

Curriculum Vitae

Name: Moataz Ahmed Ibrahim Shaldam

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Personal information:

Academic position: Assistant Professor of Pharmaceutical Chemistry, Faculty of Pharmacy, Kafrelsheikh University, Kafr El-Sheikh, Egypt.

Date of birth: October 7, 1986.

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Qualification:

- PhD in pharmaceutical chemistry, Faculty of pharmacy, Kafrelsheikh University “*Design, Synthesis, and Biological Evaluation of Novel Series of Benzenesulfonamide Derivatives as Potential Carbonic Anhydrase Inhibitors*” (10/2019-11/2021).
- Master in pharmaceutical chemistry, Faculty of pharmacy, Tanta University “*Design, Synthesis, Pharmacological Activity Study and Computer-Aided Design of New 1,4-Dihydropyridines as Potential Calcium Antagonists*” (9/2014).
- Bachelor of pharmaceutical science, Faculty of pharmacy, Tanta University, Excellent, honor degree (5/2008) (rank 16th out of 900 students) (86.4%).

Professional Experience:

- Assistant Professor of Pharmaceutical Chemistry, Faculty of Pharmacy, Kafrelsheikh University, Egypt (12/2021).
- Assistant Lecturer of Pharmaceutical Chemistry, Faculty of Pharmacy, Kafrelsheikh University, Egypt (5/2018-12/2021).
- Assistant Lecturer of Pharmaceutical Chemistry, College of Pharmacy, Delta University for Science and Technology, Egypt (9/2014-5/2018).
- Methodology Senior Analyst, Research and Development Sector, Sigma Pharmaceutical Ind. Egypt (5/2009 –8/2014).

Conferences:

- The 1st International Conference of the faculty of pharmacy, Delta university for Science and Technology , Egypt (20-21 November 2021).
- The 14th International Conference on Information (ICI¹⁴), Delta university for Science and Technology , Egypt, 7-8 November 2015.
- The 3rd FUE International Conference of Pharmaceutical Science, Cairo, Egypt, 9-11 February 2015.
- The 17th Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World, Faculty of pharmacy, Ain-Shams University, Cairo, Egypt, 16 October 2014.
- International Conference on Pharmaceutical Technologies in Future University, Egypt. (Feb 6-9, 2012).

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Workshops:

- “Purification Using Flash Column Chromatography” training and workshop at Faculty of Pharmacy, Kafrelsheikh University, Kafrelsheikh, Egypt. (Nov 27, 2022).
- 5th Computer-Assisted Drug Design Workshop (5th CADD-W), Faculty of Pharmacy – Kafrelsheikh University, Kafrelsheikh, Egypt. (Oct. 26 & 27, 2022),
- 4th Computer-Assisted Drug Design Workshop (4th CADD-W), Faculty of Pharmacy – Kafrelsheikh University, Kafrelsheikh, Egypt. (Nov. 6 & 07, 2021),
- 3rd Computer-Assisted Drug Design Workshop (3rd CADD-W), Faculty of Pharmacy, Kafrelsheikh University, Kafrelsheikh, Egypt. (Sep. 16 & 18, 2019).
- “Flash Column Chromatography: Purification using Puriflash” training and workshop at Faculty of Pharmacy, Kafrelsheikh University, August 9, 2018, Kafrelsheikh, Egypt.
- 2nd Computer-Assisted Drug Design Workshop (2nd CADD-W), Faculty of Pharmacy, Kafrelsheikh University, Kafrelsheikh, Egypt. (July 2 & 4, 2018).
- Pharmaceutical Training Program of Stability from Pharma Mix, Cairo City. (Sep, 2011).
- Dissolution and biowaiver studies from Cairo University (Jul, 2011 to Aug, 2011).
- Analytical method development and validation course from Pharmex Consulting Groups, Cairo City (October, 2010)
- GMP course from Pharmex Consulting Groups, Cairo City (Oct, 2010).
- Sanitation & Hygiene Course from Pharmex Consulting Groups, Cairo City (Jun, 2010)
- SOP, Documentation, Performance Course from Pharmex Consulting Groups, Cairo City (Jun, 2009).
- Sigma Pharmaceutical Inds. (Jul, 2008).
- First aids from The Red Helal Hospital in Tanta (Apr, 2008).
- ICDL from Monofia University Computer Center (Feb, 2008).

