

**Asmaa Said Ali Yassen**

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Faculty of Pharmacy, Suez Canal University, Ismailia (41522), Egypt

**Tel.:** +201096206738

**E-mail:** [asmaa\\_yaseen@pharm.suez.edu.eg](mailto:asmaa_yaseen@pharm.suez.edu.eg)

[asmaayassin.ibpr@suez.edu.eg](mailto:asmaayassin.ibpr@suez.edu.eg)

[jj20220175@ms.nagasaki-u.ac.jp](mailto:jj20220175@ms.nagasaki-u.ac.jp)



**EDUCATION**

- **2020** Bioinformatics Diploma, Institute of Biotechnology for Graduate Studies and Research Affairs, Ismailia, Egypt.
- **2017** Doctoral of Philosophy in Pharmaceutical Sciences, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan.
- **2013** Master in Pharmaceutical Sciences, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt
- **2007** Bachelor in Pharmaceutical Sciences, Faculty of Pharmacy, Suez Canal University, Ismailia, Egypt (GPA: 3.92/4.0, Cumulative grade: Excellent with Honor)

**EMPLOYMENT**

- **2023- current** Assistant professor of Organic Chemistry, Suez Canal University, Egypt
- **Jun. 2022- Dec. 2022** Visiting researcher, Graduate School of Biomedical Sciences, Nagasaki University, Japan
- **2019- Jun. 2022** Assistant professor of Organic Chemistry, Suez Canal University, Egypt
- **2017-2019** Research Fellow, Graduate School of Biomedical Sciences, Nagasaki University, Japan
- **2014-2017** Teaching Assistant of Pharmaceutical Organic Chemistry, Nagasaki University, Japan
- **2013** Teaching Assistant of Organic Chemistry, Suez Canal University, Egypt
- **2007-2013** Demonstrator of Organic Chemistry, Suez Canal University, Egypt
- **2005-2007** Community Pharmacist, El-Zhrra Pharmacy, Ismailia, Egypt (summer training).

**PROFESSIONAL SKILLS**

**School of Pharmacy, Suez Canal University, Assistant Professor,** Synthesis and Biological Evaluation of Heterocyclic Compounds with Potential Biological Activities.

**School of Pharmaceutical Science, Nagasaki University, Research Fellow,** Semi synthesis of polyphenols- isolated from Japanese green tea-for treatment of Alzheimer Disease.

**Graduate School of Biomedical Sciences, Nagasaki University, Doctoral Candidate,** Synthesis of natural products having highly substituted cyclopentane rings. We were interested in marine C-18 oxylipins isolated from various brown algae, the parent member of which are ecklonialactone A and ecklonialactone B.

**Faculty of Pharmacy, Suez Canal University, Master student,** Synthesis of Quinazoline based compounds as potential antiproliferative agents

**Faculty of Pharmacy, Suez Canal University, Instructor and teaching assistant,** Gained a lot of expertise in teaching the undergraduate student the practical courses of Pharmaceutical organic chemistry, Prepared and designed practical written and oral exam to first and second year pharmacy student, Supervised and assessed pharmacy students' summer training course.

## TEACHING EXPERIENCE

- I) **Pharmaceutical Organic Chemistry Courses for Undergraduate Students**
- **Organic Chemistry I.** A standard course offered to the First-year class. This course shed the light on Aliphatic Hydrocarbons, Alkyl halides, Stereochemistry.
  - **Organic Chemistry II.** A standard course offered to the First-year class. This course shed the light on Chemistry of Arenes, Chemistry of Polynuclear Aromatic Compounds, Chemistry of Aryl Halides and carbohydrates.
  - **Organic Chemistry III.** A standard course offered to the Second -year class. This course shed the light on Chemistry of Heterocycles, Introduction of Spectroscopy, Ultraviolet (UV), Spectroscopy (IR), Spectroscopy (NMR), Spectroscopy (Mass)
- II) **Organic Chemistry Courses for Postgraduate Students**
- **Molecular Design**
  - **Enzyme Kinetics**
  - **Topics in Organic Reactions**
- III) **System Biology and Biological Networks Course**  
**Institute of biotechnology for Postgraduate studies and research**  
**PhD program**

