

CURRICULUM VITÆ



PERSONAL INFORMATION

Name: Ahmed Mohamed Zaher Shaekhon

Date of Birth: 22/ 2/ 1983

Adress: Pharmacognosy Dept., Faculty of Pharmacy, Assiut University,
Assiut, Egypt, 71515.

Email: ahmedshaekhon@aun.edu.eg

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Present Job: Associate professor at Department of Pharmacognosy,
Faculty of Pharmacy, Assiut University, Egypt.

General Field: Pharmaceutical Science (Pharmacognosy)

Specific Field: Natural Product Chemistry

EXPERIENCE

- **Title:** Demonstrator at Dept. of Pharmacognosy, Faculty of Pharmacy,
Organization: Assiut University. **Duration:** 2005- 2012
Country: Egypt.
- **Title:** Assistant Lecturer at Dept. of Pharmacognosy, Faculty of Pharmacy.
Organization: Assiut University. **Duration:** 2012- 2013
Country: Egypt.
- **Title:** PhD Visiting Scholar at Dept. of Drug Development and Discovery, Harrison School of Pharmacy.
Organization: Auburn University **Duration:** 2013- 2015
Country, State: Alabama, USA.
- **Title:** Assistant professor at Dept. of Pharmacognosy, Faculty of Pharmacy.
Organization: Assiut University. **Duration:** 2016- 2018
Country: Egypt.
- **Title:** Post doctor Visiting Scholar at Graduate School of Pharmaceutical Sciences
Organization: Osaka University **Duration:** (6 months) 2019
Country, State: Osaka, Japan.
- **Title:** Post doctor Visiting Scholar at National Center of Natural Products Research
Organization: Mississippi University **Duration:** (6 months) 2020
Country, State: Oxford, Mississippi, USA.
- **Title:** Assistant professor at Dept. of Pharmacognosy, Faculty of Pharmacy.
Organization: Assiut University. **Duration:** 2021-2022
Country: Egypt.
- **Title:** Associate professor, Head of Dept. of Pharmacognosy, Faculty of Pharmacy.
Organization: Merit University. **Duration:** 2022- 2024
Country: Egypt.

EDUCATION

- **Title:** Bachelor of Pharmaceutical Sciences **Duration:** (2000-2005)

Organization: Assiut University

Country: Egypt

- **Title:** Master of Pharmacognosy

Duration: (2005-2012)

Organization: Assiut University

Country: Egypt

- **Title:** PhD of Pharmacognosy

Duration: (2012-2015)

