

Curriculum vitae

Personal information

First name(s) / Surname(s)	Mohamed Ahmed Zaki Mohamed
E-mail(s)	m_abuzaki@yahoo.com mohamed.zaki@pharm.bsu.edu.eg
Nationality	Egyptian
Date of birth	25 Jul 80
Gender	Male

Work experience

Dates	March 2016 – May 2017
Position held	Postdoctoral researcher
Name and address of employer	National Center for Natural Products Research (NCNPR), School of Pharmacy, University of Mississippi, University, Mississippi, USA.
Dates	November 2016 – May 2017
Position held	Consultant
Name and address of employer	ElSohly Laboratories, Incorporated (eLi), 5 Industrial Park Drive, Oxford, Mississippi, USA.
Dates	2013- now
Position held	Lecturer
Name and address of employer	Department of Pharmacognosy, Faculty of Pharmacy, Beni Suef University, Beni Suef, Egypt.
Dates	2010-2012
Position held	Visiting scholar
Name and address of employer	National Center for National Products Research (NCNPR), School of Pharmacy, University of Mississippi, University, Mississippi, USA.

Dates	2008 – 2010
Position held	Assistant lecturer and graduate research associate
Name and address of employer	Department of Pharmacognosy - Faculty of Pharmacy - Cairo University – Beni Suef campus - Egypt
Dates	2003 - 2008
Position held	Demonstrator and graduate research associate
Name and address of employer	Department of Pharmacognosy- Faculty of Pharmacy - Cairo University – Beni Suef campus - Egypt
Dates	2002-now
Position held	Pharmacist
Name and address of employer	Private Pharmacy

Education and training

Dates	2009-2013
Title of qualification awarded	Ph. D. “Doctor of Philosophy”
Title of thesis	“Chemical studies and bioactivities of <i>Eugenia rigida</i> DC.”
Dates	2003 – 2008
Title of qualification awarded	MSc “master’s degree of Pharmacognosy”
Title of thesis	”Pharmacognostical study on <i>Cicer arietinum</i> family Leguminosae cultivated in Egypt”
Courses covered	<ul style="list-style-type: none"> - Advanced Medicinal plants and Chemotaxonomy. - Tissue culture and Biosynthesis. - Advanced Phytochemistry. - Different chromatographic techniques. - Structure elucidation using different spectral methods. - Basic statistics. - Literature search. - Scientific English language. - Computer and its applications.

Name and type of organisation providing education and training Faculty of Pharmacy-Cairo University-Egypt

Level in national or international classification Excellent with honour

Dates	1997 - 2002
Title of qualification awarded	BSc "Bachelor degree of Pharmaceutical sciences"
Courses covered	<ul style="list-style-type: none"> - Pharmacognosy and Medicinal plants. - Phytochemistry. - Applied Pharmacognosy and Herbal Medicine. - Organic Chemistry. - Analytical Chemistry. - Pharmaceutical chemistry. - Pharmacology. - Biochemistry. - Public Health. - Pharmaceutics. - Microbiology. - Toxicology. - Industrial Pharmacy.
Name and type of organisation providing education and training	Faculty of Pharmacy-Cairo University-Egypt
Level in national or international classification	Excellent with honour

Teaching Experience

- Gained a valuable teaching experience through working for 15 years as a lab instructor, teaching assistant and lecturer.
- Attended professional training courses which were focused on improving communication, thinking and solving problems skills and using technology and effective data show in teaching.
- During teaching, I try to create a safe environment that is interactive and collaborative and that promotes problem-solving and critical thinking skills. There appears to be no single perfect method for teaching, but I believe that students should leave their courses with skills that they will use in their everyday lives.
- Seeking student feedback was essential to refine and improve teaching practice and to better structure future course content and assessments.
- As a lecturer, was responsible for the following courses for undergraduate and graduate students (including designing syllabus, lectures, tutorials and final exams):
 1. Pharmacognosy
 2. Phytochemistry
 3. Chromatography
 4. Marine natural products
 5. Endophytes
 6. Tissue culture
 7. Drug abuse

- Staying at USA afforded me the opportunity to be exposed to the full range of Pharmaceutical science courses, all of which tended to enforce and solidify my teaching skills through attending classes at school of Pharmacy, University of Mississippi.

