

Tamer A. Elwaie

Research Assistant, Department of Pharmaceutical Sciences, Irma Lerma Rangel College of Pharmacy, Texas A&M University, Tx, USA.

Assistant Lecturer, Department of Medicinal Chemistry, Faculty of Pharmacy, Cairo University, Cairo, Egypt.

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Education

PhD scholar (Joint supervision Scholarship)

College of Pharmacy, Texas A&M University, Tx, USA.	Completed	2018 - 2020
Faculty of Pharmacy, Cairo University, Cairo, Egypt.		

M.Sc. degree in pharmaceutical sciences

Department of Medicinal Chemistry, Faculty of Pharmacy, Cairo University, Cairo, Egypt.	Awarded	2014
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Pre-master courses

Department of Medicinal Chemistry Faculty of Pharmacy, Cairo University, Cairo, Egypt.	Very good cumulative grade (75.77%)	2009
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B.Sc. degree in Pharmaceutical sciences

Faculty of Pharmacy, Cairo University, Cairo, Egypt.	Excellent with honors. From top 2%.	2006
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Work experience

Research Assistant	Department of Pharmaceutical Sciences, Rangel College of Pharmacy, Texas A&M University, USA.	2018 - 2020
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Assistant Lecturer	Department of Medicinal Chemistry Faculty of Pharmacy, Cairo University, Cairo, Egypt.	2014- ongoing
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Teaching and research assistant	Department of Medicinal Chemistry Faculty of Pharmacy, Cairo University, Cairo, Egypt.	2008-2014
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Participated in teaching the practical course of Drug Design and Development Diploma in Department of Medicinal Chemistry, Faculty of Pharmacy, Cairo University, Egypt.		2015-2016
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Community Pharmacist

Member of general syndicate of Egyptian pharmacists.

2006-ongoing

Awards

- A competitive Fully funded joint supervision scholarship to complete my PhD research studied in USA, by Ministry of Higher education and research. Egypt, (2018-2020).
- **Master's degree award** from the Department of Medicinal Chemistry, Faculty of Pharmacy, Cairo University, Egypt (2014).
- **Honorary graduation B.Sc. degree award** from Faculty of Pharmacy, Cairo University and general syndicate of pharmacists, Egypt (2006).

Research Interests and Objectives

An experienced post-doc position to gain more skills in organic and bioorganic chemistry. Joining a top-tier research institute, and work with a cooperative research team to optimize my theoretical, technical, and research skills. I wish to delve in a research program that would results in breakthrough discoveries that can help all humankind. I am interested in design and synthesis of novel compounds that may exhibit interesting biological activity, green chemistry and computational chemistry for lead optimization and drug discovery.

Research Experience:

- **Recent research work**

I was working on two projects which include, design, synthesis, and biological screening of novel azaheterocyclic compounds targeting HER-2 and VEGFR-2 kinases. These novel organic molecules exhibited potent antiproliferative activities against a wide range of malignant tumors, and particularly, breast and liver cancers, which are considered as the leading causes of death in United States and worldwide. **From April 2018 till December 2020** (Place of research: Rangel college of Pharmacy, Texas A&M University, USA, P.I (Dr. Hamed I Ali).

- **Previous research work**

My Master thesis was entitled “Synthesis and anticancer activity of some benzopyran derivatives”, in which four series of sulfonamides incorporating chromone moieties were synthesized and assessed for their cytotoxic activity against breast cancer cell lines MCF-7 and lung cancer A-549 cell lines, as well as their carbonic anhydrase inhibitory activity was evaluated against tumor associated isoforms, which also later proved to be enhanced. The work was published in the *European Journal of Medicinal Chemistry* in 2015. **From September 2010 till April 2014** (Place of research: Department of Medicinal Chemistry, Faculty of Pharmacy, Cairo University, Egypt).

Publications

Tamer A. Elwaie, Safinaz E. Abbas, Enayat I. Aly, Riham F. George, Hamdy Ali, Nikolai Kraiouchkine, Khaldoun S. Abdelwahed, Tamer E. Fandy, Khalid A. El Sayed, Zakaria Y. Abd Elmageed, Hamed I. Ali, HER2 Kinase-Targeted Breast Cancer Therapy: Design, Synthesis, and In Vitro and In Vivo Evaluation of Novel Lapatinib Congeners as Selective and Potent HER2 Inhibitors with Favorable Metabolic Stability, **J. Med. Chem. 63 (2020) 15906–15945**". <https://doi.org/10.1021/acs.jmedchem.0c01647>