## SUPERVISION & MENTORSHIP

- Synthesis and Biological Evaluation of Heterocyclic Compounds with Potential Biological Activities, **Ahmed Samir, 2019, (Master Thesis).**
- Synthesis and Biological Importance of Novel Heterocyclics as Potential Therapeutics, **Sherief Mohamed, 2020, (Doctoral Thesis).**
- Synthesis and Biological Importance of 1,2,3-Triazole Derivatives as Potential Therapeutics, **Heba Farid, 2021, (Doctoral Thesis).**
- Synthesis, Structural Characterization and Bioactivity Evaluation of Novel 1,2,3 -Triazole Derivatives as Anticancer Agents, **Nareman Abd El Aziz, 2023, (Doctoral Thesis).**

## CONFERENCES, SEMINARS, WORKSHOPS , WEBINARS & COURSES

### I. Oral PRESENTATIONS:

- **Asmaa Said Ali Yassen** (8-9 March 2023). " *Design, Synthesis and Molecular Modeling of Quinazoline Derivatives as a Dual Kinase Inhibitors Targeting EGFR and VEGFR-2*", The Fifth Youth Research Forum, **Qatar University, Qatar.**
- **Asmaa Said Ali Yassen** (2 May 2023). " *Semi synthesis and Biological Evaluation of Natural Polyphenols as Potential Agents for Alzheimer's Disease*". The 5<sup>th</sup> Annual Student Research Conference, Suez Canal University, **Ismailia, Egypt.**
- **Asmaa Said Ali Yassen** (April 2019). " *Antibacterial and Antioxidants*", Environment Day, **Suez Canal University, Egypt.**

### II. POSTER PRESENTATION:

- **Asmaa Said Ali Yassen** (18-19 July 2023). " *Semi synthesis and Biological Evaluation of Natural Polyphenols as Potential Agents for Alzheimer's Disease*". The Annual Conference for Postgraduate Studies and Applied Research, Suez Canal University, **Ismailia, Egypt.**
- **Asmaa Said Ali Yassen** (10-11 May 2023). " *Synthesis of 1,2,3-triazole-dual dithiocarbamate hybrids as anticancer agents*". 2<sup>nd</sup> International Conference of Faculty of Pharmacy, Menofia University, **Menofia, Egypt.**

- **Asmaa Said Ali Yassen** (6-7 March 2023). " *Synthesis of 1,2,3-triazole-pyrole hybrids as anticancer agents*". The 10<sup>th</sup> Young Researchers Conference Horizons of the Scientific Research and the New Republic, **Ismailia, Egypt**.
- **Asmaa Said Ali Yassen** (20-21 March 2022), 1<sup>st</sup> international Conference on the pharmaceutical and Bio-Medical Research (PBMR) " Design and Synthesis of some Azoles Incorporating Sulphadiazine Derivatives as Protein Tyrosine Phosphatase-1B inhibitors", " New Horizons on Pharmaceutical Sciences", School of Pharmacy, Siniai University, **Kantara, Egypt**.
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- **Asmaa Said Ali Yassen** (December 2019). " *Enantioselective Protecting-Group-Free Synthesis of (+)-9,10-Dihydroecklonialactone B*". **Ismailia, Egypt**.
- **Asmaa Said Ali Yassen** (June 2017). " *Enantioselective Protecting-Group-Free Synthesis of (+)-9,10-Dihydroecklonialactone B*". **Fukuoka, Japan**.
- **Asmaa Said Ali Yassen** (March 2013). " *Design and Synthesis of Some Substituted Quinazoline Derivatives as a Template for Antitumor Activity*". 1st Young Researchers Conference at SCU, **Ismailia, Egypt**.
- **Asmaa Said Ali Yassen** (December 2012) " *synthesis and antimicrobial activities of some novel heterocyclic compounds based on quinazoline scaffold*". 5<sup>th</sup> International Conference on Natural Toxins, **Cairo, Egypt**.

