İ., Tengli A., UÇAR G., Almoyad M. A. A., Parambi D. G. T., Gambacorta N., Nicolotti O., Beeran A. A., Mathew B.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, vol.25, no.8, pp.1314-1326, 2022 (SCI-Expanded)
- XIII. **Assessing the genetic impact of Enterococcus faecalis infection on gastric cell line MKN74**  
TÜRK S., Turk C., Temirci E. S., Malkan Ü. Y., UÇAR G., Ozguven S. V.  
ANNALS OF MICROBIOLOGY, vol.71, no.1, 2021 (SCI-Expanded)
- XIV. **Identification of Phenolic Compounds by LC-MS/MS and Evaluation of Bioactive Properties of Two Edible Halophytes: Limonium effusum and L. sinuatum**  
BAYSAL İ., EKİZOĞLU M., ERTAŞ A., Temiz B., AĞALAR H. G., YABANOĞLU ÇİFTÇİ S., TEMEL H., UÇAR G., Turkmenoglu F. P.  
MOLECULES, vol.26, no.13, 2021 (SCI-Expanded)
- XV. **Pharmacological Protection against Ischemia-Reperfusion Injury by Regulating the Nrf2-Keap1-ARE Signaling Pathway**  
Ucar B. I., UÇAR G., Saha S., Buttari B., Profumo E., Saso L.  
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- XVI. **New 2-Pyrazoline and Hydrazone Derivatives as Potent and Selective Monoamine Oxidase A Inhibitors.**  
Salgin-Goksen U., Telli G., Erikci A., Dedecengiz E., Tel B. C., Kaynak F. B., Yelekçi K., Uçar G., Gökhan Kelekçi N.  
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- XVII. **Renin angiotensin system genes are biomarkers for personalized treatment of acute myeloid leukemia with Doxorubicin as well as etoposide**  
Turk S., Turk C., Akbar M., Kucukkaraduman B., Isbilen M., Demirkol C., Malkan Ü. Y., Okay M., Ucar G., Sayinalp N., et al.  
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- XVIII. **Effects of endothelin receptor blockade and COX inhibition on intestinal I/R injury in a rat model: Experimental research**  
Ucar B. I., Erikci A., Kosemehmetoglu K., Ozkul C., Iskit A. B., Ucar G., Zeren S.  
INTERNATIONAL JOURNAL OF SURGERY, vol.83, pp.89-97, 2020 (SCI-Expanded)
- XIX. **Synthesis, molecular modelling and biological activity of some pyridazinone derivatives as selective human monoamine oxidase-B inhibitors**  
ÖZDEMİR Z., ALAGÖZ M. A., USLU H., KARAKURT A., Erikci A., Ucar G., UYSAL M.  
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- XX. **Absolute configuration and biological profile of pyrazoline enantiomers as MAO inhibitory activity**  
Goksen U. S., Sarigul S., Bultinck P., Herrebout W., Dogan I., YELEKÇİ K., UÇAR G., GÖKHAN KELEKÇİ N.  
CHIRALITY, vol.31, no.1, pp.21-33, 2019 (SCI-Expanded)
- XXI. **Effects of two selected SSRIs on hemorheological parameters in rats.**  
Arihan O., Yabanoglu S., Ucar G., Falkmarken N.  
Clinical hemorheology and microcirculation, vol.71, pp.27-38, 2019 (SCI-Expanded)
- XXII. **Transforming growth factor-beta 3 (TGF-beta 3) loaded PLGA-b-PEG nanoparticles: Efficacy in preventing cardiac fibrosis induced by TGF-beta 1**  
Yabanoglu-Ciftci S., BAYSAL İ., ERİKÇİ A., Arica B., UÇAR G.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.48, pp.223-234, 2018 (SCI-Expanded)
- XXIII. **Curcumin-based pyrazoline analogues as selective inhibitors of human monoamine oxidase A**  
Nath C., Badavath V. N., Thakur A., UÇAR G., Acevedo O., Siddique M. U. M., Jayaprakash V.  
MEDCHEMCOMM, vol.9, no.7, pp.1164-1171, 2018 (SCI-Expanded)
- XXIV. **Asymmetric synthesis, molecular modeling and biological evaluation of 5-methyl-3-aryloxazolidine-2,4-dione enantiomers as monoamine oxidase (MAO) inhibitors**  
Gunal S. E., Tuncel S. T., GÖKHAN KELEKÇİ N., UÇAR G., Dursun B. Y., ERDEM S., Dogan I.  
