

CURRICULUM VITAE

Basic Information: _____

Name: Hamdy Mohamed Mohamed Abdel-Rahman

Address: Badr University in Assiut and Assiut university –Faculty of Pharmacy, Assiut 71526

Mobile: +201094374607

Email: hamdym@aun.edu.eg , Hamdym01@yahoo.com

Google Scholar: <https://scholar.google.com.eg/citations?user=WvStE2EAAAAJ&hl=en&oi=ao>



Professional Experience: _____

- **Sept. 2022- now** **Dean**, Faculty of Pharmacy, Badr University in Assiut, (BUA)
- **Aug. 2018-Aug. 2022** **Dean**, Faculty of Pharmacy, Nahda University Beni-Suef, (NUB)
- **Feb 2016-2018** **Professor, vice-dean**, Faculty of Pharmacy, Nahda University Beni-Suef, (NUB)
- **Feb 2014-2016** **Professor, Head of Medicinal Chemistry Dept.**, Faculty of Pharmacy, Nahda University Beni-Suef, Egypt
- **April. 2012-Now** **Professor**, Department of Medicinal Chemistry, Faculty of Pharmacy, Assiut University, Egypt
- **Sept. 2006-March 2012** **Associate Professor**, Department of Medicinal Chemistry, Faculty of Pharmacy, Assiut University, Egypt.
- **Oct. 2006-July 2009** **Research Fellow**, Institute of Cancer Therapeutics, University of Bradford, Bradford, West Yorkshire, UK, with teaching duties as lecturer in 2008-2009
- **Sept. 1999-Sept. 2006** **Lecturer**, Department of Pharmaceutical Medicinal Chemistry, Faculty of Pharmacy, Assiut University, Egypt.
- **Oct. 2002-Oct. 2004:** **Post-doctoral** research fellow, Kyoto Pharmaceutical University, Japan.
- **July 1996-March 1999:** **Research fellow**, Kyoto Pharmaceutical University, Japan
- **Jan. 1996-Aug. 1999:** **Assistant lecturer**, Faculty of Pharmacy, Assiut University, Egypt.
- **1991-1995:** **Demonstrator**, Faculty of Pharmacy, Assiut University, Egypt.

Education : _____

- August 1999: Ph.D.** in Pharmaceutical Sciences (Pharmaceutical Medicinal Chemistry),
Faculty of Pharmacy, Assiut University, Egypt, in a joint supervision system with Kyoto
Pharmaceutical University, Kyoto, Japan
- Dec. 1995: M.Sc.** in Pharmaceutical Sciences (Pharmaceutical Medicinal Chemistry), Faculty of
Pharmacy, Assiut University, Egypt.
- May 1989: B.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, Assiut University, Egypt.

Publications _____

- 1) Shaker, A. M., Shahin, M. I., AboulMagd, A. M., Aleem, S. A. A., Abdel-Rahman, H. M., & Abou El Ella, D. A. (2022). Novel 1, 3-diaryl pyrazole derivatives bearing methylsulfonyl moiety: Design, synthesis, molecular docking and dynamics, with dual activities as anti-inflammatory and anticancer agents through selectively targeting COX-2. *Bioorganic Chemistry*, 129, 106143.
- 2) Ismael, A. S., Amin, N. H., Elsaadi, M. T., Ali, M. R., & Abdel-Rahman, H. M. (2022). Design, synthesis and biological evaluation of new imidazo [1, 2-a] pyridine derivatives as selective COX-2 inhibitors. *Journal of Molecular Structure*, 1250, 131652.
- 3) Abd El-Aleam, R. H., Sayed, A. M., Taha, M. N., George, R. F., Georgey, H. H., & Abdel-Rahman, H. M. (2022). Design and synthesis of novel benzimidazole derivatives as potential Pseudomonas aeruginosa anti-biofilm agents inhibiting LasR: Evidence from comprehensive molecular dynamics simulation and in vitro investigation. *European Journal of Medicinal Chemistry*, 241, 114629.
- 4) Heba S. Mohamed, Noha H. Amin, Mohammed T. El-Saadi, and Hamdy M. Abdel-Rahman. "Design, synthesis, biological assessment, and in-Silico studies of 1, 2, 4-triazolo [1, 5-a] pyrimidine derivatives as tubulin polymerization inhibitors." *Bioorganic Chemistry* (2022): 105687.
- 5) Ahmed S. Ismael, Noha H. Amin, Mohammed T. Elsaadi, Mohammed RA Ali, and Hamdy M. Abdel-Rahman. "Design, synthesis and biological evaluation of new imidazo [1, 2-a] pyridine derivatives as selective COX-2 inhibitors." *Journal of Molecular Structure* (2022), 1250, 131652.
- 6) Rehab H. Abd El-Aleam, Rehab H., Riham F. George, Hanan H. Georgey, and Hamdy M. Abdel-Rahman. "Bacterial virulence factors: a target for heterocyclic compounds to combat bacterial resistance." *RSC Advances* (2021), 11, 36459-36482.