Tamer A. Elwaie, Sanaullah Sajib, Constantinos M. Mikelis, Safinaz E. Abbas, Enayat I. Aly, Riham F. George, Zakaria Y. Abd Elmageed, Hamed I. Ali. " Novel Pyrrolotriazine based VEGFR-2 kinase Inhibitors as Promising Sorafenib Analogues Targeting Hepatocellular Carcinoma. Design, Synthesis, Biological Evaluation and Molecular Modeling Study ". **Journal of Medicinal Chemistry, Submitted.**

Awadallah, Fadi M., **Tamer A. El-Waei**, Mona M. Hanna, Safinaz E. Abbas, Mariangela Ceruso, Beyza Ecem Oz, Ozen Ozensoy Guler, and Claudiu T. Supuran. "Synthesis, carbonic anhydrase inhibition and cytotoxic activity of novel chromone-based sulfonamide derivatives". **European journal of medicinal chemistry 96 (2015): 425-435.**
<https://doi.org/10.1016/j.ejmech.2015.04.033>

Conferences and Presentations

- **Poster presentation**, “Synthesis and anticancer activity of some benzopyran derivatives”, **5th international Scientific Conference** of Faculty of Pharmacy Cairo University (April, 2014).
- **Poster Presentation**, "Synthesis, carbonic anhydrase inhibition and cytotoxic activity of novel chromone-based sulfonamide derivatives”, **35th Medicinal Chemistry Symposium of American Chemical Society**, Chicago, USA (June 2016).
- **Podium presentation**, “Kinase-targeted cancer therapy: design, synthesis and biological screening of ABL, and EGFR/HER2 inhibitors”, **45th Annual MALTO Medicinal Chemistry-Pharmacognosy Meeting-in-Miniature**, College station, Texas, USA (May 23rd-25th, 2018).
- **Teaching lecture** “Sulfonamides and quinolones antibacterial agents”, Lecture to 3rd year pharm.D students at Rangel College of Pharmacy, Texas A&M University, USA, Course coordinator: Dr. Hamed I Ali. (JAN 14th, 2018).
- **Poster presentation**, “HER-2 Kinase-Targeted Cancer Therapy: Design, Synthesis, and Kinase Profiling of Novel Quinazoline Derivatives as Selective Antitumor Hits”, Tamer A. Elwaie, Safinaz Abbas, Enayat Ali, Riham F. George , Hamdy Ali , Zakaria Abd Elmageed, Hamed Ali *, **ACS Fall 2019 National Meeting & Exposition**, San Diego, California, USA (Aug 25th -29th, 2019).
- **Poster presentation**, “Design, Synthesis and Biological Screening of Novel Quinazoline and Pyrrolotriazine Derivatives as Potent HER-2 and VEGFR-2 Inhibitors", Tamer Elwaie, Safinaz Abbas, Tamer Fandy, Hamdy Ali, Zakaria Abd Elmageed, Hamed Ali, **PharmSci 360 AAPS 2019**, San Antonio, Texas, USA (Nov 3rd -6th, 2019).
- **Seminar presentation**, “Design, Synthesis and Biological Screening of Novel Quinazoline and Pyrrolotriazine Derivatives as Potent and selective HER-2 and VEGFR-2 Inhibitors" Rangel College of Pharmacy, Texas A&M University, USA.

Training courses

- **Computer aided drug design and molecular modeling using molecular operating environment (MOE) software.** Faculty of pharmacy, Cairo University, (February 2010).
- **Communication and Presentation skills,** Faculty and Leadership development center (FLDC), Cairo University, Cairo, Egypt, (February 2012).
- **Managing Research Teams,** FLDC, Cairo University, Egypt, (September 2012).
- **E-Learning training,** FLDC, Cairo University, Egypt, (March 2013).
- **Scientific research ethics,** FLDC, Cairo University, Egypt, (September 2013).
- **Credit Hour System,** FLDC, Cairo University, Egypt, (August 2014).
- **International Publishing of Scientific Research,** (FLDC), Cairo University, Egypt, (September 2014).
- **Biological safety level 1 and 2 training,** Rangel college of Pharmacy, Texas A&M University, USA. (May 2018).
- **Basic instrumental training** on LCMS experiments using ultimate[®] 3000 UHPLC and 1D and 2D NMR using Bruker 300 MHZ. Texas A&M university-Corpus Christi, Tx, USA.

Computer and Language skills

Computer Skills

- ICDL Certificate in all computer skills, Central unit of ICT training, Cairo University, December 2014.
- Excellent working knowledge of Chemoffice and ACDlab programs.
- Good experience in dealing with MOE and Gold drug design programs.

Language Skills

- **Arabic:** Mother tongue.
- **English:** Very good user.