### **III. ATTENDANCE:**

- 24<sup>th</sup> Banyu Fukuoka symposium (June 7, 2014) **Fukuoka, Japan**
- 26<sup>th</sup> Banyu Fukuoka symposium (April 23, 2016) **Fukuoka, Japan**
- 5<sup>th</sup> Annual Cardiology Conference of Suez Canal Authority (18-20 July 2018) **Ismailia, Egypt**.
- 5<sup>th</sup> Annual Conference of Health Insurance Organization (Ismailia branch) in Collaboration with Tropical Medicine department, Suez Canal University (21-22 February 2019) **Ismailia, Egypt**.
- The 4<sup>th</sup> Upper Egypt Assisted Reproduction Conference (20-22 February 2019) **Cairo, Egypt**.
- 1<sup>st</sup> SGH Women Health Care (March 7, 2019) **Saudi German Hospital, Egypt**.
- The 1<sup>st</sup> ADF Lipid Odyssey (March 21, 2019) **Cairo, Egypt**.
- The 23<sup>rd</sup> Pan Arab Pre-Conference Workshops & Cardiometabolic Program (27-28 March 2019) **Nasser Institute for Research and Treatment, Egypt**.
- 23<sup>rd</sup> Pan Arab Conference on Diabetes PACD23 (29-21 March 2019) **Marrakesh, Morocco**.
- 1<sup>st</sup> Bioinformatics Conference (Diversity of Bioinformatics Careers), **Institute of Biotechnology for Graduate Studies and Research Affairs** (September, 2019), **Ismailia, Egypt**
- 10<sup>th</sup> Arab Diabetes Forum (2-4 October 2019), **Cairo, Egypt**
- Workshop on Clinical Research Methodology by **nature research ACADEMIES** (16 October 2019) **Suez Canal University, Egypt**.
- Heart Failure updates 2019 conference (23-24 October 2019) **Cairo, Egypt**.
- Recent Advance in Pulmonary ICU conference by **Winter Chapter South Valley Society for Pulmonology and Allergy (December 20, 2019), Cairo, Egypt**.
- The best of American Diabetes Association conference (**February 12-13, 2020**), **Cairo Egypt**.
- Biotechnology innovations and COVID-19 pandemic conference, **Institute of Biotechnology for Graduate Studies and Research Affairs** (November 2020), **Ismailia, Egypt**.
- 1<sup>st</sup> international Conference on the pharmaceutical and Bio-Medical Research (PBMR) " New Horizons on Pharmaceutical Sciences", School of Pharmacy, Siniai University (20-21 March 2022), **Kantara, Egypt**.
- The 10<sup>th</sup> Young Researchers Conference Horizons of the Scientific Research and the New Republic, Suez Canal University (6-7 March 2023), **Ismailia, Egypt**.

## **Pharmaceutical Organic Chemistry Department**

- 2<sup>nd</sup> International Conference of Faculty of Pharmacy, Menofia University (10-11May 2023), **Menofia, Egypt.**

### **IV. Workshop**

- Clinical Research Methodology- 16/10/2019-School of Pharmacy, Suez Canal University
- Successful pre-submission and publishing strategies-23/9/2019- Suez Canal University, Jeffery Michael Robens (Nature Academy).
- Springer-Nature Open Access Agreement- (24/5/2022)- Center of International publication, Suez Canal University.
- Flow cytometry as a research tool – (12-13 March 2023)- Center for Research & Development, Faculty of Medicine, Suez Canal University.
- Drug Design and Discovery Software- (9/5/2023)- affiliated to 2<sup>nd</sup> International Conference of Faculty of Pharmacy, Menofia University

### **V. Seminars**

- Novel nano discs and their applications in studying membrane proteins and viral entry-13/10/2019- Suez Canal University, Dr. Mahmoud L. Nasr, Assistant professor, Harvard University

### **VI. Courses**

- H3ABioNet (IBT) Introduction to Bioinformatics

Module 1: Databases and Resources (16 hours)

Module 2: Linux (16 hours)

Module 3: Sequence Alignment Theory and Application (12 hours)

Module 4: Multiple Sequence Alignment (12 hours)

Module 5: Genomics (20 hours)

