

Mohammed Kamal Abd El Hameid

Name: Mohammed Kamal Abd El-Hameid

Personal Data :Date of Birth : 26, Januray, 1970. ,**Place of birth** : Cairo-Egypt

Nationality : Egyptian

Current Position:

Associate professor of organic pharmaceutical chemistry, Department of Organic Chemistry Faculty of Pharmacy, Cairo University, Kasr El-Aini Street, Cairo 11562, Egypt.

Education background:

- Doctor of philosophy in pharmaceutical sciences (organic chemistry), Faculty of pharmacy, Cairo, University. under the title **Synthesis of Some Fused Pyrazine and Diazepine Derivatives of**

Biological Interest, 2006

- Master of pharmaceutical sciences (organic chemistry), Faculty of pharmacy, Cairo, University, under the title Synthesis of Some Fused Thienopyrimidine Derivatives 2000.

- Bachelor of pharmaceutical sciences, Faculty of pharmacy, Cairo, University, Excellent with 1st Degree of Honour, 1992.

Professional Experience:

A-Teaching Experience:

- Lecturer, Faculty of Pharmacy, Cairo, University, Egypt, 2006 till now.

- Lecturer, Faculty of Pharmacy Beni-Suef University, Egypt, 2006-2008.

- Lecturer, Faculty of Pharmacy ,Heliopolis University, Egypt, **21012 till now**

- Teaching Assistant,. Faculty of Pharmacy, Cairo University, Egypt, 1993-2005.

. – associate professor, Faculty of Pharmacy ,Heliopolis University, Egypt, **21012 till now**

Teaching Activities:

- Student training research Projects:

-*Safety measures principles* (How to work safely in the lab. For second year students Faculty of pharmacy, Cairo, University, 2011.

-*lab. Instrumentation Green chemistry in synthesis of . Bioactive Molecules* For second year students Faculty of pharmacy, Cairo, University, 2012.

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-Tutorial for students :

- Tutorial lectures for **first year students**, Faculty of pharmacy, Cairo, University 2008
- Tutorial lectures for **second year student**, Faculty of pharmacy, Cairo, University s 2012

B -Research Experience:

- Invited researcher, Institute of Applied Synthetic Chemistry, Vienna University of Technology, Austria, for joint project August-September 2010
- Postdoctoral researcher in Lead Discovery Research Group, DSM Fine Chemical, Linz, Austria, September-October 2009.

- Postdoctoral researcher in the Bioorganic Research Group, Institute of Applied Synthetic Chemistry, Vienna University of Technology, Austria, December 2008-February 2009

-Research Activities:

Master's Thesis Supervision:

-Finished thesis:

1)-Synthesis of Heterocyclic Compounds of Biological Effect

Name of candidate: Rania Badawy Bakr Mohamed, Faculty of Pharmacy Beni-Suef University, Egypt

2)-Synthesis and cytotoxic activity of certain new aryl cyclohexene containing compounds

Name of candidate: Asmma abo El maged, Faculty of Pharmacy,, Six of October University .

3)-Synthesis of some fused pyrazolopyrimidine derivatives with antitumor activity

Name of candidate: Ahmed Thabeet Faculty of Pharmacy, Cairo, University,

-Current thesis:

Doctor's Thesis Supervision:

Mohammed Kamal Abd El Hameid

-Finished thesis:

1)-SYNTHESIS OF FUSED THIENOPYRIMIDINES OF BIOLOGICAL INTEREST

Name of candidate: Madlen Berty Labib Wanas , Faculty of Pharmacy Beni-Suef University, Egypt

Synthesis of Fused Benzimidazole of Biological Interest

Name of candidate: Joan adel, Faculty of Pharmacy Beni-Suef University, Egypt

-Current thesis:

Research Projects:

1) **Invited from Vienna** university of Technology, Institute of Applied Synthetic Chemistry **for writing F-p7 draft 2010.**

2) Participate in the IRG projects, Faculty of Pharmacy, Cairo, University by proposal under the title of *Synthetic Small Molecules (SySMs) As Glycogen Synthase Kinase-3(GSK-3) Inhibitors*, 2011.

3) Mobility project in the field stem cells therapy between Egypt and Austria in the field of stem cells therapy under **the title of Synthetic Small Molecules Induce Cardiomyogenesis, 2010.**

Conferences:

1) **Speaker in**

2)-Poster presentation in the 3rd conference for the Faculty of Pharmacy, Cairo University.