Personal skills and competences

Mother tongue(s) **Arabic**

Other language(s) **English (TOEFL certificate)**

Social skills and competences Team spirit, good ability to adapt to multicultural environments, gained through my work experience abroad

Organisational skills and competences Assigning priorities, time management, timetabling and working to deadline

Technical skills and competences

- 1-Isolation and purification of natural products.
- 2-Chromatographic techniques (CC, TLC, CPTLC, HPLC).
- 3-Structure elucidation of natural products using spectroscopic techniques.
- 4-Chemical modification of compounds.
- 5-Isolation and purification of microorganisms (fungi and bacteria).
- 6-larg scale propagation and isolation of active secondary metabolites from microbial sources.

Computer skills Good command in Computer skills as Windows, Word, Excel, PowerPoint, Access (ICDL Certificate).

Other skills and competences

- 1- Teaching skills: participating in teaching programs organised by Pharmacognosy department, Faculty of Pharmacy, Cairo University, Beni-Suef Campus using various teaching techniques and providing effective instructions for undergraduate and graduate students, therefore gained an experience in teaching Pharmacognosy and Phytochemistry besides practical skills for 15 years.
- 2- Participated as academic advisor in providing advising to students to empower them with the necessary information, resources and support concerning courses and credit hours to explore a full range of opportunities for academic achievement.
- 3- Plant cell, tissue culture and micropropagation: at Minia Center for Genetic Engineering and Biotechnology (MCGEB)-Faculty of Agriculture, Minia University, Minia, Egypt.
- 4- Successfully completed the following Cairo University courses:
 - a) Using technology in teaching.
 - b) Solving problems and taking the decision.
 - c) Thinking skills.
 - d) Effective data showing skills.
 - e) Effective connection skills.
 - f) Integrity, transparency, and anticorruption.
 - g) The credit hour system.
 - h) Competitive research projects.
 - i) Student evaluation and examination techniques.
 - j) Communication skills.

Driving licence(s)

B

1. "Chemical profiling and biological screening of some River Nile derived-microorganisms"
Momen M. Lotfy, Hossam M. Hassan, Rabab Mohammed, Mona Hetta, Ahmed O. El Gendy, Mostafa E. Rateb, **Mohamed A. Zaki** and Noha M. Gamaleldin, *Frontiers in microbiology*, 2019, doi:10.3389/fmicb.2019.00787.
2. "Epigenetic modifiers induce bioactive phenolic metabolites in the marine-derived fungus *Penicillium brevicompactum*"
Seham El-Hawary, Ahmed Sayed, Rabab Mohammed, Hossam Hassan, **Mohamed Zaki**, Mostafa Rateb, Tarek Mohammed, Elham Amin, Usama Abdelmohsen, *Marine drugs*, 2018, 16 (8): 253.
3. "Monanchoramides A–D, ceramides from the marine sponge *Monanchora clathrata* with cytotoxic activity"
AE Raslan, MM Radwan, SA Ahmed, AM Nafady, **MA Zaki**, AS Wanas, Mohamed Abou-Karam, Thomas W Shier, Hashim A Hassanean, Mahmoud A ElSohly, *Phytochemistry Letters*, 2018, 23: 83-89
4. "Anti-inflammatory of pyrrolizidine alkaloids from *Heliotropium digynum*"
M Aboelmagd, K Elokely, **MA Zaki**, A Said, EG Haggag, SA Ross, *Medicinal Chemistry Research*, 2018, 27 (4): 1066-1073
5. "Monoamine oxidases inhibitors from *Colvillea racemosa*: Isolation, biological evaluation, and computational study"
Enas I Mohamed, **Mohamed A. Zaki**, Narayan D. Chaurasiya, A08smaa I. Owis, Sameh Abou Zid, Yan-Hong Wang, Bharathi Avula, Ahmed A. Seida, Babu L. Tekwani, Samir A. Ross, *Fitoterapia*, 2018, 124: 217-223
6. "Design and synthesis of new coumarin hybrids and insight into their mode of antiproliferative action"
Heba A. H. Elshemy, **Mohamed A. Zaki**, *Bioorganic and Medicinal Chemistry*, 2017, 25 (3): 1066-1075
7. "Bioactive Formylated Flavonoids from *Eugenia rigida*: Isolation, Synthesis, and X-ray Crystallography"
Mohamed A. Zaki, N. P. Dhammika Nanayakkara, Mona H. Hetta, Melissa R. Jacob, Shabana I. Khan, Rabab Mohammed, Mohamed A. Ibrahim, Volodymyr Samoylenko, Christina Coleman, Frank R. Fronczek, Daneel Ferreira, Ilias Muhammad, *Journal of Natural Products.*, 2016, 79 (9): 2341-49.
8. "Diversity-oriented natural product platform identifies plant constituents targeting *Plasmodium falciparum*"