BIOORGANIC CHEMISTRY, vol.77, pp.608-618, 2018 (SCI-Expanded)

- XXV. **Characterization of Thienylchalcones as hMAO-B Inhibitors: Synthesis, Biochemistry and Molecular Dynamics Studies**  
Mathew B., UÇAR G., Rapheal C., Mathew G. E., Joy M., Machaba K. E., Soliman M. E. S.  
CHEMISTRYSELECT, vol.2, no.34, pp.11113-11119, 2017 (SCI-Expanded)
- XXVI. **Monoamine oxidase inhibitory activity of methoxy-substituted chalcones**  
Mathew B., Mathew G. E., UÇAR G., Joy M., Nafna E. K., Lohidakshan K. K., Suresh J.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.104, pp.1321-1329, 2017 (SCI-Expanded)
- XXVII. **Trimetazidine Increases Cell Survival and Inhibits the Activation of Inflammatory Response in Sodium Taurocholate-Induced Acute Pancreatitis**  
Isik S., Sengul N., Tore F., AYDIN C., Aslan A., UÇAR G., FIRAT T., KÜKNER A., Bayram R., Demirbag A. E., et al.  
INTERNATIONAL SURGERY, vol.102, pp.542-551, 2017 (SCI-Expanded)
- XXVIII. **Design, synthesis and MAO inhibitory activity of 2-(arylmethylidene)2,3-dihydro-1-benzofuran-3-one derivatives**  
Badavath V. N., Nath C., Ganta N. M., UÇAR G., Sinha B. N., Jayaprakash V.  
CHINESE CHEMICAL LETTERS, vol.28, no.7, pp.1528-1532, 2017 (SCI-Expanded)
- XXIX. **Pharmacophore-Based 3D-QSAR Analysis of Thienyl Chalcones as a New Class of Human MAO-B Inhibitors: Investigation of Combined Quantum Chemical and Molecular Dynamics Approach**  
Mathew B., Adeniyi A. A., Dev S., Joy M., UÇAR G., Mathew G. E., Singh-Pillay A., Soliman M. E. S.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.121, no.6, pp.1186-1203, 2017 (SCI-Expanded)
- XXX. **Donepezil loaded PLGA-b-PEG nanoparticles: their ability to induce destabilization of amyloid fibrils and to cross blood brain barrier in vitro**  
BAYSAL İ., UÇAR G., GULTEKINOGLU M., ULUBAYRAM K., Yabanoglu-Ciftci S.  
JOURNAL OF NEURAL TRANSMISSION, vol.124, no.1, pp.33-45, 2017 (SCI-Expanded)
- XXXI. **New Human Monoamine Oxidase A Inhibitors with Potential Anti- Depressant Activity: Design, Synthesis, Biological Screening and Evaluation of Pharmacological Activity.**  
Evrano-Aksoz B., Ucar G., Tas S., Aksoz E., Yelekci K., Erikci A., Sara Y., Iskit A. B.  
Combinatorial chemistry & high throughput screening, vol.20, pp.461-473, 2017 (SCI-Expanded)
- XXXII. **Design, Synthesis and hMAO Inhibitory Screening of Novel 2-Pyrazoline Analogues**  
Evrano-Aksoz B., UÇAR G., YELEKÇİ K.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, vol.20, no.6, pp.510-521, 2017 (SCI-Expanded)
- XXXIII. **Monoamine Oxidase Inhibitory Activity: Methyl- versus Chlorochalcone Derivatives**  
Mathew B., UÇAR G., Mathew G. E., Mathew S., Purapurath P. K., Moolayil F., Mohan S., Gupta S. V.  
CHEMMEDCHEM, vol.11, no.24, pp.2649-2655, 2016 (SCI-Expanded)
- XXXIV. **Monoamine Oxidase Inhibitory Activity of Novel Pyrazoline Analogues: Curcumin Based Design and Synthesis-II**  
Badavath V. N., UÇAR G., Sinha B. N., Mondal S. K., Jayaprakash V.  
