

## Curriculum Vitae



- **Name:** Khaled Omar Ahmed Mohamed
- **Title:** *Professor of Pharmaceutical Organic Chemistry*
- **Department:** *Pharmaceutical Chemistry*
- **E-mail:** khaled.omar@su.cu.edu.eg

### A) Academic Qualifications:

- Bachelor's Degree in pharmaceutical sciences    University: Cairo    Year: 1991
- Master's Degree in Pharmaceutical Organic Chemistry    University: Cairo    Year: 2000
- Ph.D in philosophy Pharmaceutical Organic Chemistry    University: Cairo    Year: 2006
- **Other Qualifications:** Associate Professor    Cairo University, Pharmaceutical Organic Chemistry Department, 2015.
- Professor of Pharmaceutical Organic Chemistry, Cairo University, Pharmaceutical Organic Chemistry Department, 2021.

### B) Academic promotions:

- Demonstrator,    Date: 1992
- Assistant Lecturer,    Date: 2000
- Lecturer,    Date: 2006
- Assistant Professor,    Date: 2015

### **C) Scientific Merit:**

- Google Scholar:  
[https://scholar.google.com/citations?view\\_op=search\\_authors&hl=en&mauthors=label:pharmaceutical\\_or\\_ganic\\_chemistry](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:pharmaceutical_or_ganic_chemistry)
- Scopes ID: 35825848300
- Citations: 502                      h-index: 15                      i10-index: 18
- Orcid –N: 0000-0002-2293-5363

### **D) Academic Administrative Experiences:**

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|----------------|---|
| 2021 – Present | <u>Professor of Pharmaceutical Organic Chemistry</u> <ul style="list-style-type: none"><li>○ Pharmaceutical Organic Chemistry Department, Faculty of Pharmacy, Cairo University, Egypt.</li></ul>   |
| 2015 – 2021    | <u>Associate Professor of Organic Chemistry</u> <ul style="list-style-type: none"><li>○ Faculty of Pharmacy, Misr International University, Egypt.</li><li>○ Faculty of Pharmacy, October 6<sup>th</sup> University, Egypt (2006 – 2015).</li></ul>   |
| 2006 – 2015    | <u>Lecturer of Organic Chemistry</u> <ul style="list-style-type: none"><li>○ Faculty of Pharmacy, Cairo University, Egypt (2011 – 2015).</li><li>○ Faculty of Pharmacy, MTI University, Egypt (2013 – 2014).</li><li>○ Faculty of Pharmacy, Future University, Egypt (2013 – 2014).</li><li>○ Faculty of Pharmacy, Umm Al-Qura University, Saudi Arabia (2007 – 2011).</li><li>○ Faculty of Pharmacy, Misr International University, Egypt (2006 – 2007).</li></ul> |
| 2000 – 2006    | <u>Assistant teacher</u> <ul style="list-style-type: none"><li>○ Faculty of Pharmacy, Cairo University, Egypt.</li></ul>  |
| 1992-2000      | <u>Teaching assistant</u> <ul style="list-style-type: none"><li>○ Faculty of Pharmacy, Cairo University, Egypt.</li></ul>   |

### **E) Scientific Activities**

#### **1: Membership of Professional Organizations and Scientific Societies**

- Member of 3 research committee, 2018-2020.
- Head of the commission for correction purchase of devices and equipment, 2018-2020.
- Head of the devices and equipment purchase committee, 2017-2020.
- Head of the chemicals, class, and furniture purchase committee, 2017-2020.



- Head of inventory committee, 2017-2020.
  - Member in commission of examination of chemicals and glasses Faculty of pharmacy, Cairo University, 2016-2020.
  - Department treasurer, Faculty of pharmacy, Cairo University, 2016- 2020.
  - Member in commission of libraries, Faculty of pharmacy, Cairo University, 2011-2015.
- Member in commission of academic support, Faculty of pharmacy, Cairo University, 2012- 2014.

## **2: Training Courses/workshops:**

Participated in teaching of theoretical and practical courses of

- Aliphatic, aromatic compounds, heterocyclic and stereochemistry for first- and second-year Faculty of Pharmacy, Misr international University, **2016-2023**.
  - Aliphatic compounds for first year Faculty of Pharmacy, October 6 University, **2015-2016**.
  - Spectroscopic methods for second year Faculty of Pharmacy, MTI University, **2013-2014**.
  - Aliphatic and aromatic compounds for first year Faculty of Pharmacy, Future University, **2013-2014**.
  - Aromatic compounds for second year Faculty of Pharmacy, Cairo University, **2011-2020**.
  - Spectroscopic methods, stereochemistry and carbohydrate compounds for second year Faculty of Pharmacy, Umm Al Qura University, **2008-2011**.
  - Heterocyclic compounds for second year Faculty of Pharmacy, Umm Al Qura University, **2008-2011**.
  - Aromatic compounds for first year Faculty of Pharmacy, Umm Al Qura University **2008-2011**.
  - Aliphatic compounds for first year Faculty of Pharmacy, Umm Al Qura University **2007-2011**.
- Aromatic compounds for second year Faculty of Pharmacy, Cairo University, **2006-2007**.

