

Prof. ÖZDEN TACAL

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Education Information

Doctorate, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyokimya, Turkey 1996 - 2001

Post Graduate, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Biyokimya, Turkey 1993 - 1996

Under Graduate, Hacettepe Üniversitesi, Eczacılık Fakültesi, Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Research Areas

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

Academic and Administrative Experience

Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, 2016 - Continues

Courses

ECF 385 Biyokimya III lab, Under Graduate, 2016 - 2017

ECF287 Biyokimya I, Under Graduate, 2016 - 2017

ECF383 Biyokimya III, Under Graduate, 2016 - 2017

BİK615 Biyokimyada Kantitatif Problemler, Post Graduate, 2016 - 2017

Advising Theses

TACAL Ö., Fenotiyazin yapılı bileşiklerin amiloid prekürsör protein ve amiloid beta peptitler üzerindeki etkilerinin araştırılması, Doctorate, M.YÜKSEL(Student), 2017

TACAL Ö., Fetal sığır serum asetilkolinesterazının tetramerik yapısını organize eden poliprolin peptitlerin kütle spektrometre ile analizi, Doctorate, K.BİBEROĞLU(Student), 2014

TACAL Ö., Fenoksazin ve fenotiyazin yapılı ligandların insan bütirilkolinesterazına bağlanma noktalarının bölge yönelimli mutagenез yöntemi ile araştırılması, Post Graduate, Z.SEZGİN(Student), 2012

TACAL Ö., Triarilmetan, fenoksazin ve fenotiyazin yapılı bileşiklerin insan eritrosit asetilkolinesteraz ve at plazma bütirilkolinesteraz aktivitesi üzerine etkileri, Doctorate, Y.YÜCEL(Student), 2010

TACAL Ö., Bölge yönelimli mutagenез yaklaşımı ile insan bütirilkolinesterazında yapı-aktivite ilişkilerinin incelenmesi,

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

- I. **Inhibition of cholinesterases by safranin O: Integration of inhibition kinetics with molecular docking simulations**
ÖNDER S., SARI S., TACAL Ö.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.698, 2021 (Journal Indexed in SCI)
- II. **Characteristic fragment ions associated with dansyl cadaverine and biotin cadaverine adducts on glutamine**
BİBEROĞLU K., Schopfer L. M. , TACAL Ö., Lockridge O.
ANALYTICAL BIOCHEMISTRY, vol.600, 2020 (Journal Indexed in SCI)
- III. **Chlorpyrifos Oxon-Induced Isopeptide Bond Formation in Human Butyrylcholinesterase**
BİBEROĞLU K., TACAL Ö., Schopfer L. M. , Lockridge O.
MOLECULES, vol.25, no.3, 2020 (Journal Indexed in SCI)
- IV. **The kinetics of inhibition of human acetylcholinesterase and butyrylcholinesterase by methylene violet 3RAX**
Onder S., Biberoglu K., Tacal Ö.
CHEMICO-BIOLOGICAL INTERACTIONS, vol.314, 2019 (Journal Indexed in SCI)
- V. **Trafficking and proteolytic processing of amyloid precursor protein and secretases in Alzheimer's disease development: An up-to-date review**
YÜKSEL M., TACAL Ö.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.856, 2019 (Journal Indexed in SCI)
- VI. **Azure B affects amyloid precursor protein metabolism in PS70 cells**
BİBEROĞLU K., YÜKSEL M., TACAL Ö.
CHEMICO-BIOLOGICAL INTERACTIONS, vol.299, pp.88-93, 2019 (Journal Indexed in SCI)
- VII. **Mass Spectral Detection of Diethoxyphospho-Tyrosine Adducts on Proteins from HEK293 Cells Using Monoclonal Antibody depY for Enrichment**
Önder S., Schopfer L. M. , Tacal Ö., Blake T. A. , Johnson R. C. , Lockridge O.
CHEMICAL RESEARCH IN TOXICOLOGY, vol.31, pp.520-530, 2018 (Journal Indexed in SCI)
- VIII. **Toluidine blue O modifies hippocampal amyloid pathology in a transgenic mouse model of Alzheimer's disease**
YÜKSEL M., BİBEROĞLU K., ÖNDER S., Akbulut K. G. , TACAL Ö.
BIOCHIMIE, vol.146, pp.105-112, 2018 (Journal Indexed in SCI)
- IX. **Delipidation of Plasma Has Minimal Effects on Human Butyrylcholinesterase**
ÖNDER S., TACAL Ö., Lockridge O.
FRONTIERS IN PHARMACOLOGY, vol.9, 2018 (Journal Indexed in SCI)
- X. **Use of Hupresin To Capture Red Blood Cell Acetylcholinesterase for Detection of Soman Exposure**
ÖNDER S., SCHOPFER L. M. , CASHMAN J. R. , TACAL Ö., JOHNSON R. C. , BLAKE T. K. , Lockridge O.
ANALYTICAL CHEMISTRY, vol.90, no.1, pp.974-979, 2018 (Journal Indexed in SCI)
- XI. **Monoclonal Antibody That Recognizes Diethoxyphosphotyrosine-Modified Proteins and Peptides Independent of Surrounding Amino Acids**
ÖNDER S., Dafferner A. J. , Schopfer L. M. , Xiao G., Yerramalla U., TACAL Ö., Blake T. A. , Johnson R. C. , Lockridge O.
CHEMICAL RESEARCH IN TOXICOLOGY, vol.30, no.12, pp.2218-2228, 2017 (Journal Indexed in SCI)
- XII. **Hupresin Retains Binding Capacity for Butyrylcholinesterase and Acetylcholinesterase after Sanitation with Sodium Hydroxide**
ÖNDER S., DAVID E., TACAL Ö., SCHOPFER L. M. , Lockridge O.
FRONTIERS IN PHARMACOLOGY, vol.8, 2017 (Journal Indexed in SCI)
- XIII. **Effects of phenothiazine-structured compounds on APP processing in Alzheimer's disease cellular model**

