

CURRICULUM VITAE

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Education

Diploma (2015) Quality and accreditation management system in educational institution.
Ain shams university.

Ph.D. in Pharmaceutical Sciences (2007) Faculty of Pharmacy, Cairo University.
Dissertation title: Phytochemical and Biological studies of *Jasonia montana* vhal. Family:
Compositae growing in Egypt

Diploma in nutrition science (2001), Faculty of home economics - Helwan University

Diploma in cosmetic science (1996), Faculty of Pharmacy, Cairo Univeristy, Egypt.

Diploma in pharmaceutical Science (Pharmaceutics & Pharmacognosy) (1998), Faculty of pharmacy- Cairo University.

B.Sc. in Pharmaceutical Sciences (May 1988) Faculty of Pharmacy, Cairo University, Egypt.

Field of interest

Current research interests include the isolation of biologically significant natural products from various plant species as well as the implication of molecular biology to increase the active constituents in certain plant species.

Professional Skills

In the field of Pharmacognosy and Phytochemistry:

- Proficient in the use of various microscopes, sample preparation, dyeing and imaging.
- Experienced in analysis of natural products using HPLC and LC/MS techniques
- Experienced in essential oil extraction and identification using GC and GC/MS techniques.
- Experienced in extraction, isolation and structure elucidation of different secondary metabolites from natural origin.
- Experienced in biological screening of different plant extracts and isolated compounds.

Association Memberships

- A member of the Association lady Anji, in Cairo (2000-now).
- President of the Association Al-Ekhlass for social services in Giza (2005-2014).
- President of the Society for the Protection of Rights of Persons with Disabilities in Giza (2010-now).

Visiting

- Institut für Pharmazie und Molekulare Biotechnologie Im Neuenheimer Feld 364.D-69120 Heidelberg 2013.
- Training course at BUCHI Co. in Switzerland 2014.
- Training course at BUCHI Co. in Switzerland 2016.

Scientific trips

- Over than 60 scientific trips to collect medicinal plants from Sinai, Borg el Arab and western desert.

Publications

1. Soliman FM, Moussa MY, Abdallah HM, **Othman SM**. Cytotoxic Activities of Major Flavonoids of *Jasonia montana* Vahl. (Botsch). (Astraceae) growing in Egypt. **Australian Journal of Basic and Applied Sciences**. (2009); 3(1): 148-152. Impact factor (.23)
2. Hussein MA, **Samir MO**. Structure antioxidant activity relationship and free radical scavenging capacity of hesperidin. **IJPI's J Med Chem**. (2010); 1: 7–20.
3. Mahmoud A Koheil, Mohammed A Hussein, **Samir M. Othman** and Alaa El-Haddad. Anti-inflammatory and antioxidant activities of *Moringa peregrina* Seeds. **Free Radicals and Antioxidants journals**. (2011); 1(2):49-61.
4. Mahmoud A. Koheil, Mohammed A Hussein, **Samir M Othman**, Alaa El-Haddad. In-vivo antioxidant activity of *Moringa peregrina* against STZ –induced oxidative stress in Type 2 diabetic rats. **Molecular & Clinical Pharmacology**. (2013); 4(1): 65-75.
5. **Samir M. Osman**, Ahmed S Alazzouni, Soad M Abdel Khalek, Mahmoud A Koheil, and Alaadin E El-Haddad. Phytoconstituents and Biological Activities of The Aerial Parts of *Caesalpinia gilliesii* (Hook) Family Caesalpinaceae Growing in Egypt. **Life science journal**. (2013); 10: 2418-2430.
6. **Samir M Osman**, Ahmed S Alazzouni, Mahmoud A Koheil, Soad M Abdel Khalek, and Amr M Saad Eldeen. Phytochemical Screening and Hepatoprotective Activity of the Aerial Parts of *Lotus polyphyllus* E.D. Clarke Family Fabaceae Growing in Egypt. **Life science journal**. (2013); 10: 2402-2418.
7. Gehad T El-Sherbini and **Samir M Osman**. Anthelmintic activity of unripe *Mangifera indica* L. (Mango) against *Strongyloides stercoralis*. **Int.J.Curr.Microbiol.App.Sci**. (2013); 2 (5), 401-409.
8. Heba A El-Gizawy, **Samir M Osman**, Moustafa A Abdel kawy, Mahmoud A Koheil, Ali M El halawany and Mohammed A Hussein. Seasonal variation of essential oil, oxygenated compounds content and antioxidant capacities of leaves and ripe & unripe fruits of fortunella japonica swingle (KUMQUAT). **World Journal of Medicine**. (2013); 1(4):204-215.