Organization: Assiut University

Country: Egypt

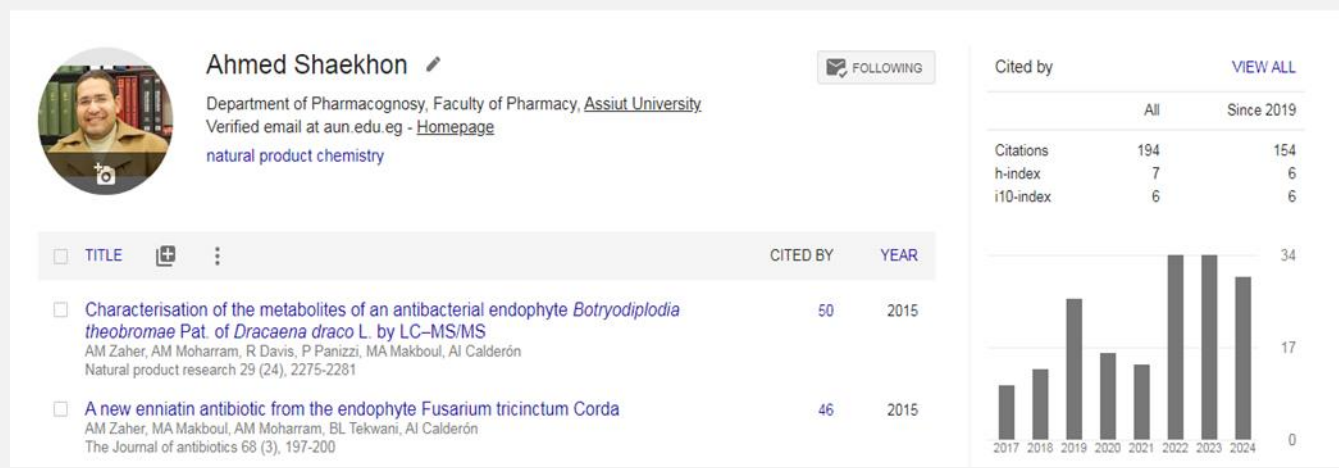
PROFESSIONAL SUMMARY

- Extraction of bioactive metabolites from their natural sources (Plants and fungi).
- Natural product chemistry includes the isolation of bioactive metabolites from their natural sources (Plants, Fungi, and Marine), and the structural elucidation of compounds using 1D and 2 D-NMR, IR, UV and HRMS.
- Phytochemical analysis and metabolite profiling of plant, fungal, and marine extracts using HPLC and LC-MS.
- Quantification of certain plant metabolites, such as flavonoids, phenolics, and saponins, using UV spectroscopy.
- In vitro cytotoxic assay of natural extracts and isolated compounds against several cancer cell lines (Panc1, HT29 cells, etc.).
- Teaching of medicinal plants, pharmacognosy, phytochemistry, phytotherapy, and Complementary & Alternative Medicine (CAM).

- Reviewer at several international journals, including Natural Product Research, Natural Product Communications, Plant Biology, Helion, and Bulletin of Pharmaceutical Sciences. Assiut.

PUBLICATIONS

RESEARCH ARTICLES



- 1- **Ahmed M. Zaher**, F. M. Salama, N. A. El-Tayeh, S. H. El-Naggar, Raof Sultan and A.E. Gaafar. Influences of environmental factors on the active metabolites and certain bioactivities of Desert Date leaf and fruit (*Balanites aegyptiaca* L. Delile) grown in Egypt. *Bulletin of Pharmaceutical Sciences. Assiut*, 46, 2 (2023), 927-941. doi: [10.21608/BFSA.2023.327683](https://doi.org/10.21608/BFSA.2023.327683).
- 2- Fawzy Salama, Noha A El-Tayeh, **Ahmed M. Zaher**, Sara El-Naggar, Ali Gaafar. Phytosociological Studies on the Associated Species of *Balanites aegyptiaca* In The Eastern and Western Egyptian Deserts. *Egyptian Journal of Botany*, 63, 3 (2023), 1005-10022. Doi: [10.21608/ejbo.2023.205410.2308](https://doi.org/10.21608/ejbo.2023.205410.2308)
- 3- **Ahmed M. Zaher***, Walaa S. Anwar, Makboul A. Makboul, Iman A. M. Abdel-Rahman. Potent anticancer activity of (Z)-3-hexenyl- β -D-glucopyranoside in pancreatic cancer cells. *Naunyn Schmiedebergs Arch Pharmacol* (2023) doi: [10.1007/s00210-023-02755-4](https://doi.org/10.1007/s00210-023-02755-4).
- 4- Walaa S. Anwar, Fatma M. Abdel-maksoud, Ahmed M. Sayed, Iman A. M. Abdel-Rahman, Makboul A. Makboul and **Ahmed M. Zaher***. Potent hepatoprotective activity of common rattan (*Calamus rotang* L.) leaf extract and its molecular mechanism. *BMC Complementary Medicine and Therapies* (2023) doi: [10.1186/s12906-023-03853-9](https://doi.org/10.1186/s12906-023-03853-9).