- YÜKSEL M., BİBEROĞLU K., ÖNDER S., Akbulut K. G. , TACAL Ö.
BIOCHIMIE, vol.138, pp.82-89, 2017 (Journal Indexed in SCI)
- XIV. **Azure B reduces extracellular amyloid-beta levels in PS70 cells**
BİBEROĞLU K., YÜKSEL TEK M., ÖNDER S., TACAL Ö.
FEBS JOURNAL, vol.283, pp.266, 2016 (Journal Indexed in SCI)
- XV. **Toluidine blue O is a potent inhibitor of human cholinesterases**
BİBEROĞLU K., TEK M. Y. , GHASEMI S., TACAL Ö.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.604, pp.57-62, 2016 (Journal Indexed in SCI)
- XVI. **Healthy F-16 pilots show no evidence of exposure to tri-ortho-cresyl phosphate through the on-board oxygen generating system**
Tactal O., Schopfer L. M.
CHEMICO-BIOLOGICAL INTERACTIONS, vol.215, pp.69-74, 2014 (Journal Indexed in SCI)
- XVII. **Polyproline tetramer organizing peptides in fetal bovine serum acetylcholinesterase**
BİBEROĞLU K., Schopfer L. M. , Saxena A., TACAL Ö., Lockridge O.
BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS, vol.1834, no.4, pp.745-753, 2013 (Journal Indexed in SCI)
- XVIII. **Determination of binding points of methylene blue and cationic phenoxazine dyes on human butyrylcholinesterase**
Sezgin Z., BİBEROĞLU K., Chupakhin V., Makhaeva G. F. , TACAL Ö.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.532, no.1, pp.32-38, 2013 (Journal Indexed in SCI)
- XIX. **Resistance of Human Butyrylcholinesterase to Methylene Blue-Catalyzed Photoinactivation; Mass Spectrometry Analysis of Oxidation Products**
TACAL Ö., Li B., Lockridge O., Schopfer L. M.
PHOTOCHEMISTRY AND PHOTOBIOLOGY, vol.89, no.2, pp.336-348, 2013 (Journal Indexed in SCI)
- XX. **The proline-rich tetramerization peptides in equine serum butyrylcholinesterase**
BİBEROĞLU K., Schopfer L. M. , TACAL Ö., Lockridge O.
FEBS JOURNAL, vol.279, no.20, pp.3844-3858, 2012 (Journal Indexed in SCI)
- XXI. **The role of Phe329 in binding of cationic triarylmethane dyes to human butyrylcholinesterase**
BİBEROĞLU K., TACAL Ö., Akbulut H.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.511, pp.64-68, 2011 (Journal Indexed in SCI)
- XXII. **Methamidophos, dichlorvos, O-methoate and diazinon pesticides used in Turkey make a covalent bond with butyrylcholinesterase detected by mass spectrometry**
TACAL Ö., Lockridge O.
JOURNAL OF APPLIED TOXICOLOGY, vol.30, no.5, pp.469-475, 2010 (Journal Indexed in SCI)
- XXIII. **Comparative Study of the Reduction of Phenoxazine and Phenothiazine Dyes by NADH in Aqueous Solution**
Tactal O., Oezer I.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.34, no.3, pp.128-133, 2009 (Journal Indexed in SCI)
- XXIV. **Comparative effects of cationic triarylmethane, phenoxazine and phenothiazine dyes on horse serum butyrylcholinesterase**
Yucel Y. Y. , TACAL Ö., Ozer I.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.478, no.2, pp.201-205, 2008 (Journal Indexed in SCI)
- XXV. **An assessment of the role of intracellular reductive capacity in the biological clearance of triarylmethane dyes**
Tactal O., Oezer I.
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- XXVI. **Inhibition of choline oxidase by quinoid dyes**
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JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.21, no.6, pp.783-787, 2006 (Journal Indexed in SCI)

