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OLĞAÇ**



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International Researcher IDs

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ORCID: 0000-0001-8470-4942

Publons / Web Of Science ResearcherID: B-3723-2017

ScopusID: 56144513200

Yoksis Researcher ID: 227548

Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (Dr), Turkey
2012 - 2017

Undergraduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 2007 - 2012

Biography

Computational pharmaceutical/medicinal chemistry

Foreign Languages

Italian, A2 Elementary

English, C1 Advanced

German, A1 Beginner

Certificates, Courses and Trainings

Education Management and Planning, Lisansüstü Tez Danışmanlığı Eğitimi, Gazi Üniversitesi, 2019

Education Management and Planning, Eğitimcilerin Eğitimi Sertifikası, Gazi University, 2017

IT, Yazılım ve Veritabanı Uzmanlığı - Uluslararası Microsoft Katılım Sertifikası, Üstün Başarı Sertifikası, Katılım Sertifikası, Bilge Adam, 2011

IT, Bilgi Teknolojileri Sertifika Programı (BTSP), Middle East Technical University, 2009

Dissertations

Doctorate, Sanal tarama ve farmakolojik deęerlendirme yoluyla yeni 5-lipoksijenaz aktive edici protein (FLAP) inhibitörü bileşiklerin keşfi, Gazi University, Sağlık Bilimleri Enstitüsü, Farmasotik Kimya (Dr), 2017

Research Areas

Pharmaceutical Chemistry

Academic Titles / Tasks

Assistant Professor, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2023 - Continues

Lecturer, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2019 - 2023

Researcher, Martin-Luther-Universitaet Halle-Wittenberg, 2018 - 2018

Research Assistant, Dicle University, Faculty Of Pharmacy, Department Of Professional Pharmaceutical Sciences, 2015 - 2018

Research Assistant, Gazi University, Sağlık Bilimleri Enstitüsü, -, 2016 - 2017

Researcher, Universita Degli Studi di Perugia, 2015 - 2016

Researcher, Universita Degli Studi di Perugia, 2014 - 2014

Researcher, Universita Degli Studi di Perugia, 2013 - 2013

Academic and Administrative Experience

Ölçme Deęerlendirme Kurulu Üyesi, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2022 - Continues

Exam Program Preparation Commission Member, Gazi University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2022 - Continues

Courses

Mezuniyet Projesi II, Undergraduate, 2022 - 2023

Mezuniyet Projesi I Uygulama, Undergraduate, 2021 - 2022

Eczacılıkta Yapay Zekâ, Undergraduate, 2022 - 2023

Mezuniyet Projesi I, Undergraduate, 2021 - 2022

Mezuniyet Projesi II Uygulama, Undergraduate, 2022 - 2023

Farmasötik Kimya I Uygulama, Undergraduate, 2021 - 2022, 2020 - 2021

Farmasötik Kimya IV Uygulama, Undergraduate, 2020 - 2021, 2019 - 2020

Farmasötik Kimya II Uygulama, Undergraduate, 2019 - 2020, 2018 - 2019

Farmasötik Kimya III Uygulama, Undergraduate, 2019 - 2020

Farmasötik Kimya Uygulama III, Undergraduate, 2017 - 2018

Farmasötik Kimya Uygulama I, Undergraduate, 2017 - 2018

Eczacılıęa Giriş, Undergraduate, 2017 - 2018

Jury Memberships

Competition, Hasta Bilgilendirme Yarışması, Gazi Üniversitesi, December, 2023

Competition, Gazi Üniversitesi Eczacılık Fakültesi Hasta Bilgilendirme Yarışması, Gazi Üniversitesi, January, 2022