- 5- Youstina A. Malak, Khaled M. Mohamed, Ahmed M. A. Abd El-Mawla, Ahmed M. Zaher^{1*}. Cytotoxic and antimicrobial effects of selected Egyptian Asteraceae species as well as GC-MS metabolite profiling of *Senecio cruentus* lipophilic fraction. *Bulletin of Pharmaceutical Sciences. Assiut* (2022) doi: [10.21608/BFSA.2022.156117.1469](https://doi.org/10.21608/BFSA.2022.156117.1469).
- 6- Taha Ramadan, Ahmed Zaher, Raof Sultan* & Ahmed Amro. Phytocoenoses and allelopathic potential of *Senecio glaucus* L. in new reclaimed areas of the Eastern Desert at Assiut Governorate, Egypt. *Phytocoenologia* 51, 3 (2022), 245–262 doi: [10.1127/phyto/2022/0394](https://doi.org/10.1127/phyto/2022/0394).
- 7- Ahmed M. Zaher^{1*}, Raof Sultan, Taha Ramadan & Ahmed Amro. New antimicrobial and cytotoxic benzofuran glucoside from *Senecio glaucus* L. *Natural Product Research*, (2020), doi: [10.1080/14786419.2020.1768089](https://doi.org/10.1080/14786419.2020.1768089).
- 8- Ahmed M. Zaher^{1*}, Jianyu Lin, and Masayoshi Arai. Cytotoxic Activity of Abietane-Type Diterpenes Isolated from *Taxodium distichum* Against Cancer Cells Adapted to Nutrient-Starved Conditions. *Natural Product Communications* (2020) 15(3): 1–6. doi: [10.1177/1934578X20915298](https://doi.org/10.1177/1934578X20915298).
- 9- Taha Ramadan, Ahmed M. Zaher, Ahmed Amro & Raof Sultan. Chemical Composition and Biological Activity of Capetula and Shoots Essential Oils of *Senecio glaucus* L. *Journal of Essential Oil-Bearing Plants* (2020) 23:1, 168-183, doi: [10.1080/0972060X.2020.1742797](https://doi.org/10.1080/0972060X.2020.1742797).
- 10- Ahmed M. Zaher, Mai A. M. Ahmed and Nesma M. Mohamed*. Anti-inflammatory activity of the food plant *Calligonum polygonoides* L. flavonoids targeting NF-κB. *Bulletin of Pharmaceutical Sciences. Assiut* (2020) 43, Issue 2, pp. 157-164. Doi: [10.21608/BFSA.2020.127408](https://doi.org/10.21608/BFSA.2020.127408).
- 11- Ahmad J. Almalki, Ahmed M. Zaher, Johayra Simithy, William J. Keller, Matt Tripp, Angela I. Calderón. LC-MS-Based Quality Assessment of a Traditional Chinese Medicine YANG XIN Formulation. *Planta Medica March* (2016) 82(13):1208-16. DOI <http://dx.doi.org/10.1055/s-0042-106170>

- 12- **Ahmed M Zaher**, Ahmad M Moharram, Richard Davis, Peter Panizzi, Makboul A Makboul, Angela I Calderón. Characterisation of the metabolites of an antibacterial endophyte *Botryodiplodia theobromae* Pat. of *Dracaena draco* L. by LC–MS/MS. *Natural Product Research* (2015) 29 (24) doi.org/10.1080/14786419.2015.1012715
- 13- Ahmed M Zaher, Makboul A Makboul, Ahmad M Moharram, Babu L Tekwani, Angela I Calderón. A new enniatin antibiotic from the endophyte *Fusarium tricinctum* Corda. *The Journal of Antibiotics* (2015) 68, pages197–200. [doi:10.1038/ja.2014.129](https://doi.org/10.1038/ja.2014.129).
- 14- **Ahmed M Zaher**, Makboul A Makboul, Ahmad M Moharram, Babu L Tekwani, Angela I Calderón. LC–MS metabolite fingerprinting and MtSK-based screening of an endophyte *Bartalinia pondoensis* Marinc of *Citrus aurantium* L. *Journal of Chromatography B* (2014) 18:23. <https://doi.org/10.1016/j.jchromb.2014.08.037>.
- 15- **Ahmed M Zaher**^{1*}, Islam A Abdel-Hakim, Afaf M Abdel-Baky, Bishay DW. Rapid Detection of Eight Volatile Alkaloids from *Caryota mitis* Lour. by LC-MS/MS and Antimicrobial Effects of their Extracts. *Medicinal & Aromatic plants* 7 (2018) 1-7 DOI: [10.4172/ 2167-0412.1000314](https://doi.org/10.4172/2167-0412.1000314).
- 16- Ahamed A Ali, Hanaa M Sayed, Sabrin RM Ibrahim, **Ahamed M Zaher**. Chemical constituents, antimicrobial, analgesic, antipyretic, and anti-inflammatory activities of *Euphorbia peplus* L. *Phytopharmacology* (2013), 4(1), 69-80. <http://inforesights.com/phytopharmacology/files/pp4v1i6.pdf>
- 17- Mohamed, G.I.A., **A. M. Zaher**, A. A. Ali, Hanaa M. Saeyd and Sabrin R. Mohamed. Authentication of *Euphorbia peplus* L. Family Euphorbiaceae Growing in Egypt Using Finger Printing. *Assiut J. Agric. Sci.*, (2016) (47) No. (5): (72-82). DOI: [10.21608/AJAS.2016.1999](https://doi.org/10.21608/AJAS.2016.1999).
- 18- A. A. Ali, Hanaa M. Saeyd, Sabrin R. **A. M. Zaher***. Macro- and Micromorphology of the root, stem, leaf, inflorescence and fruit of *Euphorbia peplus* L. growing in Egypt. *Bulletin of Pharmaceutical Sciences. Assiut* (2012) 35, Issue 2, pp. 109-126. DOI: [10.21608/BFSA.2012.64610](https://doi.org/10.21608/BFSA.2012.64610).
- 19- AI Calderón, AJ Almalki, A. M. Zaher, J Simithy, WJ Keller, M Tripp. High resolution mass spectrometrybased identification and quantification of chemical markers in a TCM formulation. *Planta Med* (2015) 81 - PA3. DOI: [10.1055/s-0035-1556186](https://doi.org/10.1055/s-0035-1556186)

