

## CURRICULUM VITAE

**DALIA HUSSEIN SAAD SOLIMAN**

**2019**

ASSOCIATE PROFESSOR

Department of Pharmaceutical Chemistry

Faculty of Pharmacy

The Egyptian Russian University, Al-Azhar University

Cairo, Egypt

Email: [daliasoliman10873@gmail.com](mailto:daliasoliman10873@gmail.com); [dalia-soliman@eru.edu.eg](mailto:dalia-soliman@eru.edu.eg)

Tel: 202-01147228800

### **RESEARCH INTEREST:**

Conduct research at the interface between Chemistry and Biology focusing on Medicinal Chemistry. Developing and combining diverse sets of approaches to discover and develop small molecules as new therapeutic leads, that address significant unmet medical needs such as drugs for inflammation, cancer, anti-tubercular and infectious diseases. This could be also approached through applying computational structure-based drug design to target these challenging interfaces, including drug ability analysis, hit identification, virtual fragment based drug design and lead optimization.

### **EDUCATION:**

**Ph.D.** in pharmaceutical sciences (Pharmaceutical chemistry). **2006**, Al-Azhar University, Faculty of Pharmacy, Cairo, Egypt.

Thesis title: Design synthesis and biological evaluation of quinoxaline 1,4-di N-oxide as potential anticancer and hypoxia-selective therapeutic agents.

**M.Sc.** in pharmaceutical sciences (Pharmaceutical chemistry). **2001** Al-Azhar University, Faculty of Pharmacy, Cairo, Egypt.

Thesis title: Design synthesis and biological evaluation of quinazoline derivatives as anticonvulsant agents.

**B.Sc.** Pharmaceutical science. **1996** Faculty of pharmacy, Cairo University, Cairo, Egypt. Grade: very good with honor.

### **PROFESSIONAL STATUS:**

**Jan2015-present** Associate Professor of Pharmaceutical Chemistry, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Egyptian Russian University.

**Sep2013-Dec 2014** Lecturer of Pharmaceutical Chemistry, Pharmaceutical chemistry department, Faculty of pharmacy, Egyptian Russian University.

**2006-2013** Lecturer of Pharmaceutical Chemistry, Pharmaceutical chemistry department, Faculty of pharmacy, Al-Azhar University

**2001-2006** Assistant lecturer, Pharmaceutical chemistry department, Faculty of pharmacy, Al-Azhar University.

**1997-2000** Teaching assistant, Pharmaceutical chemistry department, Faculty of pharmacy, Al-Azhar University.

### **TEACHING EXPERIENCE**

- Undergraduate theoretical courses in drug design and molecular modeling.
- Undergraduate practical courses in medicinal and organic chemistry.
- Undergraduate theoretical courses in medicinal chemistry, topics such as antibiotics, hormones, cardiovascular drugs, vitamins, antibacterial agents, antiviral agents, metabolism, autonomic nervous system, anticancer agents, antifungal, animalarials, antiprotozoals, local anaesthetics.
- Undergraduate theoretical courses in organic chemistry, topics such as spectroscopic techniques in characterizing chemical substances, chemical reactions and synthesis of aromatic and heterocyclic compounds.

### **Lectures and contributions in conferences**

- **As a visiting scientist from 1st of August 2018 until 13th of September 2018 at the Department of Pharmaceutical**

Chemistry, Martin-Luther University of Halle-Wittenberg, Germany. The work was established at the Department of Pharmaceutical Chemistry in Halle. All experimental resources necessary for the research work were provided by the Department of Pharmaceutical Chemistry, Martin-Luther University of Halle- Wittenberg. Under supervision of Prof. Dr. Wolfgang Sippl