Taught Courses And Trainings

Olğaç A., Schrodinger Drug Discovery Suite - Training, 2020 - 2020

Olğaç A., Bilgisayar Destekli İlaç Tasarımı Eğitimi, 2015 - 2015

Olğaç A., Bilgisayar Destekli İlaç Tasarım Uygulamaları, 2013 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Novel Benzimidazole Derivatives as Potent Inhibitors of Microsomal Prostaglandin E₂ Synthase 1 for the Potential Treatment of Inflammation, Pain, and Fever**
Ergul A. G., Jordan P. M., Dahlke P., BAL N. B., OLĞAÇ A., Uludag O., Werz O., ÇALIŞKAN B., BANOĞLU E.
JOURNAL OF MEDICINAL CHEMISTRY, 2024 (SCI-Expanded)
- II. **Direct GPCR-EGFR interaction enables synergistic membrane-to-nucleus information transfer**
Gekle M., Eckenstaler R., Braun H., Olğaç A., Robaa D., Mildenberger S., Dubourg V., Schreier B., Sippl W., Benndorf R.
CELLULAR AND MOLECULAR LIFE SCIENCES, vol.81, pp.1-19, 2024 (SCI-Expanded)
- III. **Novel 1,3,4-oxadiazole derivatives as highly potent microsomal prostaglandin E2 synthase-1 (mPGES-1) inhibitors**
Gür Maz T., Dahlke P., Gizem Ergül A., OLĞAÇ A., Jordan P. M., ÇALIŞKAN B., Werz O., BANOĞLU E.
Bioorganic Chemistry, vol.147, 2024 (SCI-Expanded)
- IV. **Substituted 1,2,4-Triazoles as Novel and Selective Inhibitors of Leukotriene Biosynthesis Targeting 5-Lipoxygenase-Activating Protein**
Olğaç A., Çapan İ., Dahlke P., Jordan P. M., Werz O., Banoglu E.
ACS OMEGA, vol.8, no.34, pp.31293-31304, 2023 (SCI-Expanded)
- V. **Novel indole-pyrazole hybrids as potential tubulin-targeting agents; Synthesis, antiproliferative evaluation, and molecular modeling studies**
Hawash M., Ergun S. G., KAHRAMAN D. C., OLĞAÇ A., Hamel E., Cetin-Atalay R., BAYTAŞ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1285, 2023 (SCI-Expanded)
- VI. **Quinazoline-4(3H)-one-7-carboxamide Derivatives as Human Soluble Epoxide Hydrolase Inhibitors with Developable 5-Lipoxygenase Activating Protein Inhibition**
TURANLI S., Ergul A. G., Jordan P. M., OLĞAÇ A., ÇALIŞKAN B., Werz O., BANOĞLU E.
ACS OMEGA, vol.7, no.41, pp.36354-36365, 2022 (SCI-Expanded)
- VII. **Discovery and Optimization of Piperazine Urea Derivatives as Soluble Epoxide Hydrolase (sEH) Inhibitors.**
Çapan İ., Jordan P. M., Olğaç A., Çalışkan B., Kretzer C., Werz O., Banoglu E.
ChemMedChem, vol.17, no.12, 2022 (SCI-Expanded)
- VIII. **Design and synthesis of novel substituted indole-acrylamide derivatives and evaluation of their anti-cancer activity as potential tubulin-targeting agents**
Hawash M., KAHRAMAN D. C., OLĞAÇ A., Ergun S. G., Hamel E., Cetin-Atalay R., BAYTAŞ S.
Journal of Molecular Structure, vol.1254, 2022 (SCI-Expanded)
- IX. **Identification of novel antiplatelet agents by targeting Glycoprotein VI: A combined virtual screening study**
OLĞAÇ S., OLĞAÇ A., YENİCESU İ., ÖZKAN Y.
BIOORGANIC CHEMISTRY, vol.121, 2022 (SCI-Expanded)
- X. **Novel potent benzimidazole-based microsomal prostaglandin E2 synthase-1 (mPGES-1) inhibitors derived from BRP-201 that also inhibit leukotriene C4 synthase**
Ergül A. G., Maz T. G., Kretzer C., Olğaç A., Jordan P. M., Çalışkan B., Werz O., Banoğlu E.
European Journal of Medicinal Chemistry, vol.231, 2022 (SCI-Expanded)
- XI. **Simple heteroaryl modifications in the 4,5-diarylisoaxazol-3-carboxylic acid scaffold favorably modulates the activity as dual mPGES-1/5-LO inhibitors with in vivo efficacy**
Gurses T., OLĞAÇ A., Garscha U., GÜR MAZ Z. T., BAL N. B., Uludag O., ÇALIŞKAN B., Schubert U. S., Werz O.,

BANOĞLU E.

BIOORGANIC CHEMISTRY, vol.112, 2021 (SCI-Expanded)

- XII. **Discovery of Novel 5-Lipoxygenase-Activating Protein (FLAP) Inhibitors by Exploiting a Multistep Virtual Screening Protocol**
OLĞAÇ A., Carotti A., Kretzer C., Zergiebel S., Seeling A., Garscha U., Werz O., Macchiarulo A., BANOĞLU E.
JOURNAL OF CHEMICAL INFORMATION AND MODELING, vol.60, no.3, pp.1737-1748, 2020 (SCI-Expanded)
- XIII. **Ortho versus Meta Chlorophenyl-2,3-Benzodiazepine Analogues: Synthesis, Molecular Modeling, and Biological Activity as AMPAR Antagonists**
Qneibi M., Jaradat N., Hawash M., OLĞAÇ A., Emwas N.
ACS OMEGA, vol.5, no.7, pp.3588-3595, 2020 (SCI-Expanded)
- XIV. **The 12(th) AFMC International Medicinal Chemistry Symposium (AIMECS 2019) in Istanbul, Turkey**
OLĞAÇ A., Yalcin I., Aki-Yalcin E.
CHEMMEDCHEM, vol.15, no.1, pp.162-167, 2020 (SCI-Expanded)
- XV. **Protective effect of piceatannol and bioactive stilbene derivatives against hypoxia-induced toxicity in H9c2 cardiomyocytes and structural elucidation as 5-LOX inhibitors**
Boccellino M., Donniacuo M., Bruno F., Rinaldi B., Quagliuolo L., Ambruosi M., Pace S., De Rosa M., OLĞAÇ A., BANOĞLU E., et al.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.180, pp.637-647, 2019 (SCI-Expanded)
- XVI. **Structural insight into the optimization of ethyl 5-hydroxybenzo[g] indol-3-carboxylates and their bioisosteric analogues as 5-LO/mPGES-1 dual inhibitors able to suppress inflammation**
Bruno F., Errico S., Pace S., Nawrozkij M. B., Mkrtychyan A. S., Guida F., Maisto R., Olğaç A., D'amico M., Maione S., et al.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.155, pp.946-960, 2018 (SCI-Expanded)
- XVII. **Identification of multi-target inhibitors of leukotriene and prostaglandin E-2 biosynthesis by structural tuning of the FLAP inhibitor BRP-7**
GÜR MAZ Z. T., ÇALIŞKAN B., Garscha U., OLĞAÇ A., Schubert U. S., Gerstmeier J., Werz O., BANOĞLU E.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.150, pp.876-899, 2018 (SCI-Expanded)
- XVIII. **The potential role of in silico approaches to identify novel bioactive molecules from natural resources**
Olğaç A., Erdoğan Orhan İ., Banoğlu E.
FUTURE MEDICINAL CHEMISTRY, vol.9, no.14, pp.1663-1684, 2017 (SCI-Expanded)
- XIX. **Synthesis and biological evaluation of C(5)-substituted derivatives of leukotriene biosynthesis inhibitor BRP-7**
Levent S., Gerstmeier J., Olğaç A., Nikels F., Garscha U., Carotti A., Macchiarulo A., Werz O., Banoğlu E., Çalışkan B.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.122, pp.510-519, 2016 (SCI-Expanded)
- XX. **4,5-Diarylisoaxazol-3-carboxylic acids: A new class of leukotriene biosynthesis inhibitors potentially targeting 5-lipoxygenase-activating protein (FLAP)**
Banoğlu E., Celikoglu E., Voelker S., Olğaç A., Gerstmeier J., Garscha U., Çalışkan B., Schubert U. S., Carotti A., Macchiarulo A., et al.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.113, pp.1-10, 2016 (SCI-Expanded)
- XXI. **Synthesis, biological evaluation and molecular docking studies of trans-indole-3-acrylamide derivatives, a new class of tubulin polymerization inhibitors**
Baytaş S., Inceler N., Yilmaz A., Olğaç A., Menevse S., Banoğlu E., Hamel E., Bortolozzi R., Viola G.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.22, no.12, pp.3096-3104, 2014 (SCI-Expanded)