## **3: Conferences, Seminars and Workshops:**

### **Conferences and Oral Presentations**

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7. The1<sup>st</sup> Heliopolis University Conference on Sustainable development in Pharmaceutical Sciences, (2018).
6. 9<sup>th</sup> International Scientific Conference of Faculty of Pharmacy-Cairo University (April 25<sup>th</sup> -26<sup>th</sup>, 2018).
5. SCITA Researcher School Conference, (2016).
4. My Link conference vol-1 (Dar El-Hekma), (2015).
3. 4<sup>th</sup> Scientific Conference of Faculty of Pharmacy, Cairo University (2013).
2. 3<sup>rd</sup> Scientific Conference of Faculty of Pharmacy, Cairo University (2012).
1. Egyptian Pharmaceutical Society XXXII Conference of Pharmaceutical Sciences (2011).

### **Professional training**

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- Fundamentals of photoshop: toward designing a graphical abstract, (2020).

- Statistics in research, (2019).
- Manners and professional conduct in university work, (2019).
- Managing time and meeting, (2019).
- The Use of 2D NMR and MestreNova in Structure Elucidation of Organic Compounds, (2019).
- Communication skills in different education styles, (2018).
- International publication of scientific research, (2018).
- Column Chromatography, (2018).
- Experimental Design in Chromatography, (2018).
- Helping Students to Learn, (2018).
- Mendeley Citation Manager Software, (2018).
- Google tools for teaching and education: Google classroom and others, (2017).
- Scientific research ethics committee and how to prepare the research file, (2017).
- Scientific research committee, (2016).
- Quality standards in the teaching process, (2016).
- University Management, (2014).
- Examination & Student evaluation techniques, (2012).
- Legal & financial aspects in university environment, (2012).
- Credit hours in European system, (2007).
- Course Design, (2006).
- Preparation of a research project, (2006).
- Use of Technology in teaching, (2006).

#### 4: Teaching Scopes:

- Aliphatic, aromatic compounds, heterocyclic and stereochemistry for first- and second-year Faculty of Pharmacy, Misr international University, **2016-2023**.

#### 5: Scientific supervision number:

- Current graduate students [3 M. Sc. And 2 Ph. D.]
  - Student Name: Hader Saad Sayed  
Synthesis of new heterocyclic compounds for treatment of Alzheimer's disease (**Master thesis, 2016**).
  - Student Name: Karim Rada Mohamed  
Synthesis of certain triazol-4-one derivatives as anti-inflammatory (**Master thesis, 2017**).
  - Student Name: Nahla Said Mohamed  
Synthesis of novel pyrimidoquinolone derivatives as anticancer agents (**PhD thesis, 2019**).
  - Student Name: Mohamed Abdallah Fathy  
Design, synthesis, and cytotoxic screening of dimidone derivatives as antitumor agents (**PhD thesis, 2019**).
  - Student Name: Nada Mohamed Rada  
Design and Synthesis and biological evaluation of some novel heterocyclic derivatives as anticancer targeting agents (**Master thesis, 2021**).

Former graduate students [4 M. Sc. And 3 Ph. D.]

- Student Name: Hend Mohamed Wael.  
Design and synthesis of 5-cyano-6-thieno-2-substituted pyrimidine derivatives and related glycosides with pharmaceutical interest (**Master thesis, 2015**).
- Student Name: Ali Hassan Hammad.  
Synthesis of some pyrazolo[3,4-*d*]pyrimidin-5-(4*H*)-one expected action of erectile dysfunction (**Master thesis, 2017**).
- Student Name: Mohamed Elsayed Hegazy.  
Synthesis of new fused pyrimidine derivatives with expected pharmaceutical interest (**Master thesis, 2018**).
- Student Name: Islam Zaki Abd Elazim.  
Synthesis and biological evaluation of some new nitrogen heterocyclic compounds (**PhD thesis, 2019**).
- Student Name: Inas Galal Mahmoud.  
Synthesis of arylthiazole derivatives with expected anti-methicillin resistant staphylococcus aureus activity (**PhD thesis, 2020**).
- Student Name: Samar Ibrahim Mohamed.  
Synthesis of pyrazole derivatives as bioactive agents (**PhD thesis, 2020**).
- Student Name: Marian Wagdy Aziz.  
Synthesis and evaluation of novel compounds containing thiourea and 1,3-thiazolidinone derivatives as anticancer (**Master thesis, 2021**).

