

Kazem Ahmed Mahmoud, Ph.D.

Lecturer of Pharmaceutical Medicinal Chemistry,
University Student Activities & S. U. Supervisor,
Head of Students Field Training Committee,
Head of Alumni Committee,
Faculty of Pharmacy,
Egyptian Russian University.
11829 Badr City, Cairo/Suez Road,
Egypt.

**Personal Data**

Nationality: Egyptian

Date and Place of birth: 06.01.1981; Sohag/Egypt

Current Address: 13 El-Sheemy Street,
Dokki, Giza, Egypt

Marital status: Married

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Education

- 2010-2013 **PhD in Pharmaceutical Medicinal Chemistry**
(*R.G. Drug Development and Analysis*)
Martin Luther University Halle-Wittenberg, Germany
Title (*Development of Novel Protein Kinase Inhibitors as Potential Therapeutics for Breast Cancer*); **Supervisor:** Prof.Dr. A. Hilgeroth
- 2009- 2010 **Master in Pharmaceutical Medicinal Chemistry**
(*R.G. Drug Development and Analysis*)
Martin Luther University Halle-Wittenberg, Germany
Title (*New 1-Aza-9-oxafluorenes as Inhibitors of Alzheimer Disease-Relevant Kinases*); **Supervisor:** Prof.Dr. A. Hilgeroth
- 2005 **Clinical Pharmacology Course**
Egyptian Ministry of Health & Population
Cairo, **Egypt**
- 1998- 2003 **Bachelor of Pharmacy and Pharmaceutical Sciences**
Faculty of Pharmacy, Assiut University, Assiut, **Egypt**

Work experience

- 01/02/2018- Till now **Egyptian Russian University** (Faculty of Pharmacy)
Lecturer of Pharm.Chem.; Drug Design & Org.Chem. ; Badr City, Cairo/Suez Road, **Egypt**
- 01/02/2016-31/1/2018 **Ahram Canadian University** (Faculty of Pharmacy)
Lecturer of Pharm.Chem. & Org.Chem. ; 6th October City,

05/2014-01/2016	Giza, Egypt Farma-plus Apotheke <i>Academic pharmacist</i> preparing for the “ <i>German Approbation</i> ” <i>Kaiserslautern, Rheinland-Pfalz, Germany</i>
02/2013- 10/2013	Martin Luther University (Institute for Pharmacy) <i>Postdoc.; Halle (Saale), Sachsen-Anhalt, Germany</i>
02/2006- 10/2008	Al- Farabi Pharmacies Chains (Community Pharmacy) <i>Pharmacist; Riyadh, Saudi Arabia</i>
06/2005- 12/2005	Sanofi-Aventis Pharmaceutical Company <i>Medical representative; Cairo, Egypt</i>
06/2003- 06/2005	Al- Huda Pharmacy (Community Pharmacy) <i>Pharmacist; Cairo, Egypt</i>

Skills & Qualifications

Teaching Experience:

- ✓ Teaching the following course in Pharmaceutical Medicinal Chemistry for undergraduate pharmacy students; *Drug Design* [Level 5]; Faculty of Pharmacy, **Egyptian Russian University, Egypt.**
- ✓ Teaching the following courses in Pharmaceutical Organic Chemistry for undergraduate pharmacy students; *Carbonyl Compounds, Amines* [Level 1, **Org.Chem.I**] and *Heterocyclic Chemistry* [level 2, **Org.Chem.III**]; Faculty of Pharmacy, **Egyptian Russian University, Egypt.**
- ✓ Teaching the following courses in Pharmaceutical Medicinal Chemistry for undergraduate pharmacy students; *Drug Metabolism, NSAIDs, Opioid Analgesics* [Level 4, **Med.Chem.I**], *Antihistaminic Drugs, Cardio-Vascular Drugs* [Level 4, **Med.Chem.II**]; Faculty of Pharmacy, **Ahram Canadian University, Egypt.**
- ✓ Teaching the following courses in Pharmaceutical Organic Chemistry for undergraduate pharmacy students; *Carbohydrate Chemistry, Polynuclear Chemistry* [level 2, **Org.Chem.II**] and *Heterocyclic Chemistry* [level 2, **Org.Chem.III**]; Faculty of Pharmacy, **Ahram Canadian University, Egypt.**
- ✓ Supervising the practical work (*Wahlpflichtfach*) for 3rd year pharmacy students, Pharmaceutical Chemistry & Clinical Pharmacy Department, Institute of Pharmacy, **Martin Luther University Halle-Wittenberg, Germany** (for 8 Semesters).
- ✓ **Teaching Assistantship** granted by **Martin Luther University Halle-Wittenberg, Germany** for two successive semesters (2012)
Program: *DAAD STIBET – Doktorandenförderung*

