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PERSON	al Data		
Curre	nt Position	 Associate Professor, Department of Pharmacognosy Products, Faculty of Pharmacy, Menoufia University, E 	
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PhD	Physiology	of Potsdam , and Max Planck Institute of Molecular Plant (MPIMP-Golm), Germany.	2014-2018
MSc		ersity, Faculty of Pharmacy, Egypt.	2009-2012
		macognosy and Natural Products Chemistry	
BSc		ersity, Faculty of Pharmacy, Egypt.	2001-2006
		ith Honor Degree in Pharmaceutical Sciences	
PROFES	SIONAL WOR	K EXPERIENCE AND CHRONOLOGY OF EMPLOYMENT	
of Sci Asso Produ Post- (MPIN Lecture	ence and Tecl ciate Profes icts, Faculty of doctoral Fello /IP-Golm), Gei irer and Res	rmany.	2023- current 2021- 2022 2019- current
 Director, Quality Assurance Unit, Faculty of Pharmacy, Menoufia University, Egypt. 			2019 - 2023
 Lecturer and Researcher, Pharmacognosy Department, Faculty of 2018-2019 Pharmacy, Cairo University, Egypt. 			2018-2019
 PhD student, Experimental Systems Biology Group, Max Planck Institute 2014-2018 of Molecular Plant Physiology (MPIMP-Golm), Germany. 			
 Assistant lecturer, Pharmacognosy Department, Faculty of Pharmacy, 2012-201 Cairo University, Egypt. 			2012- 2013
• Teaching Assistant, Pharmacognosy Department, Faculty of Pharmacy, Cairo University, Egypt.			2008- 2012
RESEAR	CH EXPERIEN	CE	
good	understanding	ms biology approaches (metabolomics and lipidomics) of plant metabolism.	with a very
 Phyto 	•	ug discovery and Isolation of bioactive plant constituents. pharmacognostical studies of medicinal plants.	

Quality control of natural drugs.