## 6: Awards and Certificates of Appreciation:

- Certificate of appreciation for the effective impact on international publication, Cairo University (**2019**).
- Certificate of appreciation for the effective impact on international publication, Cairo University (**2016**).
- Certificate of appreciation in the third week of excellence in the college of pharmacy, Cairo University (**2012**).

## 7: Peer reviewing of scientific research/ Projects:

**Chemical biology & drug design, Future chemistry,**

## F) Scientific Publications:

Last 10 year of published Scientific Papers:

**-International journales:**

Publications (h-index 15)

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31. Nada Reda, Khaled O. Mohamed, Kareem Abdou, Amira A. Helwa, Ahmed Elshewy , Novel Pyrimidine-5-Carbonitriles as potential apoptotic and antiproliferative agents by dual inhibition of

EGFR WT/HER2 and PI3k enzymes; Design, Synthesis, biological Evaluation, and docking studies, Bioorganic Chemistry 145, 2024,.

30. Nahla Said M. Ibrahim, Hanan H. Kadry, Ashraf F. Zaher, Khaled O. Mohamed ,Synthesis of novel pyrimido[4,5-b]quinoline derivatives as dual EGFR/HER2 inhibitors as anticancer agents. Aechiv de pharmazie, doi.org/10.1002/ardp.202300513 , 357(3), 3,2024.
29. Nada Reda, Ahmed Elshewy, Hesham I El-Askary, Khaled O Mohamed, Amira A Helwa, Design, synthesis, and biological evaluation of new pyrimidine-5-carbonitrile derivatives as novel anti-cancer, dual EGFR WT/COX-2 inhibitors with docking studies, *RSC advances*, 2023.
28. Nahla A Farag, Sarah Ghobish, **Khaled O Mohamed**, Doaa Boshra Farag, Novel indolyl 1, 2, 4-triazole derivatives as potential anti-proliferative agents: In silico, synthesis, *RSC Medicinal Chemistry*, 2023.
27. Inas G Shahin, **Khaled O Mohamed**, Azza T Taher, Abdelrahman S Mayhoub, Asmaa EKassab, Recent Advances in the Synthesis of Thiazole Ring: Mini Review, *Mini-Reviews in Organic Chemistry*, 2023/5/1.
26. Inas G Shahin, **Khaled O Mohamed**, Azza T Taher, Mohamed M Elsebaei, Abdelrahman S Mayhoub, Asmaa E Kassab, Ahmed Elshewy, New Phenylthiazoles: Design, Synthesis, and Biological Evaluation as Antibacterial, Antifungal, New Phenylthiazoles: Design, Synthesis, and Biological Evaluation as Antibacterial, Antifungal, <https://doi.org/10.1002/cbdv.202301143>, *Chemistry & Biodiversity*, 2023/10/19.
25. Nahla Said M. Ibrahim ,Hanan H. Kadry ,Ashraf F. Zaher , **Khaled O. Mohamed**. Synthesis of novel pyrimido[4,5-b]quinolines as potential anticancer agents and HER2 inhibitors. Chemical biology & drug design, 7/2023, 1-18, DOI: 10.1111/cbdd.14307.
24. Zeinab Mahmoud,Lamia W. Mohamed,**Khaled O. Mohamed**,,Hadeer S. Sayed,May A. Abd El Fattah,Afaf El-Malah. New tetracyclic systems integrated thienopyridine scaffold as an anti-dementia lead: in silico study and biological screening, Medicinal Chemistry Research <https://doi.org/10.1007/s00044-022-03013-7>,1-16,2023.1-16,2023.
23. Inas G Shahin, Khaled O Mohamed, Azza T Taher, Abdelrahman S Mayhoub, Asmaa EKassab, The Anti-MRSA Activity of Phenylthiazoles: A Comprehensive Review, *Current Pharmaceutical Design*, 2022/12/1.
22. Zeinab Mahmoud,Hadeer S. Sayed,Lamia W. Mohamed,**Khaled O. Mohamed**. Development of new donepezil analogs: synthesis, biological screening and in silico study rational, Medicinal Chemistry Research <https://doi.org/10.1007/s00044-022-02941-8>,10(31),1-17,2022.