 **Search Experience:**

- ✓ Good experience in organic synthetic reaction techniques and mechanisms (Michael Addition, Grignard reaction, Nenitzescu-reaction, Friedel-Crafts Acylation, Aldol Condensation, Electrophilic Aromatic Substitution reaction (sulfonation, nitration, acetylation, halogenations & cyanation), Nucleophilic substitution reaction, Mannich reaction, Suzuki-Miyaura reaction, Air-sensitive reactions and some other organic chemistry lab skills.
- ✓ Experience in analyzing NMR (^1H , ^{13}C , 1D & 2D), MS (ESI & EI) and IR spectra.
- ✓ **Purification Skills:** isolation of reaction products using column chromatography, preparative TLC and HPLC.
- ✓ **Computer Skills:** Scientific search (Scifinder & Reaxys), Journal Editing, ChemDraw and MestReNova Microsoft.
- ✓ **Additional Skills:** experience in Medicinal Chemistry, Drug Development & Discovery, interpretation of Biological Data Analysis (Protein Kinase Assay, NCI 60-Cell-Line Screenings [One- and/or Five-dose], Docking Studies) and SAR investigation.

Grants & Awards

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|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2011 | Research Assistantship granted by Martin Luther University Halle-Wittenberg for summer semester
Program: <i>DAAD STIBET – Doktorandenförderung</i> |
| 2012 | Teaching Assistantship granted by Martin Luther University Halle-Wittenberg for two successive semesters
Program: <i>DAAD STIBET – Doktorandenförderung</i> |

Memberships & Academic Activities

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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1999 – 2003 | Elected member for Student Union, Faculty of Pharmacy, Assiut University, Assiut, Egypt |
| 2003 | Member of the Egyptian Pharmacists Syndicate |
| 2003 | Member of the Egyptian Ministry of Health |
| 2007 – till now | Member of the Egyptian Pharmacists Society in Riyadh |
| 2/2016 – 2/2018 | General Supervisor of Student Union and Student Activities, Faculty of Pharmacy, Ahram Canadian University, Egypt. |
| 2/2016 – 2/2018 | Vice head of the Alumni Society, Faculty of Pharmacy, Ahram Canadian University, Egypt. |
| 2/2016 – till now | Quality Assurance Member, Faculty of Pharmacy [in both Ahram Canadian University & Egyptian Russian University] |
| 28-29 April 2018 | Member of Organization Committee for PHARMA-EGYRUSS 2018 international conference http://www.pharmaegyru.com/ |

Books & Publications & Scientific Activities

✚ **Books:**International Books:

- “Novel Protein Kinase Inhibitors as New Therapeutics for Breast Cancer”
Author: Kazem Mahmoud
Publisher: LAP LAMBERT Academic Publishing (trademark of OmniScriptum GmbH & Co. KG), Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, **Germany**
ISBN: 978-3-659-70962-3

Books for Undergraduate Students:

- Organic Chemistry I [level 1, second semester]
- Organic Chemistry II [level 2, first semester]
- Organic Chemistry III [level 2, second semester]
- Drug Design [level 5, first semester]

✚ **Reviews:**

- Mardia Telep El-Sayed, **Kazem Mahmoud**, Andreas Hilgeroth. Synthesis of β -Nitroamines via Classical Mannich and Aza-Henry Reactions. *J. Current Organic Chemistry* **2013**, *17*, 1200-1224.

✚ **Papers:**

- Mardia T. El-Sayed, **Kazem Ahmed Mahmoud**, Frank. W. Heinemann, Andreas Hilgeroth. Novel Tetraindoles and Unexpected Cycloalkane Indoles from the Reaction of Indoles and Aliphatic Dialdehydes. *Journal of Heterocyclic Chemistry*, **2017**, *54*, 714-719
- Mardia T. El Sayed, **Kazem Mahmoud**, Andreas Hilgeroth, Issa M. I. Fakhr, Synthesis of novel indolo spirocyclic compounds. *Journal of Heterocyclic Chemistry*, **2016**, *53*, 188-196.
- Mardia T. El Sayed, Khadiga M. Ahmed, **Kazem Mahmoud**, Andreas Hilgeroth, Synthesis, cytostatic evaluation and structure activity relationships of novel bis-indolylmethanes and their corresponding tetrahydroindolo-carbazoles. *European Journal of Medicinal Chemistry* **2015**, *90*, 845-859.
- Oelze, Markus; **Mahmoud, Kazem**; Sippl, Wolfgang; Wersig, Tom; Hilgeroth, Andreas; Ritter, Christoph. Novel 4-anilino- α -carboline derivatives induce cell death in nonadhesive breast cancer cells through inhibition of Brk activity. *International journal of clinical pharmacology and therapeutics*, **2015**, *53*, 1052-1055.
- **Kazem Ahmed Mahmoud**, M. Krug, T. Wersig, I. Slynko, C. Schächtele, F. Totzke, W. Sippl, and A. Hilgeroth. Discovery of 4-anilino α -carbolines as novel Brk inhibitors. *Bioorg. Med. Chem. Lett.* **2014**, *24*, 1948-1951.
- **Kazem Ahmed Mahmoud**, T. Wersig, I. Slynko, F. Totzke, C. Schächtele, M. Oelze, W. Sippl, C. Ritter, and A. Hilgeroth. Novel inhibitors of breast cancer relevant kinases Brk and HER2. *Med. Chem. Comm.* **2014**, *5*, 659-664
- Mardia El Sayed, **Kazem Mahmoud**, Andreas Hilgeroth. Glacial acetic acid as an efficient catalyst for simple synthesis of dindolylmethanes. *Current Chemistry Letters* **2014**, *3*, 7-14.
- Mardia T. El Sayed, Khadiga M. Ahmed, **Kazem Mahmoud**, Andreas Hilgeroth, Novel Aspects of Domino Reaction of Indoles with Homo-