Articles Published in Other Journals

I. Mitochondrial Haplogroup Distribution in Elite Turkish Athletes

Kurtuluş M., Günay M., Çelenk Ç., Olğaç A., Kesici T.

Niğde Ömer Halisdemir Üniversitesi Beden Eğitimi ve Spor Bilimleri Dergisi, vol.14, no.3, pp.494-502, 2020 (Peer-

Books & Book Chapters

- I. **Glossary of terms used in chemoinformatics of natural products: advanced concepts and applications**
Ntie-Kang F., Olğaç A., Simoben C., Najjar A., Herve Akone S., Paul L., Kamdem R., Madariaga-Mazon A., Mudogo C., Eni D., et al.
in: Cheminformatics of Natural Products - Volume 2 Advanced Concepts and Applications, Fidele Ntie-Kang, Editor, Mouton de Gruyter , Berlin, pp.1-21, 2021
- II. **Fragment-based drug design of nature-inspired compounds**
Najjar A., Olğaç A., Ntie-Kang F., Sippl W.
in: Cheminformatics of Natural Products: Advanced Concepts and Applications, Fidele Ntie-Kang, Editor, Walter de Gruyter, Inc. , Berlin, pp.77-98, 2021
- III. **Cloud-Based High Throughput Virtual Screening in Novel Drug Discovery**
Olğaç A., Türe A., Olğaç S., Möller S.
in: High-Performance Modelling and Simulation for Big Data Applications, Kolodziej Joanna, Gonzalez-Velez Horacio, Editor, Springer, Zug, pp.250-278, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Exploring Protease Enzyme Selection for Protein-Structured Active Ingredient Loaded Drug Formulation with Molecular Dynamics Simulations**
OLĞAÇ S., OLĞAÇ A., TEKSİN Z. Ş.
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024
- II. **Model Eğitiminde ve Model Performansının Belirlenmesinde Kullanılmaya Hazır Yapı Aktivite Verilerinin Derlenmesi (SARUniQifier)**
Bıçkı D., Dağaşan S., Yılmaz E. Y., OLĞAÇ A.
Gazi Üniversitesi I. Öğrenci Projeleri Kongresi ve Bilim Şenliği, Ankara, Turkey, 13 May 2024
- III. **Sanal Tarama Çalışmasında Filtrelenecek Tekil Bileşik Kütüphanelerinin Oluşturulması (CompoundUniQifier)**
Dağaşan S., Bıçkı D., Yılmaz E. Y., OLĞAÇ A.
Gazi Üniversitesi I. Öğrenci Projeleri Kongresi ve Bilim Şenliği, Ankara, Turkey, 13 May 2024
- IV. **A Tale of Two 5-Lipoxygenase Activating Protein (FLAP) Inhibitors**
OLĞAÇ A., TURANLI S., ÇAPAN İ., Dahlke P., ERGÜL A. G., Jordan P. M., ÇALIŞKAN B., Werz O., BANOĞLU E.
Gordon Research Seminar on Computer Aided Drug Design, Vermont, United States Of America, 15 - 16 July 2023
- V. **Unveiling Novel Leukotriene B4 Receptor (BLT1R) Antagonists and Their Binding Characteristics Through Combined Strategies**
OLĞAÇ A., CAROTTI A., BANOĞLU E.
Gordon Research Conference on Computer Aided Drug Design, Vermont, United States Of America, 16 - 21 July 2023
- VI. **Screening and assessment of excipients for nanoemulsion formulations of interleukin-2 with computational studies**
Olğaç S., Olğaç A., Teksin Z. Ş.
EUFEPS Annual Meeting 2023, Lisbon, Portugal, 31 May - 02 June 2023
- VII. **Screening and Assessment of Excipients for Nanoemulsion Formulations of Interleukin-2 with Computational Studies**
Olğaç S., Olğaç A., Teksin Z. Ş.
EUFEPS Annual Meeting 2023, Lisbon, Portugal, 31 May - 02 June 2023