- **Vienna Summer School on Drug Design 2017, Department of Pharmaceutical Chemistry, University of Vienna, 1090 Vienna, Austria.** Poster Presenter, "Synthesis, Molecular Modeling and Evaluation of Novel Pyridazinone Derivatives as Antihypertensive Agents" September 17-22, 2017.
- **Drug Discovery & Therapy World Congress 2016 (DDTWC 2016):** speaker in a session lecture, "Design, Synthesis and Anticancer Evaluation of Novel Pyrazole and Pyrazole[1,5-a]pyrimidine Derivatives" August 22-26, at John B. Hynes Veterans Memorial Convention Center, Boston, USA.
- **Pharma Middle East:** Oral speaker, "Novel chalcone derivatives: Synthesis, QSAR studies and evaluation of their anti-prostate cancer activities and cathepsin B inhibition" November 02-04, 2015 at Dubai, UAE.
- **Drug Discovery and Designing:** Oral speaker and co-chairman, "Exploring the Research Challenges & Advancements in Drug Discovery & Designing", "Design, Synthesis, Docking and QSAR studies of novel 3,5-diaryl Pyrazole Derivatives and their evaluation as antioxidants and as immunomodulators, inhibitors of TNF-, IL-2, IL-6" August 11-13 at Frankfurt, Germany.
- **SCT-SFNano Joint Meeting-** When medicinal Chemistry meets Nanomedicines: Molecular Aspects of Targeting, Activation and Delivery of Drugs, Paris, France, April 8, 2014
- **Poster presenter** 12<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry (ISIC) 16-19 February, 2013, Luxor-Egypt

- **Oral presentation, Poster presenter and Co-Chairman: Drug Discovery & Therapy World Congress 2013, June 3-6, 2013, Boston, MA, USA**
- **Oral presentation and Co-Chairman:** The International Conference & Expo on Drug Discovery and Designing, Frankfurt, Germany, August 11-13, 2015.
- **Attending The International Conference of the Faculty of Pharmacy, Egyptian Russian University, Pharma-Egyruss:** April 28-30, 2018.

### **Publications**

1. New quinoxaline 1,4-di-N-oxides. Part 1: Hypoxia-selective cytotoxins and anticancer agents derived from quinoxaline 1,4-di-N-oxides.  
Kamelia M. Amin, Magda M. F. Ismail, Eman Noaman, Dalia H. Soliman and Yousry A. Ammar  
**Bioorganic & Medicinal Chemistry 14 (2006) 6917–6923**
2. New quinoxaline 1, 4-di-N-oxides: Anticancer and hypoxia-selective therapeutic agents.  
Kamelia M. Amin, Magda M. F. Ismail, Eman Noaman, Dalia H. Soliman and Yousry A. Ammar  
**European Journal of Medicinal Chemistry, 2010,**
3. Synthesis, Molecular Modeling, Anti-bacterial and Anti-fungal Activities of New Quinoxaline 1,4-di-N-Oxide Derivatives.  
Dalia H. Soliman  
**Al-Azhar Journal of Pharmaceutical Sciences, 2011, 44, 252-266**
4. Palladacycles as Antimicrobial Agents.  
A.-S.S.H. Elgazwy, N.S.M. Ismail, S.R. Atta-Allah, M.T. Sarg, D.H.S. Soliman, M.Y. Zaki and M.A. Elgamas  
**Current Medicinal Chemistry, 2012, 19, 3967-3981**
5. Synthesis and molecular modeling study of novel pyrrole Schiff Bases as anti-HSV-1 agents.  
Khalid M. H. Hilmy, Dalia H. Soliman, Esmat B. A. Shahin, Rakia Abd Alhameed  
**Life Science Journal, 2012, 9(2), 841-850**

