

CURRICULUM VITAE

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EDUCATION

<u>Institution / Location</u>	<u>Degree</u>	<u>Year</u> <u>Conferred</u>	<u>Field of Study</u>
Hacettepe University, Faculty of Pharmacy, Ankara, Turkey	B.S.	1999	Pharmacy
Gazi University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Ankara, Turkey	M.S.	2001	Pharmaceutical Chemistry
The University of Iowa, College of Pharmacy, Division of Medicinal and Natural Products Chemistry, Iowa City, IA, United States of America	Ph.D.	2008	Pharmaceutical Chemistry

PROFESSIONAL & ACADEMIC POSITIONS HELD / RESEARCH CENTER AND INSTITUTE AFFILIATIONS

2022 August – present: Professor, Eastern Mediterranean University, Faculty of Pharmacy, Division of Pharmaceutical Chemistry, Famagusta, TR. North Cyprus, via Mersin 10, Turkey.

2017 March – present: Associate Professor, Eastern Mediterranean University, Faculty of Pharmacy, Division of Pharmaceutical Chemistry, Famagusta, TR. North Cyprus, via Mersin 10, Turkey.

2013 February – 2017 May: Assistant Professor, Eastern Mediterranean University, Faculty of Pharmacy, Division of Pharmaceutical Chemistry, Famagusta, TR. North Cyprus, via Mersin 10, Turkey.

2017 October – April 2018: Vice Dean, Eastern Mediterranean University, Faculty of Pharmacy, Famagusta, TR. North Cyprus, via Mersin 10, Turkey.

2017 August – 2017 October: Deputy Dean, Eastern Mediterranean University, Faculty of Pharmacy, Famagusta, TR. North Cyprus, via Mersin 10, Turkey.

2013 September – 2017 July: Vice Dean, Eastern Mediterranean University, Faculty of Pharmacy, Famagusta, TR. North Cyprus, via Mersin 10, Turkey.

February 2019 – present: Eastern Mediterranean University, Faculty of Pharmacy, EMU Pharmacy Students Society chief advisor.

February 2019 – present: Eastern Mediterranean University, University Elective Courses Committee member.

September 2013 – September 2016: Eastern Mediterranean University, University Research Advisory Board member.

September 2013 – present: Eastern Mediterranean University, Faculty of Pharmacy, Faculty Board member.

September 2013 – present: Eastern Mediterranean University, Faculty of Pharmacy, Academic Board member.

August 2008 – January 2013: R&D Supervisor of Pharmacology and Synthesis Department, Fargem (Pharmaceutical Research and Development Center), Nobel Drug R&D Center, Duzce, Turkey.

January 2004 – August 2008: Research Assistant, PhD Student, The University of Iowa, College of Pharmacy, Division of Medicinal and Natural Products Chemistry, Iowa City, IA, USA.

September 1999 – December 2004: Research and Teaching Assistant, Gazi University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Ankara, Turkey.

Professional Societies, and Membership

September 2001 – present: Member of Turkish Pharmaceutical and Medicinal Chemistry Association.

March 2014 – present: Member of Turkish Chemists Association.

July 1999 – present: Member of Hacettepe University Graduates.

August 2008 – present: Member of The University of Iowa Graduates.

January 2019 – December 2020: Associate editor of EMU Journal of Pharmaceutical Sciences.

January 2019 – present: Section editor of EMU Journal of Pharmaceutical Sciences.

PUBLISHED WORK AND PATENTS

Research Manuscripts (in refereed international journals) (Web of Science, SCI, SCIE)

32. Abakan, I., Ozbilenler, C., Ustürk S., Kerküklü, N. R., **Gulcan, H. O.**, Guran, M., Gazi, M. (2023). Removal of Methylene Blue Dye from Aqueous Solution with Antibacterial Carboxymethyl Cellulose/Polyvinyl Alcohol Cryogels. *Journal of Water Chemistry and Technology*, Accepted manuscript,

31. Tavakoli, M., Ghadami, S. A., Adibi, H., & **Gulcan, H. O.** (2023). Synthesis of benzylidene-benzofuranone derivatives as probes for detection of amyloid fibrils in cells. *Journal of Biomolecular Structure and Dynamics*, 41(24), 14989-15002 DOI:10.1080/07391102.2023.2184635

30. Turgutalp, B., Bhattarai, P., Ercetin, T., Luise, C., Reis, R., Gurdal, E. E., ... **Gulcan, H.O.**, Kızıl, C., & Yarim, M. (2022). Discovery of Potent Cholinesterase Inhibition-Based Multi-Target-Directed Lead Compounds for Synaptoprotection in Alzheimer's Disease. *Journal of Medicinal Chemistry*, 65(18), 12292-12318, DOI: 10.1021/acs.jmedchem.2c01003.

29. **Gulcan, H.O.**, Shukur, K. T., Mavideniz, A., Sirekcioglu, O., Gazi, M. (2021) The investigation of fluorescence and metal interaction properties of racemic 7,8,9,10-tetrahydro-3-hydroxy-4-(1-hydroxyethyl)benzo[c]chromen-6-one. *Turkish Journal of Chemistry*, 46(2), 295-301, DOI: 10.3906/kim-2106-6.

28. Shukur, K. T., Fallah, A., Teralı, K., Kalkan, R., Gazi, M., **Gulcan, H.O.** (2021) 3-Hydroxy-7,8,9,10-tetrahydro-6H-benzo[c]chromen-6-one and 3-hydroxy-6H-benzo[c]chromen-6-one act as on-off selective fluorescent sensors for Iron (III) under in vitro and ex vivo conditions. *Turkish Journal of Chemistry*, 45, 858-867. doi:10.3906/kim-2011-58.

27. Shukur, K. T., Ercetin, T., Luise, C., Sippl, W., Sirkecioglu, O., Ulgen, M., Coskun, G. P., Yarim, M., Gazi, M., **Gulcan, H.O.** (2021) Design, synthesis and biological evaluation of new urolithin amides as multi-target agents against Alzheimer's disease. *Archiv der Pharmazie*, 354(5), 2000467. DOI: 10.1002/ardp.202000467

26. Erdogan, M., Kilic, B., Sagkan, R. I., Aksakal, F., Ercetin, T., **Gulcan, H. O.**, Dogruer, D. S. (2021) Design, synthesis and biological evaluation of new benzoxazolone/benzothiazolone derivatives as multi-target agents against Alzheimer's disease. *European Journal of Medicinal Chemistry*, 212, 113-124. <https://doi.org/10.1016/j.ejmech.2020.113124>.
25. Ertuğruloğlu, P., **Gulcan, H.O.**, Ifebajo, A.O., Fallah, A., Sahin, M. F., Gazi, M. (2022) Removal of duloxetine from aqueous solution by adsorption onto chemical crosslinked alginate beads, *Journal of dispersion science and technology*, 43(4), 551-558, DOI: DOI: 10.1080/01932691.2020.1844013.
24. Pournaki, M., Fallah, A., **Gülcan, H. O.**, & Mustafa Gazi (2021) A novel chitosan based fluorescence chemosensor for selective detection of Fe (III) ion in acetic aqueous medium, *Materials Technology*, 36(2), 91-96. DOI: 10.1080/10667857.2020.1730565.
23. Teralı, K., Baddal, B., & **Gülcan, H. O.** (2020). Prioritizing potential ACE2 inhibitors in the COVID-19 pandemic: insights from a molecular mechanics-assisted structure-based virtual screening experiment. *Journal of Molecular Graphics and Modelling*, 100, 107697. doi: 10.1016/j.jmgm.2020.107697.
22. Noshadi, B., Ercetin, T., Luise, C., Yuksel, M. Y., Sippl, W., Sahin, M.F., Gazi, M., **Gulcan, H. O.**, (2020). Synthesis, Characterization, Molecular docking, and Biological Activities of Some Natural and Synthetic Urolithin Analogues. *Chemistry & Biodiversity*, 17, e2000197. <https://doi.org/10.1002/cbdv.202000197>.
21. Ozyazici, T., Gurdal, E. E., Orak, D., Sipahi, H., Ercetin, T., **Gulcan, H. O.**, & Koksall, M. (2020). Synthesis, anti-inflammatory activity, and molecular docking studies of some novel Mannich bases of the 1, 3, 4-oxadiazole-2 (3H)-thione scaffold. *Archiv der Pharmazie*, 353, e2000061. DOI: 10.1002/ardp.202000061.
20. Fallah, A., Noshadi, B., Gazi, M., & **Gülcan, H. O.** (2020). Urolithin A and B Derivatives as ON-OFF Selective Fluorescent Sensors for Iron (III). *Journal of Fluorescence*, 30(1), 113-120. DOI: 10.1007/s10895-019-02475-0.
19. Heydaripour, J., Gazi, M., Oladipo, A. A., & **Gulcan, H. O.** (2019). A novel magnetic mesoporous resorcinol–melamine–formaldehyde resin for removal of phenols from