9. William HS, Eid GEM and **Osman SM**. Retreatment efficacy of race rotary nickel titanium system with or without solvent in oval root canals obturated with guttapercha and different sealers (an invitro study). **Cairo Dental Journal**. (2014); (1),
10. Mohamed IS Abdelhady, Amel M Kamal, **Samir M Othman**, Mohammad S Mubarak, Taibi Ben Hadda. Total polyphenolic content, antioxidant, cytotoxic, antidiabetic activities, and polyphenolic compounds of *Sophora japonica* grown in Egypt. **Medicinal Chemistry Research**. (2014); 23: 3593-3928.
11. Ahmed Gaweesh, Abd El-Naser Badawi Sengab, Hala Mohamed El-Hefnawy, **Samir Mohamed Osman** and Ahmed Muhammed Abdou. Phytoconstituents, Cytotoxic, Antioxidant and Hepatoprotective Activities of the Aerial Parts of *Lycium shawii* R. Growing in Egypt. **Medicinal & Aromatic Plants**. (2015); 4(1) 1:4
12. **Samir M Osman** and Mohammed A Hussein. Purslane Seeds Fixed Oil as a Functional Food in Treatment of Obesity Induced by High Fat Diet in Obese Diabetic Mice. **Nutrition and Food Sciences**. (2015) 5:1
13. Hossam Abdallah, Mohamed Farag, **Samir Osman**, Da hye Kim, Kyungsu Kang, Cheol-Ho Pan, and Essam Abdel-Sattar. Isolation of major phenolics from *Launaeaspinosa* and their protective effect on HepG2 cells damaged with t-BHP. **Pharmaceutical Biology**. (2015); 1-6.
14. **Samir M Osman**, Lina Gamil and Mohammed A Ramadan. Bioactivity Guided Study of *Anti-helicobacter* Activity of *Rutagraveolens*. **International Journal of Applied Research in Natural Products**. (2015); 8: 1-5.
15. **Samir M Osman**, Soad M Abd El-Khalik, Alaadin E El-Haddad, Michael Wink. A new steroidal compound (β -sitosterol-3-*O*-butyl) isolated from *Caesalpinia gilliesii* flowers. **International Journal of Applied Research in Natural Products**. (2015); 8:14-19.
16. Amani M Marzouk, **Samir M Osman** and Ahmed A Gohar. A new pregnane glycoside from *Gomphocarpus fruticosus* growing in Egypt. **Natural Product Research**. (2015); 1-8.
17. **Samir M Osman**, Soad M Abd El-Khalik, Amr M Saadeldeen, Mahmoud A Koheil and Michael Wink. Activity Guided Phytochemical Study of Egyptian *Lotus polyphyllus* E.D. Clarke (Fabaceae). **International Journal of Applied Research in Natural Products**. (2015) 8 (4), 18-26.
18. **Samir M Osman**, Walaa A El Kashak, Michael Wink and Mohamed A El Raey. New Isorhamnetin Derivatives from *Salsola imbricata* Forssk. Leaves with Distinct Anti-inflammatory Activity. **Pharmacognosy Magazine**. (2016); 12 (45), 47-51.
19. **Samir M Osman**, Alaadin E El-Haddad, Mohamed A El-Raey, Soad M Abd El-Khalik, Mahmoud A Koheil and Michael Wink. A New Octadecenoic Acid Derivative from *Caesalpinia gilliesii* Flowers with Potent Hepatoprotective Activity. **Pharmacognosy Magazine**; Accepted paper (2016).
20. Walaa A. El-Kashak, Samir M. Osman, Ahmed H. Gaara, Sayed A. El-Toumy, Tahia K. Mohamed & Iñaki Brouard, 2017. Phenolic metabolites, biological activities, and isolated compounds of *Terminalia muelleri* extract. **Pharmaceutical Biology**. <https://doi.org/10.1080/13880209.2017.1406531>