Awards

- Award of the Kafrelsheikh University for International Publishing, 2022.
- Award of the Kafrelsheikh University for International Publishing, 2021.
- Award of the Kafrelsheikh University for International Publishing, 2020.
- Award of the Kafrelsheikh University for International Publishing, 2019.

Publications:

✓ First author articles:

- **Shaldam M.A.**, Hendrychová D., Al-Warhi T., Vojáčková V., Kryštof V., Tawfik H.O., Eldehna W.M.(2023) “*2,4-Diaryl-pyrimido[1,2-a]benzimidazole derivatives as novel anticancer agents endowed with potent anti-leukemia activity: Synthesis, biological evaluation and kinase profiling*” European Journal of Medicinal Chemistry 258, 115610.
- **Shaldam M.A.**, Hadia Almahli, Andrea Angeli, Rehab Mustafa Badi, Eman F Khaleel, Abdelrahman I Zain-Alabdeen, Zainab M Elsayed, Eslam B Elkaeed, Rofaida Salem, Claudiu T Supuran, Wagdy M Eldehna, Haytham O Tawfik (2023) “*Discovery of sulfonamide-tethered isatin derivatives as*

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novel anticancer agents and VEGFR-2 inhibitors” Journal of Enzyme Inhibition and Medicinal Chemistry 38(1), 2203389.

- **Shaldam M.**, Tawfik H., Elmansi H., Belal F., Yamaguchi K., Sugiura M., Magdy G. (2022) “*Synthesis, crystallographic, DNA binding, and molecular docking/dynamic studies of a privileged chalcone-sulfonamide hybrid scaffold as a promising anticancer agent*” Journal of Biomolecular Structure and Dynamics 1-11, Doi: 10.1080/07391102.2023.2202776.
- **Shaldam M.A.**, Wagdy M Eldehna, Alessio Nocentini, Zainab M Elsayed, Tamer M Ibrahim, Rofaida Salem, Ramadan A El-Domany, Clemente Capasso, Hatem A Abdel-Aziz, Claudiu T Supuran (2021)“*Development of novel benzofuran-based SLC-0111 analogs as selective cancer-associated carbonic anhydrase isoform IX inhibitors*” European Journal of Medicinal Chemistry 216, 113283
- **Shaldam M.A.**, Alessio Nocentini, Zainab M Elsayed, Tamer M Ibrahim, Rofaida Salem, Ramadan A El-Domany, Clemente Capasso, Claudiu T Supuran, Wagdy M Eldehna (2021) “*Development of Novel Quinoline-Based Sulfonamides as Selective Cancer-Associated Carbonic Anhydrase Isoform IX Inhibitors*” International journal of molecular sciences 22 (20), 11119
- **Shaldam M.A.**, Galal Yahya, Nashwa H Mohamed, Mohamed M Abdel-Daim, Yahya Al Naggar (2021) “*In silico screening of potent bioactive compounds from honeybee products against COVID-19 target enzymes*” Environmental Science and Pollution Research, 1-8.
- **Shaldam M.A.**, Mervat H. El-Hamamsy, Dalia O. Saleh, Tarek F. El-Moselhy (2016) “*Synthesis, Evaluation of Pharmacological activity and Molecular Docking of 1,4-Dihydropyridines as Calcium Antagonists*” Chem. Pharm. Bull. 64, 297–304.
- **Shaldam M.A.**, Mervat El-Hamamsy, Eman Esmat, and Tarek El-Moselhy. (2014) “*1,4-Dihydropyridine Calcium Channel Blockers: Homology Modeling of The Receptor and Assessment of Structure Activity Relationship*” ISRN Medicinal Chemistry, Volume 2014, Article ID 203518, 14 pages.