21. Rana M. El-Masry, Basma M. Essa, Adli A. Selim, Soad Z. El-Emam, **Khaled O. Mohamed**, Tamer M. Sakr, Hanan H. Kadry, Azza T. Taher and Sahar M. Abou-Seri. New 5-Aryl-1,3,4-Thiadiazole-Based Anticancer Agents: Design, Synthesis, In Vitro Biological Evaluation and In Vivo Radioactive Tracing Studies, *Pharmaceuticals* 2022, 15, 1476. <https://doi.org/10.3390/ph15121476>.
20. Tarfah Al-Warhi, Matokah Abualnaja, Ola A. Abu Ali, Najiah M. Alyamani, Fahmy G. Elsaid, Ali A. Shati, Sarah Albogami, Eman Fayad, Ali H. Abu Almaaty, **Khaled O. Mohamed**, Wael M. Alamoudi and Islam Zaki. Design, Synthesis and Cytotoxicity Screening of New Thiazole Derivatives as Potential Anticancer Agents through VEGFR-2 Inhibition, *Symmetry* 2022, 14, 1814. <https://doi.org/10.3390/sym14091814>.
19. Ahdab N. Khayyat, **Khaled O. Mohamed**, Azizah M. Malebari and Afaf El-Malah. "Design, Synthesis, and Antiproliferative Activities of Novel Substituted Imidazole-Thione Linked Benzotriazole Derivatives". *Molecules* 2021, 26, 5983, 1-17, [doi.org/10.3390/molecules26195983](https://doi.org/10.3390/molecules26195983).
18. Inas G. Shahin , Nader S. Abutaleb, Marwa Alhashimi, Asmaa E. Kassab , **Khaled O. Mohamed**, Azza T. Taher , Mohamed N. Seleem , Abdelrahman S. Mayhoub. Evaluation of N-phenyl-2-aminothiazoles for treatment of multi-drug resistant and intracellular Staphylococcus aureus infections. ." *European journal of medicinal chemistry* 202 (2020): 1-11, 112497, [doi.org/10.1016/j.ejmech.2020.112497](https://doi.org/10.1016/j.ejmech.2020.112497).
17. Mohamed A. Shaaban, Aliaa M. Kamal, Samar . Faggal, Nahla A. Farag, Nora M. Aborehab, Ayman E. Elshahar, **Khaled O. Mohamed**. Design, synthesis, and biological evaluation of new pyrazoloquinazoline derivatives as dual COX-2/5-LOX inhibitors." *Archiv der Pharmazie* 353, no. 11 (2020): 200027, 1-17, [doi.org/10.1002/ardp.202000027](https://doi.org/10.1002/ardp.202000027).
16. Marian W. Aziz, Aliaa M. Kamal , **Khaled O. Mohamed**, Adel A. Elgandy. "Design, synthesis and assessment of new series of quinazolinone derivatives as EGFR inhibitors along with their cytotoxic evaluation against MCF7 and A549 cancer cell lines. *Bioorganic & medicinal chemistry letters*. 2021, 41, 127987, 1-11, [doi.org/10.1016/j.bmcl.2021.127987](https://doi.org/10.1016/j.bmcl.2021.127987).
15. Abdelhameid, Mohammed K., Islam Zaki, Manal R. Mohammed, and **Khaled O. Mohamed**. "Design, synthesis, and cytotoxic screening of novel azole derivatives on hepatocellular carcinoma (HepG2Cells)." *Bioorganic chemistry* 101(2020):103995,1-20, [doi.org/10.1016/j.bioorg.2020.103995](https://doi.org/10.1016/j.bioorg.2020.103995).
14. Shaaban, Mohamed A., Yaseen AMM Elshaier, Ali H. Hammad, Nahla A. Farag, Haredy Hassan Haredy, Ahmed A. AbdEl-Ghany, and **Khaled O. Mohamed**. "Design and synthesis of pyrazolo

3,4-di(5-pyrimidinone derivatives: Discovery of selective phosphodiesterase-5 inhibitors." *Bioorganic & Medicinal Chemistry Letters* 30, no. 16 (2020): 127337, 1-15,

DOI:10.1016/j.bmcl.2020.127337.