- VIII. **A Tale of Two Diverse Sets of Novel 5-Lipoxygenase Activating Protein (FLAP) Inhibitors**
OLĞAÇ A., TURANLI S., ÇAPAN İ., Dahlke P., ERGÜL A. G., Jordan P. M., ÇALIŞKAN B., Werz O., BANOĞLU E.
International Multidisciplinary Symposium on Drug Research and Development (DRD) 2023, İzmir, Turkey, 04 May 2023
- IX. **A journey from selective FLAP inhibitor to selective mPGES-1 inhibitor: A new therapeutic modality for reducing inflammation and pain**
BANOĞLU E., ÇALIŞKAN B., ERGÜL A. G., GÜR MAZ Z. T., OLĞAÇ A., JORDAN P. M., BAL N. B., ULUDAĞ M. O., WERZ O.
8th International Bahçeşehir University (BAU) Drug Design Congress, İstanbul, Turkey, 15 - 17 December 2022
- X. **Disease Centric Large Scale De Novo Design of Drug Candidate Molecules with Graph Generative Deep Adversarial Networks**
Ünlü A., Sarıgün A., Candaş E., Ataş H., OLĞAÇ A., RİFAİOĞLU A. S., DOĞAN T.
15th International Symposium on Health Informatics and Bioinformatics (HiBIT'22), Mersin, Turkey, 20 - 22 October 2022
- XI. **Identification of Novel Microsomal Prostaglandin E2 Type 1 (mPGES-1) Inhibitors by Conducting Structure-based Virtual Screening**
Olğaç A., Carotti A., Jordan P. M., Kretzer C., Werz O., Banoğlu E.
International Bioinformatics Conference (IBC 2022), Tanjah, Morocco, 8 - 09 October 2022, pp.17
- XII. **IDENTIFICATION OF NOVEL MICROSOMAL PROSTAGLANDIN E2 TYPE 1 (mPGES-1) INHIBITORS BY CONDUCTING STRUCTURE-BASED VIRTUAL SCREENING**
OLĞAÇ A., Carotti A., Jordan P. M., Kretzer C., Werz O., BANOĞLU E.
23rd European Symposium on Quantitative Structure-Activity Relationship (EuroQSAR), Heidelberg, Germany, 26 September 2022
- XIII. **IDENTIFICATION OF NOVEL SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 3 (STAT3) ACTIVE SITES BY MOLECULAR DYNAMICS**
Ekinci K., Olğaç A., Akı Yalçın E. E.
23rd European Symposium on Quantitative Structure-Activity Relationship (EuroQSAR), Heidelberg, Germany, 26 September 2022
- XIV. **Disease Centric Large Scale De Novo Design of Drug Candidate Molecules with Graph Generative Deep Adversarial Networks**
Ünlü A., Sarıgün A., Ataş H., Candaş E., OLĞAÇ A., RİFAİOĞLU A. S., DOĞAN T.
7th European Student Council Symposium, Barcelona, Spain, 18 September 2022
- XV. **Novel Microsomal Prostaglandin E2 Synthase-1 (MPGES-1) Inhibitors as a New Modality To Treat Inflammation**
ÇALIŞKAN B., ERGÜL A. G., GÜR MAZ Z. T., KRETZER C., OLĞAÇ A., JORDAN P. M., WERZ O., BANOĞLU E.
XXVII EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC 2022), Nice, France, 4 - 08 September 2022
- XVI. **SELECTIVE OR DUAL INHIBITORS OF INFLAMMATORY PGE2 AND LTb4 BIOSYNTHESIS BY TARGETING mPGES-1 AND FLAP TO INTERVENE WITH INFLAMMATORY DEREGLATION**
BANOĞLU E., ÇALIŞKAN B., ERGÜL A. G., GÜR MAZ Z. T., OLĞAÇ A., WERZ O.
The Sixth International Symposium on Pharmaceutical and Biomedical Sciences (ISPBS-6), Gaziantep, Turkey, 26 - 28 May 2022
- XVII. **Discovery of Novel Microsomal Prostaglandin E2 Synthase-1 (mPGES-1) Inhibitors: A New Modality to Treat Inflammation**
Banoğlu E., Çalışkan B., Ergül A. G., Gür Maz Z. T., Kretzer C., Olğaç A., Jordan P. M., Werz O.
10th International Drug Chemistry Conference, Antalya, Turkey, 10 - 13 March 2022
- XVIII. **Molecular Docking, Design, Synthesis and Biological Evaluation Of Novel Benzodioxole Derivatives On Various Biological Targets**
Hawash M., OLĞAÇ A.
5th Russian Medchem-Russia 2021 Conference (MedChem-Russia 2021), Volgograd, Russia, 05 October 2021
- XIX. **Computational Insights into the Binding Pattern of Microsomal Prostaglandin E-2 Synthase Type 1 Inhibitors**

Olğaç A., Banoğlu E.

3rd International Gazi Pharma Symposium Series (GPSS-2021), Ankara, Turkey, 8 - 10 September 2021, pp.77