- 7) Amin, Noha H., Mohamed T. El-Saadi, Ahmed A. Ibrahim, and Hamdy M. Abdel-Rahman. "Design, synthesis and mechanistic study of new 1, 2, 4-triazole derivatives as antimicrobial agents." *Bioorganic chemistry* (2021), 111, 104841.
- 8) Badawy, Mohamed AS, Eman KA Abdelall, EL-Nahass EL-Shaymaa, Khaled RA Abdellatif, and Hamdy M. Abdel-Rahman. "Design, synthesis, biological assessment and in silico ADME prediction of new 2-(4-(methylsulfonyl) phenyl) benzimidazoles as selective cyclooxygenase-2 inhibitors." *RSC Advances* (2021), 11, 27659-27673.
- 9) Hend A.A. Abd El-Wahab, Ahmed M. Ali, Hamdy M. Abdel-Rahman, and Wesam S. Qayed. "Synthesis, biological evaluation, and molecular modeling studies of acetophenones-tethered 1, 2, 4-triazoles and their oximes as epidermal growth factor receptor inhibitors." *Chemical biology & drug design* (2021).
- 10) Asmaa M. AboulMagd, Nada S. Abdelwahab, Maha M. Abdelrahman, Hamdy M. Abdel-Rahman, and Nehal F. Farid. "Lipophilicity study of different cephalosporins: Computational prediction of minimum inhibitory concentration using salting-out chromatography." *Journal of Pharmaceutical and Biomedical Analysis* (2021), 206, 114358.
- 11) Ibrahim A. Darwish, Nasr Y. Khalil, Nawaf A. Alsaif, Rashed N. Herqash, Ahmed YA Sayed, and Hamdy M. Abdel-Rahman. "Charge-Transfer Complex of Linifanib with 2, 3-dichloro-3, 5-dicyano-1, 4-benzoquinone: Synthesis, Spectroscopic Characterization, Computational Molecular Modelling and Application in the Development of Novel 96-microwell Spectrophotometric Assay." *Drug design, development and therapy* (2021), 15, 1167.
- 12) Amin, Noha H. Amin, Mohammed T. Elsaadi, Shima S. Zaki, and Hamdy M. Abdel-Rahman. "Design, synthesis and molecular modeling studies of 2-styrylquinazoline derivatives as EGFR inhibitors and apoptosis inducers." *Bioorganic Chemistry* (2020), 105, 104358.
- 13) Martha M. Morcoss, El Shima Abdelhafez, Reham A. Ibrahim, Hamdy M. Abdel-Rahman, Mohamed Abdel-Aziz, and Dalal A. Abou El-Ella. "Design, Synthesis, Mechanistic Studies and In Silico ADME predictions of Benzimidazole derivatives as Novel Antifungal Agents." *Bioorganic Chemistry* (2020) 101, 103956.
- 14) Rehab H. Abd El-Aleam, Riham F. George, Ghaneya S. Hassan, and Hamdy M. Abdel-Rahman. "Synthesis of 1, 2, 4-triazolo [1, 5-a] pyrimidine derivatives: Antimicrobial activity, DNA Gyrase inhibition and molecular docking." *Bioorganic Chemistry* (2020) 94, 103411.