Synthesis of some novel o-substituted thiophene carboxamide derivatives, April, 2012.

3)-Poster presentation in the 3rd conference for the Faculty of Pharmacy, Cairo University.

Synthesis of some novel o-substituted thiophene carboxamide derivatives, April, 2012.

4)-Poster presentation in the 3rd conference for the Faculty of Pharmacy, Cairo University.

Synthesis of some novel o-substituted thiophene carboxamide derivatives, April, 2012.

5)-Poster presentation in the 3rd conference for the Faculty of Pharmacy, Cairo University.

"Cytotoxic activity of some novel thieno[3,2-d]pyrimidines and thieno[3,4-d]pyrimidines" , April ,2012.

6)-Poster presentation in the. 32nd international conference of the Egyptian Pharmaceutical society

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Synthesis and antitumor activity of novel 4-phenoxy and 4-(substituted amino) pyrazolo[3,4-d] pyrimidine derivatives, 2012.

7)-Poster presentation in the 32nd international conference of the Egyptian Pharmaceutical society, ***Design, Synthesis, and Antitumor Evaluation of Novel Pyrazolo[3,4-d]pyrimidine Derivatives***.2012.

8)-Poster presentation in the 32nd international conference of the Egyptian Pharmaceutical society, **SYNTHETIC SMALL MOLECULES INDUCED CARIOGENESIS 2012**

9)-Poster presentation in XXIVth European Colloquium on Heterocyclic Chemistry, ECHC2010 – Vienna, Austria, ***Selective Triarylation of 1-protected imidazole***, August 23- 27, 2010.

10)-Poster presentation in XXIVth European Colloquium on Heterocyclic Chemistry, ECHC2010 - Vienna Austria, ***Synthesis of benzimidazole derivatives as potent anticancer compounds***, August 23- 27, 2010.

11)-Poster presentation in 3rd EuChe MS Chemistry Congress, Nürnberg, Germany, ***Selective Triarylation of 1-protected imidazole***, September, 2010.

12)-Poster presentation in the 1st conference for the Faculty of Pharmacy, Cairo University, ***Selective tri-arylation of imidazole in one pot reaction***, April, 2010.

13)-Poster presentation in the 1st conference for the Faculty of Pharmacy, Cairo University. ***Synthesis and cytotoxic activity of certain new aryl cyclohexene containing compounds***. April, 2010.

Attended workshops:

-Instrument Assisted Synthesis" portfolios in the fields of microwave assisted synthesis, continuous flow-chemistry, automated downstream processing, and reaction work-up together with hands-on demonstrations of their instrumentation. Organized by Three companies Anton-Parr, Buechi, and Thales Nano, Vienna, Austria, August- 23,2010.

-**Combine the Benefits of Flow Chemistry and Online Analysis**, Thales Nano Inc, Zürich, Switzerland, April-23,2009.

Courses attended :

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- A short course in writing and publishing scientific articles, Cairo University, Egypt, 2010.
- A short course in writing research projects, Cairo University, Egypt, 2011
- A short course in syllabus planning, Cairo University, Egypt, 2011
- A short course in teaching philosophy techniques, Cairo University, Egypt, 2012

Research Topics of work:

- Development of novel bioactive compounds (esp. for cell differentiation, regenerative treatments, cytostatics,) in cooperation with Institute of Applied Synthetic Chemistry, Vienna University of Technology, Austria.
- (Lead Generation of kinase inhibitors) in Drug discovery program in cooperation with National Cancer Institute (NCI), USA.

Synthetic Methodology:

- Metal assisted C-C bond formation (directed lithiation, cross coupling reactions, metathesis)
- Microwave assisted organic synthesis, flow chemistry

Experimental skills:

Work as operator for different kinds of **preparative HPLC and MPLC instruments** for chromatography, **GC- MS, NMR** analysis.

.Awards:

-Fellowship provided by OeAD at Vienna university of Technology, Institute of Applied Synthetic Chemistry, Austria. In the **field of flow chemistry**, June-September, 2009.

-Para Own fellowship in 2010 to Vienna university of Technology, Institute of Applied Synthetic Chemistry, Austria. In **the field of stem cells therapy** from High Ministry of Education. Egypt.

