

CURRICULUM VITAE

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Education

PhD in Pharmaceutical Sciences (Pharmaceutical chemistry) (Jan 2014-March 2016) Faculty of Pharmacy, Cairo University, Cairo, Egypt.

M.Sc. in Pharmaceutical Sciences (Pharmaceutical chemistry) (May 2011- Sept. 2013) Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt.

B.Sc. in Pharmaceutical Sciences (Nov. 1999- May 2004) Faculty of Pharmacy, Cairo University, Cairo, Egypt.

Professional Experience

1st Apr. 2016 – Now | *Lecturer of Organic and Pharmaceutical Chemistry.*
Pharmaceutical Chemistry Department | Faculty of Pharmacy | Egyptian Russian University (ERU) | Badr City, Cairo Suez road, Cairo, Egypt.

1st Dec. 2013 – 31st Mar. 2016 | *Lecturer Assistant.*
Pharmaceutical Chemistry Department | Faculty of Pharmacy | Egyptian Russian University (ERU) | Badr City, Cairo Suez road, Cairo, Egypt.

1st Sept. 2007 – 30st Nov. 2013 | *Teaching Assistant.*
Pharmaceutical Chemistry Department | Faculty of Pharmacy | Egyptian Russian University (ERU) | Badr City, Cairo Suez road, Helwan, Egypt.

21st Feb. 2006 – 31st May 2007 | *Teaching Assistant.*
Pharmaceutical Chemistry Department | Faculty of Pharmacy | Modern Sciences and Arts University (MSA) | 6th October City, Giza, Egypt.

13th Oct. 2004 – 1st Dec. 2005 | *Hospital Pharmacist.*
General Military Hospital in Ghamra | Ghamra, Cairo, Egypt.

Research Experience

26th Jan. 2013 – 24th Mar. 2016 | *PhD program*
Pharmaceutical Chemistry Department | Faculty of Pharmacy | Cairo University

- Thesis title "Design, synthesis and biological evaluation of novel isatin derivatives as potential anti-cancer agents".

- During this period I got an experience in using different modules of CADD using Accelrys Discovery Studio 4 and I applied these techniques in my PhD project. I learned more techniques about X-ray crystallography and different programs for analysis of CIF file of X-ray crystallography of single crystal.
- I shared in a research collaboration with Prof. Claudiu T. Supuran in the field of discovery of tumor-associated carbonic anhydrase inhibitors. Consequently, the second part of my PhD program focused on this.

18th May 2011 – 4th Dec. 2013 | *Master program*

Pharmaceutical Chemistry Department | Faculty of Pharmacy | Suez Canal University

- Thesis title "Synthesis and molecular docking of new arylpyrazole derivatives of expected anti-inflammatory activity"
- During this period I got an experience in using Elisa kits as it was applied in a kit given from Cyman Chemicals for assay of COX-1 and COX-2 inhibitors. Interpretation of the different analytical data of the novel synthesized compounds like IR, ¹H NMR, ¹³C NMR and Mass Spectroscopy. I was responsible for writing full research paper and complete thesis.

1st Sept. 2009 – 1st Jan. 2011 | *Trainee under supervision of Prof. Hatem A. Abdel-Aziz*

Applied Organic Chemistry Department | National Research Center.

- During this period I learned all essential techniques used in the synthesis of organic compounds like reflux, crystallization, distillation, melting point determination, purification using traditional column chromatography, following of the reaction using TLC and I started applying them during project concerned with synthesis of anti-inflammatory compounds.
- I have used microwave radiation for synthesis of organic compounds by green chemistry to reduce waste products and time of the reaction.
- I learned the technique of rat paw edema method and ulcer index measurement during collaboration with Pharmacology Department, Faculty of Pharmacy, El-Azhar University.

1st Sept. 2006 – 30th May 2007 | *Premaster Course*

Pharmaceutical Chemistry Department | Faculty of Pharmacy | Ain Shams University

- Beside the theoretical courses in this year, I learned docking techniques using Molsoft ICM pro and Molecular Operating Environment (MOE).

List of Publications

- 1- **HS Ibrahim**; SM Abou-seri and HA Abdel Aziz: *3-Hydrazinoindolin-2-one derivatives: Chemical classification and investigation of their targets as anticancer agents*. Eur. J. Med. Chem.; 122 (2016): 366-381.
- 2- WM Eldehna; M Fares; **HS Ibrahim**; MA Alsherbiny; MH Aly; HA Ghabbour and HA Abdel-Aziz: *Synthesis and Cytotoxic Activity of Biphenylurea Derivatives Containing Indolin-2-one Moieties*. Molecules; 21(2016): 762.
- 3- **HS Ibrahim**; SM Abou-seri; NSM Ismail; MM Elaasser and HA Abdel Aziz: *Bis-isatin hydrazones with novel linkers: synthesis and biological evaluation as cytotoxic agents*. Eur. J. Med. Chem.; 108 (2016): 415-422.

