

Asst. Prof. İPEK BAYSAL

Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyokimya, Turkey 2009 - 2015

Postgraduate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp Anabilim Dalı, Turkey 2009 - 2012

Undergraduate, Hacettepe Üniversitesi, Fen Fakültesi, Biyoloji Bölümü, Turkey 2004 - 2008

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Alzheimer hastalığı tedavisinde kullanılmak üzere donepezil yüklü PLGA-b-PEG nanopartiküllerinin hazırlanması ve beyne hedeflendirilmesi, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyokimya (Dr), 2015

Postgraduate, Selektif MAO-B inhibitörü selejilin yüklü PLGA-b-PEG nanopartiküllerin hazırlanması ve beta-amiloid fibrillerle etkileşiminin incelenmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp (YI) (Tezli), 2012

Research Areas

Basic Pharmaceutics Sciences, Health Sciences, Pharmacology and Therapeutics, Biochemistry

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Sağlık Hizmetleri Meslek Yüksekokulu, 2020 - Continues

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2010 - 2020

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

- I. **Metabolomic profiling of active and inactive liver cystic echinococcosis**
ÇİFTÇİ T. T. , YABANOĞLU ÇİFTÇİ S., ÜNAL E., AKINCI D., BAYSAL İ., Yuce G., DOĞRUL A. B. , ÖRSTEN S., AKHAN O., NEMUTLU E.
ACTA TROPICA, vol.221, 2021 (Journal Indexed in SCI)
- II. **Nanoparticles and Nanostructured Films with TGF-beta 3: Preparation, Characterization, and Efficacy**
BAYSAL İ., Ozcelikay G., YABANOĞLU ÇİFTÇİ S., Ucar B. I. , Gencer A., ARICA YEGİN B.
AAPS PHARMSCITECH, vol.22, no.6, 2021 (Journal Indexed in SCI)

- III. **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 (Journal Indexed in SCI)
- IV. **Evaluation of the Effect of Hydatid Cyst Fluid on the Apoptosis Pathway in BEAS-2B and A549 Cell Lines**
BAYSAL İ., ÖRSTEN S.
MIKROBIYOLOJİ BULTENİ, vol.55, no.2, pp.248-255, 2021 (Journal Indexed in SCI)
- V. **Gas chromatography-mass spectrometry based O-18 stable isotope labeling of Krebs cycle intermediates**
Eylem C. C. , BAYSAL İ., Erikci A., YABANOĞLU ÇİFTÇİ S., Zhang S., KIR S., Terzic A., Dzeja P., NEMUTLU E.
ANALYTICA CHIMICA ACTA, vol.1154, 2021 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **Development of Nanosized, Pramipexole-Encapsulated Liposomes and Niosomes for the Treatment of Parkinson's Disease**
Gunay M., ÖZER A. Y. , ERDOĞAN S., BODARD S., BAYSAL İ., GULHAN Z., GUILLOTEAU D., CHALON S.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.17, no.8, pp.5155-5167, 2017 (Journal Indexed in SCI)
- VIII. **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., GULTEKINOĞLU M., ULUBAYRAM K., Yabanoglu-Ciftci S.
JOURNAL OF NEURAL TRANSMISSION, vol.124, no.1, pp.33-45, 2017 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI Expanded)
- XI. **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 (Journal Indexed in SCI)
- XII. **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.
CHEMMEDCHEM, vol.11, no.11, pp.1161-1171, 2016 (Journal Indexed in SCI)
- XIII. **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.
ARCHIV DER PHARMAZIE, vol.349, no.1, pp.9-19, 2016 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Synthesis and Screening of Human Monoamine Oxidase-A Inhibitor Effect of New 2-Pyrazoline and**

Hydrazone Derivatives

EVRAKOS-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 (Journal Indexed in SCI)