aqueous solution. *Journal of Porous Materials*, 26(5), 1249-1258. DOI: 10.1007/s10934-018-0714-0.

18. Heydaripour, J., Gazi, M., Oladipo, A. A., & **Gulcan, H. O.** (2019). Porous magnetic resin-g-chitosan beads for adsorptive removal of phenolic compounds. *International journal of biological macromolecules*, 123, 1125-1131. DOI: 10.1016/j.ijbiomac.2018.11.168

17. Kilic, B., Erdogan, M., **Gulcan, H. O.**, Aksakal, F., Oruklu, N., Bagriacik, E. U., & Dogruer, D. S. (2019). Design, Synthesis and Investigation of New Diphenyl Substituted Pyridazinone Derivatives as Both Cholinesterase and A β -Aggregation Inhibitors. *Medicinal Chemistry*, 15(1), 59-76. DOI: 10.2174/1573406414666180524073241.

16. Fallah, A., **Gülcan, H. O.**, & Gazi, M. (2018). Urolithin B as a Simple, Selective, Fluorescent Probe for Sensing Iron (III) in Semi-Aqueous Solution. *Journal of fluorescence*, 28(5), 1255-1259. DOI: 10.1007/s10895-018-2290-8.

15. Kilic, B., **Gulcan, H. O.**, Aksakal, F., Ercetin, T., Oruklu, N., Bagriacik, E. U., & Dogruer, D. S. (2018). Design and synthesis of some new carboxamide and propanamide derivatives bearing phenylpyridazine as a core ring and the investigation of their inhibitory potential on in-vitro acetylcholinesterase and butyrylcholinesterase. *Bioorganic chemistry*, 79, 235-249. DOI: 10.1016/j.bioorg.2018.05.006.

14. Fallah, A., **Gülcan, H. O.**, Gülcan, C., ERÇETİN, T., Kabaran, S., Kunter, I., ... & Şahin, M. F. (2018). Traditional Techniques Applied in Olive Oil Production Results in Lower Quality Products in Northern Cyprus. *Turkish Journal of Pharmaceutical Sciences*, 15(2). DOI: 10.4274/tjps.79188.

13. Norouzbahari, M., Burgaz, E. V., Ercetin, T., Fallah, A., Foroumadi, A., Firoozpour, L., ... & **Gulcan, H. O.** (2018). Design, synthesis and characterization of novel urolithin derivatives as cholinesterase inhibitor agents. *Letters in Drug Design & Discovery*, 15(11), 1131-1140. DOI: 10.2174/1570180815666180115144608.

12. Gurdal, E. E., Turgutalp, B., **Gulcan, H. O.**, Ercetin, T., Sahin, M. F., Durmaz, I., ... & Yarim, M. (2017). Synthesis of novel benzothiazole-piperazine derivatives and their biological evaluation as acetylcholinesterase inhibitors and cytotoxic agents. *Anti-Cancer*

Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents), 17(13), 1837-1845. DOI: 10.2174/1871520617666170412153604.

11. Gazi, M., Oladipo, A. A., Ojoro, Z. E., & **Gulcan, H. O.** (2017). High-performance nanocatalyst for adsorptive and photo-assisted fenton-like degradation of phenol: modeling using artificial neural networks. *Chemical Engineering Communications*, 204(7), 729-738. DOI: 10.1080/00986445.2017.1311253.

10. Kılıc, B., **Ozan Gulcan, H.**, Yalcın, M., Aksakal, F., Dimoglo, A., Fethi Sahin, M., & Songul Dogruer, D. (2017). Synthesis of some new 1 (2H)-phthalazinone derivatives and evaluation of their acetylcholinesterase and butyrylcholinesterase inhibitory activities. *Letters in Drug Design & Discovery*, 14(2), 159-166. DOI: 10.2174/1570180813666160819124611.

9. Kunter, İ., Hürer, N., **Gülcan, H. O.**, Öztürk, B., Doğan, İ., & Şahin, G. (2017). Assessment of aflatoxin M1 and heavy metal levels in mothers breast milk in Famagusta, Cyprus. *Biological trace element research*, 175(1), 42-49. DOI: 10.1007/s12011-016-0750-z.

8. Yamalı, C., **Gülcan, H. O.**, Kahya, B., Çobanoğlu, S., Şüküroğlu, M. K., & Doğruer, D. S. (2015). Synthesis of some 3 (2H)-pyridazinone and 1 (2H)-phthalazinone derivatives incorporating aminothiazole moiety and investigation of their antioxidant, acetylcholinesterase, and butyrylcholinesterase inhibitory activities. *Medicinal Chemistry Research*, 24(3), 1210-1217. DOI: 10.1007/s00044-014-1205-8.

7. **Gülcan, H. O.**, Ünlü, S., Dimoglo, A., Şahin, Y., Esiringu, İ., Erçetin, T., ... & Şahin, M. F. (2015). Marginally designed new profen analogues have the potential to inhibit cyclooxygenase enzymes. *Archiv der Pharmazie*, 348(1), 55-61. DOI: 10.1002/ardp.201400366.

6. Saber-Samandari, S., **Gulcan, H. O.**, Saber-Samandari, S., & Gazi, M. (2014). Efficient removal of anionic and cationic dyes from an aqueous solution using pullulan-graft-polyacrylamide porous hydrogel. *Water, Air, & Soil Pollution*, 225(11), 2177. DOI: 10.1007/s11270-014-2177-5.

