

CURRICULUM VITAE

DALIA HUSSEIN SAAD SOLIMAN

2017

ASSOCIATE PROFESSOR

Department of Pharmaceutical Chemistry

Faculty of Pharmacy

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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

- **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** 12th 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.

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 17α -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^a, 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- α 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. Gomaa , Mahmoud M. Elaasser , Marwa M. Abdel-Aziz , Dalia H. Soliman
European Journal of Medicinal Chemistry, 138 698-714, 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 4th 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.**

LANGUAGES

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

Other scholarly activities

- Reviewing research article under the title: 4-Quinolone hybrids and their antibacterial activities for the European Journal of Medicinal Chemistry.; 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 and El-Zagazig Universities.
- Collaborating in research work with professors and colleagues at Faculty of science and Faculty of Pharmacy, Ain-Shams University.