### **VII. Webinars**

- **CABI Online-platform webinar series organized in collaboration with the Egyptian Knowledge Bank (EKB)**
  1. Professional Scientific Oral Presentations: How to Deliver Inspiring Presentations, March 20, 2022.
  2. How to make the most out of CaBI's scientific resources via the EKB, April 3, 2022.
  3. How to select a novel research point, April 10, 2022.
  4. How to design your scientific experiments, April 17, 2022.
  5. Data analysis and interpretation, April 24, 2022.
  6. How to write the introduction and Material & Methods, May 8, 2022.
  7. How to write Conclusions, abstract, Title & references, May 22, 2022
- **Research Academy on Campus, ELSEVIER**
  1. Setting the structure of your research article, March 16, 2022.
  2. Writing an abstract – Elsevier Author Workshop, March 23, 2022
  3. Writing for Visibility - Elsevier Author Workshop, March 30, 2022.

4. Mendeleev; Building your Library & Collaborations, April 26, 2022.

- **Activities affiliated to SCU 8<sup>th</sup> Young researchers conference: Future Shaping.... What is after pandemic?**
  1. Advanced Manuscript Editing Using Microsoft word, January 26, 2021.
  2. Data Handling and Statistical Analyses, January 28, 2021.
- **Activities affiliated to SCU 9<sup>th</sup> Young researchers conference: Future Climate Change: Opportunities and Challenges**
  1. Social Research Skills, February 17, 2022.
  2. Effective Presentation Skills, March 2, 2022.
  3. Data Analysis for International Publication, March 7, 2022.
  4. Design of Scientific Posters Using Photoshop, March 8, 2022.
  5. Effective EKB Searching Skills, March 10, 2022.
- **IET in collaboration with the Egyptian Knowledge Bank (EKB)**
  1. Tips for a successful research career, March 23, 2022.
  2. Understanding the peer review and publication processes- how to get published, April 6, 2022.
- **AdisInsight for EKB- How to use our pipeline database to support research, March 24, 2022.**
- **Excellence in peer review at IOP publishing, March 30, 2022.**
- **Accelerating your science teaching and learning through JoVE, March 30, 2022.**
- **"Referencing management Using Zotero Program "during the activities of the sustainable Development in Sinai ( Reality and Expectations), March 5, 2022.**

#### **HONORS & AWARDS**

- **2023** Suez Canal University award for international publication
- **2023** Winner of the First Best Research, Qatar University
- **2022** Ministry of Higher Education Fellowship (6 months)
- **2020** Suez Canal University award for international publication
- **2013** Japanese governmental fellowship
- **2007** General syndicate of pharmacist award for excellence
- **2007** Ismailia syndicate of pharmacist award for excellence

#### **PROFESSIONAL MEMBERSHIP**

- Member, Higher Education Enhancement Project Fund of Pharmacy Courses, Faculty of Pharmacy, Suez Canal University.
- Member, Quality Assurance and Accreditation Project, Faculty of Pharmacy, Suez Canal University.
- Member, General Syndicate of Pharmacists, Egypt.
- The member of Suez Canal University Staff Club.