Jin Zhang, John J. Bowling, David Smithson, Julie Clark, Melissa R. Jacob, Shabana I. Khan, Babu L. Tekwani, Michele Connelly, Vladimir Samoylenko, Mohamed A. Ibrahim, **Mohamed A. Zaki**, Mei Wang, John P. Hester, Ying Tu, Cynthia Jeffries, Nathaniel Twarog, Anang A. Shelat, Larry A. Walker, Ilias Muhammad, R. Kiplin Guy, *Malaria Journal*, 2016, 15: 270.

9. "Cytotoxicity and modulation of cancer-related signaling by (Z)- and (E)-3,4,3',5'-tetramethoxystilbene isolated from *Eugenia rigida*"

Zaki MA, Balachandran P, Khan S, Wang M, Mohammed R, Hetta MH, Pasco DS, Muhammad I, *Journal of Natural Products.*, 2013, 76 (4): 679-84.

10. "Preparation and Application of Reversed Phase Chromatorotor™ for the Isolation of Natural Products by Centrifugal Preparative Chromatography"

Muhammad Ilias, Volodymyr Samoylenko, Francis Machumi, **Mohamed A. Zaki**, Rabab Mohamed, Mona H. hetta and Van Gillum; *Natural Product Communications*; 2013; **8** (3), P_311-314.

11. "Antibacterial Effects of Isoflavones Isolated from *Cicer arietinum*",

Mohamed A. Zaki, Ali Zaid, Mostafa Magd and Sameh AbouZid; *International journal of natural products*; 2012; **2** (1) – P_1-5

12. "Antihyperglycemia, antioxidant and chemical composition of *Conyza dioscoridis* (L.)Desf.) (L.) DC. growing in Egypt"

Soheir M. El Zalabania, Mona H. Hetta, Samir A. Ross, Amira M. Abo Youssef, **Mohamed A. Zaki** & Ahmed S. Ismail; *Australian Journal of Basic and Applied Sciences*; 2012; **6** (10) – P_257-265.

13. "Study of Flavonoid Content of *Cicer arietinum* L."

O. A. Rashwan, M. Magd, S. AbouZid and **M. A. Zaki**
Bulltein of Faculty of Pharmacy Cairo University, 2009; **47** (3), P_121-127.

Scientific abstracts and Poster presentations:

1. “Phytochemical Studies on *Brownea ariza*”
EI Mohamed, **MA Zaki**, AI Owis, S AbouZid, AA Seida, SA Ross, *Planta Medica*; 2016; 82-PC52.
2. “Antimalarial constituents from a high-throughput UPLC-MS-ELSD-PDA generated natural product library”
J Zhang, Y Tu, D Smithson, V Samoylenko, SI Khan, MR Jacob, BL Tekwani, JP Hester, **MA Zaki**, M Wang, AA Shelat, C Jeffries, LA Walker, RK Guy, I Muhammad
Planta Medica; 2014; **80**(10).
3. “Application of Centrifugal Preparative Chromatography for the Isolation of Polar Triterpene Saponins from *Fagonia cretica*.”