6. Three-dimensional quantitative structure activity relationship (QSAR) of cytotoxic active 3,5-diaryl-4,5-dihydropyrazole analogs: a comparative molecular field analysis (CoMFA) revisited study.  
Abdel-Sattar S Hamad Elgazwy, Saad R Atta-Allah, Dalia H S Soliman, Diaa A Ibrahim  
**Chemistry Central Journal 2012, 6:50,**
7. Synthesis of Novel Palladacycles Inhibitors of the Cathepsin B Activity and Antitumoral Agents. Abdel-Sattar S Hamad Elgazwy, Mohamed R Shehata, Myssoune Y Zaki, Dalia H S Soliman and Marwa M Elbakkry  
**Medicinal chemistry, 2013, 3(3), 254-261**
8. Design, Synthesis and Evaluation of 1,3,2-Diazaphosphorin[4,5-b]Quinoxaline-5,10-di-N-oxide Derivatives as Novel VEGFR-2 and SRC Kinase Inhibitors in the Treatment of Prostate Cancer. Abdel-Sattar S. Hamad Elgazwy and Dalia H. Soliman\*  
**The Open Conference Proceedings Journal, 2013, 4, 77-86**
9. Design, synthesis and evaluation of novel diaryl pyrrolopyrimidine and pyrrolothiazine derivatives as inhibitors of tumor necrosis factor stimulated gene-14 (TSG-14) production.  
Khalid M.H. Hilmy , Dalia H. Soliman , Esmat B.A. Shahin , Hala S. El-Deeb , Salah M. El-Kousy  
**European Journal of Medicinal Chemistry 78 (2014) 419-424**
10. Synthesis of Novel Steroidal 17 $\alpha$ -Triazolyl Derivatives Via CU(I)-Catalyzed Azide-Alkyne Cycloaddition AND Their Evaluation as Potential Progestational Agents.  
Magda M F Ismail, Dalia H Soliman\*, Nehad M A Eldydamony, G A Abdel Jaleel, Adel F Youssef  
**International Journal of Pharma Medicine and Biological Sciences, Vol. 3, No. 3, July 2014**
11. Synthesis, Characterization, Anti-Bacterial and Anti-Fungal Activities of New Quinoxaline 1,4-di-N-Oxide Derivatives.  
Dalia Hussein Soliman\*  
**International Journal of Organic Chemistry, 2013, 3, 65-72**
12. Synthesis, Biological Evaluation and 2D-QSAR Study of Halophenyl Bis-Hydrazones as Antimicrobial and Antitubercular Agents. Hatem A. Abdel-Aziz 1,2,\*, Wagdy M. Eldehna,

Mohamed Fares, Sara T. A. Al-Rashood, Khalid A. Al-Rashood, Marwa M. Abdel-Aziz 4 and Dalia H. Soliman

**Int. J. Mol. Sci. 2015, 16, 8719-8743.**

13. Synthesis, in vitro and in silico studies of some novel 5-Nitrofuranyl hydrazones as Antimicrobial and Antitubercular Agents. Hatem A. Abdel Aziz<sup>a</sup>, Wagdy M. Eldehna, Mohamed Fares, Tilal Elsaman, Marwa M. Abdel-Aziz, Dalia H. Soliman.

**Biological and pharmaceutical bulletin; 2015, 38, 1617-1630.**

Novel pyrrolo[2,3-d]pyrimidines and pyrrolo[2,3-b]pyridines: design, synthesis, and in vivo TNF- $\alpha$  inhibitory activity. Khaled M. H. Hilmy, Hanan G. Abdul-Wahab, Dalia H. Soliman, Maha M. A. Khalifa, Amany M. Hegab

**Medicinal Chemistry Research, 2015; 24(5): 2097-2110. DOI:10.1007/s00044-014-1281-9.**

14. Synthesis, Biological Evaluation and 2D-QSAR Studies of Novel 6-Oxo-Pyridine-3-Carboxamide Derivatives as Antimicrobial and Antifungal Agents

Hend M. El-Sehrawi, Dalia H. Soliman\*, Maha M. Khalifa, Omneya M. El-Bakry

**International Journal of Chemistry; 2016, Vol. 8, (1).**

15. Synthesis, Antitumor Activity, Pharmacophore modeling and QSAR Studies of Novel Pyrazoles and Pyrazolo[1,5-a]Pyrimidines Against Breast Adenocarcinoma MCF-7 Cell Line

Magda M. Ismail, Dalia H. Soliman, Amel M. Farrag, Rehab Sabbour

**International journal of pharmacy and pharmaceutical sciences; 2016, Vol 8(6).**

16. Design, Synthesis and In-Silico Studies of Novel Chalcones as Anti-Prostate Cancer and Cathepsin B Inhibitors

Dalia H Soliman, Amel M Farrag, Ola Omran

**Journal of Applied Pharmaceutical Science Vol. 7 (07), pp. 010-020, 2017.**

**DOI: 10.7324/JAPS.2017.70702**

17. Design, synthesis and 2D QSAR study of novel pyridine and quinolone hydrazone derivatives as potential antimicrobial and antitubercular agents

Mohamed A. Abdelrahman, Ismail Salama, Mohamed S. Goma, ,

Mahmoud M. Elaasser , Marwa M. Abdel-Aziz , Dalia H. Soliman  
**European Journal of Medicinal Chemistry, 138 698-714, 2017.**