- 4- **HS Ibrahim**; SM Abou-seri; M Tanc; MM Elaasser; HA Abdel Aziz and CT Supuran: *Isatin-pyrazole benzenesulfonamide hybrids potently inhibit tumor-associated carbonic anhydrase isoforms IX and XII*. Eur. J. Med. Chem.; 103 (2016):583-593.
- 5- WM Eldehna, M Fares, **HS Ibrahim**, MM Ali, MH Aly, S Zada, SM Abou-seri, HA Abdel-Aziz and D Aboulella: *Indoline-urea derivatives as potential anti-hepatocellular carcinoma agents targeting VEGFR-2: Synthesis, in vitro biological evaluation and molecular docking* . Eur. J. Med. Chem.; 2015(100):89–97.
- 6- **HS Ibrahim**, SR Abdelhadi and HA. Abdel-Aziz: *Hydrolysis and hydrazinolysis of isatin-based ald- and ket- azines*. J. chem. 4/2015; Article ID 826489.
- 7- WM Eldehna, **HS Ibrahim**, HA Abdel-Aziz, NN Farrag, MM Youssef: *Design, synthesis and in vitro antitumor activity of novel N-substituted-4-phenyl/benzylphthalazin-1-ones*. Eur. J. Med. Chem.; 89 (2015) 549-560.
- 8- **HS Ibrahim**, WM Eldehna, HA Abdel-Aziz, MM Elaasser, MM Abdelaziz: *Improvement of Antibacterial Activity of Some Sulfa Drugs Through Linkage to Certain Phthalazin-1(2H)-one Scaffolds*. Eur. J. Med. Chem.; 85 (2014) 480-486.
- 9- HE Dweedar, H Mahrous, **HS Ibrahim**, HA Abdel-Aziz: *Analogue-based design, synthesis and biological evaluation of 3-substituted-(methylenehydrazono)indolin-2-ones as anticancer agents*. Eur. J. Med. Chem.; 78 (2014) 275-280.
- 10- OI El-Sabbagh, S Mostafa, HA Abdel-Aziz, **HS Ibrahim**, MM Elaasser: *Synthesis and Biological Evaluation of Some N-Arylpyrazoles and Pyrazolo[3,4-d]pyridazines as Anti-Inflammatory Agents..* Arch. Pharm.; 346 (2013):688-698.
- 11- HA Abdel-Aziz, KA Al-Rashood, KEH ElTahir, **HS Ibrahim**: *Microwave-assisted Synthesis of Novel 3,4-Bis-chalcone-N-arylpyrazoles and Their Anti-inflammatory Activity*. J. Chin. Chem. Soc.; 58(2011):863-868.
- 12- E Nassar, HA Abdel-Aziz, **HS Ibrahim**, AM Mansour: *Synthesis of Diarylpyrazoles Containing a Phenylsulphone or Carbonitrile Moiety and their Chalcones as Possible Anti-Inflammatory Agents*. Sci. Pharm.; 79 (2011):507-24.

Journals reviewing activity

- 1- European Journal of Medicinal Chemistry.
- 2- Journal of Enzyme Inhibition and Medicinal Chemistry.
- 3- Journal of Advanced Research.

Conference Proceedings

- 1- 11th European Workshop in Drug Design (EWDD) and Mu.Ta.Lig. Training School. Poster title "Discovery of (((indol-3yl)methylene)hydrazono)indolin-2-one derivatives as small molecule inducing apoptosis via increasing Bax/Bcl-2 ratio.
- 2- 4th International conference "Quality assurance of educations: Building trust and bridging gabs" by National Authority of Quality Assurance and Accreditation of Education (NAQAA), Conrad Hotel, Cairo, Egypt; 23-24 Apr. 2017.

Workshops and training Programs

- (21-26 May 2017) Mu.Ta.Lig training workshop at XI EWDD.

- By the end of this workshop, all the attendants trained on Schrodinger software to perform molecular docking, homology modeling, molecular dynamic simulation and FEB calculations. Dr. Stefan Erlich from Schrodinger was the instructor at this workshop.
- **(20th Apr. 2017)** National Academic Reference Standards for Pharmacy Education- 2nd Edition by National Authority of Quality Assurance and Accreditation of Education (NAQAA) (Conrad Hotel, Cairo, Egypt).
 - We get full information about the recent updates concerning the Egyptian Academic Reference Standard for pharmacy education.
- **(10th Oct. 2016)** "Funding Research grant" by Eng. Alaa Sami (DAAD Kairo Akademie).
 - During this workshop, I learned different techniques to search for funds and to get this fund and finally how to continue to repeat this process..
- **(17th & 18th May 2015)** "Insight into updated molecular modeling techniques" by Dr. Amgad Elbohy and Dr. Ahmed Elkerdawy (Faculty of Pharmacy, Ain Shams University, Cairo, Egypt).
 - During this workshop, the attendance learned how to use homology modeling technique to predict the unknown quaternary structure of any protein from a given sequence. The second part was concerning with the use of 2D QSAR, 3D QSAR and Pharmacophore for virtual screening.
- **(10th Sep. 2014)** "Proposal Writing GERLS" by Dr. Astrid Loff (DAAD Kairo Akademie).
 - During this workshop, we learned how to write a complete research proposal and we had many applications from our research ideas.
- **(23rd May 2014)** "Application of bioinformatics in drug and vaccine discovery" by Prof. Dr. Mahmoud Elhefnawy (Alkhawarizmi for Bioinformatics).
 - During this workshop, we learned how to use the basic bioinformatics tools to design a drug.
- **(21st Mar 2014)** "Proteomics and Structural Bioinformatics" by Prof. Dr. Mahmoud Elhefnawy, (Alkhawarizmi for Bioinformatics).
 - During this workshop, we learned about the basics of bioinformatics like genes, sequences and how to download sequences of protein and enzyme from different databases on the internet using BLAST search. In addition, we used these sequences in multiple sequence alignment and we got basic information about Proteomics and the structure of protein and homology modeling.