5. **Gulcan, H. O.**, Unlu, S., Esiringu, İ., Ercetin, T., Sahin, Y., Oz, D., & Sahin, M. F. (2014). Design, synthesis and biological evaluation of novel 6H-benzo [c] chromen-6-one, and 7, 8, 9, 10-tetrahydro-benzo [c] chromen-6-one derivatives as potential cholinesterase inhibitors. *Bioorganic & medicinal chemistry*, 22(19), 5141-5154. DOI: 10.1016/j.bmc.2014.08.016.
4. **Gulcan, H. O.**, & Duffel, M. W. (2011). Substrate inhibition in human hydroxysteroid sulfotransferase SULT2A1: studies on the formation of catalytically non-productive enzyme complexes. *Archives of biochemistry and biophysics*, 507(2), 232-240. DOI: 10.1016/j.abb.2010.12.027.
3. **Gulcan, H. O.**, Liu, Y., & Duffel, M. W. (2008). Pentachlorophenol and other chlorinated phenols are substrates for human hydroxysteroid sulfotransferase hSULT2A1. *Chemical Research in Toxicology*, 21(8), 1503-1508. DOI: 10.1021/tx800133d.
2. **Gulcan, H. O.**, Kupeli, E., Unlu, S., Yesilada, E., & Sahin, M. F. (2003). 4-(5-Chloro-2 (3H)-benzoxazol-3-yl) Butanoic Acid Derivatives: Synthesis, Antinociceptive and Anti-inflammatory Properties. *Archiv der Pharmazie: An International Journal Pharmaceutical and Medicinal Chemistry*, 336(10), 477-482. DOI: 10.1002/ardp.200300722
1. **Gülcan, H. O.**, Ünlü, S., Banoglu, E., Sahin, M. F., Kupeli, E., & Yesilada, E. (2003). Synthesis of new 4-(5-chloro-2-oxo-3H-benzoxazol-3-yl) butanamide derivatives and their analgesic and anti-inflammatory properties. *Turkish Journal of Chemistry*, 27(4), 467-476.

Research Manuscripts (in refereed national journals in English, either ESCI-WOS or out of WOS)

8. Harati, K., Kiaei, S. M., Amjad, T.M., Nobavar, Z., Shukur, K. T., Mavideniz, A., Ercetin, T., **Gulcan, H. O.** (2023). Synthesis and cholinesterase inhibitory potential of 2-phenoxy-N-substitutedacetamide derivatives. *EMU Journal of Pharmaceutical Sciences*, 6(1), 27-33.
7. Burgaz, E.V., Noshadi, B., & **Gülcan, H. O.** (2023). A novel fluorescent-based HPLC method for determination of urolithins. *Journal of research in pharmacy (online)*, 27(5), 2007-2016 (WOS, ESCI). <http://dx.doi.org/10.29228/jrp.480>
6. Ercetin, T., Safaei, M., & **Gülcan, H. O.** (2022). Investigation of total phenolic and flavonoid content of *Salvia willeana* (Holmboe) Hedge, an endemic plant of Cyprus, and screening of its antioxidant and cholinesterase inhibitory properties. *Journal of research in pharmacy (online)*, 26(2), 263-271 (WOS, ESCI).
5. **Gulcan, H.O.**, Ilktac, M., Noshadi, B., Shukur, K., Gazi, M. (2021) The compound specific antibacterial activities of major urolithins and their methyl ethers. *Journal of the Turkish Chemical Society Section A: Chemistry*, 8(2), 579-584. <https://doi.org/10.18596/jotcsa.861808>.
4. Ercetin, T., Mavideniz, A., Shukur, K.T., Khosravi, A., Riazi, B., Salamati, F., Shahinfar, H., Najjaran, M., Ahmed, M.I., Maher, N., Khajeh, N., Davdar, N.K., Shahinfar, S., **Gulcan, H.O.** (2020). The effects of some organic solvents on the modified Ellman procedure for the assay of cholinesterases, *EMU Journal of Pharmaceutical Sciences*, 3(3), 153-158.
3. Noshadi, B., Ercetin, T., Mavideniz, A., & **Gülcan, H. O.** Investigation of cholinesterase inhibitory potential of chlorinated phenols. *EMU Journal of Pharmaceutical Sciences*, 3(1), 29-34.
2. Mavideniz, A., Fallah, A., Koshravi, F., Ahdno, F., Arter, M., Erçetin, T., Sahin, M.F., **Gülcan, H.O.** (2019). Screening the cholinesterase inhibitory potential of some (1E,4E)-1.5-diphenylpenta-1.4dien-3-one derivatives. *EMU Journal of Pharmaceutical Sciences (ISSN 2651-3587)*, 2(1), 7-12.
1. Sanajou, S., Nourhashemi, S., Fallah, A., Ercetin, T., Sahin, M.F., **Gülcan, H.O.** (2018). The investigation of the interaction of several antipsychotic drugs with human

cholinesterase enzymes. EMU Journal of Pharmaceutical Sciences (ISSN 2651-3587), 1(1), 1-5.

Review Articles (in refereed international journals) (Web of Science, SCI, SCIE)

12. **Gulcan, H. O.**, & Kosar, M. (2022). The Hybrid Compounds as Multi-target Ligands for the Treatment of Alzheimer's Disease: Considerations on Donepezil. *Current Topics in Medicinal Chemistry*, 22(5), 395-407.
11. **Gulcan, H. O.** (2022) Selected Natural and Synthetic Agents Effective against Parkinson's Disease with Diverse Mechanisms, 22(3), 199-208. DOI 10.2174/1568026621666211129141316.
10. Sanches Silva, A., Reboredo-Rodríguez, P., Sanchez-Machado, D.I., López-Cervantes, J., Barreca, D., Pittala, V., Samec, D., Orhan, I.E., **Gulcan, H.O.**, Forbes-Hernandez, T.Y., Battino, M., Nabavi, S.F., Devi, K.P., Nabavi, S.M. (2020) Evaluation of the status quo of polyphenols analysis: Part II-Analysis methods and food processing effects. *Comprehensive reviews in food science and food safety*, 19(6), 3219-3240. doi: 10.1111/1541-4337.12626.
9. **Gulcan, H. O.**, & Orhan, I. E. (2021). Dual monoamine oxidase and cholinesterase Inhibitors with different heterocyclic scaffolds. *Current topics in medicinal chemistry*, Accepted manuscript. <https://doi.org/10.2174/1568026621666210902121148>.
8. **Gulcan, H. O.**, & Orhan, I. E. (2021). Amendatory Effect of Flavonoids in Alzheimer's Disease Against Mitochondrial Dysfunction. *Current Drug Targets*, 22(14), , DOI: 10.2174/1389450122666210120144921.
7. **Gulcan, H. O.**, & Orhan, I. E. (2021) General Perspectives for the Treatment of Atherosclerosis. *Letters in Drug Design & Discovery*, Accepted manuscript, DOI: 10.2174/1570180817999201016154400.
6. **Gulcan, H. O.**, & Orhan, I. E. (2020). A Recent Look into Natural Products that Have Potential to Inhibit Cholinesterases and Monoamine Oxidase B: Update on 2010-2019. *Combinatorial chemistry & high throughput screening*, 23, 862-876. doi: 10.2174/1386207323666200127145246.
5. **Gülcan, H. O.**, & Orhan, I. E. (2020). The Main Targets Involved in Neuroprotection for the Treatment of Alzheimer's Disease and Parkinson Disease. *Current Pharmaceutical Design*, 26, 509-516. DOI: 10.2174/1381612826666200131103524.

4. **Gulcan, H. O.**, Yigitkan, S., & Orhan, I. E. (2019). The Natural Products as Hydroxymethylglutaryl-Coa Reductase Inhibitors. *Letters in Drug Design & Discovery*, 16(10), 1130-1137. DOI: 10.2174/1570180816666181112144353.
3. **Gulcan, H. O.**, Mavideniz, A., Sahin, M. F., & Orhan, I. E. (2019). Benzimidazole-derived Compounds Designed for Different Targets of Alzheimer's Disease. *Current medicinal chemistry*, 26(18), 3260-3278. DOI: 10.2174/0929867326666190124123208.
2. Erdogan Orhan, I., **Ozan Gulcan, H.** (2015). Coumarins: auspicious cholinesterase and monoamine oxidase inhibitors. *Current topics in medicinal chemistry*, 15(17), 1673-1682. DOI: 10.2174/1568026615666150427113103.
1. **O Gulcan, H.**, E Orhan, I., & Sener, B. (2015). Chemical and molecular aspects on interactions of galanthamine and its derivatives with cholinesterases. *Current pharmaceutical biotechnology*, 16(3), 252-258. DOI: 10.2174/1389201015666141202105105.