#### **LANGUAGE**

- **Native:** Arabic; **Fluent:** English; **Good:** Japanese; **Fair:** French

#### **LIST OF PUBLICATIONS:**

1. **Asmaa S. A. Yassen**, Hosam Eldin Abd Elhamed Ahmed Elshihawy, Mohamed Mokhtar Amin Said, Khaled Abouzid Mohamed Abouzid (2014): "Molecular modelling and synthesis of quinazoline-based compounds as potential antiproliferative agents" *Chemical and Pharmaceutical Bulletin*, 62, 454.
2. **Asmaa S. A. Yassen**, Jun Ishihara, Susumi Hatakeyama (2017). "Enantioselective Protecting-Group-Free Synthesis of (+)-9,10-Dihydroecklonialactone B", *Heterocycles*, 94, 59.
3. Safaa M. Kishk, Rania M. Kishk, **Asmaa S. A. Yassen**, Mohamed S. Nafie, Nader A. Nemr, Gamal ElMasry, Salim Al-Rejaie, Claire Simons, Molecular Insights into Human Transmembrane Protease Serine-2 (TMPS2) Inhibitors against SARS-CoV2: Homology Modelling, Molecular Dynamics, and Docking Studies, *Molecules* 2020, 25, 5007; doi:10.3390/molecules25215007.
4. Ranza Elrayess, Mohamed Saleh Elgawish, Marwa Elewa, Mohamed S. Nafie, Sameh S. Elhady, **Asmaa S. A. Yassen**, Synthesis, 3D-QSAR, and Molecular Modeling Studies of Triazole Bearing Compounds as a Promising Scaffold for Cyclooxygenase-2 Inhibition, *Pharmaceuticals* 2020, 13, 370; doi:10.3390/ph13110370.
5. Ranza Elrayess, Yasmine M. Abdel Aziz, Mohamed Saleh Elgawish, Marwa Elewa, **Asmaa S. A. Yassen**, Sameh S. Elhady, Hosam A. Elshihawy, Mohamed M. Said, Discovery of Potent Dual EGFR/HER2 Inhibitors Based on Thiophene Scaffold Targeting H1299 Lung Cancer Cell Line, *Pharmaceuticals* 2021, 14, 9. <https://dx.doi.org/10.3390/ph14010009>.
6. Mohamed Saleh Elgawish, Mohamed S. Nafie, **Asmaa S. A. Yassen**, Koji Yamada and Nagat Ghareb, The design and synthesis of potent benzimidazole derivatives via scaffold hybridization and evaluating their antiproliferative and proapoptotic activity against breast and lung cancer cell lines, *New J. Chem.*, 2022. DOI: 10.1039/d1nj05655g.
7. Ranza Elrayess, Khaled M. Darwish, Mohamed S. Nafie, Gharieb S. El-Sayyed, Mohamed M. Said and **Asmaa S. A. Yassen**, Quinoline-hydrazone hybrids as dual mutant EGFR inhibitors with promising metallic nanoparticle loading: rationalized design, synthesis, biological investigation and computational studies, *New J. Chem.*, 2022. doi.org/10.1039/D2NJ02962F
8. Safaa M. Kishk, Enas E. Eltamany, Mohamed S. Nafie, Roaa M. Khinkar, Rawan H. Hareeri, Sameh S. Elhady and **Asmaa S. A. Yassen**, Design and Synthesis of Coumarin Derivatives as Cytotoxic Agents through PI3K/AKT Signaling Pathway Inhibition in HL60 and HepG2 Cancer Cells, *Molecules* 2022, 27, 6709.
9. Ranza Elrayess, Mohamed S. Elgawish, Mohamed S. Nafie, Nagat Ghareb, **Asmaa S. A. Yassen**, 2-Phenylquinazolin-4(3H)-one scaffold as newly designed, synthesized VEGFR-2 allosteric inhibitors with potent cytotoxicity through apoptosis, *Archiv der pharmazie*, 2023, <https://doi.org/10.1002/ardp.202200654>.
10. Yuma Hori, Kaori Watanabe, **Asmaa S. A. Yassen**, Keiro Shirotani, Takashi Tanaka, Nobuhisa Iwata, Enhancement of Neprilysin Activity by Natural Polyphenolic Compounds and Their Derivatives in Cultured Neuroglioma Cells, *Biological and Pharmaceutical Bulletin*, 2023, <https://doi.org/10.1248/bpb.b22-00833>.

### **MAIN RESEARCH INTERESTS**

- Design and Synthesis of Novel Heterocycles as Potential Therapeutics
- Semi synthesis of naturally isolated compounds

**REFERENCES**

- **Prof. Jun Ishihara**  
School of Pharmaceutical sciences, Department of Pharmaceutical Organic Chemistry,  
Nagasaki University, Japan  
e-mail: [jishi@nagasaki-u.ac.jp](mailto:jishi@nagasaki-u.ac.jp) Tel: +81-95-819-2426
- **Prof. Takashi Tanaka**  
School of Pharmaceutical sciences, Department of Natural Product Chemistry, Nagasaki  
University, Japan  
e-mail: [t-tanaka@nagasaki-u.ac.jp](mailto:t-tanaka@nagasaki-u.ac.jp) Tel: +81-95-819 2432
- **Prof. Hosam Elshihawy**  
School of Pharmacy, Department of Organic Chemistry, Suez Canal University, Egypt  
e-mail: [hosamelshihawy74@hotmail.com](mailto:hosamelshihawy74@hotmail.com) Tel: +201200574694