- XX. **Structure-Guided Selection of Suitable Nanoemulsion Formulation Components for a Recombinant Form of Human Interleukin-2 (Aldesleukin)**
OLĞAÇ S., OLĞAÇ A., İNCEÇAYIR T., TEKSİN Z. Ş.
3rd International Gazi Pharma Symposium Series (GPSS-2021), Ankara, Turkey, 8 - 10 September 2021
- XXI. **Structure-Guided Selection of Suitable Nanoemulsion Formulation Components for a Recombinant Form of Human Interleukin-2 (Aldesleukin)**
Olğaç S., Olğaç A., İnceçayır T., Teksin Z. Ş.
3rd International Gazi Pharma Symposium Series (GPSS-2021), Ankara, Turkey, 8 - 10 September 2021
- XXII. **Investigation of the activation mechanisms of natural clotting processes by highly deacetylated chitosan**
Elçi S. D., BOLELLİ K., Hidayat A. N., OLĞAÇ A., JAVORNIK U., BELEN APAK F. B., ŞENÇELİKEL T., AKI YALÇIN E. E.
8th International Drug Chemistry Conference, Antalya, Kemer, Turkey, 27 February - 01 March 2020
- XXIII. **Discovery of Multitarget Inhibitors in the Arachidonic Acid Pathway by Targeting FLAP/5-LO/mPGES-1 for Intervention with Inflammatory Deregulation**
BANOĞLU E., ÇALIŞKAN B., GÜR MAZ Z. T., OLĞAÇ A., GARSCHA U., WERZ O.
8th International Drug Chemistry Conference, Antalya, Turkey, 27 February - 01 March 2020
- XXIV. **An in silico Investigation of the Activation Mechanisms of Clotting Processes by Highly Deacetylated Oligomeric Chitosan**
Elçi S. D., Hidayat A. N., OLĞAÇ A., AKI YALÇIN E. E.
Asian Federation for Medicinal Chemistry (AFMC) 12th International Symposium, Ankara, Turkey, 8 - 11 September 2019
- XXV. **Virtual Screening to Discover Drug Candidates Targeting Platelet Receptors**
OLĞAÇ S., OLĞAÇ A., YENİCESU İ., ÖZKAN Y.
Asian Federation of Medicinal Chemistry (AFMC) 12th International Symposium, İstanbul, Turkey, 8 - 11 September 2019
- XXVI. **Virtual Screening for Small Molecule Inhibitors of Glycoprotein VI (GPVI)**
OLĞAÇ S., OLĞAÇ A., ÖZKAN Y.
4th European Platelet Network (EUPLAN), 19 - 21 September 2018
- XXVII. **DISCOVERY OF NOVEL 5-LIPOXYGENASE ACTIVATING PROTEIN (FLAP) INHIBITORS BY VIRTUAL SCREENING AND PHARMACOLOGICAL EVALUATION**
OLĞAÇ A., CAROTTI A., GARSCHA U., WERZ O., MACCHIARULO A., BANOĞLU E.
22nd European Symposium on Quantitative Structure-Activity Relationships/Translational and Health Informatics: Implications for Drug Discovery, 16 - 20 September 2018
- XXVIII. **EVOLUTION OF SELECTIVE FLAP INHIBITOR BRP-7 INTO MULTI-TARGET INHIBITOR OF FLAP, 5-LO AND MPGES-1 IN THE ARACHIDONIC ACID PATHWAY**
GÜR MAZ Z. T., ÇALIŞKAN B., OLĞAÇ A., GERSTMEIER J., GARSCHA U., WERZ O., BANOĞLU E.
EFMC International Symposium on Medicinal Chemistry, Ljubljana, Slovenia, 2 - 06 September 2018, pp.231
- XXIX. **PROTEIN-LIGAND INTERACTION ANALYSIS THROUGH DOCKING AND MOLECULAR DYNAMIC SIMULATIONS OF KNOWN 5-LIPOXYGENASE-ACTIVATING PROTEIN (FLAP) INHIBITORS**
OLĞAÇ A., CAROTTI A., MACCHIARULO A., BANOĞLU E.
RICT 2018 Interfacing Chemical Biology and Drug Discovery 54th International Conference on Medicinal Chemistry, Strasbourg, France, 4 - 06 July 2018
- XXX. **In Vitro Antiplatelet Studies on Virtually Discovered GPVI Drug Candidates**
OLĞAÇ S., Olğaç A., ÖZKAN Y.
12th International Symposium on Pharmaceutical Sciences (ISOPS), 26 - 29 June 2018
- XXXI. **SANAL TARAMA VE FARMAKOLOJİK DEĞERLENDİRME YOLUYLA YENİ 5-LİPOKSİJENAZ AKTİVE EDİCİ PROTEİN (FLAP) İNHİBİTÖRÜ BİLEŞİKLERİN KEŞFİ**
OLĞAÇ A., CAROTTI A., GARSCHA U., WERZ O., MACCHIARULO A., BANOĞLU E.
V. ULUSAL FARMASÖTİK KİMYA KONGRESİ, Erzurum, Turkey, 28 April - 01 May 2018

- XXXII. **ANTİLÖKOTRİEN ETKİLİ 1,2,5-TRİSÜBSTİTÜEBENZİMİDAZOL TÜREVLERİNİN GELİŞTİRİLMESİ ÜZERİNDE YAPILAN ÇALIŞMALAR**
GÜR MAZ Z. T., ÇALIŞKAN B., GERSTMEIER J., OLĞAÇ A., GARSCHA U., WERZ O., BANOĞLU E.
V. ULUSAL FARMASÖTİK KİMYA KONGRESİ, Erzurum, Turkey, 28 April - 01 May 2018
- XXXIII. **Cloud-Based High Performance Virtual Screening in Novel Drug Discovery**
OLĞAÇ A., Möller S.
WG MC Meeting Fontainebleau (France), Fontainebleau, France, 19 - 20 March 2018
- XXXIV. **Discovery and Development of Novel Anti-cancer and Anti-inflammatory Compounds: Medicinal Chemistry Challenges**
BANOĞLU E., ÇALIŞKAN B., GÜR MAZ Z. T., OLĞAÇ A., İBİŞ K., Akhan Güzelcam E., Sinoplu E., Garscha U., Gerstmeier J., ATALAY R., et al.
The 4th International Symposium on Pharmaceutical and Biomedical Sciences, Kumamoto, Japan, 17 March 2018
- XXXV. **Investigation of Novel Platelet Receptor GPVI Inhibitor Candidates**
OLĞAÇ S., OLĞAÇ A., ÖZKAN Y.
2nd International Gazi Pharma Symposium Series, 11 - 13 October 2017
- XXXVI. **Discovery of Novel 5-Lipoxygenase Activating Protein (FLAP) Inhibitors by Virtual Screening**
OLĞAÇ A., CAROTTI A., GERSTMEIER J., GARSCHA U., WERZ O., MACCHIARULO A., BANOĞLU E.
2nd International Gazi Pharma Symposium Series, 11 - 13 October 2017
- XXXVII. **Developing Multi-target Inhibitors of Arachidonic Acid Pathway Based on the FLAP Inhibitor BRP-7**
GÜR Z. T., ÇALIŞKAN B., GERSTMEIER J., OLĞAÇ A., GARSCHA U., WERZ O., BANOĞLU E.
2nd International Gazi Pharma Symposium Series, 11 - 13 October 2017
- XXXVIII. **Discovery of Dual FLAP/mPGES-1 Inhibitors for Intervention with Inflammatory Diseases: Medicinal Chemistry Challenges**
BANOĞLU E., ÇALIŞKAN B., GÜR Z. T., OLĞAÇ A.
Turkish Japanese Workshop on Bioorganic Medicinal Chemistry Natural Products, 14 September 2017
- XXXIX. **Bioisosteric Tuning of FLAP Inhibitor BRP-7 Towards a More Potent Anti-inflammatory Agent with Multiligand Inhibitor Properties in the Arachidonic Acid (AA) Pathway**
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EFMC-ASMC'xx17 EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry, 27 - 31 August 2017
- XL. **Discovery of Novel 5-Lipoxygenase Activating Protein (FLAP) Inhibitors by Combined Ligand- and Structure-Based Virtual Screening**
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- XLI. **Araşidonik asit yolağında çoklu ligand (FLAP/5-LO/mPGES-1) özellikte inhibitör etkili BRP-7 türevlerinin geliştirilmesi**
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1. Anadolu Üniversitesi Eczacılık Sempozyumu, Eskişehir, Turkey, 1 - 02 June 2017, pp.10
- XLII. **Structure based virtual screening to discover platelet GPVI inhibitors**
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- XLIII. **Structure Based Virtual Screening to Discover Platelet GPVI Inhibitors**
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- XLIV. **Structure Guided Design of Novel Isoxazole and Benzimidazole Derivatives as Potent 5 Lipoxygenase 5 LO and 5 LO Activating Protein FLAP Inhibitors**
OLĞAÇ A., CAROTTI A., WERZ O., BANOĞLU E., MACCHIARULO A.
XXIV National Meeting in Medicinal Chemistry, Perugia, Italy, 11 - 14 September 2016
- XLV. **Screening FDA Approved Drugs to Discover Potent GPVI Inhibitors**