Phthalaldehyde and Tere-phthalaldehyde. *The Global Journal of Science Frontier Research* **2014**, *14*, 6-B, 15-21.

- Mardia T. El-Sayed, **Kazem Mahmoud**, Khadiga M. Ahmed, Hassan M. Awad, Andreas Hilgeroth, First oxidized tetraindoles with antimicrobial evaluation and structure activity relationship. *Journal of Harmonized Research in Pharmacy* **2014**; *3*(4):176-176.
- Volkmar Tell, **Kazem Ahamed Mahmoud**, Kanin Wichapong, Christoph Schächtele, Frank Totzke, Wolfgang Sippl and Andreas Hilgeroth. Novel aspects in structure-activity relationships of profiled 1-aza-9-oxafluorenes as inhibitors of alzheimer disease-relevant kinases cdk1, cdk5 and gsk3 β . *Med. Chem. Comm.* **2012**, *3*, 1413-1418.
- Volkmar Tell, Max Holzer, Lydia Herrmann, **Kazem Ahmed Mahmoud**, Christoph Schächtele, Frank Totzke, Andreas Hilgeroth. Multitargeted drug development: Discovery and profiling of dihydroxy substituted 1-aza-9-oxafluorenes as lead compounds targeting Alzheimer disease relevant kinases. *Bioorg. Med. Chem. Lett.* **2012**, *22*, 6914-6918.
- **Kazem Mahmoud**, Mardia T. El-Sayed. One pot synthesis of Novel Antifungal mono-, bis- and tris-Trizines. (**in preparation**)

✚ Posters:

- V. Tell, **K. A. Mahmoud**, I. Hilbrich, K. Wichapong, M. Holzer, C. Hempel, C. Schächtele, F. Totzke, W. Sippl, A. Hilgeroth. **Novel Inhibitors of Alzheimer Disease (AD) Relevant Kinases: Structure-activity Relationships and First In Vitro Activity Data.** *10th International Conference on Alzheimer's & Parkinson's Disease*, **Barcelona, Spain**, 9-13 March **2011**.
- Mardia Teleb, E., **Kazem, A.M.**, Hilgeroth, A. **Novel Bis-Indolyl Cytostatics.** *6th Summer School in Medicinal Chemistry*, **Regensburg, Germany**, 26-28 September **2012**.
- Mardia Teleb, E., **Kazem, A. M.**, Hilgeroth, A. **Synthesis of Novel Indolo Spirocyclic Compounds.** *International Congress of Young Chemists "YoungChem2012"*, **Gdańsk, Poland**, 10-14 October **2012**.
- M. Oelze, **K. A. Mahmoud**, W. Sippl, T. Wersig, A. Hilgeroth, C. A. Ritter. **Novel 4-Aniline- α -carboline derivatives induce cell death in non adhesive breast cancer cells through inhibition of Brk activity.** *Central European Society for Anticancer Drug Research "CESAR" Annual Meeting; Drug and Medication Safety in Oncology*, **Bonn, Germany**, 26-28 June **2014**.
- **Kazem Mahmoud**, Mardia El-Sayed, Marcus Oelze, Wolfgang Sippl, Frank Totzke, Christoph Ritter, Andreas Hilgeroth. **First, newly synthesized, α -carboline and their effect on Brk signaling as new therapeutics for breast cancer.** *1st ACU International Conference of Pharmaceutical Sciences "New Trends in Pharmaceutical and Medical Research (NTPMR)"*, **6th October City, Egypt**, 28-29 May **2016**.

 **Peer Reviewer for:**

- *Molecules*
- *Chemistry Central Journal*
- *Journal of Saudi Chemical Society*
- *Bioorganic & Medicinal Chemistry Letters*
- *Sensors*
- *Arabian Journal of Chemistry*
- *Phosphorus, Sulfur, and Silicon and the Related Elements Journal*
- *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*