- XVI. **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 (Journal Indexed in SCI)
- XVII. **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.
MOLECULES, vol.20, no.5, pp.7454-7473, 2015 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **Role of Endothelial AADC in Cardiac Synthesis of Serotonin and Nitrates Accumulation**
Rouzaud-Laborde C., Hanoun N., Baysal İ., Rech J., Mias C., Calise D., Sicard P., Frugier C., Seguelas M., Parini A., et al.
PLOS ONE, vol.7, no.7, 2012 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Caco-2 Hücre Hattı In Vitro Epitelyal Mezenkimal Geçiş Modelinde Glutasyon S-Transferaz- π Düzeyleri**
TÜRK S., BAYSAL İ., UÇAR G.
Hacettepe Üniversitesi Eczacılık Fakültesi Dergisi, vol.39, no.1, pp.10-16, 2019 (Other Refereed National Journals)
- II. **Glutathione S-transferase- π levels of in vitro generated epithelial mesenchymal transition model in caco-2 cell line Caco-2 hücre hattı in vitro epitelyal mezenkimal geçiş modelinde glutasyon s-transferaz- π düzeyleri**
TÜRK S., BAYSAL İ., UÇAR G.
Hacettepe University Journal of the Faculty of Pharmacy, vol.39, no.1, pp.10-16, 2019 (Refereed Journals of Other Institutions)
- III. **Acetylcholinesterase inhibitory activities and LC-MS analysis of the antioxidant Ferula caspica M. Bieb. and F. halophila Pesmen extracts**
KAHRAMAN Ç., BAYSAL İ., ÇANKAYA İ. İ. , GÖGER F., Kırimer N., AKDEMİR Z. Ş.
JOURNAL OF RESEARCH IN PHARMACY, vol.23, no.3, pp.543-551, 2019 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **The Behavioral Changes Of Donepezil-Loaded Plga-B-Peg Nanoparticles On Beta-Amyloid 25–35 Injected Rat Model Of Alzheimer’s Disease.**
ÇINAR E., TEL B. C. , BAYSAL İ., GÜLTEKİNOĞLU M., ULUBAYRAM K., YABANOĞLU ÇİFTÇİ S., UÇAR G.
International Multidisciplinary Symposium on Drug Research Development (DRD 2019), 1 - 03 July 2019
- II. **TGF- β 3 Loaded PLGA-b-PEG Nanoparticles: Preparation and Characterization**
Baysal İ., Eriççi A., Arıca Yegin B., Uçar G., Yabanoğlu Çiftçi S.
European Federation of Pharmaceutical Sciences, Athens, Greece, 24 - 26 May 2018