RESEARCH ACCOMPLISHED AND JOURNAL PUBLICATIONS JOURNAL PUBLICATIONS

- Passent M. Abdel-Baki, Moshera M. El-Sherei, Amal E. Khaleel, Essam Abdel-Sattar, <u>Mohamed A. Salem</u> and Mona M. Okba. Correlation between secondary metabolites of *Iris confusa* Sealy and *Iris pseudacorus* L. and their newly explored antiprotozoal potentials. *BMC Complementary Medicine and Therapies*, 23, 465, 2023.
- <u>Mohamed A. Salem</u>, Osama G. Mohamed, Esraa M. Mosalam, Aya Ibrahim Elberri, Hend Mohamed Abdel-Bar, Mariam Hassan, Ahmed A. Al-Karmalawy, Ashootosh Tripathi, Shahira M. Ezzat and Hend E. Abo Mansour. Investigation of the phytochemical composition, antioxidant, antibacterial, anti-osteoarthritis, and wound healing activities of selected vegetable waste. *Scientific Reports*, 13: 13034, 2023.
- Hend E. Abo Mansour, Aya Ibrahim Elberri, Mai El-Sayed Ghoneim, Waad A. Samman, Aisha A. Alhaddad, Mahmoud S. Abdallah, Eman I. El-Berri, <u>Mohamed A.</u> <u>Salem</u> and Esraa M. Mosalam. The Potential Neuroprotective Effect of Thymoquinone on Scopolamine-Induced In Vivo Alzheimer's Disease-like Condition: Mechanistic Insights. *Molecules*, 28(18), 6566, 2023.
- Ahmed Zayed, Mohamed A. Farag, Alexander Mehring, <u>Mohamed A. Salem</u>, Rana M. Ibrahim, Saleh Alseekh, Alisdair R. Fernie, Roland Ulber. Methyl jasmonate elicitation effect on the metabolic profile of cambial meristematic cells culture derived from sweet basil (*Ocimum basilicum*) in relation to antioxidant activity: Untargeted metabolomics study in a time-based approach. *Phyotchemistry*, 213, 113777, 2023.
- Fayezeh Aarabi, <u>Mohamed A. Salem</u>, Stephanie Arrivault, Mustafa Bulut, Mark Aurel Schöttler, Patrick Giavalisco, Alisdair R. Fernie and Rainer Hoefgen. The regulation of sulfolipids under Sulfur starvation, *Plant Molecular Biology*, 2023.
- Inas Y. Younis, Engy Mohsen, Rana M. Ibrahim, Alisdair R. Fernie, Saleh Alseekh and <u>Mohamed A. Salem</u>. Non-targeted metabolomics and chemometrics for saffron (Crocus sativus L.) authentication and adulteration detection in relation to its anticholinesterase activity. *Food Chemistry Advances*, 100217, 2023.
- <u>Mohamed A. Salem</u>, Jian You Wang and Salim Al-Babili. Mini Review: Metabolomics of plant root exudates: From sample preparation to data analysis. *Frontiers in Plant Science*, 13:1062982, 2022.
- <u>Mohamed A. Salem</u>, Hend E. Abo Mansour, Esraa M. Mosalam, Riham A. El-Shiekh, Shahira M. Ezzat, and Ahmed Zayed. Valorization of by-products derived from onions and potato: Extraction optimization, metabolic profile, outstanding bioactivities, and industrial applications. *Waste and Biomass Valorization*, 2023.
- <u>Mohamed A. Salem</u>, Maha M Salama, Shahira M. Ezzat and Yomna A. Hashem. Comparative Metabolite Profiling of Four Polyphenol Rich Morus Leaves extracts in Relation to their Antibiofilm Activity against Enterococcus faecalis. *Scientific Reports*, 12:20168, 2022.
- Nihal Elsayyad, Iman Gomaa, <u>Mohamed A. Salem</u>, Reham Amer, Hanan M. El-Laithy. Efficient Lung-Targeted Delivery of Risedronate Sodium/Vitamin D3 Conjugated PAMAM-G5 Dendrimers for Managing Osteoporosis: Pharmacodynamics, Molecular Pathways and Metabolomics Considerations. *Life Sciences*, 309, 121001, 2022.
- <u>Mohamed A. Salem</u>, Riham A. El-Shiekh, Nora M. Aborehab, Ahmed A. Al-Karmalawy, Shahira M. Ezzat, Saleh Alseekh and Alisdair R. Fernie. Metabolomics driven analysis of Nigella sativa seeds identifies the impact of roasting on the chemical composition and immunomodulatory activity. *Food Chemistry*, 398, 133906, 2023.
- <u>Mohamed A. Salem</u>, Shahira M. Ezzat, Dalia I. Hemdan, Ahmed Zayed. Reorganization and Updating the Pharmacy Education in Egypt: A Review Study on the Transition from B Pharm to Pharm D Degree. *J Adv Med Pharm Res.*, 3, 53-59, 2022.