21. Ali M. El-Halawany, Samir M. Osman & Hossam M. Abdallah ,2018.Cytotoxic constituents from *Vicia monantha* subsp. *monantha* seeds. *Natural Product Research*. <https://doi.org/10.1080/14786419.2018.1434638>
22. Mahmoud Emam , Mohamed A. El Raey , Alaadin E. El-Haddad , Sally A. El Awdan , Abdel-Gawad M. Rabie , Mohamed A. El-Ansari , Mansour Sobeh , Samir M. Osman and Michael Wink , 2019.A New Polyoxygenated Flavonol Gossypetin-3-O-β-D-Robinoside from *Caesalpinia gilliesii* (Hook.) D. Dietr. and In Vivo Hepatoprotective, Anti-Inflammatory, and Anti-Ulcer Activities of the Leaf Methanol Extract.*Molecules*. 2018 Dec 31;24(1):138. doi: 10.3390/molecules24010138.
23. Mansour Sobeha, j , Mohamed El-Raeyb , Samar Rezqc , Mohamed A.O. Abdelfattahd , Ganna Petruke , Samir Osmanf , Assem M. El-Shazlyg , Hesham A. El-Beshbishyh,i , Mona F. Mahmoudc , Michael Wink, 2109, Chemical profiling of secondary metabolites of *Eugenia uniflora* and their antioxidant, anti-inflammatory, pain killing and anti-diabetic activities: A comprehensive approach . *Journal of Ethnopharmacology*. <https://doi.org/10.1016/j.jep.2019.111939> .
24. Mansour Sobeh , Ganna Petruk , Samir Osman , Mohamed A. El Raey , Paola Imbimbo , Daria Maria Monti , and Michael Wink , 2019.Isolation of Myricitrin and 3,5-di-O-Methyl Gossypetin from *Syzygium samarangense* and Evaluation of their Involvement in Protecting Keratinocytes against Oxidative Stress via Activation of the Nrf-2 Pathway .*Molecules*, 2019 May; 24(9): 1839.
Published online 2019 May 13. doi: [10.3390/molecules24091839](https://doi.org/10.3390/molecules24091839)
25. Samir M. Osman, Nahla A. Ayoub, Safaa A. Hafez, Haitham A. Ibrahim, Mohamed A. El Raey, Soad Z. El-Emam†, Ahmed A. Seada, Amr M. Saadeldeen, 2020.Aldose reductase inhibitor form *Cassia glauca*: A comparative study of cytotoxic activity with Ag nanoparticles (NPs) and molecular docking evaluation.*PloS one*, 2020 Oct 16;15(10):e0240856. doi: 10.1371/journal.pone.0240856. eCollection 2020.
26. Seham S. El-Hawary , Hala M. EL-Hefnawy , Mohamed A. El-Raey , Fatma Alzahraa Mokhtar & Samir M. Osman, 2020. *Jasminum azoricum* L. leaves: HPLC-PDA/MS/MS profiling and in-vitro cytotoxicity supported by molecular docking . *Natural Product Research*, DOI: 10.1080/14786419.2020.1791111 To link to this article: <https://doi.org/10.1080/14786419.2020.1791111>
27. Seham Elhawary , Hala EL-Hefnawy, Fatma Alzahraa Mokhtar , Mansour Sobeh , Eman Mostafa3 Samir Osman , Mohamed El-Raey, 2020. Green Synthesis of Silver Nanoparticles Using Extract of *Jasminum officinal* L. Leaves and Evaluation of Cytotoxic Activity Towards Bladder (5637) and Breast Cancer (MCF-7) Cell Lines. *International Journal of Nanomedicine* ,2020 Dec 4;15:9771-9781. doi: 10.2147/IJN.S269880. eCollection 2020.
28. Samah A. El-Newary, Abeer Y. Ibrahim, **Samir M. Osman**, Michael Wink. **2018**. Evaluation of possible mechanisms of *Cordia dichotoma* fruits for hyperlipidemia controlling in Wistar albino rats. *Asian Pacific Journal of Tropical Biomedicine*. doi: 10.4103/2221-1691.235325
29. Mahmoud A. El-Saieda, Mansour Sobehb, Walied Abdoc , Osama M. Badrd , Lamiaa T. Youssife , Ibrahim H. Elsayeda , **Samir M. Osman** and Michael Wink. 2018. *Rheum palmatum* root extract inhibits hepatocellular carcinoma in rats treated with diethylnitrosamine . *Journal of Pharmacy and Pharmacology*. doi: 10.1111/jphp.12899