- XXVII. **Adduct-forming tendencies of cationic triarylmethane dyes with proteins: Metabolic and toxicological implications**
Tacal O., Özer İ.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.18, no.5, pp.253-256, 2004 (Journal Indexed in SCI)
- XXVIII. **A comparison between SDS-PAGE and size exclusion chromatography as analytical methods for determining product composition in protein conjugation reactions**
Tacal O., Özer İ.
JOURNAL OF BIOCHEMICAL AND BIOPHYSICAL METHODS, vol.52, no.3, pp.161-168, 2002 (Journal Indexed in SCI)
- XXIX. **Method dependence of apparent stoichiometry in the binding of salicylate ion to human serum albumin: A comparison between equilibrium dialysis and fluorescence titration**
Özer İ., Tacal O.
ANALYTICAL BIOCHEMISTRY, vol.294, no.1, pp.1-6, 2001 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Determination of alfa 1 proteinase inhibitor activity and phenotypes in patients with emphysema**
TACAL Ö., SÜMER N., ÇÖPLÜ L.
Turkish Journal Of Biochemistry-Turk Biyokimya Dergisi, vol.31, pp.169-174, 2006 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **The effects of phenothiazine dyes on GAG-modified APLP2 and β -secretase 1 levels in Hs766t cells''**
BİBEROĞLU K., YÜKSEL M., ÖNDER S., TACAL Ö.
TBD Uluslararası Biyokimya Kongresi 2018 // 29. Ulusal Biyokimya Kongresi, 26 - 30 October 2018
- II. **Detection of Diethoxyphospho-tyrosine Adducts on Proteins from HEK 293 Cells Using Monoclonal Antibody DepY for Enrichment**
ÖNDER S., Schopfer L. M. , TACAL Ö., Blake T. A. , Johnson R. C. , LOCKRIDGE O.
The 13th International Meeting on Cholinesterases and the 7th International Conference on Paraoxonases, 9 - 14 September 2018
- III. **Inhibition of human acetylcholinesterase and butyrylcholinesterase by methylene violet 3RAX**
ÖNDER S., BİBEROĞLU K., TACAL Ö.
13th International Meeting on Cholinesterases, 9 - 14 September 2018
- IV. **Toluidine blue O reduces APLP2 and APLP2 CTF levels in Hs766T cells**
BİBEROĞLU K., YÜKSEL M., ÖNDER S., TACAL Ö.
43rd FEBS Congress, 7 - 12 July 2018
- V. **The Inhibitory effects of phenothiazine dyes on B-secretase**
BİBEROĞLU K., YÜKSEL M., ÖNDER S., TACAL Ö.
12th International Symposium on Pharmaceutical Sciences, 26 - 29 June 2018
- VI. **Phenothiazine-structured compounds have different effects on secretases with therapeutic potential in Alzheimer's disease**
YÜKSEL M., TACAL Ö.
12th International Symposium on Pharmaceutical Sciences, 26 - 29 June 2018
- VII. **What Graduate Students Expect When They Enroll to Graduate Programs of Hacettepe University Institute of Health Sciences: Entrance Poll**
KAYA K., PEHLİVANOĞLU B., TACAL Ö., ORHAN D.
International Meeting on Education Research in Health Sciences, 3 - 05 November 2017
- VIII. **Toluidine blue o but not thionine alters APP procesing in 3XTg-AD mice**