- Okba, M., Abdel-Baki, P., Abu-Elghait, M., Shehabeldine, A., El-Sherei, M., Khaleel, A., and <u>Mohamed A. Salem</u>. UPLC-ESI-MS/MS Profiling, Antihaemolysin and Anti-Biofilm Activities of the Underground Parts of Common Iris Specie. *Biology and Life Sciences Forum*, 6(1), 2022.
- Beata Siemiatkowska, Matteo Chiara, Bhaskara Govinal Badiger, Matteo Riboni, Francesca D'Avila, Daniele Braga, <u>Mohamed A. Salem</u>, Damiano Martignago, Sara Colanero, Massimo Galbiati, Patrick Giavalisco, Chiara Tonelli, Thomas E. Juenger and Lucio Conti. GIGANTEA Is a negative regulator of abscisic acid transcriptional responses and sensitivity in Arabidopsis. *Plant and Cell Physiology*, 63(9), 2022.
- Alexander Mehring, Ahmed Zayed, <u>Mohamed A. Salem</u>, Saleh Alseekh, Alisdair R. Fernie, Roland Ulber. Time-dependent behaviour of methyl jasmonate elicited cell suspension cultures of Ocimum species via untargeted mass spectrometry-based metabolomics. *Industrial Crops & Products*, 187, 115414, 2022.
- Dina M. El-Kersh, Nada M. Mostafa, Shaimaa Fayez, Tarfah Al-Warhi, Mohammed A. S. Abourehab, Wagdy M. Eldehna and <u>Mohamed A. Salem.</u> GC-MS metabolites profiling of anethole-rich oils by different extraction techniques: Antioxidant, cytotoxicity and insilico enzymes inhibitory insights. *Journal of Enzyme Inhibition and Medicinal Chemistry*, 37:1, 2022.
- Sharifi-Rad, Javad, Herrera-Bravo, Jesús, Semwal, Prabhakar,<u>Mohamed A.</u> <u>Salem</u>,.....Cho, William C. Artemisia spp.: An Update on Its Chemical Composition,Pharmacological and Toxicological Profiles. *Oxidative Medicine and Cellular Longevity*, 2022: p. 5628601, 2022.
- Fayezeh Aarabi, Apidet Rakpenthai, Rouhollah Barahimipour, Michal Gorka, Saleh Alseekh, Youjun Zhang, <u>Mohamed A. Salem</u>, ..., Alisdair Fernie, and Rainer Hoefgen. Sulfur deficiency-induced genes affect seed protein accumulation and composition under sulfate deprivation. *Plant Physiology*, 4;187(4), 2021.
- Shahira M. Ezzat, Heba M.I. Abdallah, Noha N. Yassen, ..., <u>Mohamed A. Salem</u>. Phenolics from *Physalis peruviana* fruits ameliorate streptozotocin-induced diabetes and diabetic nephropathy in rats via induction of autophagy and apoptosis regression. *Biomedicine & Pharmacotherapy*,142, 111948, 2021.
- <u>Mohamed A. Salem</u>, Ahmed Zayed, Saleh Alseekh, Alisdair R. Fernie and Patrick Giavalisco. The integration of MS-based metabolomics and multivariate data analysis allows for improved quality assessment of *Zingiber officinale* Roscoe, *Phytochemistry*, Volume 190, 112843, 2021.
- Zimmermann, S. E., Benstein, R. M., Flores-Tornero, M., Blau, S., Anoman, A. D., Rosa-Téllez, S., Gerlich, S. C., <u>Mohamed A. Salem</u>, . Fernie, A. R., Giavalisco, P., Ros, R., Krueger, S., 2021. The phosphorylated pathway of serine biosynthesis links plant growth with nitrogen metabolism. *Plant Physiology*, 186(3), 1487–1506, 2021.
- <u>Mohamed A. Salem</u>, Shahira M. Ezzat, Patrick Giavalsico, Essam Abdel Sattar and Nebal El Tanbouly. Application of a comprehensive metabolomics approach for the selection of flaxseed varieties with the highest nutritional and medicinal attributes. *Journal of Food and Drug Analysis*, 29(2), 2021.
- <u>Mohamed A. Salem</u>, Riham A. El-Shiekh, Rasha A. Hashem and Mariam Hassan., In vivo Antibacterial Activity of Star Anise (*Illicium verum* Hook.) Extract Using Murine MRSA Skin Infection Model in Relation to Its Metabolite Profile. *Infection and Drug Resistance*, 14:33-48, 2021.
- El-Shiekh, Riham A., <u>Mohamed A. Salem</u>, Samar M. Mouneir, Azza Hassan, and Essam Abdel-Sattar. A mechanistic study of *Solenostemma argel* as anti-rheumatic agent in relation to its metabolite profile using UPLC/HRMS. *Journal of Ethnopharmacology*, 265, 113341, 2021.