✓ Other articles:

- Samaa Saied, **Shaldam M.A.**, Mostafa M Elbadawi, Simone Giovannuzzi, Alessio Nocentini, Hadia Almahli, Rofaida Salem, Tamer M Ibrahim, Claudiu T Supuran, Wagdy M Eldehna (2023) “*Discovery of indolinone-bearing benzenesulfonamides as new dual carbonic anhydrase and VEGFR-2 inhibitors possessing anticancer and pro-apoptotic properties*” European Journal of Medicinal Chemistry, 259, 115707.

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- Heba A Elsebaie, Eman A El-Bastawissy, Kamel M Elberembally, Eman F Khaleel, Rehab Mustafa Badi, **Shaldam M.A.**, Wagdy M Eldehna, Haytham O Tawfik, Tarek F El-Moselhy (2023) “*Novel 4-(2-arylidenehydrazineyl) thienopyrimidine derivatives as anticancer EGFR inhibitors: Design, synthesis, biological evaluation, kinome selectivity and in silico insights*” *European Journal of Medicinal Chemistry*, 140, 106799.
- Ahmed A Al-Karmalawy, Mahmoud Rashed, Marwa Sharaky, Hamada S Abulkhair, Mohamed M Hammouda, Haytham O Tawfik, **Shaldam M.A.** (2023) “*Novel fused imidazotriazines acting as promising top. II inhibitors and apoptotic inducers with greater selectivity against head and neck tumors: Design, synthesis, and biological assessments*” *European Journal of Medicinal Chemistry*, 259, 115661.
- Ahmed E. Elsayia, Mostafa M. Elbadawia, Alessio Nocentinib, Hadia Almahlic, Simone Giovannuzzib, **Shaldam M.A.**, Rofaida Salema, Tamer M. Ibrahima, Hatem A. Abdel-Azizd, Claudiu T. Supuranb, Wagdy M. Eldehnaa (2023) “*1,5-Diaryl-1,2,4-triazole ureas as new SLC-0111 analogues endowed with dual carbonic anhydrase and VEGFR-2 inhibitory activities*” *Journal of Medicinal Chemistry*, 66, 15, 10558–10578
- Al-Karmalawy A.A., Nafie M.S., **Shaldam M.A.**, Elmaaty A.A., Antar S.A., El-Hamaky A.A., Saleh M.A., Elkamhawy A., Tawfik H.O. (2023) “*Ligand-Based Design on the Dog-Bone-Shaped BIBR1532 Pharmacophoric Features and Synthesis of Novel Analogues as Promising Telomerase Inhibitors with in Vitro and in Vivo Evaluations*” *Journal of Medicinal Chemistry*, 66 (1), pp. 777 – 792.
- Hassan A.H.E., Mahmoud K., Phan T.-N., **Shaldam M.A.**, Lee C.H., Kim Y.J., Cho S.B., Bayoumi W.A., El-Sayed S.M., Choi Y., Moon S., No J.H., Lee Y.S. (2023) “*Bestatin analogs-4-quinolinone hybrids as antileishmanial hits: Design, repurposing rational, synthesis, in vitro and in silico studies*” *European Journal of Medicinal Chemistry*, 250, art. no. 115211
- Radwan A.S., Salim M.M., Elkhoudary M.M., Hadad G.M., **Shaldam M.A.**, Belal F., Magdy G. (2023) “*Study of the binding interaction of salmon sperm DNA with nintedanib, a tyrosine kinase inhibitor using multi-spectroscopic, thermodynamic, and in silico approaches*” *Journal of Biomolecular Structure and Dynamics*”
- Attallah N.G.M., Kabbash A., Negm W.A., Elekhrawy E., Binsuwaidan R., Al-Fakhrany O.M., **Shaldam M.A.**, Moglad E., Tarek M., Samir N., Fawzy H.M. (2023) “*Protective Potential of Saussurea costus (Falc.) Lipsch. Roots against Cyclophosphamide-Induced Pulmonary Injury in Rats and Its In Vitro Antiviral Effect*” *Pharmaceuticals*, 16 (2), art. no. 318.
- Aboukhatwa S.M., Ibrahim A.O., Aoyama H., Al-Behery A.S., **Shaldam M.A.**, El-Ashmawy G., Tawfik H.O. (2022) “*Nicotinonitrile-derived*