18. Derivatives: Design, Synthesis and Biological Evaluation as a  
Novel Class of Antitubercular and Antimicrobial Agents

Dalia H. Soliman, Wagdy M. Eldehna, Hazem A. Ghabbour, Maha  
M. Kabil, Marwa M. Abdel-Aziz, and Hatem A. Abdel-Aziz  
**Biological and Pharmaceutical Bulletin, 40, pp. 1–12, 2017.**

### **TRAINING COURSES:**

- Map of the curriculum and learning outcomes
- Communication and presentation skills.
- How to Present Scientific Data
- International Publishing
- Scientific Thinking and Argument Skills for Problem Solving
- Effective Time and Action Management
- Scholarships Info Meeting
- Strategic Planning

### **SCIENTIFIC TRAINING COURSES**

- 1- Workshop on **Bioinformatics** held at Biotechnology Center,  
Faculty of Pharmacy, Cairo University 3-6 April
- 2- Training Course on **Computer Aided Drug Design Using  
MOE Software**, held at Faculty of Pharmacy, Assiut  
University, Jan 26-28, 2013
- 3- Workshop on **Structure-Based, Ligand-Based Drug Design**,  
Faculty of Pharmacy, Misr International University, June 2014
- 4- Workshop on **Application of Bioinformatics in Drug and  
Vaccine Discovery**, Alkharizmi for Bioinformatics Training  
Center, 23 May 2014
- 5- Workshop on **Structure-Based, Ligand-Based Drug Design**,  
Faculty of Pharmacy, Misr International University, September  
2014
- 6- Workshop on **Computer-Aided Drug Design, Faculty of  
Pharmacy**, Ain Shams University, May 17 & 18, 2015.

- 7- The 4<sup>th</sup> workshop on **Computer-Aided Drug Design, Faculty of Pharmacy**, Ain Shams University, July 11-13, 2017.
- 8- Workshop on **Computer-Aided Drug Design I: Ligand-based Drug Design, Faculty of Pharmacy**, Cairo University, July 20, 2017.
- 9- **Vienna Summer School on Drug Design 2017, Department of Pharmaceutical Chemistry, University of Vienna, 1090 Vienna, Austria, September 17-22, 2017.**
- 10- Computational Chemistry workshop "**Virtual screening For Drug Discovery**" 24<sup>th</sup>-28<sup>th</sup> Jan, 2019

## LANGUAGES

- Arabic- native language.
- English- speak fluently and read/write with high proficiency.
- French

## Other scholarly activities

- Reviewing research article under the title: 1) 4-Quinolone hybrids and their antibacterial activities, 2) Cyclic urea and ureide tethered Coumarinyl and 1-Aza Coumarinyl triazoles as antitubercular agents: A Click Chemistry approach 3) Quinolone derivatives and their anti-fungal activities: An overview 4) Synthesis, antimycobacterial screening and ADME studies of new thiazolyl-pyrazole derivatives 5) Synthesis, antimycobacterial screening and ADME studies of new thiazolyl-pyrazole derivatives 6) Synthesis and evaluation of <math>\alpha</math>-aminoacyl amides as antimycobacterial agents effective on drug resistant tuberculosis 7) Synthesis and cytotoxicity studies of novel 5-phenylisatin derivatives and their activity evaluation on anti-migration and anti-angiogenesis 8) Benzoxazole derivatives as promising antitubercular agents for the **European Journal of Medicinal Chemistry**.
- Reviewing research article under the title: "Optimization of 1H-pyrrolo[2,3-b]pyridine derivatives as inhibitors of human neutrophil elastase" for **Drug Development Research, Wiley**.



- Reviewing a research article under the title: Synthesis And Antimicrobial Activity Of some New Quinoxaline Derivatives for the African Journal Of Pure And Applied Chemistry.
- Supervising research students: three candidates for Ph.D degree and six candidates for Ms. D.
- External oral examiner at the Faculty of Pharmacy, Cairo, Ein-Shams, Misr International, Heliopolis and El-Zagazig Universities.
- Collaborating in research work with professors and colleagues at Faculty of science and Faculty of Pharmacy, Ain-Shams, Cairo, Suez Canal, King Seoud, Kafr El Sheikh Universities.
- Organizing and President of **"The mini student's Conference"** annually at the Egyptian Russian University.