Publications list :

1-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. [Eur. J. Med. Chem. 156 563-579\(2018\)](#)

2-Design and synthesis of thienopyrimidine urea derivatives with potential cytotoxic and pro-apoptotic activity against breast cancer cell line MCF-7., [Eur. J. Med. Chem. 143 \(2018\) 1807-1825](#)

3-Design, Synthesis, and Screening of ortho-amino Thiophene Carboxamide Derivatives on Hepatocellular Carcinoma as VEGFR-2 Inhibitors.. *Journal of Enzyme Inhibition and Medicinal Chemistry (IENZ)*, [156 563-579\(2018\)](#)

4-Design, Synthesis and Screening of 4, 6-Diaryl Pyridine and Pyrimidine Derivatives As Potential Cytotoxic Molecules. *Chem.pharm. Bull.*(2018)

5-Design and Synthesis of Pyrazolo[3,4-d]Pyrimidines: Nitric Oxide Releasing Compounds Targeting Hepatocellular Carcinoma. *Bioorganic & Medicinal Chemistry*,(2017)

6- **Design, synthesis, and screening of 5-aryl-3-(2-(pyrrolyl) thiophenyl)- 1, 2, 4- oxadiazoles as potential pro-apoptotic molecules with antitumor activities on breast cancer MCF-7 cell line.**

7-Enhancement to synthesize, design and dock of novel EGFR inhibitors containing pyrazolo[3,4-d]pyrimidine cores of expected anticancer activity., *OCAIJ*, 10(12), [470-483] 2014

8-Synthesis and in vitro antitumor activity of new benzothiazole and benzoxazole derivatives . *b.Journal of Chemical and Pharmaceutical Research*, , 5(8):16-21. 2013

1) Synthesis of novel aryl substituted pyrazolo[3,4-d]pyrimidines and their evaluation as cytotoxic agents

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Lamia W. Mohamed, Manal M. Kandeel, Mohammed K. Abd El-hamid, Ahmed T. Negmeldin.

International Journal of Chemical Science and Technology. Volume 1-Issue4, October 2011.pp.126-14.

2) Synthesis of Novel Pyrazolo[3,4-*d*]pyrimidine Derivatives as Potential Anti-breast Cancer Agents

Mohammed K. Abd El Hameid, Marko D. Mihovilovic,² Hala B. El-Nassan¹. Eur. J. Med. Chem (57), 323-328,(2012)

3) Design, Synthesis, and Antitumor Evaluation of Novel Pyrazolo[3,4-*d*]pyrimidine Derivatives

Manal M. Kandeel, Lamia W. Mohamed, Mohammed K. Abd El-hamid, Ahmed T. Negmeldin Scienza,174-180;2012

4) .New ECFR-tyrosine kinase inhibitors containing pyrazolo[3,4-*d*]pyrimidines cores as anticancer

Rania B.Bakr, Eman K. Ahmed, Mohammed A. Kamal, Manal M. Kandeel ;Bull Pharm.Sci.Assuit University, 35(1),1-16(2012)

5) Synthesis and antitumor activity of novel 4-phenoxy and 4-(substituted amino)pyrazolo[3,4-*d*]pyrimidine derivatives

Mohammed Kamal Abd El Hameid, Hala Bakr El-Nassan, Khaled Omar Ahmed.An Indian Journal organic chemistry,1,69-77 2013 under press

6) Selective sequential cross-coupling reactions on imidazole towards Neurodazine and Analogs

Lisa-Maria Recnik, Mohammed Abd El Hameid, Michael Schnürch, Marko D. Mihovilovic SYNTHESIS 11(2013)1-24

7) Synthesis and cytotoxic activity of certain diaryl cyclohexene derivatives structurally related to combretastatins

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Abd El Hameid, M. K.*, A. Aboul-Magd M. M. Kandeel, and S. Elmeligie .**International Journal of Medicine and Pharmaceutical Sciences (IJMPS)1-154-160(2013)**

8) Synthesis of some novel thieno[3,4-*d*]pyrimidines and thieno[3,2-*d*]pyrimidines derivatives as potential Anti-breast Cancer Agents

Manal M. Kandeel^a, Mohammed . K^a Abd EL hameid, Eman K. Ahmed^b, Madlen B. Labib.), **Poster presentation in the 3rd conference for the Faculty of Pharmacy, Cairo University under press(2013)**

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