MA Zaki, RM Abd slam, MH Hetta, I Muhammad
Planta Medica; 2012; **78**(5) - P_45

4. “Anticancer activity of resveratrol analogs from *Eugenia rigida* DC.”

MA Zaki, V Samoylenko, S Khan, RM Abd slam, MH Hetta, U Shin, J Pelletier, LA Walker, I Muhammad
Planta Medica; 2012; **78**(11) - PI314

5. “Reversed phase centrifugal preparative chromatography for the isolation of triterpene saponins glycosides from *Fagonia cretica*”

MA Zaki, RM Abd slam, MH Hetta, I Muhammad
Planta Medica; 2012; **78**(11) – PJ94

Participated in the following conferences and workshops:

1. 2nd Pharmaceutical sciences conference of faculty of Pharmacy, Beni Suef University, Beni Suef, Egypt, 3rd April 2019
Oral talk “Publication process and ethics of authorship”
2. Workshop entitled “Endophytes and medicinal plants”, Biotechnology and life science department, faculty of postgraduate studies for advanced sciences (PSAS), 25th – 26th June 2018.

3. 17th Annual Oxford International Conference on the Science of Botanicals (ICBS), Oxford, Mississippi, USA, 3rd - 6th April 2017.
4. 16th Annual Oxford International Conference on the Science of Botanicals (ICBS), Oxford, Mississippi, USA, 11th - 14th April 2016. "Phytochemical Studies on *Brownea ariza*" EI Mohamed, **MA Zaki**, AI Owis, S AbouZid, AA Seida, SA Ross, *Planta Medica*; 2016; 82-PC52.
5. Workshop entitled "Recent trends in natural products drug discovery and analysis", Faculty of Pharmacy, Cairo University, 8th – 9th December 2014.
6. Workshop entitled "Recent advances in chemistry and biology of natural products", Beni Suef University, 3rd – 4th August 2014.
7. Workshop entitled "كتابة المشروعات البحثية المتميزة والمنافسة محليا ودوليا", Faculty of Science, Beni Suef University, 10th February 2013.
8. International Congress on Natural Products Research (ICNPR) hosted by the American Society of Pharmacognosy (ASP), New York, New York, USA, 28th July - 1st August 2012.
 - a) "Anticancer activity of resveratrol analogs from *Eugenia rigida* DC." **MA Zaki**, V Samoylenko, S Khan, RM Abd slam, MH Hetta, U Shin, J Pelletier, LA Walker, I Muhammad, *Planta Medica*; 2012; 78(11) - PI314 5.
 - b) "Reversed phase centrifugal preparative chromatography for the isolation of triterpene saponins glycosides from *Fagonia cretica*" **MA Zaki**, RM Abd slam, MH Hetta, I Muhammad, *Planta Medica*; 2012; 78(11) – PJ94
9. 11th Annual Oxford International Conference on the Science of Botanicals (ICBS), Oxford, Mississippi, USA, 16th -19th April 2012. "Application of Centrifugal Preparative Chromatography for the Isolation of Polar Triterpenene Saponins from *Fagonia cretica*. **MA Zaki**, RM Abd slam, MH Hetta, I Muhammad, *Planta Medica*; 2012; 78(5) - P_45.
10. 10th Annual Oxford International Conference on the Science of Botanicals (ICBS), Oxford, Mississippi, USA, 11th -14th April 2011.

-
11. Symposium entitled “Medicinal plants and their therapeutic effects”, Faculty of Pharmacy, Beni Suef University, 7th – 8th April 2010.

 12. Workshop entitled “Plant cell, tissue culture and micropropagation”, MCGEB (Minia center for genetic engineering and biotechnology, Faculty of Agriculture, Minia University, 1st – 3rd June 2009.