- III. **Antifibrotic Effect of TGF- β 3 Loaded PLGA-b-PEG Nanoparticles on Human Cardiac Fibroblast Cell Line**
Erikçi A., Baysal İ., Arica Yegin B., Uçar G., Yabanoğlu Çiftçi S.
European Federation of Pharmaceutical Sciences, Athens, Greece, 24 - 26 May 2018
- IV. **Preparation and Characterization of GST Inhibitor ETA-Loaded Nanoparticles for Targeting to Chemotherapeutic Resistant Cancer Cells**
ÖZÇELİK B., BAYSAL İ., EROĞLU İ., UÇAR G.
International Multidisciplinary Symposium on Drug Research and Development, 5 - 07 October 2017
- V. **GC-MS Based Metabolomic Profile of Caco 2 Cell Lines**
özen G., BAYSAL İ., Eylem C. C. , YABANOĞLU ÇİFTÇİ S., KIR S., NEMUTLU E.
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, 5 - 07 October 2017
- VI. **Acetylcholinesterase Inhibitory and Antioxidant Activities of Ferula caspica and F. halophila Extracts**
KAHRAMAN Ç., BAYSAL İ., YABANOĞLU ÇİFTÇİ S., ÇANKAYA İ. İ. , AKDEMİR Z. Ş.
XXIst International Congress "Phytopharm 2017" and 10th Anniversary of the TCM Research Center Graz, 2 - 05 July 2017
- VII. **Human MAO inhibitory activity of 2 arylmethylidene 2 3 dihydro 1 benzofuran 3 one derivatives**
Nayak Badavath V., BAYSAL İ., Venkatesan J., sinha B., UÇAR G.
International Conference Nature Inspired Initiatives in Chemical trends, 19 - 20 September 2016
- VIII. **Preparation and evaluation of GST inhibitor loaded nanoparticles for overcoming drug resistance in cancer**
ÖZÇELİK B., EROĞLU İ., BAYSAL İ., ULUBAYRAM K., UÇAR G., İSKİT A. B.
18th International Pharmaceutical Technology Symposium, 18 - 21 September 2016
- IX. **Overexpression of Glutathione S Transferase p GST p in Epithelial Mesenchymal Transition EMT Model of Caco2 Cells and the Effect of GST**
BAYSAL İ., Turk Ghasemi S., ÖZÇELİK B., UÇAR G.
EMBO, 10 - 13 September 2016
- X. **Preparation of TGF-beta 3 loaded PLGA nanoparticles and film formulations for wound healing**
BAYSAL İ., Ozcelikay G., Yabanoglu-Ciftci S., Arica-Yegin B.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.315
- XI. **Protective effects of new selective COX 2 inhibitors on a rat model of severe acute pancreatitis**
ERİKÇİ A., UÇAR B. İ. , BAYSAL İ., Salgın Gökşen u., GÖKHAN KELEKÇİ N., KÖSEMEHMETOĞLU K., İSKİT A. B. , YABANOĞLU ÇİFTÇİ S., UÇAR G.
The FEBS Journal, 3 - 08 September 2016
- XII. **Protective effects of new selective COX-2 inhibitors on a rat model of severe acute pancreatitis**
Erikci A., Ucar B. İ. , BAYSAL İ., Goksen U. S. , Kelekci N. G. , Baran A. U. , Tozkoparan B., Kosemehmetoglu K., Iskit A. B. , Ciftci S. Y. , et al.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.246
- XIII. **Preparation of TGF b3 loaded PLGA nanoparticles and film formulations for wound healing**
özcelikay g., BAYSAL İ., YABANOĞLU ÇİFTÇİ S., ARICA YEGİN B.
41st FEBS Congress, 3 - 08 September 2016
- XIV. **In Vitro Studies on BBB Penetration of Pramipexole Encapsulated Theranostic Liposomes for the Therapy of Parkinson s Disease**
SİLİNDİR GÜNAY M., ÖZER A. Y. , ERDOĞAN S., BAYSAL İ., Guilloteau D., Chalon S.
18th European Symposium on Radiopharmacy and Radiopharmaceuticals, 7 - 10 April 2016
- XV. **Antioxidant and Ant inflammatory Effects of Newly Synthesized COX 2 Inhibitors on Taurocholate induced Acute Pancreatitis in Rats**
UÇAR B. İ. , ERİKÇİ A., BAYSAL İ., Salgın Gökşen U., GÖKHAN KELEKÇİ N., ŞAHİN T. T. , KÖSEMEHMETOĞLU K., İSKİT A. B. , UÇAR G.

International Multidisciplinary Symposium on Drug Research Development, Eskişehir, Turkey, 15 - 17 October 2015

- XVI. **Design Synthesis and Biological Evaluation of MAO A Selective New 2 Pyrazoline and Hydrazone Derivatives**
EvranoşAksöz B., BAYSAL İ., UÇAR G., Djikic T., YELEKÇİ K.
International Multidisciplinary Symposium on Drug Research & Development, 15 - 17 October 2015
- XVII. **MAO inhibitory activity and pharmacokinetic properties of curcumin analogue ACI**
Jayaprakash v., Nayak V., Nayan Sinha B., BAYSAL İ., UÇAR G., Mondal S.
International Multidisciplinary Symposium on Drug Research and Development, 15 - 17 October 2015
- XVIII. **Anti oxidant and anti inflammatory effects of newly synthesized COX 2 inhibitors on taurocholate induced acute pancreatitis in rats**
UÇAR B. İ., ERİKÇİ A., BAYSAL İ., Salgın Gökşen U., GÖKHAN KELEKÇİ N., ŞAHİN T. T., KÖSEMEHMETOĞLU K., İSKİT A. B.
International Multidisciplinary Symposium on Drug Research & Development, 15 - 17 October 2015
- XIX. **Anti oxidant and anti inflammatory effects of newly synthesized COX 2 inhibitors on taurocholate induced acute pancreatitis in rats**
UÇAR B. İ., ERİKÇİ A., BAYSAL İ., salgın gökşen u., GÖKHAN KELEKÇİ N., ŞAHİN T. T., KÖSEMEHMETOĞLU K., İSKİT A. B., UÇAR G.
International Multidisciplinary Symposium on Drug Research & Development, 15 - 17 October 2015
- XX. **Behavioural changes in donepezil loaded PLGA b PEG nanoparticles on beta amyloid 25 35 injected rat model of Alzheimer s disease**
Tel B. C., Çınar E., Mutluay S. U., Baysal İ., Erikçi A., Gültekinöğlü M., Ulubayram K., Yabanoğlu Çiftçi S., Uçar G.
IBRO 2015, Rio De Janeiro, Brazil, 7 - 11 July 2015, pp.55
- XXI. **Novel reversible and selective pyrazoline based hMAO A inhibitors synthesis docking studies and biological evaluation**
EvranoşAksöz B., BAYSAL İ., YABANOĞLU ÇİFTÇİ S., Djikic T., YELEKÇİ K., UÇAR G.
11th ISOPS, 9 - 12 June 2015
- XXII. **Efficiency of selegiline loaded PLGA-b-PEG nanoparticles in crossing blood brain barrier in vivo**
BAYSAL İ., Yabanoglu-Ciftci S., Ulubayram K., Ucar G.
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.345-346
- XXIII. **Aryl pyrazoline analogs as selective MAO-A inhibitors: further structural modification by switching the aromatic substituent**
Ucar G., Jayaprakash V., BAYSAL İ., Yabanoglu S. C., Jagrat M., Sinha B. N., Basu A.
36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.338

