

## Res. Asst. PhD Cem YAMALI

### Personal Information

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**Address:** Atatürk Üniversitesi Eczacılık Fakültesi Farmasötik Kimya ABD Kat:3 Oda No:213 Erzurum

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### Education Information

Doctorate, Ataturk University, Eczacılık Fakültesi, Farmasötik Kimya, Turkey 2013 - 2018

Postgraduate, Gazi University, Eczacılık Fakültesi, Farmasötik Kimya, Turkey 2009 - 2011

Undergraduate, Kirikkale University, Kimya, Turkey 2005 - 2009

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Pirazol-benzensülfonamid türevi bileşiklerin tasarımı, sentezi, kimyasal yapılarının aydınlatılması ve biyoaktiviteleri, Atatürk Üniversitesi, Sağlık Bilimleri Enstitüsü, Farmasötik Kimya, 2018

Postgraduate, Bazı 3(2H)-Piridazinon ve 1(2H)-Fitalazinon türevlerinin sentezi ve biyolojik etkilerinin incelenmesi, Gazi Üniversitesi, Eczacılık Fakültesi, Farmasötik Kimya, 2011

### Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Chemistry

### Academic Titles / Tasks

Research Assistant PhD, Ataturk University, Eczacılık Fakültesi, Meslek Bilimleri, 2013 - Continues

### Courses

Farmasötik Kimya Laboratuvarı 2 Farmasötik Kimya Laboratuvarı 4, Undergraduate, 2018 - 2019

Organik Kimya, Undergraduate, 2018 - 2019

Farmasötik Kimya Laboratuvarı 1 ve Farmasötik Kimya Laboratuvarı 3, Undergraduate, 2018 - 2019

