

# Amira Ibrahim Sayed Mohamed Khalifa

4014 Armed Forces Buildings, App. 1, Zahraa Nasr City, Cairo, Egypt.

Tel: +2 02 23835205; Mob: +2 01062664911 / 01112247500

E-mail: amiraelsaedy@yahoo.com, AMIRA\_KHALIFA@pharm.helwan.edu.eg



## **EDUCATION**

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### **Doctor of Philosophy Degree of Pharmaceutical Sciences (PhD) (Pharmaceutical Organic Chemistry)**

Faculty of Pharmacy, Helwan University, Cairo, Egypt, 2017.

Title of the thesis: Synthesis and Biological Screening of Certain Pyrrole and Condensed Pyrrole Derivatives.

### **PhD programmed courses, Pharmaceutical Organic Chemistry Department**

Faculty of Pharmacy, Helwan University, Cairo, Egypt, 2012, “Excellent”

### **Master of Pharmaceutical Sciences (Pharmaceutical Organic Chemistry)**

Faculty of Pharmacy, Helwan University, Cairo, Egypt, 2010.

Title of the thesis: Synthesis of Certain New Pyrimidine and Imidazole Derivatives of Medicinal Value.

### **Master programmed courses, Pharmaceutical Organic Chemistry Department**

Faculty of Pharmacy, Helwan University, Cairo, Egypt, 2006, “Excellent”

### **Bachelor of Pharmaceutical Sciences, 2004,**

Faculty of Pharmacy, Helwan University, “Excellent Honor”

## **WORK EXPERIENCE**

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**Coordinator** of Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Ahran Canadian University, 6<sup>th</sup> October, Giza, Egypt (December 2021 till present).

**Lecturer** of Pharmaceutical Organic Chemistry, Faculty of Pharmacy, Ahram Canadian University, 6<sup>th</sup> October, Giza, Egypt (December 2021 till present).

**Lecturer** of Pharmaceutical Organic Chemistry, Faculty of Pharmacy, Helwan University, Cairo, Egypt (April 2017 till December 2021), (Undergraduate and Postgraduate students).

**Assistant Lecturer** and PhD student at Pharmaceutical Organic Chemistry Department, Faculty of Pharmacy, Helwan University, Cairo, Egypt (May 2011- March 2017).

**Teaching Assistant** at Pharmaceutical Organic Chemistry Department, Faculty of Pharmacy, Helwan University, Cairo, Egypt (April 2005- April 2011).

**Reviewer at Journal of Advanced Pharmacy Research (JAPR)**, Faculty of Pharmacy, Helwan University, Cairo, Egypt.

## **PUBLICATIONS**

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1. Synthesis of Certain Pyrimidine Derivatives as Antimicrobial Agents and Anti-inflammatory agents, Mosaad S. Mohamed, Samir M. Awad and **Amira Ibrahim Sayed**, *Molecules*, **2010**, 15, 1882-1890.
2. Potent Anticonvulsant 1H-Imidazol-5(4H)-One Derivatives with Low Neurotoxicity, Mosaad Sayed Mohamed, Rehab Kamel Mahmoud, **Amira Ibrahim Sayed**, Moustafa E. El-Araby, *Open Journal of Medicinal Chemistry*, **2012**, 2, 24-29.
3. Novel Antiviral Compounds against Gastroenteric Viral Infections, Mosaad S. Mohamed, Rania H. Abd El-Hameed, **Amira I. Sayed**, and Sameh H. Soror *Arch. Pharm. Chem. Life Sci.*, **2015**, 348, 194-205.
4. Design, synthesis, assessment, and molecular docking of novel pyrrolopyrimidine (7-deazapurine) derivatives as non-nucleoside hepatitis C virus NS5B polymerase inhibitors, Mosaad S. Mohamed, **Amira I. Sayed**, Mohammed A. Khedr, Sameh H. Soror, *Bioorg. Med. Chem.*, **2016**, 24, 2146-2157.
5. Synthesis Strategies and Biological Value of Pyrrole and Pyrrolopyrimidine, Mosaad S. Mohamed, Rania H. Abd El-Hameed, **Amira I. Sayed**, *JAPR*, **2017**, 1, 1-24.