OLĞAÇ S., OLĞAÇ A., ÖZKAN Y.

XXIV National Meeting in Medicinal Chemistry, Perugia, Italy, 11 - 14 September 2016

- XLVI. **Evias Web Services Cloud Based Drug Discovery Platform**
OLĞAÇ A., BUDAK G., OLĞAÇ S., NUTI R., CAROTTI A., BANOĞLU E.
21st European Symposium on Quantitative Structure-Activity Relationship, Verona, Italy, 4 - 08 September 2016
- XLVII. **Novel BRP 7 Derivatives Targeting FLAP Potent Inhibitors of Leukotriene Biosynthesis**
GÜR Z. T., ÇALIŞKAN B., GERSTMEIER J., GARSCHA U., OLĞAÇ A., WERZ O., BANOĞLU E.
3rd EFMC Young Medicinal Chemist Symposium, Manchester, United Kingdom, 1 - 02 September 2016
- XLVIII. **Exploration of the Chemical Space Around C 5 Position Of The Benzimidazole Nucleus in BRP 7 Towards More Potent Inhibitors of Human 5 Lipoxygenase Activating Protein FLAP**
GÜR Z. T., ÇALIŞKAN B., GERSTMEIER J., OLĞAÇ A., NIKELS F., WERZ O., BANOĞLU E.
EFMC International Symposium on Medicinal Chemistry 2016, Manchester, United Kingdom, 28 August - 01 September 2016
- XLIX. **Discovery of 4 5 Diarylisoxazol 3 Carboxylic Acid Skeleton as a Novel Chemotype for Inhibition of 5 Lipoxygenase Activating Protein FLAP**
ÇALIŞKAN B., ÇELİKOĞLU E., GERSTMEIER J., VOELKER S., GARSCHA U., OLĞAÇ A., CAROTTI A., MACCHIARULO A., WERZ O., BANOĞLU E.
EFMC International Symposium on Medicinal Chemistry 2016, Manchester, United Kingdom, 28 August - 01 September 2016
- L. **Structure Guided Design of Novel Isoxazole and Benzimidazole Derivatives as Potent FLAP and 5 LO Inhibitors**
OLĞAÇ A., CAROTTI A., BANOĞLU E., MACCHIARULO A.
IBSS'2016 Resources and Techniques in Computational Drug Discovery, Morocco, 23 - 26 May 2016
- LI. **Cloud Based Drug Discovery Platforms**
OLĞAÇ A.
IBSS'2016 Resources and Techniques in Computational Drug Discovery, TANCA, Morocco, 23 - 26 May 2016
- LII. **Hands on Evias Cloud Virtual Screening Module**
OLĞAÇ A., BUDAK G., NUTI R.
IBSS'2016 Resources and Techniques in Computational Drug Discovery, TANCA, Morocco, 23 - 26 May 2016
- LIII. **Evias Cloud Based Drug Discovery Platform**
OLĞAÇ A., BUDAK G., OLĞAÇ S., NUTI R., CAROTTI A., BANOĞLU E.
High-Performance Modelling and Simulation for Big Data Applications - Management Committee & Working Group Meeting, Dublin, Ireland, 25 - 26 April 2016
- LIV. **STRUCTURE BASED DESIGN AND SYNTHESIS OF NOVEL BRP 7 DERIVATIVES BEARING C 5 POLAR SUBSTITUENTS AS POTENT FLAP INHIBITORS**
GÜR Z. T., OLĞAÇ A., Gerstmeiner J., Macchiarulo A., Werz O., ÇALIŞKAN B., BANOĞLU E.
GPSS 2015, Antalya, Turkey, 12 - 15 November 2015
- LV. **Pharmacoinformatics in Drug R&D Process**
OLĞAÇ A., CAROTTI A.
1st International Gazi Pharma Symposium Series, 12 - 15 November 2015
- LVI. **Structure-Guided Design of Novel Isoxazole and Benzimidazole Derivatives as Potent FLAP and 5-LO Inhibitors: Insights from Molecular Dynamics Simulations**
OLĞAÇ A., CAROTTI A., WERZ O., MACCHIARULO A., BANOĞLU E.
1st International Gazi Pharma Symposium Series, 12 - 15 November 2015
- LVII. **Structure-Based Design And Synthesis Of Novel Isoxazole And Benzimidazole Derivatives As Potent FLAP and 5-LO Inhibitors: Insights From Molecular Dynamics Simulations**
OLĞAÇ A., CAROTTI A., WERZ O., BANOĞLU E., MACCHIARULO A.
Summer School on Drug Design in September in Vienna 2015, Viyana, Austria, 20 - 25 September 2015
- LVIII. **Mitochondrial Haplogroups in Mitochondrial DNA Control Region of the Turkish Population**
KURTULUŞ M., GÜNAY M., ÇELENK C., OLĞAÇ A., CİCİOĞLU H. İ.
BAFS - BALKAN ACADEMY OF FORENSIC SCIENCES -11th ANNUAL MEETING, 10 - 13 June 2015