- <u>Mohamed A. Salem</u>. A Response to the Recommendations for Using Dexamethasone for the Treatment of COVID-19: The Dark Side of Dexamethasone. *Journal of Pharmacy Practice*, 2020:0897190020979608.
- <u>Mohamed A. Salem</u> and Shahira M. Ezzat. The use of aromatic plants and their therapeutic potential as antiviral agents: A hope for finding anti-COVID 19 essential oils. *Journal of Essential Oil Research*,1-9, 2021.
- <u>Mohamed A. Salem</u>, Ahmed Zayed, Magy E. Beshay, Mirna M. Abdel Mesih, Reem F. Ben Khayal, Fady A. George, Shahira M. Ezzat. *Hibiscus sabdariffa* L.: phytoconstituents, nutritive, and pharmacological applications. *Advances in Traditional Medicine*, 2021.
- <u>Mohamed A. Salem</u>, Rasha Ali Radwan, Eman Sherien Mostafa, Saleh Alseekh, Alisdair R. Fernie and Shahira M. Ezzat. Using an UPLC/MS-based untargeted metabolomics approach for assessing the antioxidant capacity and anti-aging potential of selected herbs. *RSC Advances*, 10 (52):31511-31524, 2020.
- <u>Mohamed A. Salem</u>, Takuya Yoshida, Leonardo Perez de Souza, Saleh Alseekh, Krzysztof Bajdzienko, Alisdair R. Fernie and Patrick Giavalisco. An improved extraction method enables the comprehensive analysis of lipids, proteins, metabolites and phytohormones from a single sample of leaf tissue under water-deficit stress. *Plant Journal*, 103, 2020.
- <u>Mohamed A. Salem</u>, Haidy E. Michel, Marwa I. Ezzat, Mona M. Okba, Ahmed M. EL-Desoky, Shanaz O. Mohamed and Shahira M. Ezzat. Optimization of an Extraction Solvent for Angiotensin-Converting Enzyme Inhibitors from Hibiscus sabdariffa L. Based on Its UPLC-MS/MS Metabolic Profiling. *Molecules*, 25, 2307, 2020.
- Mona M. Okba, Passent M. Abdel Baki, Amal E. Khaleel, Moshera M. El-Sherei, <u>Mohamed A. Salem</u>. Discrimination of common Iris species from Egypt based on their genetic and metabolic profiling, *Phytochemical Analysis*, 32(2), 2020.

PEER REVIEWING FOR SCIENTIFIC JOURNALS

A peer reviewer for the following journals; Scientific Reports, Natural Product Research, BMC Complementary Medicine and Therapies, Pharmaceutical Biology, Journal of Advanced Research (JAR), Planta Medica, Molecules, PeerJ, Bulletin of Faculty of Pharmacy Cairo University (bfopcu) and International Journal of Food Properties.

Fellowships

Post-doctoral Fellowship

Egyptian Ministry of Higher Education- Mission Call 2019-2020 at Max Planck Institute of Molecular Plant Physiology, Germany.

DAAD doctoral fellowship

2013

2021

Full PhD Scholarship, German Egyptian Research Long Term Scholarship (GERLS) -Program between German Academic Exchange Service (DAAD) and Egyptian 2018 Ministry of Higher Education for the Doctoral Degree at Max Planck Institute of Molecular Plant Physiology, Germany.

HONOURS AND AWARDS

- Egypt State Encouragement Award, The Academy of Scientific Research & 2023 Technology (ASRT), Egypt.
- Menoufia University Award for distinguished staff "AI Tashgeeyea", 2021 Egypt.
- Menoufia University Award for distinguished staff "Mostafa Bahgat Abdel 2020 Motaal Award", Egypt.
- Scientific Publications Award, Menoufia University, Egypt. 2019