CHEMISTRYSELECT, vol.1, no.18, pp.5879-5884, 2016 (SCI-Expanded)
- XXXV. **Exploration of chlorinated thienyl chalcones: A new class of monoamine oxidase-B inhibitors**  
Mathew B., Haridas A., UÇAR G., BAYSAL İ., Adeniyi A. A., Soliman M. E. S., Joy M., Mathew G. E., Lakshmanan B., Jayaprakash V.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.91, pp.680-695, 2016 (SCI-Expanded)
- XXXVI. **Potent and Selective Monoamine Oxidase-B Inhibitory Activity: Fluoro- vs. Trifluoromethyl-4-hydroxylated Chalcone Derivatives.**  
Mathew B., Mathew G. E., Ucar G., BAYSAL İ., Suresh J., Mathew S., Haridas A., Jayaprakash V.  
Chemistry & biodiversity, vol.13, no.8, pp.1046-52, 2016 (SCI-Expanded)
- XXXVII. **Role of serotonin in the regulation of renal proximal tubular epithelial cells**  
ERİKÇİ A., UÇAR G., YABANOĞLU ÇİFTÇİ S.  
RENAL FAILURE, vol.38, no.7, pp.1141-1150, 2016 (SCI-Expanded)
- XXXVIII. **Identification of Indole-Based Chalcones: Discovery of a Potent, Selective, and Reversible Class of MAO-B Inhibitors**  
Sasidharan R., Manju S. L., UÇAR G., BAYSAL İ., Mathew B.

- ARCHIV DER PHARMAZIE, vol.349, no.8, pp.627-637, 2016 (SCI-Expanded)
- XXXIX. **Synthesis, Biochemistry, and Computational Studies of Brominated Thienyl Chalcones: A New Class of Reversible MAO-B Inhibitors**  
Mathew B., Haridas A., UÇAR G., BAYSAL İ., Joy M., Mathew G. E., Lakshmanan B., Jayaprakash V.  
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- XL. **Monoamine Oxidase Inhibitory Activity of Ferulic Acid Amides: Curcumin-Based Design and Synthesis**  
Badavath V. N., BAYSAL İ., UÇAR G., Mondal S. K., Sinha B. N., Jayaprakash V.  
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- XLI. **Monoamine Oxidase Inhibitory Activity of Novel Pyrazoline Analogues: Curcumin Based Design and Synthesis**  
Badavath V. N., BAYSAL İ., UÇAR G., Sinha B. N., Jayaprakash V.  
ACS MEDICINAL CHEMISTRY LETTERS, vol.7, no.1, pp.56-61, 2016 (SCI-Expanded)
- XLII. **Synthesis and Screening of Human Monoamine Oxidase-A Inhibitor Effect of New 2-Pyrazoline and Hydrazone Derivatives**  
EVRANOS-AKSOZ B., BAYSAL İ., Yabanoglu-Ciftci S., Djikic T., Yelekci K., UÇAR G., Ertan R.  
ARCHIV DER PHARMAZIE, vol.348, no.10, pp.743-756, 2015 (SCI-Expanded)
- XLIII. **Development of fluorinated methoxylated chalcones as selective monoamine oxidase-B inhibitors: Synthesis, biochemistry and molecular docking studies**  
Mathew B., Mathew G. E., UÇAR G., BAYSAL İ., Suresh J., Vilapurathu J. K., Prakasan A., Suresh J. K., Thomas A.  
BIOORGANIC CHEMISTRY, vol.62, pp.22-29, 2015 (SCI-Expanded)
- XLIV. **Flavonoids from Sideritis Species: Human Monoamine Oxidase (hMAO) Inhibitory Activities, Molecular Docking Studies and Crystal Structure of Xanthomicrol**  
Turkmenoglu F. P., BAYSAL İ., Ciftci-Yabanoglu S., Yelekci K., Temel H., Pasa S., Ezer N., Calis I., UÇAR G.  
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- XLV. **Monoamine oxidase inhibitory activity of 2-aryl-4H-chromen-4-ones**  
Nayak B. V., Ciftci-Yabanoglu S., Bhakat S., Timiri A. K., Sinha B. N., UÇAR G., Soliman M. E. S., Jayaprakash V.  
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- XLVI. **ICAM-1 targeted catalase encapsulated PLGA-b-PEG nanoparticles against vascular oxidative stress**  
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JOURNAL OF MICROENCAPSULATION, vol.32, no.7, pp.687-698, 2015 (SCI-Expanded)
- XLVII. **Development of Fluorinated Thienylchalcones as Monoamine Oxidase-B Inhibitors: Design, Synthesis, Biological Evaluation and Molecular Docking Studies**  
Mathew B., UÇAR G., Yabanoglu-Ciftci S., BAYSAL İ., Suresh J., Mathew G. E., Vilapurathu J. K., Nadeena A. M., Nabeela P., Lakshmi V., et al.  