Review Articles (in refereed national journals in either English or Turkish)

3. Ammar, O. M. A., Ilktac, M., **Gülcan, H. O.** (2019). Urolithins and their antimicrobial activity: A short review. EMU Journal of Pharmaceutical Sciences, 3(2), 117-124.
2. Yuzugulen, J., Noshadi, B., Shukur, K., Sahin, M. F., **Gülcan, H. O.** (2019). The metabolites of ellagitannin metabolism urolithins display various biological activities. EMU Journal of Pharmaceutical Sciences, 2(2), 102-110. (English)
1. **Gülcan, H.O.**, Şahin, M.F. (2015). Türk ilaç sanayinde ilaç hammadesi (API) üretimine dair güncel değerlendirmeler. Turkish Chemical Society Kimya & Sanayi Dergisi (ISSN 2149-0945), 1(2), 42-47. (Turkish)

Patents (international)

3. **Gulcan, H. O.**, Serdar, U. N. L. U., Esiringu, I., Sahin, Y., Ercetin, T., Demet, O. Z., & Sahin, F. (2017). 1-(dimethylamino)ethyl-substituted 6H-benzo[C]chromen-6-ones against senile dementia. U.S. Patent No. 9,586,925. Washington, DC: U.S. Patent and Trademark Office.
2. Reis, Ö., Koyuncu, H., Esiringu, I., Sahin, Y., & **Gulcan, H. O.** (2014). A new method for synthesis of rasagiline. U.S. Patent No. 8,901,352. Washington, DC: U.S. Patent and Trademark Office.
1. Unlu, S., Esiringu, I., Sahin, Y., Ercetin, T., Oz, D., Sahin, F., **Gulcan, H.O.** (2014). 3-substituted-6h-benzo[c]chromen-6-ones and 3-substituted-7,8,9,10-tetrahydro-6h-benzo[c]chromen-6-one's against senile dementia. EP Patent No 2958906A1. European Patent Office.

Patents (National)

7. Sahin, F., Esiringü, I., **Gülcan, H.O.**, Şahin, Y., Ünlü, S., Erçetin, T. (2016). I-(Dimetilamino)etil-substitüe-6H-benzo[c]kromen-6-on. EP2922834B1, TR 2016/13006, Türk Patent ve Marka Kurumu.
6. Reis Ö., **Gülcan, H.O.**, Koyuncu, H., Esiringü, İ., Şahin, Y. (2015). Rasagilin sentezi için yeni bir yöntem. EP2663545B1, TR 2015/11598, Türk Patent ve Marka Kurumu.
5. **Gülcan, H.O.**, Ünlü, S., Esiringü, İ., Şahin, Y. (2013). Omeprazol sentez yöntemi. TR 2013/02069, Türk Patent ve Marka Kurumu.
4. **Gulcan, H. O.**, Serdar, U., Esiringu, I., Sahin, M.F., Ercetin, T., Demet, O. Z., & Sahin, Y. (2013). 3-sübstltüe-6H-benzo[c]kromen-6-on ve 3-sübstltüe-7,8,9,10-tetrahidro-6H-benzo[c]kromen-6-on bileşikleri. TR 2013/02068, Türk Patent ve Marka Kurumu.
3. **Gulcan, H. O.**, Serdar, U., Dimoglo, A., Sahin, Y, Kaktürk, M., Ercetin, T., Demet, O., Dimoglo, N.S., Esiringü, İ. (2012). Naproksen analogu bileşikler ve üretim yöntemi. TR 2012/13785, Türk Patent ve Marka Kurumu.
2. **Gulcan, H. O.**, Serdar, U., Dimoglo, A., Sahin, Y, Kaktürk, M., Ercetin, T., Demet, O., Dimoglo, N.S., Esiringü, İ. (2012). İbuprofen analogu bileşikler ve üretim yöntemi. TR 2012/13784, Türk Patent ve Marka Kurumu.
1. **Gulcan, H. O.**, Serdar, U., Dimoglo, A., Sahin, Y, Kaktürk, M., Ercetin, T., Demet, O., Dimoglo, N.S., Esiringü, İ. (2012). Flurbiprofen analogu bileşikler ve üretim yöntemi. TR 2012/13783, Türk Patent ve Marka Kurumu.

Books and Book Chapters

3. **Gulcan, H O.**, Yuzugulen, J. 'Farmakokinetik ve ilgili konular' 11. Bölüm, Sayfa 162-185, Medisinal Kimya Giriş, Çeviri editörü Öztekin Algül, Ankara Nobel Kitabevi, ISBN: 9786257146821 (Graham L. Patrick orijinal Medicinal Chemistry 6th edition çeviri kitabıdır). (in Turkish, <https://www.ankaranobel.com/medisinal-kimya-on-siparis-urun1115.html>).

2. **Gülcan, H.O.**, Erdoğan, I.E. 'The neurodegenerative characteristics of Alzheimer's Disease and related multi-target drug design studies.' in Pharmaceutical Biocatalysis: Fundamentals, Enzyme Inhibitors, and Enzymes in Health and Diseases (Pan Stanford Series on Biocatalysis) 1st Edition (Editor: Peter Grunwald), pp 473-504; Jenny Stanford Publishing; 1 edition (June 26, 2019), ISBN-10: 9814800619, ISBN-13: 978-9814800617. (in English)

1. **Gülcan, H.O.** 'Pharmaceutical Chemistry' in Highlights in Pharmacy (Eastern Mediterranean University Press) edited by Mustafa Fethi Şahin, pp 101-107 (September 2017); ISBN: 978-605-9595-15-5. (in English)

Research Presentations at Scientific Meetings

23. 'Neurodegenerative Diseases Focusing on AD', , **Gulcan, H. O.**, Invited speaker to the Panel of Eastern Mediterranean University, Faculty of Pharmacy Students Society (entitled Latest trends in Neurodegenerative Diseases), TRNC, Famagutsa, via Mersin 10 Turkey, June, 02, 2023 (Oral Presentation).
22. 'Chemical modifications of urolithins to obtain CNS active molecules', **Gulcan, H. O.**, Invited speaker to the seminar of Yeditepe University, Faculty of Pharmacy, Istanbul, Turkey, March, 10, 2023 (Oral Presentation).
21. 'High-performance liquid chromatographic method development for the identification and quantification of major urolithins and their methyl ether metabolites', Noshadi, B., Burgaz, E.V., **Gulcan, H. O.** Mediterranean International Conference on Research in Applied Sciences, Antalya, Turkey, 22-24 April 2022 (Oral Presentation).
20. 'Treatment of Alzheimer's Disease with Multi-target Ligands', **Gulcan, H.O.**, Invited speaker in international workshop of Consulting & Research Center at Cihan University – Duhok, Iraq, October 28, 2021 (Oral Presentation).
19. '3-Substituted benzo[c]chromen-6-one derivatives as multi-target acting agents against Alzheimer's Disease', **Gulcan, H. O.** 9th Drug Chemistry Conference, April, 08-11, 2021 (Oral Presentation).
18. 'Evaluating the applicability of iron(III)-sensing, fluorescent urolithin derivatives to living-cell imaging in neurodegenerative diseases', Shukur, K. T., **Gülcan, H. O.**, Gazi, M., Kalkan, R., Teralı, K. 31.National Biochemistry Congress, December, 18-20, 2020, Turkey (Poster Presentation).
17. 'Natural and Synthetic Urolithin Analogues as Multi-Target Ligands for the Treatment of Alzheimer's Disease', **Gulcan, H. O.** The Sixth International Mediterranean Symposium on Medicinal and Aromatic Plants MESMAP-6, October 15-17, 2020, İzmir, Turkey (Oral presentation).
16. 'Diverse Biological Actions of Urolithins, the Metabolites of Ellagitannin Metabolism', **Gulcan, H. O.** The Sixth International Mediterranean Symposium on Medicinal and Aromatic Plants MESMAP-6, October 15-17, 2020, İzmir, Turkey (Oral presentation).