YÜKSEL M., BİBEROĞLU K., ÖNDER S., AKBULUT K. G. , TACAL Ö.

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- IX. **Toluidine blue O, but not thionine, alters APP processing in 3xTg-AD mice**
YÜKSEL M., BİBEROĞLU K., ÖNDER S., AKBULUT K. G. , TACAL Ö.
42nd FEBS CONGRESS, 10 - 14 September 2017, vol.284
- X. **Effect of toluidine blue O on tau pathology in an Alzheimer'xqs disease animal model.**
YÜKSEL M., BİBEROĞLU K., ÖNDER S., AKBULUT K. G. , TACAL Ö.
FEBS Advanced Lecture Course ALC17-012 Nuclear Receptors and Epigenomic Mechanisms in Human disease and Aging, 26 August - 01 September 2017
- XI. **Effect of toluidine blue O on tau pathology in an Alzheimer's disease animal model**
YÜKSEL M., BİBEROĞLU K., ÖNDER S., AKBULUT K. G. , TACAL Ö.
FEBS Advanced Lecture Course ALC17-012 Nuclear Receptors and Epigenomic Mechanisms in Human Disease and Aging, Spetses, Greece, 26 August - 01 September 2017
- XII. **Evaluation of Current Status and Scientific Activities of the Graduate Students in Hacettepe University Institute of Health Sciences in 2016**
ÖZTÜRK ÇOPUR E., PEHLİVANOĞLU B., TACAL Ö., ORHAN D.
ORPHEUS Conference "PhD Training in Health Sciences and Biomedicine from the Interdisciplinary Perspective", Klaipeda, Lithuania, 4 - 06 May 2017
- XIII. **EVALUATION OF CURRENT STATUS AND SCIENTIFIC ACTIVITIES OF THE GRADUATE STUDENTS OF HACETTEPE UNIVERSITY INSTITUTE OF HEALTH SCIENCES IN 2016.**
ÖZTÜRK ÇOPUR E., PEHLİVANOĞLU B., TACAL Ö., ORHAN D.
12th ORPHEUS Conference, Klaipeda, Lithuania, 4 - 06 May 2017
- XIV. **The Graduate's Perspective for the Education in Hacettepe University Institute of Health Sciences**
ÖZTÜRK ÇOPUR E., PEHLİVANOĞLU B., TACAL Ö., ORHAN D.
12th ORPHEUS Conference "PhD Training in Health Sciences and Biomedicine from the Interdisciplinary Perspective, Klaipeda, Lithuania, 4 - 06 May 2017
- XV. **The General Information About the Active Supervisors of Hacettepe University Institute of Health Sciences**
ÖZTÜRK ÇOPUR E., PEHLİVANOĞLU B., TACAL Ö., ORHAN D.
12th ORPHEUS Conference "PhD Training in Health Sciences and Biomedicine from the Interdisciplinary Perspective, Klaipeda, Lithuania, 4 - 06 May 2017
- XVI. **THE GENERAL INFORMATON ABOUT THE ACTIVE SUPERVISORS OF HACETTEPE UNIVERSITY INSTITUTE OF HEALTH SCIENCES IN 2016.**
PEHLİVANOĞLU B., ÖZTÜRK ÇOPUR E., TACAL Ö., ORHAN D.
12th ORPHEUS Conference, Klaipeda, Lithuania, 4 - 06 May 2017
- XVII. **Monoclonal antibodies that recognize diethoxyphosphate-tyrosine modified proteins**
ÖNDER S., Dafferner A., Schopfer L. M. , Blake T. A. , Rudolph C J, TACAL Ö., Lockridge O.
2017 Society for Developmental Biology West Coast Regional Meeting, Yosemite, United States Of America, 28 - 31 March 2017
- XVIII. **New Standard Flow UPLC Method for Identification of CaCo2 Cell Line Proteome**
KOÇAK E., ÇELEBİER M., BİBEROĞLU K., TACAL Ö., ALTINÖZ S.
10 Aegean Analytical Chemistry Days, 26 September - 02 October 2016
- XIX. **The extracellular A beta levels are reduced by the cholinesterase inhibitor toluidine blue O in an Alzheimer's disease-like cellular model**
Tek M. Y. , BİBEROĞLU K., ÖNDER S. Ç. , Akbulut K. G. , TACAL Ö.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.321
- XX. **Azure B reduces extracellular amyloid-beta levels in PS70 cells**
BİBEROĞLU K., Tek M. Y. , ÖNDER S. Ç. , TACAL Ö.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.266