Conferences

Oral Lectures:

- 1- Anticancer Effects of Natural Products and Natural Leads in Pancreatic Cancer Cells. The 3rd International Medical Conference on Merit University, New Sohag, Egypt April 21-22, 2024.
- 2- Abiotic stresses effects on the metabolites and bioactivities of *Balanites aegyptiaca* L. grown in Egypt. 13th IPSC INTERATIONAL PHARMACEUTICAL SCIENCES (Assiut Pharmacy) CONFERENCE, Luxor, Egypt NOV 18 -19, 2022.
- 3- Herbal Medicines; The Past and Recent Views. 11th IPSC INTERATIONAL PHARMACEUTICAL SCIENCES CONFERENCE Assiut, Egypt April 11-12, 2018.

Posters:

- 1- Ahmed M. Zaher*, Mayar Elaraby, Almodather H. A. Soheim, Al-Shimaa A. Refaat, Shahd Osamaa², Raoof Sultan. Polyphenols characterization and acetylcholinesterase inhibitory activities of four Egyptian cultivars of *Mangifera indica* L. fruit fleshes ethyl acetate extracts. 13th IPSC INTERATIONAL PHARMACEUTICAL SCIENCES (Assiut Pharmacy) CONFERENCE, Luxor, Egypt NOV 18 -19, 2022.
- 2- Walaa S. Anwar¹, Fatma M. Abdelmaksoud², Iman A. M. Abdel-Rahman³, Makboul A. Makboul¹, Ahmed M. Zaher^{1*}. Chemical composition, hepatoprotective effect of phenolics rich leaf extract of *Calamus rotang* L. introduced to Egypt. 13th IPSC INTERATIONAL PHARMACEUTICAL SCIENCES (Assiut Pharmacy) CONFERENCE, Luxor, Egypt NOV 18 -19, 2022.
- 3- Ahmed M. Zaher*. Sceletium alkaloids of antidepressant and anxiolytic Zembrin® product. The 2nd International Conference on Biological, Environmental Sciences, Hurgada, Egypt JUL 25-28, 2018.
- 4- Ahmed M. Zaher, Makboul A. Makboul, Ahmad M. Moharram, Angela I. Calderón. Detection of the constituents of an endophyte *Bartatlinia pondoensis* Marinc by LC-MS/MS. Auburn University Research Week, April 16th, 2014, Auburn, Alabama, USA.

- 5- Ahmed M. Zaher, Makboul A. Makboul, Ahmad M. Moharram, Angela I. Calderón. Metabolite fingerprinting and profiling of an endophyte *Bartatlinia pondoensis* Marinic of *Citrus aurantium* L. by using LC-MS. 62nd ASMS Conference on Mass Spectrometry and Allied Topics. June 15-19, 2014. Baltimore, Maryland, USA.
- 6- Ahmed M. Zaher, Makboul A. Makboul, Ahmad M. Moharram, Angela I calderón. High resolution mass spectrometry-based identification of new enniatin antibiotic and five known enniatins from the endophyte *Fusarium tricinctum* Corda, Auburn University Research Week, April 13th, 2015, Auburn, Alabama, USA.

Google scholar website:

<https://scholar.google.com/citations?user=EU6lz8kAAAAJ&hl=en>

Assiut University website

http://www.aun.edu.eg/arabic/membercv_print.php?M_ID=2836

ResearchGate website:

https://www.researchgate.net/profile/Ahmed_Zaher4

Signature

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