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

- I. **Effects of a Novel Benzenesulfonamide 4-(3-(4-Bromophenyl)-5-(2,4-dimethoxyphenyl)-4,5-dihydro-1H-pyrazol-1-yl) on Antioxidant Enzymes and Hematological Parameters of Rainbow Trout (*Oncorhynchus mykiss*)**  
Ozgun D. O., ALAK G., UÇAR A., Bilginer S., GÜL H. İ., Kocaman M., Yamali C., PARLAK V., ATAMANALP M., Maslat A., et al.  
PAKISTAN JOURNAL OF ZOOLOGY, vol.53, no.6, pp.2083-2089, 2021 (SCI-Expanded)
- II. **Biological activities of a newly synthesized pyrazoline derivative 4-(3-(4-bromophenyl)-5-(2,4-dimethoxyphenyl)-4,5-dihydro-1H-pyrazol-1-yl) benzenesulfonamide (B4) compound on rainbow trout alevins, *Oncorhynchus mykiss***  
Uçar A., Ozgun D. O., Alak G., Gül H. İ., Kocaman E. M., PARLAK V., ATAMANALP M., Maslat A., Almuhr R., Yamali C., et al.  
IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-ANIMAL, vol.57, no.1, pp.17-20, 2021 (SCI-Expanded)
- III. **Synthesis, structure elucidation, and in vitro pharmacological evaluation of novel polyfluoro substituted pyrazoline type sulfonamides as multi-target agents for inhibition of acetylcholinesterase and carbonic anhydrase I and II enzymes**  
YAMALI C., GÜL H. İ., KAZAZ C., Levent S., GÜLÇİN İ.  
Bioorganic Chemistry, vol.96, 2020 (SCI-Expanded)
- IV. **Synthesis and bioactivities of 1-(4-hydroxyphenyl)-2-((heteroaryl)thio)ethanones as carbonic anhydrase I, II and acetylcholinesterase inhibitors**  
Yamali C., GÜL H. İ., Demir Y., KAZAZ C., GÜLÇİN İ.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.4, pp.1058-1067, 2020 (SCI-Expanded)
- V. **Aminoalkylated Phenolic Chalcones: Investigation of Biological Effects on Acetylcholinesterase and Carbonic Anhydrase I and II as Potential Lead Enzyme Inhibitors**  
Yamali C., GÜL H. İ., Çakır T., Demir Y., GÜLÇİN İ.  
LETTERS IN DRUG DESIGN & DISCOVERY, vol.17, no.10, pp.1283-1292, 2020 (SCI-Expanded)
- VI. **Synthesis, biological evaluation and in silico modelling studies of 1,3,5-trisubstituted pyrazoles carrying benzenesulfonamide as potential anticancer agents and selective cancer-associated hCA IX isoenzyme inhibitors**  
YAMALI C., GÜL H. İ., Ece A., BUA S., ANGELİ A., SAKAGAMI H., ŞAHİN E., Supuran C. T.  
BIOORGANIC CHEMISTRY, vol.92, 2019 (SCI-Expanded)
- VII. **Synthesis and bioactivities of pyrazoline benzenesulfonamides as carbonic anhydrase and acetylcholinesterase inhibitors with low cytotoxicity**  
Ozgun D. O., GÜL H. İ., YAMALI C., Sakagami H., GÜLÇİN İ., Sukuroglu M., Supuran C. T.  
BIOORGANIC CHEMISTRY, vol.84, pp.511-517, 2019 (SCI-Expanded)
- VIII. **Curcumin analogue 1,5-bis(4-hydroxy-3-((4-methylpiperazin-1-yl)methyl)phenyl)penta-1,4-dien-3-one mediates growth arrest and apoptosis by targeting the PI3K/AKT/mTOR and PKC-theta signaling pathways in human breast carcinoma cells.**  
Badr G., GUL H. İ., YAMALI C., MOHAMED A., BADR B., Gul M., Abo M., Abo E.  
Bioorganic chemistry, vol.78, pp.46-57, 2018 (SCI-Expanded)
- IX. **Anticancer effects of new dibenzenesulfonamides by inducing apoptosis and autophagy pathways and their carbonic anhydrase inhibitory effects on hCA I, hCA II, hCA IX, hCA XII isoenzymes.**  
GUL H. İ., YAMALI C., BULBULLER M., KIRMIZIBAYRAK P., Gul M., ANGELI A., BUA S., SUPURAN C.  
Bioorganic chemistry, vol.78, pp.290-297, 2018 (SCI-Expanded)
- X. **New anticancer drug candidates sulfonamides as selective hCA IX or hCA XII inhibitors**  
GÜL H. İ., YAMALI C., Sakagami H., ANGELİ A., LEİTANS J., KAZAKS A., TARS K., Ozgun D. O., SUPURAN C. T.  
BIOORGANIC CHEMISTRY, vol.77, pp.411-419, 2018 (SCI-Expanded)
- XI. **Synthesis, molecular modeling, and biological evaluation of 4-[5-aryl-3-(thiophen-2-yl)-4,5-dihydro-1H-pyrazol-1-yl] benzenesulfonamides toward acetylcholinesterase, carbonic anhydrase I and II enzymes**