- 15) Mostafa Mansour, Mohammed T. El-Saadi, Noha H. Amin, Joshua Canzoneri, Adam Keeton, Gary Piazza, and Hamdy Abdel-Rahman. "Quinazolinone-Schiff's Base hybrids as Phosphodiesterase 4B inhibitors with dual activity against COPD and Lung Cancer." *Egyptian Journal of Chemistry* (2020) 63.
- 16) Asmaa AboulMagd, Hossam M. Hassan, Ahmed M. Sayed, Usama Ramadan Abdelmohsen, and Hamdy M. Abdel-Rahman. "Saccharomonosporine A inspiration; synthesis of potent analogues as potential PIM kinase inhibitors." *RSC Advances* (2020) 10, 6752-6762.
- 17) Asmaa AboulMagd, Nahed Eid, Ahmed Korany, Osama Elgendy, and Hamdy Abdel-Rahman. "Synthesis, Antimicrobial and Molecular Modeling Studies of Some Benzophenone-based Thiazole and 4-Thiazolidinone Derivatives." *Egyptian Journal of Chemistry* (2020) 63.
- 18) Ahmed Shaker, Eman KA Abdelall, Khaled RA Abdellatif, and Hamdy M. Abdel-Rahman. "Synthesis and biological evaluation of 2-(4-methylsulfonyl phenyl) indole derivatives: multi-target compounds with dual antimicrobial and anti-inflammatory activities." *BMC chemistry* 14 (2020) 14, 1-15.
- 19) Martha Morcoss, El Shimaa Abdelhafez, Hamdy M. Abdel-Rahman, Mohamed Abdel-Aziz, Abou El-Ella, and A. Dalal. "Novel Benzimidazole/Hydrazone Derivatives as Promising Anticancer Lead Compounds: Design, Synthesis, and Molecular Docking Study." *Journal of advanced Biomedical and Pharmaceutical Sciences* (2020) 3, 45-52.
- 20) Mohammed T. El-Saadi, Noha H. Amin, Shimaa S. Zaki, Hamdy M. Abdel-Rahman. "Synthesis, molecular docking and biological evaluation of 2, 4 disubstituted quinazolines with multi-target activities as anti-cancer and antimicrobial agents." *Egyptian Journal of Chemistry* (2020) 63.
- 21) Michel Y. Fares, Nada S. Abdelwahab, Maha M. Abdelrahman, and Hamdy M. Abdel-Rahman. "Determination of sofosbuvir with two co-administered drugs; paracetamol and DL-methionine by two chromatographic methods. Application to a pharmacokinetic study." *Bioanalysis* (2019) 11, 349-364.
- 22) Rehab H Abd El-Aleam, Riham F. George, Kevin J. Lee, Adam B. Keeton, Gary A. Piazza, Amr A. Kamel, Mahmoud E. El-Daly, Ghaneya S. Hassan, and Hamdy M. Abdel-Rahman. "Design and synthesis of 1, 2, 4-triazolo [1, 5-a] pyrimidine derivatives as PDE 4B inhibitors endowed with bronchodilator activity." *Archiv der Pharmazie* (2019) 352, 1900002.
- 23) Hany El-Sherief, Bahaa GM Youssif, Ahmed H. Abdelazeem, Mohamed Abdel-Aziz, and Hamdy M. Abdel-Rahman. "Design, Synthesis and Antiproliferative Evaluation of Novel 1, 2, 4-Triazole/Schiff Base Hybrids with EGFR and B-RAF Inhibitory Activities." *Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents)* (2019) 19, 697-706.