13. Shabaan, Mohamed A., Aliaa M. Kamal, Samar I. Faggal, Ayman E. Elshahar, and **Khaled O. Mohamed**. "Synthesis and biological evaluation of pyrazolone analogues as potential anti-inflammatory agents targeting cyclooxygenases and 5-lipoxygenase." *Archiv der Pharmazie* 353, no. 4 (2020): 1900308, 1-15, DOI: 10.1002/ardp.201900308, DOI: 10.1002/ardp.201900308.
12. Nissan, Yassin M., **Khaled O. Mohamed**, Wafaa A. Ahmed, Dina M. Ibrahim, Marwa M. Sharaky, Tamer M. Sakr, Mohamed A. Motaleb, Ahmed Maher, and Reem K. Arafa. "New benzenesulfonamide scaffold-based cytotoxic agents: Design, synthesis, cell viability, apoptotic activity and radioactive tracing studies." *Bioorganic chemistry* 96 (2020): 103577, 1-12, DOI: 10.1016/j.bioorg.2020.103577.
11. Mohamed, **Khaled O.**, Islam Zaki, Ibrahim M. El-Deen, and Mohammed K. Abdelhameid. "A new class of diamide scaffold: Design, synthesis and biological evaluation as potent antimitotic agents, tubulin polymerization inhibition and apoptosis inducing activity studies." *Bioorganic chemistry* 84 (2019): 399-409, DOI: 10.1016/j.bioorg.2018.12.007.
10. Shaaban, Mohamed A., **Khalid O. Mohamed**, Mohamed E. Hegazi, Montaser Sh A. Shaykoon, and Yaseen AMM Elshaier. "Synthesis of Some Pyrimidine and Fused Pyrimidine Derivatives with Antimicrobial and Anticancer Activities." *Der Pharma Chemica*, 2018, 10(7): 180-200.
9. Zaki, Islam, Mohammed K. Abdelhameid, Ibrahim M. El-Deen, Abdel Hady A. Abdel Wahab, Abeer M. Ashmawy, and **Khaled O. Mohamed**. "Design, synthesis and screening of 1, 2, 4-triazinone derivatives as potential antitumor agents with apoptosis inducing activity on MCF-7 breast cancer cell line." *European journal of medicinal chemistry* 156 (2018): 563-579,  
  
DOI: 10.1016/j.ejmech.2018.07.003.
8. Mohamed, **Khaled O.**, Yassin M. Nissan, Afaf A. El-Malah, Wafaa A. Ahmed, Dina M. Ibrahim, Tamer M. Sakr, and Mohamed A. Motaleb. "Design, synthesis and biological evaluation of some novel sulfonamide derivatives as apoptosis inducers." *European journal of medicinal chemistry* 135 (2017): 424-433, DOI: 10.1016/j.ejmech.2017.04.069.
7. Moneer, Ashraf A., **Khaled O. Mohammed**, and Hala B. El-Nassan. "Synthesis of Novel Substituted Thiourea and Benzimidazole Derivatives Containing a Pyrazolone Ring as Anti-Inflammatory Agents." *Chemical biology & drug design* 87, no. 5 (2016): 784-793, DOI: 10.1111/cbdd.12712.
6. El-Ansary, Afaf KE, Neama A. Mohamed, **Khaled O. Mohamed**, Hend MW Abd-Elfattah, and Mai El-Manawaty. "A Simple and Convenient Synthesis of Novel Thiopyrimidine Derivatives as



5. Mohamed, Khaled O. "Synthesis of 2-thiazolylidene derivatives with cytotoxic activity." Journal of science 5(2015): 781-786.
4. Ashraf M. Hamouda and **Khaled O. Mohamed**. "Synthesis and Antimicrobial Evaluation of Some New Dihydropyrimidine Derivatives. Der Pharma Chemica 7(2015): 116-125.
3. **Mohammed, Khaled O.**, and Yassin M. Nissan. "Synthesis, molecular docking, and biological evaluation of some novel hydrazones and pyrazole derivatives as anti-inflammatory agents." Chemical biology & drug design 84, no. 4 (2014): 473-488, DOI: 10.1111/cbdd.12336.
2. Khalil, Nadia Abdalla, Eman Mohamed Ahmed, **Khaled O. Mohamed**, Yassin Mohammed Nissan, and Sawsan Abo-Bakr Zaitone. "Synthesis and biological evaluation of new pyrazolone–pyridazine conjugates as anti-inflammatory and analgesic agents." Bioorganic & medicinal chemistry 22, no. 7 (2014): 2080-2089, DOI: 10.1016/j.bmc.2014.02.042.
1. Rahman, DE Abdel and **Khaled O. Mohamed**. "Synthesis of novel 1, 3, 4-thiadiazole analogues with expected anticancer activity." Der Pharma Chemica 6, no. 1 (2014): 323-335.

## **H) Skills**

- Language Skills: English
- Computer Skills: power point,
- Presentation skills