- YAMALI C., GÜL H. İ., ECE A., TASLIMI P., GÜLÇİN İ.  
CHEMICAL BIOLOGY & DRUG DESIGN, vol.91, no.4, pp.854-866, 2018 (SCI-Expanded)
- XII. **Cytotoxicity, apoptosis, and QSAR studies of phenothiazine derived methoxylated chalcones as anticancer drug candidates**  
GÜL H. İ., YAMALI C., GÜNEÇAÇAR G., SAKAGAMI H., OKUDAIRA N., UESAWA Y., KAGAYA H.  
Medicinal Chemistry Research, vol.27, pp.2366-2378, 2018 (SCI-Expanded)
- XIII. **Microwave-assisted synthesis and bioevaluation of new sulfonamides.**  
GUL H. İ., YAMALI C., YESILYURT F., SAKAGAMI H., KUCUKOGLU K., GÜLÇİN İ., GUL M., SUPURAN C.  
Journal of enzyme inhibition and medicinal chemistry, vol.32, pp.369-374, 2017 (SCI-Expanded)
- XIV. **Synthesis, molecular modeling, and biological evaluation of 4-[5-aryl-3-(thiophen-2-yl)-2,5-dihydro-1H-pyrazol-1-yl]benzenesulfonamides toward acetylcholinesterase, carbonic anhydrase I and II enzymes**  
YAMALI C., GÜL H. İ., ECE A., TASLIMI P., GULCIN I.  
CHEMICAL BIOLOGY & DRUG DESIGN, vol.1, no.1, pp.1, 2017 (SCI-Expanded)
- XV. **Synthesis and structure elucidation of 1-(2,5/3,5-difluorophenyl)-3-(2,3/2,4/2,5/3,4-dimethoxyphenyl)-2-propen-1-ones as anticancer agents**  
YAMALI C., OZGUN D. O., GÜL H. İ., SAKAGAMI H., KAZAZ C., OKUDAIRA N.  
MEDICINAL CHEMISTRY RESEARCH, vol.26, no.9, pp.2015-2023, 2017 (SCI-Expanded)
- XVI. **Synthesis and Cytotoxic Activities of Difluoro-Dimethoxy Chalcones.**  
YAMALI C., GUL H. İ., OZGUN D., SAKAGAMI H., UMEMURA N., KAZAZ C., GUL M.  
Anti-cancer agents in medicinal chemistry, vol.17, pp.1426-1433, 2017 (SCI-Expanded)
- XVII. **Designing, synthesis and bioactivities of 4-[3-(4-hydroxyphenyl)-5-aryl-4,5-dihydro-pyrazol-1-yl] benzenesulfonamides**  
GÜL H. İ., METE E., EREN S. E., SAKAGAMI H., YAMALI C., SUPURAN C. T.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.32, no.1, pp.169-175, 2017 (SCI-Expanded)
- XVIII. **Carbonic anhydrase inhibition and cytotoxicity studies of Mannich base derivatives of thymo**  
GÜL H. İ., YAMALI C., YAŞA A. T., UNLUER E., SAKAGAMI H., TANC M., SUPURAN C.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1375-1380, 2016 (SCI-Expanded)
- XIX. **Synthesis of 4-(2-substituted hydrazinyl)benzenesulfonamides and their carbonic anhydrase inhibitory effects**  
Gül H. İ., Kucukoglu K., Yamali C., Bilginer S., Yuca H., Ozturk I., Taslimi P., Gülçin İ., Supuran C. T.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, pp.568-573, 2016 (SCI-Expanded)
- XX. **The inhibitory effects of phenolic Mannich bases on carbonic anhydrase I and II isoenzymes**  
YAMALI C., TUĞRAK M., GÜL H. İ., TANC M., SUPURAN C. T.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1678-1681, 2016 (SCI-Expanded)
- XXI. **Carbonic anhydrase inhibition and cytotoxicity studies of Mannich base derivatives of thymol**  
GÜL H. İ., YAMALI C., YASA A. T., UNLUER E., SAKAGAMI H., TANC M., SUPURAN C. T.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1375-1380, 2016 (SCI-Expanded)
- XXII. **Synthesis and bioactivities of halogen bearing phenolic chalcones and their corresponding bis Mannich bases**  
YAMALI C., GÜL H. İ., SAKAGAMI H., SUPURAN C. T.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, pp.125-131, 2016 (SCI-Expanded)
- XXIII. **Synthesis of mono Mannich bases of 2-(4-hydroxybenzylidene)-2,3-dihydroinden-1-one and evaluation of their cytotoxicities**  
TUĞRAK M., YAMALI C., SAKAGAMI H., GÜL H. İ.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.5, pp.818-823, 2016 (SCI-Expanded)
- XXIV. **Synthesis, cytotoxicity and carbonic anhydrase inhibitory activities of new pyrazolines**  
Kucukoglu K., ORAL F., AYDIN T., YAMALI C., ALGUL O., SAKAGAMI H., GÜLÇİN İ., SUPURAN C. T., GÜL H. İ.

- JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, pp.20-24, 2016 (SCI-Expanded)
- XXV. **Inhibitory effects of isatin Mannich bases on carbonic anhydrases, acetylcholinesterase, and butyrylcholinesterase**  
Ozgun D. O., Yamali C., Gül H. İ., Tashlımı P., Gülçin İ., Yanik T., Supuran C. T.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1498-1501, 2016 (SCI-Expanded)
- XXVI. **Synthesis of some 3(2H)-pyridazinone and 1(2H)-phthalazinone derivatives incorporating aminothiazole moiety and investigation of their antioxidant, acetylcholinesterase, and butyrylcholinesterase inhibitory activities**  
Yamali C., GULCAN H. O., Kahya B., Cobanoglu S., Sukuroglu M. K., Dogruer D. S.  
MEDICINAL CHEMISTRY RESEARCH, vol.24, no.3, pp.1210-1217, 2015 (SCI-Expanded)
- XXVII. **Synthesis of Some New 3(2H)-Pyridazinone Derivatives and Evaluation of their Analgesic-anti-inflammatory and Antimicrobial Activities**  
Sukuroglu M., Yamali C., Tiryaki D., Onurdag F. K., Akkol E., Dogruer D. S.  
LETTERS IN DRUG DESIGN & DISCOVERY, vol.10, no.6, pp.507-514, 2013 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Structure Elucidation Of 1-(2,5/3,5-difluorophenyl)-3 (2,3/2,4/2,5/3,4-dimethoxyphenyl)-2-propen-1-ones**  
KAZAZ C., GÜL H. İ., YAMALI C.  
The International Workshop on the Application of NMR in Pharmaceutics, Phytotherapeutics and Medicine, İstanbul, Turkey, 15 - 17 November 2017, pp.26
- II. **Structure Elucidation Of 1-(2,5/3,5-difluorophenyl)-3 (2,3/2,4/2,5/3,4-dimethoxyphenyl)-2-propen-1-ones**  
YAMALI C., GÜL H. İ., KAZAZ C.  
The International Workshop on the Application of NMR in Pharmaceutics, Phytotherapeutics and Medicine, İstanbul, Turkey, 15 - 17 November 2017, pp.1
- III. **1,5-Bis(4-hydroxy-3-(aminomethyl)phenyl)penta-1,4-dien-3-ones: Bis Mannich Bases as Anticancer Agents**  
YAMALI C., GÜL H. İ., Sakagami H.  
3rd International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07 October 2017, pp.56
- IV. **Synthesis, molecular modeling and biological evaluation of 4-[5-aryl-3-(thiophen-2-yl)-4,5-dihydro-1H-pyrazol-1-yl]benzenesulfonamides**  
YAMALI C., GÜL H. İ., ECE A., GÜLÇİN İ.  
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, Erzurum, Turkey, 5 - 07 October 2017
- V. **Synthesis of Novel Pyrazolines and Their Inhibitory Effects on hCA IX and XII Isoenzymes**  
GÜL H. İ., YAMALI C., Supuran C. T.  
3 rd International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07 October 2017, pp.105
- VI. **Bioactivities of Isatin Mannich Bases**  
Özgün D. O., GÜL H. İ., YAMALI C.  
3 rd International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07 October 2017, pp.103
- VII. **1,5-Bis(4-hydroxy-3-(aminomethyl)phenyl)penta-1,4-dien-3-ones: Bis Mannich Bases as Anticancer Agents**  
GÜL H. İ., YAMALI C., SAKAGAMI H.  
3 rd International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07