- 24) Ahmed M. Shaker, , E. K. Abdelall, K. R. Abdellatif, and Hamdy M. Abdel-Rahman. "Design, synthesis, and biological evaluation of 2-(4-(methylsulfonyl) phenyl) indole derivatives with promising COX-2 inhibitory activity." *Journal of Applied Pharmaceutical Science* (2018) 8, 001-008.
- 25) Hany AM El-Sherief, Bahaa GM Youssif, Syed Nasir Abbas Bukhari, Ahmed H. Abdelazeem, Mohamed Abdel-Aziz, and Hamdy M. Abdel-Rahman. "Synthesis, anticancer activity and molecular modeling studies of 1, 2, 4-triazole derivatives as EGFR inhibitors." *European Journal of Medicinal Chemistry* (2018) 165, 774-789.
- 26) Alexander Richard, Hamdy M. Abdel-Rahman, Jung Hyun Kim, Lana Vukadin, Gary A. Piazza, and Eun-Young E. Ahn. "A novel quinazolin-4 (3H)-one/Schiff base hybrid phosphodiesterase 4 inhibitor as a potential therapeutic agent for leukemia." *Cancer Research* (2018) 891-891.
- 27) Azza H. Rageh, Noha N. Atia, and Hamdy M. Abdel-Rahman. "Application of salting-out thin layer chromatography in computational prediction of minimum inhibitory concentration and blood-brain barrier penetration of some selected fluoroquinolones." *Journal of Pharmaceutical and Biomedical Analysis* (2018) 159, 363-373.
- 28) Hend AA Abd El-wahab, Mauro Accietto, Leonardo B. Marino, Kirsty J. McLean, Colin W. Levy, Hamdy M. Abdel-Rahman, Mahmoud A. El-Gendy, Andrew W. Munro, Ahmed S. Aboraia, and Claire Simons. "Design, synthesis and evaluation against Mycobacterium tuberculosis of azole piperazine derivatives as dicyclotyrosine (cYY) mimics." *Bioorganic & medicinal chemistry* (2018) 26(1), 161-176.
- 29) Hany AM El-Sherief, Bahaa GM Youssif, Syed Nasir Abbas Bukhari, Mohamed Abdel-Aziz, and Hamdy M. Abdel-Rahman. "Novel 1, 2, 4-triazole derivatives as potential anticancer agents: Design, synthesis, molecular docking and mechanistic studies." *Bioorganic chemistry* (2018) 76, 314-325.
- 30) Hany AM El-Sherief, Mohamed Abdel-Aziz, and Hamdy M. Abdel-Rahman. "Synthesis of 1, 2, 4-triazole derivatives and evaluation of their antioxidant activity." *Journal of Advanced Biomedical and Pharmaceutical Sciences* (2018) 1, 1-5
- 31) Azza H. Rageh, Noha N. Atia, and Hamdy M. Abdel-Rahman. "Lipophilicity estimation of statins as a decisive physicochemical parameter for their hepato-selectivity using reversed-phase thin layer chromatography." *Journal of pharmaceutical and biomedical analysis* (2017) 142, 7-14.
- 32) Maha M. Abdelrahman, Nada S. Abdelwahab, Hamdy M. Abdel-Rahman, and Michel Y. Fares. "Different Spectrophotometric Methods for Quantitative Determination of Bzotropine Mesylate in Presence of Its Carcinogenic Degradation Product." *Analytical Chemistry Letters* (2017) 7(3), 356-368.