15. 'Sugar derived flexible multiporous carbon materials for high-performance supercapacitor' Gazi, M., Fallah, A., Oladipo, A. A., **Gulcan, H. O.**, Cebeci, F. C. 2nd International conference on physical & functional materials, 25-27 June, 2019, Cappadocia, Turkey (Poster Presentation).
14. 'Synthesis and characterization of Urolithin-Grafted Chitosan as a Selective, Fluorescent Probe for Sensing Iron(III) in Aqueous Solution', Pournaki, M., Fallah, A., **Gulcan, H. O.**, Gazi, M. 1st Eurasia Biochemical Approaches & Technologies (EBAT) Congress, October, 27-30, 2018, Antalya, Turkey (Poster presentation).
13. 'The investigation of the interaction of urolithins with cyclooxygenase enzymes', Noshadi, B., Ercetin, T., Gazi, M., **Gulcan, H. O.** 1st Eurasia Biochemical Approaches & Technologies (EBAT) Congress, October, 27-30, 2018, Antalya, Turkey (Poster presentation).
12. 'Urolithin B as a Simple, Selective, Fluorescent Probe for Sensing Iron(III) in Semi-Aqueous Solution', Fallah, A., **Gulcan, H. O.**, Gazi, M. 1st Eurasia Biochemical Approaches & Technologies (EBAT) Congress, October, 27-30, 2018, Antalya, Turkey (Poster presentation).
11. 'A novel porous magnetic chitosan-g-RMF bead for phenol removal from aqueous solution, Heydaripor, J., Gazi, M., **Gulcan, H. O.** 2nd International biomedical engineering congress, May 24-27, 2018, Lefkosa, T.R.N.C., via Mersin 10, Turkey (Oral presentation).
10. 'Antidepressant drug duloxetine removal using chemical cross-linked alginate bead', Ertugruloglu, P., Gazi, M., Ifebajo, A. O., Fallah, A., **Gulcan, H. O.** 2nd International biomedical engineering congress, May 24-27, 2018, Lefkosa, T.R.N.C., via Mersin 10, Turkey (Poster presentation).
9. 'Questioning the N-benzyl group within the aryl-spacer-N-benzyl pharmacophore employed for the design of cholinesterase inhibitor agents', Norouzbahari, M., Burgaz, E. V., Ercetin, T., Fallah, A., Sahin, M. F., Gazi, M., **Gulcan, H. O.** 6th International drug conference, March 22-25, 2018, Antalya, Turkey (Poster presentation).

8. 'A novel magnetic porous resin for removal of phenol from aqueous solution', Gazi, M., Heydaripour, J., **Gulcan, H. O.** 3rd international conference on new trends in chemistry, April 28-30, 2017, Helsinki, Finland (Poster presentation).
7. 'Generic and original drug development studies', **Gulcan, H. O.**, Sahin, M. F. 3rd International drug conference, March 20-22, 2015, Antalya, Turkey (Oral presentation).
6. 'Investigation of the interaction of chlorinated phenols with sulfotransferases', **Gulcan, H. O.**, May 1-4, 2014, Gazimagosa, T.R.N.C., via Mersin 10, Turkey (Oral presentation).
5. Synthetic molecule targets in oral antidiabetics', **Gulcan, H. O.** International cardiometabolic congress of Eastern Mediterranean University, November 5-9, 2014, Gazimagosa, T.R.N.C., via Mersin 10, Turkey (Oral presentation).
4. 'Specificity of human hydroxysteroid sulfotransferase hSULT2A1 for hydroxylated polychlorinated biphenyls', Ekuase, E., Liu, Y., **Gulcan, H. O.**, Lehmler, H. J., Robertson, L. W., Duffel, M. W. 5th PCB Workshop Entitled New Knowledge Gained from old pollutants, May 18-22, 2008, Iowa City, United States of America (Poster presentation).
3. 'Studies on the kinetic mechanism of human hydroxysteroid sulfotransferase hSULT2A1', **Gulcan, H. O.**, Duffel, M. W. 46th Annual Miki Meeting, April 25-27, 2008, Iowa City, United States of America (Oral presentation).
2. 'Studies on the binding of substrates and products to human hydroxysteroid sulfotransferase SULT2A1', **Gulcan, H. O.**, Liu Y., Duffel, M. W. 45th Annual Miki Meeting, April 13-15, 2007, Kansas, United States of America (Poster presentation).
1. 'Synthesis of new 4-(5-chloro-2-benzoxazolone-3-yl)butanamide derivatives and their analgesic and anti-inflammatory activities', **Gulcan, H. O.**, Kupeli, E., Unlu, S., Yesilada, E., Sahin, M. F. 1st International meeting on medicinal and pharmaceutical chemistry IMMPC-1, September 25-28, 2002, Ankara, Turkey (Poster presentation).

Peer Review of Manuscripts For:

Bioorganic Chemistry, Bioorganic and Medicinal Chemistry, Computational and Structural Biotechnology Journal, EMU Journal of Pharmaceutical Sciences, International Journal of Biological Macromolecules, Journal of Molecular Graphics and Modelling, Medicinal Chemistry, Journal of Enzyme Inhibition and Medicinal Chemistry, Letters in Drug Design & Discovery, Turkish Journal of Biochemistry, Current Medicinal Chemistry, DARU Journal of Pharmaceutical Sciences, Turkish Journal of Chemistry, Frontiers in Clinical Drug Research - Alzheimer Disorders, Journal of Food Composition and Analysis, Current Alzheimer Research, Bioorganic & Medicinal Chemistry Reports, Drug Design Development and Therapy, ACTA Pharmaceutica Scientia, Expert Opinion On Therapeutic Patents, Arabian Journal of Chemistry, Reactive and Functional Polymers, Arabian Journal of Chemistry, Frontier in Oncology, Pharmaceuticals, Arabian Journal of Chemistry, Brain Sciences, Chemistry Select, Drug Design Development and Therapy, Journal of Research in Pharmacy, Molecules, Pharmaceutics.

Refereeing in TÜBİTAK *Scientific Review* Panels

ARDEB - ARAŞTIRMA DESTEK PROGRAMLARI BAŞKANLIĞI



[Ana Menü](#)

TÜBİTAK'taki Görevler

Görev Geçmişi						
Başkanlık	İlgili Grup	Kurul Türü	Kurul Adı	Hala görevde mi?	Başlangıç Tarihi / Bitiş Tarihi	
Kayıt bulunamadı.						

Panelistlik/İzleyicilik/Raportörlük Sayısı			
Görev	ARDEB/BİDEB	TEYDEB	Toplam
Hakemlik/Panelistlik/Dış Danışmanlık Sayısı	9	0	9
İzleyicilik/Danışmanlık Sayısı	1	0	1
Raportörlük Sayısı	0	0	0

HONORS AND AWARDS

Citation award for 2022, presented by Eastern Mediterranean University, 15 Dec 2023.