6. Synthesis of Novel Pyrrolopyrimidine Derivatives as CDK2 Inhibitors, Rania H. Abd El-Hameed and **Amira I. Sayed**, *Pharmacophore*, **2018**, 9 (5), 29-49.
7. Evaluation of novel pyrrolopyrimidine derivatives as antiviral against gastroenteric viral infections, Mosaad S. Mohamed, **Amira I. Sayed**, Mohammed A. Khedr, Shahira Nofal, Sameh H. Soror, *European Journal of Pharmaceutical Sciences*, **2019**, 127, 102–114.
8. Synthesis of novel pyrroles and fused pyrroles as antifungal and antibacterial agents, Rania H. Abd El-Hameed, **Amira I. Sayed**, Shima M. Ali, Mohamed A. Mosa, Zainab M. Khoder, Samar S. Fatahala, *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36 (1), 2183-2198.
9. Synthesis of Novel 2-Thiouracil-5-Sulfonamide Derivatives as Potent Inducers of Cell Cycle Arrest and CDK2A Inhibition Supported by Molecular Docking, Samar S. Fatahala, **Amira I. Sayed**, Shahenda Mahgoub, Heba Taha, Mohamed-I kotb El-Sayed, Mohamed F. El-Shehry, Samir M. Awad and Rania H. Abd El-Hameed, *International Journal of Molecular Sciences*, **2021**, 22 (21), 11957.
10. Synthesis of Some Novel Benzimidazole Derivatives as Anticancer Agent, and Evaluation for CDK2 Inhibition Activity, Rania H. Abd El-Hameed, Samar S. Fatahala, **Amira I. Sayed**, *Medicinal Chemistry*, **2022**, 18 (2), 238-248.
11. Novel pyrrolopyrimidine derivatives: design, synthesis, molecular docking, molecular simulations and biological evaluations as antioxidant and anti-inflammatory agents, **Amira I. Sayed**, Yara E. Mansour, Mohamed A. Ali, Omnia Aly, Zainab M. Khoder, Ahmed M. Said, Samar S. Fatahala and Rania H. Abd El-Hameed, *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37 (1), 1821–1837.
12. Novel Hit of DPP-4Is as Promising Antihyperglycemic Agents with Dual Antioxidant /Anti-Inflammatory Effects for Type 2 Diabetic Patients with COVID-19, Shahenda mahgoub, Samar S. Fatahala, **Amira I. Sayed**, Hanaa B. Atya, Mohamed F. El-Shehry, Hala Afifi, Samir M. Awad, Rania H. Abd El-Hameed, Heba Taha, *Bioorganic Chemistry*, **2022**, 128, 106092.

## **WORKSHOPS & TRAINING**

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- **Workshop “Computer Assisted Drug Design” (Online)**, Kafrelsheikh University, October 2022.
- **Mobile Applications**, Helwan University, October 2022.
- **University Teacher Preparation**, Helwan University, September 2022.
- **Microsoft Teams**, Helwan University, August 2022.
- **Legal Aspects in Egyptian Universities**, Helwan University, August 2022.

- **Bachelor and Postgraduate Programs Specifications**, ACU, June 2022.
- **Artificial Intelligence**, Helwan University, June 2022.
- **Using Technology in Teaching**, Helwan University, June 2022.
- **Curricula Design and Courses Specifications and Reports**, Helwan University, June 2022.
- **Modern Assessment Methods**, Helwan University, April 2022.
- **Google Sheets Advanced Tips and Tricks**, Linked In, 2021.
- **Excel Essential Training (Office 365/Microsoft 365)**, Linked In, 2021.
- **Excel 2019 Essential Training**, Linked In, 2021.
- **Workshop “Recent Advances in Drug Discovery”**, Helwan University, June 2018.
- **Workshop “Computational Techniques in Drug Design and Discovery (MOE)”**, Assiut University, February 2018.
- **Workshop “Effective Presentation Skills”** Helwan University, 2017.
- **Workshop “Work under Psychological Pressures”** Helwan University, 2016.
- **Workshop “Scientific Conferences Organization”** Helwan University, 2015.
- **Workshop “Time and Meetings Management”** Helwan University, 2014.
- **Workshop “Quality Standards in Teaching”** Helwan University, 2014.
- **Workshop “International Publishing of Research”** Helwan University, 2014.
- **Workshop “Student Evaluation”** Helwan University, 2010.
- **Workshop “Strategic Planning”** Helwan University, 2008.
- **Workshop “Effective Teaching”** Helwan University, 2006.

## **HONORS AND AWARDS**

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- Best staff member, Pharmaceutical Chemistry Department, Faculty of Pharmacy, Ahram Canadian University.
- Best Poster Presentation, 2<sup>nd</sup> International Pharma Conference, Faculty of Pharmacy, Helwan University, Sept. 2018. “Design, synthesis, assessment, and molecular docking of novel pyrrolopyrimidine (7-deazapurine) derivatives as non-nucleoside hepatitis C virus NS5B polymerase inhibitors”.
- Best PhD Thesis Award, Helwan University, 2017-2018.

- A Grant from **Academy of Scientific Research and Technology (ASRT)**, Ministry of Research and Education, May 2013-May 2015.

## **MEMBERSHIP**

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- Member of PCIQA Project (Program of Continuous Improvement and Qualification for Accreditation), Faculty of pharmacy, Helwan University (Financial Resources).
- Member of Committee of Undergraduate Student Affairs, Faculty of Pharmacy, Helwan University.
- Member of Committee of Environment Protection and Community Services, Faculty of Pharmacy, Helwan University.

## **RESEARCH INTERESTS**

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- Synthetic Medicinal Chemistry.
- Spectroscopy
- Drug Design

## **SEMINARS**

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- Amino acids and Peptidomimetics
- Hepatitis C Virus.
- Pyrrolopyrimidines against Gastroenteric Viruses.
- Pyrrolopyrimidines as HCV NS5B Polymerase Inhibitors.
- Pyrimidines as Anti-Inflammatory and Anti-Microbial agents.
- Imidazoles as Anti-Convulsant Agents.

## **PERSONAL PROFILE**

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- **Nationality:** Egyptian
- **Current Job:** Lecturer of Pharmaceutical Organic Chemistry (Medicinal Chemistry).
- **Date of Birth:** October 24, 1982
- **Marital status:** Married

## **LANGUAGES**

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- Arabic: Native    English: Very Good