- 33) Michel Yousry Fares, Maha Mohamed Abdelrahman, Hamdy Mohamed Abdel-Rahman, and Nada Sayed Abdelwahab. "Development and validation of different spectrophotometric and chromatographic methods for determination of clotrimazole and hydrocortisone in a topical cream." *European Journal of Chemistry* (2017) 8(4), 371-377.
- 34) Michel Y. Fares, Michel Y., Nada S. Abdelwahab, Maha M. Abdelrahman, and Hamdy M. Abdel-Rahman. "Stability-Indicating UPLC and TLC-Densitometric Methods for Determination of Benzotropine Mesylate and Its Carcinogenic Degradation Product." *Journal of chromatographic science* (2017) 55(9), 961-968.
- 35) J. T. Mague, S. K. Mohamed, M. Akkurt, A. A. Marzouk, H. M. Abdel-Rahman, and F. E. Hawaiz. "4-Cyclohexyl-3-[(3, 5-dimethyl-1H-pyrazol-1-yl) methyl]-4, 5-dihydro-1H-1, 2, 4-triazole-5-thione." *IUCrData* (2017) 2(1), 170020.
- 36) J. T. Mague, S. K. Mohamed, M. Akkurt, A. A. Marzouk, F. E. Hawaiz, and H. M. Abdel-Rahman. "3-[(3, 5-Dimethyl-1H-pyrazol-1-yl) methyl]-4-(4-methylphenyl)-4, 5-dihydro-1H-1, 2, 4-triazole-5-thione." *IUCrData* (2017) 2(2), 170153.
- 37) J. T. Mague, S. K. Mohamed, M. Akkurt, A. A. Marzouk, F. E. Hawaiz, and H. M. Abdel-Rahman. "5-[[5-(4-Chlorophenyl)-3-methyl-1H-pyrazol-1-yl] methyl]-1, 3, 4-oxadiazole-2 (3H)-thione." *IUCrData* (2017) 2(2), 170176.
- 38) J. T. Mague, S. K. Mohamed, M. Akkurt, A. A. Marzouk, H. M. Abdel-Rahman, and F. E. Hawaiz. "4-(3-Methylphenyl)-3-[(3-methyl-5-phenyl-1H-pyrazol-1-yl) methyl]-4, 5-dihydro-1H-1, 2, 4-triazole-5-thione." *IUCrData* (2017) 2(2), 170184.
- 39) Sahar Ahmed, Mohamed F. Zayed, Shahenda M. El-Messery, Mohamed H. Al-Agamy, and Hamdy M. Abdel-Rahman. "Design, Synthesis, Antimicrobial Evaluation and Molecular Modeling Study of 1, 2, 4-Triazole-Based 4-Thiazolidinones." *Molecules* (2016) 21(5), 568.
- 40) Hend AA Abd El-wahab, Ahmed S. Aboraia, Hamdy M. Abdel-Rahman, Mahmoud A. El-Gendy, and Claire Simons. "Mycobacterial CYP121 as a target for anti-TB drug discovery" *Der Pharma Chemica* (2016), 8(6), 179-188.
- 41) Hamdy M. Abdel-Rahman, Mohamed. Abdel-Aziz, Heather Tinsley, Bernard D. Gary, Joshua C. Canzoneri, and Gary A. Piazza "Design and Synthesis of Substituted Pyridazinone-1-Acetylhydrazones as Novel Phosphodiesterase 4 Inhibitors " *Archiv der Pharmazie* (2016) 349, 104-111.