Researcher incentive award for 2022, presented by Eastern Mediterranean University, 15 Dec 2023.

Publication Achievement Award for 2022, presented by Eastern Mediterranean University, 15 Dec 2023.

Citation award for 2021, presented by Eastern Mediterranean University, 01 Dec 2021.

Researcher incentive award for 2021, presented by Eastern Mediterranean University, 01 Dec 2021.

Publication Achievement Award for 2021, presented by Eastern Mediterranean University, 01 Dec 2022.

2020-21 PhD Thesis supervision Award, presented by Eastern Mediterranean University, 07 Jul 2021.

Publication Achievement Award for 2019, presented by Eastern Mediterranean University, 18 Nov 2020.

Researcher incentive award for 2019, presented by Eastern Mediterranean University, 18 Nov 2020.

2020 PhD Thesis supervision Award, presented by Eastern Mediterranean University, 18 Nov 2020.

Researcher incentive award for 2017, presented by Eastern Mediterranean University, 2 Dec 2019.

2018 PhD Thesis supervision Award, presented by Eastern Mediterranean University, 27 Dec 2019.

2003 Service award, presented by Gulhane Military Hospital, Department of Pharmaceutical Sciences, Ankara Turkey.

GRAND SUPPORTS IN SCIENTIFIC PROJECTS

'The evaluation of COX and MAO inhibitory effects of original 3-substituted-6,7,8,9-tetrahydrobenzo[c]chromen-6-one derivatives'

Agency: Eastern Mediterranean University, Research Advisory Board (BAPC-04-20-01)

Principal Investigators (PI): Gulcan, H.O., Shukur, K., Gazi, M.

Role: Contact PI and Project manager

Proposed Period of Support: 15/10/2018 – 15/10/2019

'Screening the potential of urolithins and their metabolites to inhibit Monoamine oxidase enzymes'

Agency: Eastern Mediterranean University, Research Advisory Board (BAPC-04-18-06)

Principal Investigators (PI): Gulcan, H.O., Noshadi, B., Gazi, M.

Role: Contact PI and Project manager

Proposed Period of Support: 15/10/2018 – 15/10/2019

'The design, synthesis, and pre-clinical development of original molecules for the treatment of Alzheimer's Disease'

Agency: TUBITAK, TEYDEB Project (Administration of Technology and Innovation Support Programs) (3100373)

Principal Investigators (PI): Unlu, S., Gulcan, H.O., Sahin, M.F., Ercetin, T., Oz, D., Esiringu, I., Sahin, Y.

Role: Project contributor

Proposed Period of Support: 01/04/2010 – 01/04/2013

'Development of computer-aided new drug molecules'

Agency: TUBITAK, TEYDEB Project (Administration of Technology and Innovation Support Programs) (3080837)

Principal Investigators (PI): Dimoglo, A., Dimoglo, N., Gulcan, H.O., Unlu, S., Sahin, M.F., Ercetin, T., Oz, D.

Role: Project contributor

Proposed Period of Support: 01/03/2009 – 01/02/2012

‘PCBs: Metabolism, Genotoxicity and Gene Expression in Vivo’

Agency: National Institute of Environmental Health Sciences (P42 ES013661)

Project Coordinators: Prof. Michael Duffel and Prof. Larry Robertson

Role: Partially involved in the project to investigate the interaction of chlorinated phenols and some hydroxylated biphenyls with sulfotransferase enzymes.

‘Aryl and Alcohol Sulfotransferases in Drug Metabolism’

Agency: National Institutes of Health (R01 CA038683)

Project Coordinator: Prof. Michael Duffel

Role: Partially involved in the project to investigate the interaction of tamoxifen metabolites with sulfotransferase enzymes.

THESES DIRECTED and COMPLETED

Farid Sattarpour: 2022 / MS (EMU) (Co-advisor)

Thesis title: Removal of phosphate from aqueous solution by chitosan-alginate beads

Karar Shukur: 2021 / PhD (EMU)

Thesis title: Novel urolithin derivative molecules as dual MAO and cholinesterase inhibitor agents

Mehrad Pournaki: 2021 / PhD (EMU) (Co-advisor)

Thesis title: A novel chitosan-based fluorescence chemosensor for elective detecton of Fe(III) ion in acetic acid aqueous medium.

Bahareh Noshadi: 2020 / PhD (EMU)

Thesis title: Interaction of Urolithins and their Metabolites with Cholinesterase Enzymes and the Oxidative Stress Mechanisms

Mariam Norouzbahari: 2018 / PhD (EMU)

Thesis title: Design, Synthesis and Cholinesterase inhibitory potential of 6H-Benzo(C)Chromen-6-one, and 7,8,9,10-Tetrahydro-benzo(c)chromen-6-one Derivatives.

Jalil Heydaripour: 2018 / PhD (EMU) (Co-advisor)

Thesis title: Removal of Phenolic Compounds with Biomass from Aqueous Solution.

Pinar Ertugruloglu: 2018 / MS (EMU)

Thesis Title: Investigation of Interaction of Duloxetine with Alginic Acid Polymers

Zainab Eniola Ojoro: 2015 / MS (EMU) (Co-advisor)

Thesis title: Adsorption of Phenols using Microwave Assisted Activated Carbon Produced from Palm Seeds.

Graduate Dissertation/Degree Examination Committees

Khawla Azalok (135987, PhD, Chemistry, Faculty of Art and Sciences, 02.01.2021, EMU, Mustafa Gazi Advisor)

Emine Erdağ (PhD, Medicinal Chemistry, Faculty of Pharmacy, 10.10.2020, NEU, Banu Kesanlı Advisor)

Amirhossein Fallah (146234, PhD, Chemistry, Faculty of Art and Sciences, 07.09.2020, EMU, Mustafa Gazi Advisor)

Ramona Pasandideh (136056, PhD, Chemistry, Faculty of Art and Sciences, 05.09.2020, EMU, Mustafa Gazi Advisor)

Bahareh Noshadi (146038, PhD, Chemistry, Faculty of Art and Sciences, 28.08.2020, EMU, Ozan Gulcan Advisor)

Ishaku Hamidu Bingong (18500070, MS, Chemistry, Faculty of Art and Sciences, 23.01.2020, EMU, Mustafa Gazi Advisor)

Namık Refik Kerküklü (17500026, MS, Chemistry, Faculty of Art and Sciences, 20.01.2020, EMU, Mustafa Gazi Advisor)

Edith Odinaka Ahaka (15600062, PhD, Chemistry, Faculty of Art and Sciences, 29.11.2019, EMU, Mustafa Gazi Advisor)

Ayodeji Olugbenga Ifebajo (146061, PhD, Chemistry, Faculty of Art and Sciences, 09.09.2019, EMU, Mustafa Gazi Advisor)

Mariam Norouzbahari (116074, PhD, Chemistry/Medicinal Chemistry, Faculty of Art and Sciences, 01.06.2018, EMU, H. O. Gülcan Advisor, Mustafa Gazi Co-advisor)

Jalil Heydaripour (116266, PhD, Chemistry, 2018 EMU, Faculty of Art and Sciences, Mustafa Gazi Advisor, H. O. Gülcan Co-advisor)

Pınar Ertugruloglu (15500715, MS, Chemistry, 2018 EMU, Faculty of Art and Sciences, H. O. Gülcan Advisor, Mustafa Gazi Co-advisor)