October 2017, pp.1

- VIII. **Synthesis of Novel Pyrazolines and Their Inhibitory Effects on hCA IX and XII Isoenzymes**  
GÜL H. İ., YAMALI C., SUPURAN C.  
3 rd International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07 October 2017, pp.1
- IX. **Bioactivities of Isatin Mannich Bases**  
OZGUN D. O., GÜL H. İ., YAMALI C.  
3 rd International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07 October 2017, pp.1
- X. **Design, Synthesis and Bioevaluation of Pyrazoline Derivatives Bearing Primary Sulfonamide As Carbonic Anhydrase Inhibitors**  
GÜL H. İ., YAMALI C., ÖZMEN ÖZGÜN D., GÜLÇİN İ.  
3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017 , Erzurum, Turkey, 5 - 07 October 2017
- XI. **Synthesis, Molecular Modeling and Biological Evaluation of 4-[5-aryl-3-(thiophen-2-yl)-4,5-dihydro-1H-pyrazol-1-yl] benzenesulfonamides**  
YAMALI C., GÜL H. İ., ECE A., GÜLÇİN İ.  
3 rd International Multidisciplinary Symposium on Drug Research and Development, Erzurum, Turkey, 5 - 07 October 2017, pp.100
- XII. **Carbonic Anhydrase Isoenzymes Inhibition Effects of New Pyrazoline Benzenesulfonamides**  
ÖZGÜN D. O., GÜL H. İ., YAMALI C., GÜLÇİN İ., SUPURAN C. T.  
The 3rd Satellite Meeting on Carbonic Anhydrase, Montecatini Terme, Italy, 24 - 27 May 2017, pp.74
- XIII. **Synthesis Cytotoxicities and Docking Studies of New Chalcones**  
YAMALI C., GÜL H. İ., ÖZMEN ÖZGÜN D., TUTAR Y.  
4th International Bahçeşehir University (BAU) Drug Design Congress, 13 - 15 October 2016
- XIV. **hCA IX and XII Inhibition Studies of 4-[3-(4-Hydroxyphenyl)-5-aryl-4,5-dihydro-pyrazol-1-yl]benzenesulfonamides**  
Mete E., Gül H. İ., Yamalı C., Supuran C.  
4th International BAU Drug Design Congress Uluslararası Özet bildiri, İstanbul, Turkey, 13 - 16 October 2016
- XV. **Synthesis and Cytotoxicities of New Sulfonamides**  
GÜL H. İ., YAMALI C., SAKAGAMI H.  
4th International Bahçeşehir University (BAU) Drug Design, 13 - 15 October 2016
- XVI. **Synthesis of 4,2 substituted hydrazinyl benzenesulfonamides and their carbonic anhydrase inhibitory effects**  
GÜL H. İ., KÜÇÜKOĞLU K., YAMALI C., BİLGİNER S., YUCA H., ÖZTÜRK İ., PARHAM T., GÜLÇİN İ., CLAUDIU S.  
International Multidisciplinary Symposium on Drug Research and Development, 15 - 17 October 2015
- XVII. **DESIGN SYNTHESIS AND CYTOTOXICITIES OF HALOGEN BEARING NEW PHENOLIC BIS MANNICH BASES**  
YAMALI C., GÜL H. İ., SAKAGAMI H.  
11th International Symposium of Pharmaceutical Sciences, 9 - 12 June 2015

## Supported Projects

YAMALI C., TUBITAK Project, Karbonik Anhidraz IX Enzimini Hedefleyen Yeni Pirazol-Karboksamitlerin Sentezi, Sitotoksik ve Karbonik Anhidraz İnhibe Edici Etkilerinin Araştırılması, 2019 - Continues

GÜL H. İ., YAMALI C., Project Supported by Higher Education Institutions, PIRAZOL-BENZENSÜLFONAMİT ÇEKİRDEĞİ TAŞIYAN POTANSİYEL ANTİKANSER ETKİLİ BİLEŞİKLERİN SENTEZİ, YAPILARININ AYDINLATILMASI VE SİTOTOKSİK AKTİVİTELERİ, 2017 - 2020

GÜL H. İ., YAMALI C., GÜNEŞAÇAR G., Project Supported by Higher Education Institutions, "Fenotiyazin halkası taşıyan salkon türevlerinin tasarımı, sentezi ve sitotoksik aktivitelerinin araştırılması.", 2016 - 2017

