

## Res. Asst. SEDA ÖNDER

### Personal Information

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### Education Information

Undergraduate, Hacettepe Üniversitesi, Eczacılık Fakültesi, Turkey 2009 - 2014

### Research Areas

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

### Academic Titles / Tasks

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2016 - Continues

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

- I. **Rabbit Antidiethoxyphosphotyrosine Antibody, Made by Single B Cell Cloning, Detects Chlorpyrifos Oxon-Modified Proteins in Cultured Cells and Immunopurifies Modified Peptides for Mass Spectrometry**  
ÖNDER S., van Grol M., Fidder A., Xiao G., Noort D., Yerramalla U., TACAL Ö., Schopfer L. M. , Lockridge O.  
JOURNAL OF PROTEOME RESEARCH, vol.20, no.10, pp.4728-4745, 2021 (Journal Indexed in SCI)
- II. **Evaluation of mass spectrometry MS/MS spectra for the presence of isopeptide crosslinked peptides**  
Schopfer L. M. , Onder S., Lockridge O.  
PLOS ONE, vol.16, no.7, 2021 (Journal Indexed in SCI)
- III. **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)
- 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. **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)
- VI. **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)

- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Toluidine blue O decreases tau phosphorylation at Thr181 and Ser202/Thr 205 in N2a mouse neuroblastoma cells stably expressing the human Swedish mutant APP695**  
Önder S., Biberoglu K., Yüksel M., Tacal Ö.  
13th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 22 - 25 June 2021, pp.1-2
- II. **Comparative inhibitory effect of safranin O on cholinesterases**  
Önder S., Sarı S., Tacal Ö.  
31. Ulusal Biyokimya Kongresi, 18 - 20 December 2020, pp.39-40
- III. **The effects of phenothiazine dyes on GAG-modified APLP2 and  $\beta$ -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
- IV. **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
- V. **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
- VI. **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
- VII. **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

- 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.  
42nd Congress of the FEBS, 10 - 14 September 2017, vol.284
- 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'xxs 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. **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

## Supported Projects

TACAL Ö., BİBEROĞLU K., YÜKSEL M., ÖNDER S., Project Supported by Higher Education Institutions, Fenotiyazin yapısındaki kolinesteraz inhibitörlerinin amiloid prekürsör protein metabolizması ve tau üzerindeki etki mekanizmalarının araştırılması, 2019 - Continues

BİBEROĞLU K., YÜKSEL TEK M., ÖNDER S., TACAL Ö., Project Supported by Higher Education Institutions, İnsan pankreas kanseri hücre hattında fenotiyazin yapılı bileşiklerin amiloid prekürsörbenzeri protein 2 üzerindeki etkilerinin değerlendirilmesi ve etki mekanizmalarının araştırılması, 2017 - 2021

## Citations

Total Citations (WOS):43

h-index (WOS):4

## Scholarships

2214, TUBITAK, 2016 - 2018