- LIX. **Structure-Based Design and Synthesis of Novel BRP-7 Derivatives as Potent FLAP Inhibitors: Insights from MolecularDynamics Simulations.**
OLĞAÇ A., GÜR Z. T., CAROTTI A., ÇALIŞKAN B., GERSTMEIER J., WERZ O., MACCHIARULO A., BANOĞLU E.
EFMC International Symposium on Medicinal Chemistry, LİZBON, Portugal, 7 - 11 September 2014, pp.162
- LX. **Study of 5-Lipoxygenase (5-LO) and 5-Lipoxygenase Activating Protein (FLAP) Inhibition Through in silico Docking and Molecular Dynamics Simulations**
OLĞAÇ A., CAROTTI A., MACCHIARULO A., BANOĞLU E.
Gazi Pharma - Computer Aided Drug Design Meeting, 03 December 2013
- LXI. **Computer Aided Drug Design Targeting 5LO and FLAP**
OLĞAÇ A., CAROTTI A., WERZ O., MACCHIARULO A., BANOĞLU E.
The First Technical Meeting on High-Throughput Molecular Dynamics 2013, 7 - 08 November 2013

Supported Projects

- OLĞAÇ S., OLĞAÇ A., GÖRAL Ş., ÖZKAN Y., Project Supported by Higher Education Institutions, Platelet Antagonistlerinin GPVI ve CLEC2 Reseptörleri Yönünden Mekanizmalarının İncelenmesi, 2024 - Continues
- TEKSİN Z. Ş., DEMİRCİ H., OLĞAÇ S., KULAKMAN C., OLĞAÇ A., DİNLER DOĞANAY G., Project Supported by Higher Education Institutions, Aldeslökkinin lipit formülasyonunda kullanılacak yardımcı maddelerin hesaplamalı ve deneysel olarak belirlenmesi, 2023 - Continues
- Olğaç A., Demirci H., Olğaç S., Banoğlu E., Doğan T., Carotti A., Werz O., TÜBİTAK Project, Yeni Çözünür Epoksit Hidrolaz (sEH) İnhibitörlerinin Sanal Tarama Yöntemiyle Keşfi ve Biyolojik Aktivitelerinin Belirlenmesi, 2023 - 2026
- Teksin Z. Ş., Olğaç A., Varan G., Canpınar H., Bilensoy E., TÜBİTAK Project, Development of oral nano-drug delivery systems containing recombinant human interleukin-2 using molecular dynamics simulations for the treatment of kidney cancer and in vitro - in vivo evaluations, 2023 - 2026
- Doğan T., Karaca Ereğ E., Olğaç A., TÜBİTAK Project, Üretken Derin Öğrenme İle Yeni Protein Dizilerinin Moleküler İşlev Odaklı Otomatik Tasarımı, 2022 - 2025
- Aytemir M., Olğaç A., TÜBİTAK Project, Yeni Hidroksipiridinon Türevlerinin Alzheimer Hastalığı Modelleri Üzerinde Nörorejeneratif Etkilerinin Değerlendirilmesi, 2022 - 2025
- Doğan T., Banoğlu E., Kahraman D. C., Olğaç A., TÜBİTAK Project, Disease Centric Large Scale De Novo Design of Drug Candidate Molecules with Graph Generative Deep Adversarial Networks, 2021 - 2024
- Olğaç A., Banoğlu E., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Yeni Mikrozomal Prostaglandin E2 Tip-1 İnhibitörlerinin Yapay Zekâ Destekli Sanal Tarama Çalışmalarıyla Belirlenmesi, 2022 - 2023
- Banoğlu E., Gür Maz Z. T., Uludağ M. O., Çalışkan B., Olğaç A., Bal N. B., TÜBİTAK Project, Yeni Mikrozomal Prostaglandin E2 Sentaz-1 (Mpges-1) İnhibitörlerinin Geliştirilmesi Üzerine Çalışmalar, 2019 - 2023
- Sommer M., Olğaç A., TÜBİTAK - AB COST Project, European Research Network on Signal Transduction, 2019 - 2023
- Olğaç A., Çapan İ., Banoğlu E., TÜBİTAK Project, Lökotrien Biyosentez İnhibitörlerinin Geliştirilmesi, 2020 - 2022
- Kolodziej J., Olğaç A., TÜBİTAK - AB COST Project, High Performance Modelling and Simulation for Big Data Applications cHiPSet, 2015 - 2019
- Olğaç A., Budak G., Olğaç S., Banoğlu E., TÜBİTAK Project, Bulutta Yüksek Performanslı İlaç Sanal Tarama Servisi, 2015 - 2017
- Banoğlu E., Çalışkan B., TÜBİTAK Project, 5 Lipoksijenaz aktive edici protein FLAP inhibitörlerinin geliştirilmesi, 2013 - 2016
- Olğaç A., Levent S., Banoğlu E., Project Supported by Other Official Institutions, Bulutta Yüksek Performanslı İlaç Sanal Tarama Servisi, 2013 - 2014

Patent

- Banoğlu E., Olğaç A., Çapan İ., Kretzer C., Werz O., 5-Lipoksijenaz Aktive Edici Protein (FLAP) İnhibitörleri - 2, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2021/001958 , Standard Registration, 2024

Olğaç A., Banoğlu E., Carotti A., Kretzer C., Garscha U., Werz O., Macchiarulo A., 5-Lipoksijenaz Aktive Edici Protein (FLAP) İnhibitörleri - 1, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2020 02257 B , Standard Registration, 2022