LETTERS IN ORGANIC CHEMISTRY, vol.12, no.9, pp.605-613, 2015 (SCI-Expanded)
- XLVIII. **Synthesis of some novel hydrazone and 2-pyrazoline derivatives: Monoamine oxidase inhibitory activities and docking studies**  
Evranos-Aksoz B., Yabanoglu-Ciftci S., UÇAR G., Yelekci K., Ertan R.  
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- XLIX. **EFFECT OF ACRYLAMIDE TREATMENT ON ARGINASE ACTIVITIES AND NITRIC OXIDE LEVELS IN RAT LIVER AND KIDNEY**  
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- L. **Monoamine oxidase inhibitory activity of 3,5-biaryl-4,5-dihydro-1H-pyrazole-l-carboxylate derivatives**  
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EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.69, pp.762-767, 2013 (SCI-Expanded)
- LI. **Interaction of selegiline-loaded PLGA-b-PEG nanoparticles with beta-amyloid fibrils**  
BAYSAL İ., Yabanoglu-Ciftci S., Tunc-Sarisozen Y., ULUBAYRAM K., UÇAR G.  
JOURNAL OF NEURAL TRANSMISSION, vol.120, no.6, pp.903-910, 2013 (SCI-Expanded)

- LII. **Evaluation of selective human MAO inhibitory activities of some novel pyrazoline derivatives**  
Salgin-Goksen U, Yabanoglu-Ciftci S, ERCAN A, Yelekci K, UÇAR G, Gokhan-Kelekci N.  
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- LIII. **Synthesis, molecular modeling, and in vitro screening of monoamine oxidase inhibitory activities of some novel hydrazone derivatives**  
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- LIV. **Synthesis, molecular modeling and evaluation of novel N'-2-(4-benzylpiperidin-/piperazin-1-yl)acylhydrazone derivatives as dual inhibitors for cholinesterases and A beta aggregation**  
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- LV. **Synthesis and Evaluation of Human Monoamine Oxidase Inhibitory Activities of Some 3,5-Diaryl-N-substituted-4,5-dihydro-1H-pyrazole-1-carbothioamide Derivatives**  
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- LVI. **Effects of nitrite on hepatic ischemia-reperfusion injury**  
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- LVII. **Pyrazoline based MAO inhibitors: Synthesis, biological evaluation and SAR studies**  
JAGRAT M., BEHERA J., YABANOGLU S., ERCAN A., UÇAR G., SINHA B. N., SANKARAN V., BASU A., JAYAPRAKASH V.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.21, no.14, pp.4296-4300, 2011 (SCI-Expanded)
- LVIII. **The Effect of Exopolysaccharide-Producing Probiotic Strains on Gut Oxidative Damage in Experimental Colitis**  
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- LIX. **Monoamine oxidase (MAO) activity and MAO-derived hydroxyl radical production in mouse model of hepatic ischemia-reperfusion injury**  
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- LX. **Development of selective and reversible pyrazoline based MAO-A inhibitors: Synthesis, biological evaluation and docking studies**  
Karuppasamy M., Mahapatra M., YABANOĞLU ÇİFTÇİ S., UÇAR G., Sinha B. N., Basu A., Mishra N., Sharon A., Kulandaivelu U., Jayaprakash V.  
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- LXI. **Pyrazoline-based Mycobactin Analogues as Dual Inhibitors of MAO/Cholinesterase**  
Jayaprakash V., YABANOĞLU ÇİFTÇİ S., Sinha B. N., UÇAR G.  
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- IV. **Hypoxia-induced epithelial-mesenchymal transition enhanced glutathione-S-transferase expression in HT-29 cell line**  
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- VIII. **Antifibrotic Effect of TGF-β3 Loaded PLGA-b-PEG Nanoparticles on Human Cardiac Fibroblast Cell Line**  
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- XI. **EPITHELIAL-MESENCHYMAL TRANSITION (EMT) IN CANCER**  
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- XXI. **Determination of chemotherapeutic drug sensitivity subgroups of acute leukemia**  
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- XXX. **Behavioural changes in donepezil loaded PLGA b PEG nanoparticles on beta amyloid 25 35 injected rat model of Alzheimer s disease**  
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