Mohammed Mohsen Ahmed Ziyad (MS, Pharmaceutical Technology, 31.08.2018, Faculty of Pharmacy, NearEast University, Lefkosa, Metin Çelik Advisor)

Faisal Mahyoub Saif Farhan (MS, Pharmaceutical Technology, 31.08.2018, Faculty of Pharmacy, NearEast University, Lefkosa, Metin Çelik Advisor)

Mazen Mortgage Hasan Ali Al Mohaya (MS, Pharmaceutical Technology, 31.08.2018, Faculty of Pharmacy, NearEast University, Lefkosa, Metin Çelik Advisor)

Burcu Kılıç (PhD, Pharmaceutical Chemistry, 16.06.2017, Faculty of Pharmacy, Gazi University, Ankara, Deniz Songül Doğruer Advisor)

Mohammed Salih Saleh Ramadhan (145421, PhD, Chemistry, 28.08.2016, EMU, Faculty of Art and Sciences, Mustafa Gazi Advisor)

Mosab Ali Ahmad Abu Reesh (116175, MS, Chemistry, 21.09.2015, EMU, Faculty of Art and Sciences, Mustafa Gazi Advisor)

Zainab Eniola Ojoro (135708, MS, Chemistry, 18.06.2015 EMU, Faculty of Art and Sciences, Mustafa Gazi Advisor, H. O. Gülcan Co-advisor)

Somayeh Tavakolinia (145733, MS, Chemistry, 05.02.2015, EMU, Faculty of Art and Sciences, Mustafa Gazi Advisor, Emine Vildan Burgaz Co-advisor)

Dana Ali Kader (125546, PhD, Chemistry, 07.07.2014, EMU, Faculty of Art and Sciences, Elvan Yılmaz Advisor)

Mustafa Basim M. N. Al Tamimi (115110, MS, Chemistry, 17.05.2013, EMU, Faculty of Art and Sciences, Elvan Yılmaz Advisor)

Mentored Undergraduate Thesis Projects (Completed)

- 33) The chemistry of COMT inhibitors (16701181 Faraz Ghasemzadeh Jan 2023)
- 32) Non-spectral systemic organic compound analysis (16700794 Noor Al-Jamal Jan 2023)
- 31) MTDD approaches in medicinal chemistry (16001576 Çağrı Elkit Jun 2023)
- 30) Beta-adrenergic catecholamine drugs (16700297 Seyedamirreza Nabavi Jan 2023)
- 29) Diverse synthesis applications of profens (17701626 Raha Majidihesar Jun 2023)
- 28) The classification of natural flavonoids and major ones with diverse biological activities (17700926 Shima Babaei Jun 2023)
- 27) Preparation of ibuprofen and its two derivatives and investigation of their biological activities (16700576 Vesal Mohammadian Jan 2022)
- 26) Trends in Antimicrobial drug in the last two decades (16700928 Zahra Salamati Jan 2022)
- 25) Investigation of some novel synthetic compounds on detection and quantification of amyloid fibrils (15701778 Mohsen Tavakoli Jan 2022)
- 24) Dopamine agonists used for the treatment of Parkinson's Disease (16700758 Amirreza Khodestani Apr 2022)
- 23) The design and SAR of triptans (147219 Helina Mohandesi Dec 2022)
- 22) MAO-B inhibitors for the treatment of Parkinson Disease (17700398 Maryam Vahedi Dec 2022)
- 21) Synthesis and antimicrobial activity of 2-(8-methoxy-6-oxo-6H-benzo[c]chromen-3-yloxy)-N-phenylacetamide (15700411 Aylin Deljavan Ghodrati June 2021)
- 20) Synthesis of ethyl 3-chloro-5,6-diphenylpyridazine-4-carboxylate as an intermediate for the synthesis of novel heterocyclic compounds (15700265 Alireza Dehdari January 2021)

- 19) Synthesis and antimicrobial activity of 2-(7,8,9,10-tetrahydro-6-oxo-6H-benzo[c]chromen-3-yloxy)-N-phenylacetamide (15700350 Armineh Deljavan Ghodrati June 2021)
- 18) Investigation of Cholinesterase Inhibitory potential of (1E,4E)-1,5-bis-(4-methoxyphenyl)penta-1,4-dien-3-one for Treatment of Alzheimer`s Disease (148574 Farimah Ahdno January 2020)
- 17) The Medicinal Chemistry of Antihistaminic Drugs (128608 Maram Khalil Diab Al-Sawaeer June 2019)
- 16) Investigation of Cholinesterase Inhibitory Potential of (1E,4E)-1,5-diphenylpenta-1,4-dien-3-ones (123402 Mehmet Arter June 2019)
- 15) Dual Monoamine Oxidase and Cholinesterase Inhibitors (148769 Meer Kako Kareem June 2019)
- 14) The Medicinal Chemistry aspects of Narcotic Analgesics (138823 Fatema Bayasa January 2019)
- 13) Designing Unique Classification for 200 top-selling Pharmaceutical Drugs (130639 Hamdi Tolgahan Altintas January 2019)
- 12) Investigation of Cholinesterase Inhibitory Potential of Some (1E,4E)-1,5-diphenylpenta-1,4-dien-3-one Derivatives (147380, Foroogh Khosravi, June 2018)
- 11) Drugs Acting on Renin Angiotensin System (130648 Nilufer Dilsat Yuksel May 2018)
- 10) Drugs used in the Treatment of Schizophrenia (134631 Bugce Bayram May 2018)
- 9) Non-steroidal Anti-inflammatory Drugs (147636 Tcheuffa Raman Noelle May 2018)
- 8) Anti-diabetic Drugs (137431 Baha` Eldeen M.S. Elwir May 2018)
- 7) Origin and Existance of Antibiotic Resistance in the Environment (127470 Katayon Gheisar June 2017)
- 6) Beta-amyloid cascade as a target in the treatment of Alzheimer`s Disease (138088 Alia Henedi May 2017)

- 5) Synthesizing the N-Benzyl Phenyl Derivative of Aripiprazole to Shift its Biological Effect from the Treatment of Schizophrenia to Alzheimer`s Disease (117546 Manijeh Dehnabi January 2017)
- 4) Modification of Aripiprazole to obtain Cholinesterase Inhibitory Molecules (124699 Safiye Cagansel January 2017)
- 3) Determination of Cholinesterase Inhibition Potential of Antipsychotic Butyrophenones (117689 Shalaleh Nourhashemi January 2017)
- 2) Determination of Cholinesterase Inhibition Potential of Antipsychotic Phenothiazines (117404 Sonia Sanajou January 2017)
- 1) Benzimidazole Derivatives, Therapeutic Uses and Cholinesterase Inhibitory Actions (113843 Acelya Mavideniz June 2016)

Teaching Assignments

Eastern Mediterranean University / Faculty of Pharmacy/ Undergraduate Program

Course Code	Course Name	Semester	Role	Contact Hours	Number of students
CHEM243	Organic Chemistry I	2012-13 Spring	C.C.	48h	53
CHEM243	Organic Chemistry I	2012-13 Summer	C.C.	48h	5
CHEM246	Organic Chemistry II	2012-13 Summer	C.C.	48h	8
CHEM243	Organic Chemistry I	2013-14 Fall	C.C.	48h	69
CHEM246	Organic Chemistry II	2013-14 Fall	C.C.	48h	44
CHEM243	Organic Chemistry I	2013-14 Spring	C.C.	48h	70
CHEM246	Organic Chemistry II	2013-14 Spring	C.C.	48h	62
CHEM243	Organic Chemistry I	2013-14 Summer	C.C.	48h	18
CHEM246	Organic Chemistry II	2013-14 Summer	C.C.	48h	35
PHAR303	Pharmaceutical Chemistry I	2013-14 Summer	C.C.	36h	15
CHEM243	Organic Chemistry I	2014-15 Fall	C.C.	48h	107
CHEM246	Organic Chemistry II	2014-15 Fall	C.C.	48h	49
CHEM243	Organic Chemistry I	2014-15 Spring	C.C.	48h	110
CHEM246	Organic Chemistry II	2014-15 Spring	C.C.	48h	85