Activities in Scientific Journals

Frontiers in Drug Discovery, Committee Member, 2021 - Continues
Journal of the Turkish Chemical Society, Section A: Chemistry, Editor, 2019 - 2024

Memberships / Tasks in Scientific Organizations

American Chemical Society, Member, 2022 - Continues, United States Of America
Türk Eczacıları Birliği, Member, 2019 - Continues, Turkey
Ankara Eczacı Odası, Member, 2019 - Continues, Turkey
Farmasötik Bilimler Ankara Derneği (FABAD), Member, 2012 - Continues, Turkey
European Federation for Medicinal Chemistry and Chemical Biology, Member, 2012 - Continues, Switzerland
Türk Farmasötik ve Medisinal Kimya Derneği (TURKMEDCHEM), Member, 2012 - Continues, Turkey
American Chemical Society (ACS) Division of Medicinal Chemistry, Member, 2019 - 2020, United States Of America
American Chemical Society (ACS), Member, 2019 - 2020, United States Of America

Scientific Refereeing

TUBITAK Project, 1002 - Quick Support Program, Gazi University, Turkey, April 2024
SOUTH AFRICAN JOURNAL OF BOTANY, Journal Indexed in SCI-E, July 2023
Network Modeling Analysis in Health Informatics and Bioinformatics, Journal Indexed in ESCI, February 2023
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, October 2022
European Journal of Biology, National Scientific Refreed Journal, October 2022
ANKARA ÜNİVERSİTESİ ECZACILIK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, October 2022
BIOORGANIC CHEMISTRY, SCI Journal, June 2022
BIOORGANIC CHEMISTRY, SCI Journal, May 2022
Journal of Research in Pharmacy, Journal Indexed in ESCI, April 2022
Frontiers in Bioinformatics, Other Indexed Journal, February 2022
ANKARA ÜNİVERSİTESİ ECZACILIK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, February 2022
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, February 2022
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, February 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, November 2021
ANKARA ÜNİVERSİTESİ ECZACILIK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, October 2021
ANKARA ÜNİVERSİTESİ ECZACILIK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, August 2021
BIOORGANIC CHEMISTRY, SCI Journal, March 2021
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, January 2021
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, December 2020
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, July 2020
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, June 2020
JOURNAL OF MOLECULAR GRAPHICS & MODELLING, SCI Journal, June 2020
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, May 2020
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, March 2020

Project Supported by Public Organizations in Other Countries, National Science Centre, Poland, March 2020
Journal of Research in Pharmacy, Journal Indexed in ESCI, February 2020
Springer Nature, Scientific / Professional Book Published by Renowned Publishing Houses, February 2020
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, December 2019
FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, National Scientific Refreed Journal, October 2019
Network Modeling Analysis in Health Informatics and Bioinformatics, Journal Indexed in ESCI, September 2019
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, August 2019
De Gruyter, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, July 2019
FABAD JOURNAL OF PHARMACEUTICAL SCIENCES, National Scientific Refreed Journal, May 2019
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, April 2019
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, March 2019
JOURNAL OF CHEMICAL INFORMATION AND MODELING, SCI Journal, March 2019
Project Supported by Public Organizations in Other Countries, National Science Center, Poland, March 2019
De Gruyter, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, February 2019
TURKISH JOURNAL OF BIOCHEMISTRY-TÜRK BIYOKIMYA DERGISI, Journal Indexed in SCI-E, February 2019
JOURNAL OF CHEMICAL INFORMATION AND MODELING, SCI Journal, January 2019
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, January 2019
De Gruyter, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, October 2018
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, October 2018
Network Modeling Analysis in Health Informatics and Bioinformatics, Journal Indexed in ESCI, September 2018
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, July 2018
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, May 2018
Turkish Journal of Pharmaceutical Sciences, Journal Indexed in ESCI, April 2018

Tasks In Event Organizations

Olğaç A., 12th Asian Federation of Medicinal Chemistry (AFMC) International Symposium (AIMECS 2019), Scientific Congress, İstanbul, Turkey, Eylül 2019
Olğaç A., 22nd European Symposium on Quantitative Structure-Activity Relationship (EuroQSAR 2018), Scientific Congress, Thessaloniki, Greece, Eylül 2018

Mobility Activity

Other, Workshop, Koc University, Turkey, 2024 - 2024
Improving Competencies and Qualifications, Scientific Research, Koc University, Turkey, 2023 - 2023

Metrics

Publication: 87
Citation (WoS): 303
Citation (Scopus): 329
H-Index (WoS): 10
H-Index (Scopus): 10

Congress and Symposium Activities

Gordon Research Conference Computer Aided Drug Design, Audience, Vermont, United States Of America, 2023

Gordon Research Seminary on Computer Aided Drug Design, Moderator, Vermont, United States Of America, 2023

International Bioinformatics Conference 2022, Invited Speaker, Tanjah, Morocco, 2022

23rd European Symposium on Quantitative Structure-Activity Relationship (EuroQSAR), Audience, Heidelberg, Germany, 2022

Invited Talks

AI in Drug Discovery, Conference, Gazi Üniversitesi, Turkey, April 2024

Scholarships

Early Career Investigator Fund (cHiPSet COST Action), European Commission, 2018 - 2019

Erasmus Fund, European Commission, 2015 - 2016

EFMC grant to attend the 7th EFMC Short Course on Medicinal Chemistry, Other International Organizations, 2013 - 2013

Erasmus Fund, European Commission, 2013 - 2013

Entrepreneurship Activities

Limited, Evias Pharmaceutical R&D Ltd., 29 March 2013, Founder Owner

Non Academic Experience

Company, Evias Pharmaceutical R&D Ltd., Molecular Modeling Laboratory

Evias İlaç Araştırma Geliştirme Yazılım Danışmanlık Sanayi ve Ticaret Ltd. Şti.