- XXI. **The effect of thionine on amyloid beta peptide levels in PS70 cells**
YÜKSEL TEK M., BİBEROĞLU K., Önder S., AKBULUT K. G. , TACAL Ö.
12th International Meeting on Cholinesterases-Sixth International Conference on Paraoxonases, 27 September - 02 October 2015
- XXII. **The effect of thionine on amyloid b peptide levels in PS70 cells**
YÜKSEL TEK M., BİBEROĞLU K., SEDA O., AKBULUT K. G. , Tacal Ö.
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- XXIII. **THE EFFECT OF TOLUIDINE BLUE O ON AMYLOID b PEPTIDE LEVELS IN HUMAN NEUROBLASTOMA CELLS**
YÜKSEL TEK M., BİBEROĞLU K., ÖNDER S., AKBULUT K. G. , TACAL Ö.
40th Congress of The Federation of European Biochemical Societies (FEBS), 4 - 09 July 2015, vol.282, pp.177
- XXIV. **The effect of toluidine blue O on amyloid-beta peptide levels in human neuroblastoma cells**
Tek M. Y. , BİBEROĞLU K., ÖNDER S. Ç. , Akbulut K. G. , TACAL Ö.
40th Congress of the Federation-of-European-Biochemical-Societies (FEBS) - The Biochemical Basis of Life, Berlin, Germany, 4 - 09 July 2015, vol.282, pp.177
- XXV. **Toluidine Blue O is a potent inhibitor of human cholinesterases**
BİBEROĞLU K., Ghasemi S. T. , TACAL Ö.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.387
- XXVI. **Determination of cresyl phosphate adduct in F-16 pilots by mass spectrometer**
TACAL Ö., Schopfer L. M.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.370
- XXVII. **The role of peripheral anionic site in binding of toluidine blue O to human butyrylcholinesterase**
BİBEROĞLU K., Turk Ghasemi S., YÜKSEL TEK M., TACAL Ö.
FEBS EMBO, 30 August - 04 September 2014
- XXVIII. **Proline rich peptides from soluble tetrameric fetal bovine serum acetylcholinesterase and horse butyrylcholinesterase**
BİBEROĞLU K., M SCHOPFER L., ASHİMA S., TACAL Ö., OKSANA L.
11th meeting on cholinesterase, 4 - 09 June 2012
- XXIX. **Inhibition of A328F butyrylcholinesterase mutant by Nile blue**
BİBEROĞLU K., TACAL Ö.
36th FEBS Congress, 25 - 30 June 2011
- XXX. **Production of recombinant dehydrogenase in Escherichia Coli**
BİBEROĞLU K., TACAL Ö.
MAGUM, 27 - 29 May 2011
- XXXI. **The role of Phe329 in the inhibition of human butyrylcholinesterase by malachite green and methyl green**
BİBEROĞLU K., Tacal Ö., AKBULUT H.
35th FEBS Congress, 26 June - 01 July 2010
- XXXII. **Organophosphorus pesticides used in Turkey make a covalent bond with butyrylcholinesterase detected by mass spectrometry**
TACAL Ö., Lockridge O.
35th Congress of the Federation-of-European-Biochemical-Societies, Gothenburg, Sweden, 26 June - 01 July 2010, vol.277, pp.80
- XXXIII. **Inhibition of A277V mutant of human butyrylcholinesterase by malachite green**
BİBEROĞLU K., OZDEN T., AKBULUT H.
34th Congress of the Federation-of-European-Biochemical-Societies, Prague, Czech Republic, 4 - 09 July 2009, vol.276, pp.130
- XXXIV. **Kinetics of the reduction of phenoxazine and phenothiazine dyes by NADH in aqueous solution**
TACAL Ö., Ozer I.
34th Congress of the Federation-of-European-Biochemical-Societies, Prague, Czech Republic, 4 - 09 July 2009,