CHEM243	Organic Chemistry I	2014-15 Summer	C.C.	48h	16
CHEM246	Organic Chemistry II	2014-15 Summer	C.C.	48h	25
PHAR303	Pharmaceutical Chemistry I	2014-15 Summer	C.C.	36h	8
PHAR303	Pharmaceutical Chemistry I	2014-15 Summer	C.C.	36h	11
CHEM246	Organic Chemistry II	2015-16 Fall	C.C.	48h	96
PHAR304	Pharmaceutical Chemistry II	2015-16 Fall	C.C.	36h	47
PHAR303	Pharmaceutical Chemistry I	2015-16 Spring	C.C.	36h	82
PHAR405	Pharmaceutical Chemistry III	2015-16 Spring	C.C.	36h	51
PHAR303	Pharmaceutical Chemistry I	2016-17 Fall	C.C.	36h	146
PHAR304	Pharmaceutical Chemistry II	2016-17 Fall	C.C.	36h	64
PHAR304	Pharmaceutical Chemistry II	2016-17 Spring	C.C.	36h	127
PHAR405	Pharmaceutical Chemistry III	2016-17 Spring	C.C.	36h	62
PHAR304	Pharmaceutical Chemistry II	2017-18 Fall	C.C.	36h	125
PHAR405	Pharmaceutical Chemistry III	2017-18 Fall	C.C.	36h	83
PHAR406	Pharmaceutical Chemistry IV	2017-18 Fall	C.C.	36h	60
PHAR303	Pharmaceutical Chemistry I	2017-18 Spring	C.C.	36h	110
PHAR304	Pharmaceutical Chemistry II	2017-18 Spring	C.C.	36h	134

PHAR405	Pharmaceutical Chemistry III	2017-18 Spring	C.C.	36h	123
PHAR303	Pharmaceutical Chemistry I	2017-18 Summer	C.C.	36h	27
PHAR304	Pharmaceutical Chemistry II	2017-18 Summer	C.C.	36h	29
PHAR405	Pharmaceutical Chemistry III	2017-18 Summer	C.C.	36h	36
PHAR406	Pharmaceutical Chemistry IV	2017-18 Summer	C.C.	36h	61
PHAR303	Pharmaceutical Chemistry I	2018-19 Fall	C.C.	36h	82
PHAR304	Pharmaceutical Chemistry II	2018-19 Fall	C.C.	36h	71
PHAR405	Pharmaceutical Chemistry III	2018-19 Fall	C.C.	36h	94
PHAR303	Pharmaceutical Chemistry I	2018-19 Spring	C.C.	36h	74
PHAR304	Pharmaceutical Chemistry II	2018-19 Spring	C.C.	36h	74
PHAR405	Pharmaceutical Chemistry III	2018-19 Spring	C.C.	36h	72
PHAR303	Pharmaceutical Chemistry I	2018-19 Summer	C.C.	36h	15
PHAR304	Pharmaceutical Chemistry II	2018-19 Summer	C.C.	36h	20
PHAR405	Pharmaceutical Chemistry III	2018-19 Summer	C.C.	36h	19
PHAR303	Pharmaceutical Chemistry I	2019-20 Fall	C.C.	36h	60
PHAR304	Pharmaceutical Chemistry II	2019-20 Fall	C.C.	36h	60
PHAR405	Pharmaceutical Chemistry III	2019-20 Fall	C.C.	36h	70

PHAR303	Pharmaceutical Chemistry I	2019-20 Spring	C.C.	36h	30
PHAR304	Pharmaceutical Chemistry II	2019-20 Spring	C.C.	36h	52
PHAR405	Pharmaceutical Chemistry III	2019-20 Spring	C.C.	36h	48
PHAR303	Pharmaceutical Chemistry I	2020-21 Fall	C.C.	36h	22
PHAR304	Pharmaceutical Chemistry II	2020-21 Fall	C.C.	36h	75
PHAR405	Pharmaceutical Chemistry III	2020-21 Fall	C.C.	36h	69
PHAR303	Pharmaceutical Chemistry I	2020-21 Spring	C.C.	36h	31
PHAR304	Pharmaceutical Chemistry II	2020-21 Spring	C.C.	36h	52
PHAR405	Pharmaceutical Chemistry III	2020-21 Spring	C.C.	36h	41
PHAR303	Pharmaceutical Chemistry I	2021-22 Fall	C.C.	36h	52
PHAR304	Pharmaceutical Chemistry II	2021-22 Fall	C.C.	36h	42
PHAR405	Pharmaceutical Chemistry III	2021-22 Fall	C.C.	36h	40
PHAR303	Pharmaceutical Chemistry I	2021-22 Spring	C.C.	36h	31
PHAR304	Pharmaceutical Chemistry II	2021-22 Spring	C.C.	36h	52
PHAR405	Pharmaceutical Chemistry III	2021-22 Spring	C.C.	36h	41
PHAR303	Pharmaceutical Chemistry I	2022-23 Fall	C.C.	36h	50
PHAR304	Pharmaceutical Chemistry II	2022-23 Fall	C.C.	36h	24

PHAR405	Pharmaceutical Chemistry III	2022-23 Fall	C.C.	36h	58
PHAR303	Pharmaceutical Chemistry I	2022-23 Spring	C.C.	36h	22
PHAR304	Pharmaceutical Chemistry II	2022-23 Spring	C.C.	36h	47
PHAR405	Pharmaceutical Chemistry III	2022-23 Spring	C.C.	36h	33
PHAR303	Pharmaceutical Chemistry I	2023-24 Fall	C.C.	36h	47
PHAR304	Pharmaceutical Chemistry II	2022-23 Fall	C.C.	36h	23
PHAR405	Pharmaceutical Chemistry III	2022-23 Fall	C.C.	36h	36

CC: Course coordinator (Instructor)

**Eastern Mediterranean University / Faculty of Art and Sciences Chemistry Department/
PhD Program**

Course Code	Course Name	Semester	Role	Contact Hours	Number of students
PHAR562	The Chemistry of Xenobiotic Activity in Human	2013-14 Spring	C.C.	36h	4

Yeditepe University / Faculty of Pharmacy Pharmaceutical Chemistry Department/ PhD Program

Course Code	Course Name	Semester	Role	Contact Hours	Number of students
PMC609	Drug Biotransformations and Organic Biosynthesis	2022-23 Fall	C.C.	36h	3
PMC702	Drug Design	2022-23 Spring	C.C.	36h	3

Course Books Prepared

Organic Chemistry I, II and Pharmaceutical Chemistry I Laboratory Practices, written by H. Ozan Gulcan, edited by H. Ozan Gulcan, co-edited by M. Fethi Sahin.

Pharmaceutical Chemistry II Laboratory Practices (Chromatography in Pharmaceutical Analysis), written by H. Ozan Gulcan, edited by H. Ozan Gulcan, co-edited by M. Fethi Sahin.

Pharmaceutical Chemistry III Laboratory Practices (Spectroscopy and Systemic substance analysis), written by H. Ozan Gulcan, edited by H. Ozan Gulcan, co-edited by M. Fethi Sahin.