GÜL H. İ., YAMALI C., Project Supported by Higher Education Institutions, 4-[3-(DİFLOROFENİL)-5-(DİMETOKSİFENİL)-4,5-DİHİDRO-1H-PİRAZOL-1-İL]BENZENSÜLFONAMİD TÜREVLERİNİN SENTEZİ VE KARBONİK ANHİDRAZ İNHİBİSYON AKTİVİTELERİNİN ARAŞTIRILMASI, 2015 - 2017

GÜL H. İ., YAMALI C., Project Supported by Higher Education Institutions, "YENİ FENOLİK BİS-MANNİCH BAZLARININ TASARIMI, SENTEZİ VE SİTOTOKSİK AKTİVİTELERİNİN ARAŞTIRILMASI", 2015 - 2016

YAMALI C., TÜBİTAK Project, 4 (3-Substitüefenil-2 -Tiyenil -5 -Trimetoksifenil -4, 5-Dihidro-1H-Pirazol-1-ilBenzensülfonamit Taşıyan Bileşiklerin Tasarımı Sentezi Sitotoksisite ve Karbonik Anhidraz İnhibisyon Etkilerinin Araştırılması Proje No: TÜBİTAK 115S694, 2015 - 2016

## Patent

YAMALI C., PİRAZOL-BENZENSÜLFONAMİT ÇEKİRDEĞİ TAŞIYAN POTANSİYEL ANTİKANSER ETKİLİ BİLEŞİKLERİN SENTEZİ, YAPILARININ AYDINLATILMASI VE SİTOTOKSİK AKTİVİTELERİ (ARASTIRMA SURECİNDE), Patent, CHAPTER A Human Needs, 2018

## Memberships / Tasks in Scientific Organizations

Farmasötik Bilimler Ankara Derneği (FABAD), Member, 2016 - Continues

Türk Farmasötik ve Medisinal Kimya Derneği, Member, 2016 - Continues

## Scientific Refereeing

Journal Of applied Pharmaceutical Science, Other Indexed Journal, February 2020

NATURAL PRODUCT COMMUNICATIONS, Journal Indexed in SCI-E, February 2020

Organic Communications, Journal Indexed in ESCI, January 2020

BIOORGANIC CHEMISTRY, SCI Journal, January 2020

INORGANIC AND NANO-METAL CHEMISTRY, Other Indexed Journal, November 2019

JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, SCI Journal, August 2019

JOURNAL OF HETEROCYCLIC CHEMISTRY, SCI Journal, June 2019

MINI-REVIEWS IN MEDICINAL CHEMISTRY, SCI Journal, June 2019

MINI-REVIEWS IN MEDICINAL CHEMISTRY, SCI Journal, May 2019

MINI-REVIEWS IN MEDICINAL CHEMISTRY, SCI Journal, May 2019

ARCHIV DER PHARMAZIE, SCI Journal, November 2018

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, October 2018

## Metrics

Publication: 44

Citation (WoS): 1043

Citation (Scopus): 1060

H-Index (WoS): 19

H-Index (Scopus): 19

## Congress and Symposium Activities

International Workshop on Application of NMR in Pharmaceutics, Phytotherapeutics and Medicine , 2017, Attendee, İstanbul, Turkey, 2017

3 rd International Multidisciplinary Symposium on Drug Research and Development - DRD 2017, Attendee, Erzurum, Turkey, 2017

4th International Bahçeşehir University (BAU) Drug Design Congress , 2016, Attendee, İstanbul, Turkey, 2016

11th International Symposium on Pharmaceutical Sciences (ISOPS-11), Ankara, Turkey , 2015, Attendee, Ankara, Turkey, 2015

1th International Congress: From Drug Discovery to Drug Delivery, Greece, Athens , 2014, Attendee, Athens, Greece, 2014

## **Scholarships**

2214-A Yurt Dışı Doktora Sırası Araştırma Burs Programı-Kanada, University, 2018 - 2018

ERASMUS INTERN-ITALYA, Other International Organizations, 2014 - 2014