vol.276, pp.347

XXXV. The effects of triarylmethane dyes on horse plasma butyrylcholinesterase

Yuecel Y. Y. , TACAL Ö., Ozer I.

32nd Congress of the Federation-of-European-Biochemical-Societies (FEBS), Vienna, Austria, 7 - 12 July 2007,
vol.274, pp.297

XXXVI. The role of reductive processes in biomass-mediated decolorization of triarylmethane dyes in waste waters

TACAL Ö., Ozer I.

32nd Congress of the Federation-of-European-Biochemical-Societies (FEBS), Vienna, Austria, 7 - 12 July 2007,
vol.274, pp.303

XXXVII. Inhibition of choline oxidase by malachite green and phenoxazine dyes

Tacal Ö., Ozer I.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006,
vol.273, pp.305

Supported Projects

TACAL Ö., Project Supported by Higher Education Institutions, Fetal sığır serum asetilkolinesterazının tetramerik yapısını organize eden poliprolin peptidlerin kütle spektrometre ile analizi, 2014 - Continues

TACAL Ö., Project Supported by Higher Education Institutions, 42.FEBS kongresi, 2017 - 2017

TACAL Ö., YÜKSEL TEK M., Project Supported by Higher Education Institutions, Fenotiyazın Yapılı Bileşiklerin Amiloid Prekürsör Protein Ve Amiloid Beta Peptitler Üzerindeki Etkilerinin Araştırılması, 2017 - 2017

TACAL Ö., Project Supported by Higher Education Institutions, Toluidin mavisinin APP C99 fragmenti üzerine etkileri, 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

BİBEROĞLU K., ÖNDER S., TACAL Ö., YÜKSEL TEK M., Project Supported by Higher Education Institutions, Azur B'nin amiloid beta peptidler üzerindeki etkilerinin araştırılması, 2015 - 2016

TACAL Ö., TUBITAK Project, Alzheimer Hastalığının Tedavisinde Fenoksazin ve Fenotiyazın Yapılı Bileşiklerin Kullanımlarının Değerlendirilmesi ve Etki Mekanizmalarının Araştırılması, 2013 - 2016

TACAL Ö., Project Supported by Higher Education Institutions, 12. Uluslararası Kolinesteraz Toplantısı ve Paraoksanazlar Üzerine 6. Uluslararası Konferans, 2015 - 2015

TACAL Ö., Project Supported by Higher Education Institutions, Yeni tanımlanmış Alzheimer hastalığı risk genlerinin beta-amiloid üretiminde rol oynayan hücresel ve moleküler mekanizmalar üzerine etkisi, 2015 - 2015

Citations

Total Citations (WOS):164

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