Supported Projects

TEL B. C., MUTLUAY S. U., ELİBOL B., YABANOĞLU ÇİFTÇİ S., BAYSAL İ., YALÇIN ÇAKMAKLI G., KAZKAYASI İ., TELLİ G., YÜRÜKER A. C. S., SAKA TOPÇUOĞLU E., et al., Project Supported by Higher Education Institutions, Bazal gangliyonlarda ve limbik kortekste viral vektör aracılı alfa sinüklein aşırı ifadesine dayalı Parkinson hastalığı modelinde motor ve davranışsal değişikliklerin patoloji ile karşılaştırmalı olarak incelenmesi ve bu modelde rapamisin uygulamasının etkisinin araştırılması, 2015 - 2019

UÇAR G., BAYSAL İ., EROĞLU İ., Özçelik B., Özçelik B., Project Supported by Higher Education Institutions, Kemoterapötiklere Dirençli Kanser Hücrelerine Yönlendirilmek Üzere GST İnhibitörü ETA Yüklü Nanopartiküllerin Hazırlanması ve Karakterizasyonu, 2016 - 2017

UÇAR G., ERİKÇİ A., BAYSAL İ., ERCAN A., YÜKSEL TEK M., BİBEROĞLU K., TÜYLÜ KÜÇÜKKILINÇ Z. T., AYAZGÖK B., TACAL Ö., YABANOĞLU ÇİFTÇİ S., et al., Project Supported by Higher Education Institutions, ECF385 Biyokimya III Laboratuvar Ders İçeriğinin Klinik Biyokimya Yöntemleri ile Zenginleştirilerek Güncellenmesi, 2015 - 2016

ERİKÇİ A., UÇAR G., ŞAHİN T. T., UÇAR B. İ., GÖKHAN KELEKÇİ N., BAYSAL İ., İSKİT A. B., KÖSEMEHMETOĞLU K., Project

Supported by Higher Education Institutions, Yeni Sentezlenen 2-Benzoksazolinon Türevi Bileşiklerin Antioksidan ve Antiinflamatuvar Etkilerinin Deneysel Sıçan Akut Pankreatit Modelinde Araştırılması, 2015 - 2016

BAYSAL İ., Türk Ghasemi S., Project Supported by Higher Education Institutions, Caco2 hücrelerinde MezenkimalEpitelyal Geçiş modeli oluşturulması her iki formda oksidatif stres faktörü GST ve GST düzeylerindeki farklılıkların belirlenmesi ve antiGST uygulaması, 2015 - 2016

YABANOĞLU ÇİFTÇİ S., BAYSAL İ., Project Supported by Higher Education Institutions, ALZHEİMER HASTALIĞI TEDAVİSİNDE KULLANILMAK ÜZERE DONEPEZİL YÜKLÜ PLGA-b-PEG NANOPARTİKÜLLERİNİN HAZIRLANMASI VE BEYNE HEDEFLENDİRİLMESİ, 2015 - 2015

Citations

Total Citations (WOS):345

h-index (WOS):12