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apoptotic inducers: Design, synthesis, X-ray crystal structure and Pim kinase inhibition” Bioorganic Chemistry, 129, art. no. 106126

- Magdy G., **Shaldam M.A.**, Belal F., Elmansi H. (2022) “*Multi-spectroscopic, thermodynamic, and molecular docking/dynamic approaches for characterization of the binding interaction between calf thymus DNA and palbociclib*” Scientific Reports, 12 (1), art. no. 14723
- El-Ganiny A.M., Gad A.I., El-Sayed M.A., **Shaldam M.A.**, Abbas H.A. (2022) “*The promising anti-virulence activity of candesartan, domperidone, and miconazole on Staphylococcus aureus*” Brazilian Journal of Microbiology, 53(1)
- Khayat M.T., Ibrahim T.S., Khayyat A.N., Alharbi M., **Shaldam M.A.**, (2022) “*Sodium Citrate Alleviates Virulence in Pseudomonas aeruginosa*” Microorganisms, 10 (5), art. no. 1046.
- Mosalam E.M., Elberri A.I., Sallam A.S., Salem H.R., Metwally E.M., Abdallah M.S., **Shaldam M.A.**, Mansour H.E.A. (2022) “*Chronotherapeutic neuroprotective effect of verapamil against lipopolysaccharide-induced neuroinflammation in mice through modulation of calcium-dependent genes*” Molecular Medicine, 28 (1), art. no. 139.
- Attallah N.G.M., Al-Fakhrany O.M., Elekhrawy E., Hussein I.A., **Shaldam M.A.**, Altwaijry N., Alqahtani M.J., Negm W.A. (2022) “*Anti-Biofilm and Antibacterial Activities of Cycas media R. Br Secondary Metabolites: In Silico, In Vitro, and In Vivo Approaches*” Antibiotics, 11 (8), art. no. 993.
- Elshaer S.L., **Shaldam M.A.**, Shaaban M.I. (2022) “*Ketoprofen, piroxicam and indomethacin-suppressed quorum sensing and virulence factors in Acinetobacter baumannii*” Journal of Applied Microbiology, 133 (4), pp. 2182 – 2197.
- Tawfik H.O., **Shaldam M.A.**, Nocentini A., Salem R., Almahli H., Al-Rashood S.T., Supuran C.T., Eldehna W.M. (2022) “*Novel 3-(6-methylpyridin-2-yl)coumarin-based chalcones as selective inhibitors of cancer-related carbonic anhydrases IX and XII endowed with anti-proliferative activity*” (2022) Journal of Enzyme Inhibition and Medicinal Chemistry, 37 (1), pp. 1043 – 1052.
- Binsuwaidan R., Sultan A.A., Negm W.A., Attallah N.G.M., Alqahtani M.J., Hussein I.A., **Shaldam M.A.**, El-Sherbeni S.A., Elekhrawy E. (2022) “*Bilosomes as Nanoplatform for Oral Delivery and Modulated In Vivo Antimicrobial Activity of Lycopene*” Pharmaceuticals, 15 (9), art. no. 1043.
- Sara A. Darwish, Mohamed M. El-Kerdawy, Ahmad R. Elsheakh, Rehab S. Abdelrahman, **Moataz A. Shaldam**, Hatem A. Abdel-Aziz, Ghada S. Hassan, Mariam A. Ghaly (2022) “*New tilomisole-based benzimidazothiazole derivatives as anti-inflammatory agents: Synthesis, in*

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vivo, in vitro evaluation, and in silico studies” Bioorganic Chemistry 120, 105644