- 42) Sherine N. Khattab, Nesreen S. Haiba, Ahmed M. Asal, Adnan A. Bekhit, Adel Amer, Hamdy M. Abdel-Rahman and Ayman El-Faham. "Synthesis and Evaluation of Quinazoline Amino Acid Derivatives as Mono Amine Oxidase (Mao) Inhibitors." *Bioorganic & Medicinal Chemistry*, (2015) 23, 3574-3585 .
- 43) Wesam S. Qayed, Ahmed S. Aboraia, Hamdy M. Abdel-Rahman, & Adel F. Youssef, "Annonaceous Acetogenins as a new anticancer agent". *Der Pharma Chemica* (2015), 7, 24-35.
- 44) Nourah Z. Alzoman, Jamilah M. Alshehri, Ibrahim A. Darwish, Nasr Y. Khalil and Hamdy M. Abdel-Rahman. "Charge-Transfer Reaction of 2,3-Dichloro-1,4-Naphthoquinone with Crizotinib: Spectrophotometric Study, Computational Molecular Modeling and Use in Development of Microwell Assay for Crizotinib" *Saudi Pharmaceutical Journal* (2015), 23, 75-84.
- 45) Hamdy M. Abdel-Rahman, Mohamed. Abdel-Aziz, Joshua C. Canzoneri, Bernard D. Gary, and Gary A. Piazza "Novel Quinazolin-4 (3H)-one/Schiff Base Hybrids as Antiproliferative and Phosphodiesterase 4 Inhibitors: Design, Synthesis, and Docking Studies" *Archiv der Pharmazie* (2014) 347, 650-657.
- 46) Ibrahim A. Darwish, Jamila M, Alshehri, Norah Z. Alzoman, Nasr Y. Khalil, and Hamdy M. Abdel-Rahman, "Charge-transfer reaction of 1, 4-benzoquinone with crizotinib: Spectrophotometric study, computational molecular modeling and use in development of microwell assay for crizotinib" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* (2014) 131, 347-354.
- 47) Ibrahim A. Darwish, Jamila M, Alshehri, Norah Z. Alzoman, Nasr Y. Khalil, and Hamdy M. Abdel-Rahman, "Charge-Transfer Reaction of Chloranilic Acid with Crizotinib: Spectrophotometric Study, Computational Modeling and Use in Development of Microwell Assay for Crizotinib" *Journal of Solution Chemistry* (2014) 43(7), 1282-1295.
- 48) Ibrahim A. Darwish, Tanweer A. Wani, Nasr Y. Khalil and Hamdy M. Abdel-Rahman "High throughput microwell spectrophotometric assay for olmesartan medoxomil in tablets based on its charge-transfer reaction with DDQ" *Acta Pharmaceutica* (2014) 64(1), 63-75.
- 49) Laura Cosentino, Mariano Redondo-Horcajo, Ying Zhao, Ana Rita Santos, Kaniz F. Chowdury, Victoria Vinader, Qasem M. A. Abdallah, Hamdy Abdel-Rahman, Jérémie Fournier-Dit-Chabert, Steven D. Shnyder, Paul M. Loadman, Wei-shuo Fang, José Fernando Díaz, Isabel Barasoain, Philip A. Burns, Klaus Pors "Synthesis and Biological Evaluation of Colchicine B-Ring Analogues Tethered with Halogenated Benzyl Moieties" *Journal of Medicinal Chemistry* (2012) 55 (24), 11062-11066.
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- Loadman, Steven D. Shnyder, José Fernando Diaz, Isabel Barasoain, Robert A. Falconer, Klaus Pors. "Synthesis and Biological Evaluation of Colchicine C-Ring Analogues Tethered with Aliphatic Linkers Suitable for Prodrug Derivatisation." *Bioorganic & Medicinal Chemistry Letters* (2012) 22, 7693-7696.
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- 56) Hend A. A. Abd El-wahab, Hamdy M. Abdel-Rahman, Gamal-Eldin S. Alkaramany, Mahmoud A. El-Gendy "Synthesis, biological evaluation and molecular modeling study of substituted 1,2,4-triazole-3-acetic acid derivatives" *Der Pharma Chemica*, (2011) 3 (6), 540-552.
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- 59) Koushi Hidaka, Tooru Kimura, Hamdy M. Abdel-Rahman, Jeffrey-Tri Nguyen, Keith F. McDaniel, William E. Kohlbrenner, Akhteruzzaman Molla, Motoyasu Adachi, Taro Tamada, Ryota Kuroki, Noriko

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- 60) Adnan A. Bekhit, Hayam M.A. Ashour, Alaa El-Din A. Bekhit, Hamdy M. Abdel-Rahman & Salma A. Bekhit, "Synthesis of some pyrazolylbenzenesulfonamide derivatives as anti-inflammatory antimicrobial agents, *J. Enzyme Inhibition and Medicinal Chemistry* (2009), 24, 296-309.
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