- Mohamed A Abdelaziz, **Moataz A. Shaldam**, Ramadan A El-Domany, Fathalla Belal (2022) “*Multi-Spectroscopic, thermodynamic and molecular dynamic simulation studies for investigation of interaction of dapagliflozin with bovine serum albumin*” Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 264, 120298
- Amira M El-Ganiny, Amany I Gad, Mona A El-Sayed, **Shaldam M.A.**, Hisham A Abbas (2021) “*The promising anti-virulence activity of candesartan, domperidone, and miconazole on Staphylococcus aureus*” Brazilian Journal of Microbiology, 1-18
- Ahmed Al Saqr, Mohammed F Aldawsari, El-Sayed Khafagy, **Shaldam M.A.**, Wael AH Hegazy, Hisham A Abbas (2021) “*A novel use of Allopurinol as a quorum-sensing inhibitor in Pseudomonas aeruginosa*” Antibiotics 10 (11), 1385
- Ahdab N Khayyat, Hisham A Abbas, Maan T Khayat, **Shaldam M.A.**, Momen Askoura, Hani Z Asfour, El-Sayed Khafagy, Amr S Abu Lila, Ahmed N Allam, Wael AH Hegazy (2021) “*Secnidazole is a promising imidazole mitigator of Serratia marcescens virulence*” Microorganisms 9 (11), 2333
- Noura M Seleem, Hamada Atallah, Hemat K Abd El Latif, **Shaldam M.A.**, Amira M El-Ganiny (2021) “*Could the analgesic drugs, paracetamol and indomethacin, function as quorum sensing inhibitors?*” Microbial Pathogenesis 158, 105097
- Galal Yahya, Basem Mansour, Kristina Keuper, **Shaldam M.A.**, Ahmed El-Baz (2021) “*Virtual screening attributes male biased COVID-19 mortality to predicted antiviral activity of female sex hormones*” Letters in Drug Design & Discovery, 18(9) 872-883
- Mohammed F Aldawsari, El-Sayed Khafagy, Ahmed Al Saqr, Ahmed Alalaiwe, Hisham A Abbas, **Shaldam M.A.**, Wael AH Hegazy, Reham M Goda (2021) “*Tackling virulence of Pseudomonas aeruginosa by the Natural Furanone Sotolon*” Antibiotics 10 (7), 871
- Ahdab N Khayyat, Wael AH Hegazy, **Shaldam M.A.**, Rasha Mosbah, Ahmad J Almalki, Tarek S Ibrahim, Maan T Khayat, El-Sayed Khafagy, Wafaa E Soliman, Hisham A Abbas (2021) “*Xylitol Inhibits Growth and Blocks Virulence in Serratia marcescens*” Microorganisms 9 (5), 1083
- Sara T Al-Rashood, Shymaa S Elshahawy, Asmaa M El-Qaias, Dina S El-Beheidy, Alshaimaa A Hassanin, Selwan M El-Sayed, Shahenda M El-Messery, **Shaldam M.A.**, Ghada S Hassan (2020) “*New thiazolopyrimidine as anticancer agents: Synthesis, biological evaluation, DNA binding,*

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molecular modeling and ADMET study” Bioorganic & Medicinal Chemistry Letters 30 (23), 127611.

- Noura M Seleem, Hemat K Abd El Latif, **Shaldam M.A.**, Amira El-Ganiny (2020) “*Drugs with new lease of life as quorum sensing inhibitors: for combating MDR Acinetobacter baumannii infections*” European Journal of Clinical Microbiology & Infectious Diseases 39 (9), 1687-1702
- Hisham A Abbas, **Shaldam M.A.**, Dalia Eldamasi (2020) “*Curtailling quorum sensing in Pseudomonas aeruginosa by sitagliptin*” Current microbiology 77 (6), 1051-1060.
- Basant Mohamed, Zakaria K Abdel-Samii, Eatedal H Abdel-Aal, Hisham A Abbas, **Shaldam M.A.**, Amany M Ghanim (2020) “*Synthesis of imidazolidine-2,4-dione and 2-thioxoimidazolidin-4-one derivatives as inhibitors of virulence factors production in Pseudomonas aeruginosa*” Archiv der Pharmazie 353 (5), e1900352.
- Mardia T El Sayed, Alaadin E Sarhan, Entsar Ahmed, Reham R Khattab, Mohamed Elnaggar, Shahenda M El-Messery, **Shaldam M.A.**, Ghada S Hassan (2020) “*Novel Pyruvate Kinase (PK) Inhibitors: New Target to Overcome Bacterial Resistance*” ChemistrySelect 5 (11), 3445-3453.
- Ahmed B. Eldin, Abdallah Shalaby, Mahmoud S. Abdallah, **Shaldam M.A.**, Mohamed A. Abdallah (2019) “*Applying green analytical chemistry (GAC) for development of stability indicating HPLC method for determining clonazepam and its related substances in pharmaceutical formulations and calculating uncertainty*” Arabian Journal of Chemistry 12 (7), 1212-1218
- Omayma R Saleh, **Shaldam M.A.**, Reham M Goda, Ihsan A Shehata, Mahmoud B El-Ashmawy (2019) “*Synthesis and Antibacterial Evaluation of New 2-Phenylbenzimidazole Derivatives*” ChemistrySelect 4 (35), 10307-10315.
- Hisham A Abbas, Ahmed M Elsherbini, **Shaldam M.A.** (2019) “*Glyceryl trinitrate blocks staphyloxanthin and biofilm formation in Staphylococcus aureus*” African health sciences 19 (1), 1376-1384
- Hisham A. Abbas, Wafaa E Soliman, **Shaldam M.A.** (2018) “*Perturbation of Quorum Sensing in Pseudomonas aeruginosa by Febuxostat*” Advances in Microbiology 8(8) 650-664, ID:87037, <https://doi.org/10.4236/aim.2018.88044>
- Yomna A. Salem, **Shaldam M.A.**, Dina T. El-Sherbiny, Dalia R. El-Wasseef, Saadia M. El-Ashry (2017) “*Simultaneous Determination of Formoterol Fumarate and Budesonide Epimers in Metered Dose Inhaler Using Ion-Pair Chromatography*” J. Chrom. Sci. <https://doi.org/10.1093/chromsci/bmx067>

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- Hisham A. Abbas and **Shaldam M.A.** (2017) "Repurposing metformin as a quorum sensing inhibitor in *Pseudomonas aeruginosa*" African Health Sciences journal. African health sciences 17(3),1-13.
- Hisham A. Abbas and **Shaldam M.A.** (2016) "Glyceryl trinitrate is a novel inhibitor of quorum sensing in *Pseudomonas aeruginosa*" *Afri Health Sci.* 2016;16(4): 1109-1117.
- Ahmed M. Agiba, Mahmoud S. Abdallah, **Shaldam M.A.**, Mohamed A. Abdallah, (2015). "Development & optimization of antidandruff shampoo by modifying its rheological behavior" J. Appl. Cosmetol. 33, 129-138

✓ Abstracts

- **Moataz Shaldam**, Alessio Nocentini, Zainab M Elsayed, Tamer M Ibrahim, Rofaida Salem, Ramadan A El-Domany, Clemente Capasso, Claudiu T Supuran, Wagdy M Eldehna (2021) "*Development of Novel Quinoline-Based Sulfonamides as Selective Cancer-Associated Carbonic Anhydrase Isoform IX Inhibitors*" (oral presentation) [The 1st International Conference of the faculty of pharmacy, Delta university for Science and Technology, Egypt \(20-21 November 2021\)](#).
- **Moataz Shaldam**, Mervat Elhamamsy, Eman Esmat, and Tarek El-Moselhy. (2014) "*1,4-Dihydropyridine Calcium Channel Blockers: Homology Modeling of The Receptor and Assessment of Structure Activity Relationship*" [The 3rd FUE International Conference of Pharmaceutical Science, Cairo, Egypt, 9-11 February 2015](#)
- Ahmed M. Agiba, Mahmoud S. Abdallah, **Moataz A. Shaldam**, Mohamed A. Abdallah, (2014). "Development & optimization of antidandruff shampoo by modifying its rheological behavior". [The 17th Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World, Faculty of pharmacy, Ain-Shams University, Cairo, Egypt, 16 October 2014.](#)