30. **Samir M. Osman**, Ahmed M. Abdel- Megied, Mohammed H. Zain Eldain, Simimole Haleema, Chithra Gopinath, Sarojini Amma Sumalekshmy, Hassan Y. Aboul- Enein., **2019**. highly sensitive GC–MS method for simultaneous determination of anacardic acids in cashew (*Anacardium occidentale*) nut shell oil in the presence of other phenolic lipid derivatives. *Biomedical Chromatography*. <https://doi.org/10.1002/bmc.4659>
31. SEHAM S. EL-HAWARY, HALA M. EL-HEFNAWY, **SAMIR M. OSMAN**, EMAN S. MOSTAFA, FATMA ALZAHRAA MOKHTAR, MOHAMED A. EL-RAEY. **2019** CHEMICAL PROFILE OF TWO JASMINUM SAMBAC L. (AIT) CULTIVARS CULTIVATED IN EGYPT–THEIR MEDIATED SILVER NANOPARTICLES SYNTHESIS AND SELECTIVE CYTOTOXICITY. <http://dx.doi.org/10.22159/ijap.2019v11i6.33646>
32. Sabry Ali El-Naggar, Karim Samy El-Saidb, **Samir Othman**, Fotouh Mansour, Doaa Ibrahim Kabil, Mostafa Hossam Khairy. **2019**. Cooking with EDTA reduces nutritional value of *Vicia faba* beans. Elsevier, *Biotechnology Reports*.
33. Seham S. El-Hawary, Hala M. EL-Hefnawy, **Samir M. Osman**, Mohamed A. ELRaey & Fatma Alzahraa Mokhtar Ali. **2019**. Phenolic profiling of different *Jasminum* species cultivated in Egypt and their antioxidant activity. *Natural Product Research*. <https://doi.org/10.1080/14786419.2019.1700508>.
34. Sobeh M, Mahmoud MF, Hasan RA, Abdelfattah MAO, **Osman S**, Rashid H, El-Shazly AM, Wink M. 2019. Chemical composition, antioxidant and hepatoprotective activities of methanol extracts from leaves of *Terminalia bellirica* and *Terminalia sericea* (Combretaceae). *PeerJ* 7:e6322 DOI 10.7717/peerj.6322.
35. Haitham A. Ibrahim, Hesham S. M. Soliman, Fadila M. Hamed, Daa A. Marrez, **Samir M. Othman**. **2020**. Antibacterial activity of vanillic acid and catechol produced by microbial biotransformation of caffeic acid. *J. Pharm. Sci. & Res.*
36. Catherine Karim Boutros Zakhari, **Samir Mohamed Osman**, Nadia M Mahfouz, Camilia George Michel, Essam Abdel-Sattar. **2021**. Hepatoprotective Effects of Kombucha Tea in Carbon Tetrachloride-Induced Hepatotoxicity: An in Vivo and Molecular Docking Studies. *Tropical Journal of Natural Product Research*. ISSN: 2616-0684 (Print); 2616-0692 (Online), DOI: 10.26538/tjnpr, ISI IF: 0.562 (2017)
37. Seham S. El-Hawary, Hala M. E. L. Hefnawy, Moustafa N. Elemeery, **Samir M. Osman**, Mohamed A. EL-Raey, Fatma Alzahraa Mokhtar, Cheol H. Pan, and Haitham Ali Ibrahim. **2021**. The role of active metabolites isolated from *Jasminum multiflorum* flowers against hepatitis C virus infection and related hepatocellular carcinoma. *NATURAL PRODUCT RESEARCH*. <https://doi.org/10.1080/14786419.2021.1913588>

Posters

1. A study on the potential activity of natural products on the growth and survival of helicobacter pylori. 2nd scientific conference of faculty of pharmacy, Cairo University. April 2010 Poster participation.
2. Nutritional value and lipid composition of of Moringa peregrina Seeds (AL-YASSAR) growing in Egypt. The thirty two Scientific Conference of Egyptian Pharmaceutical Society Dec. 2011 Poster participation.
3. Phytochemical and biological study of Bismarckia nobilis belonging to family Palmae. The thirty two Scientific Conference of Egyptian Pharmaceutical Society Dec. 2011 Poster participation.
4. Phytoconstituents and biological activities of the aerial parts of caesalpinigielliesii (hook) family caesalpinaceae growing in Egypt. The 4th International Scientific Conference of Faculty of Pharmacy, Cairo University. 24th April, 2013, 3:00 P.M. at the Conference Center, University Hostel, Cairo University. Poster participation.
5. Antihyperglycemic activity and nitrile glycosides of moringa peregrine (Forssk.) seeds. The Euro-Mediterranean Association of Life Science (EMALS) " The 4th Euro-Mediterranean Confernece of Natural Products and Drug Discovery: Back to Mother Nature" Cairo-Sharm El-Shiekh, 3-7 March 2015. Poster participation.
6. Phytoconstituents and Biological Activity of Lepidium sativum (Linn) Seeds Growing in Egypt. Fourth Euro-Mediterranean conference of Natural Products and Drug Discovery: Back to Mother Nature (BioNat-IV). Cairo-Sharm El-Shiekh, 3-7 March 2015. Poster participation.
7. In vitro evaluation of chloroform and Marjoram essential oil in endodontic retreatment of oval canals obturated using gutta-percha and three different sealers. European society of endodontology. Abstracts of the ESE Wladimir Adlivankine Research Prize and Original Scientific Posters. International Endodontic Journal, 47, 50–113, 2014. Poster participation.

Conferences

1. Egyptian Pharmaceutical Society "XXXII conference of pharmaceutical sciences" December 2011.
2. Egyptian Botanical Society "4th International Conference of Botany and Microbiological Sciences" 23-24 April 2014.
3. The Euro-Mediterranean Association of Life Science (EMALS) " The 4th Euro-Mediterranean Confernece of Natural Products and Drug Discovery: Back to Mother Nature" Cairo-Sharm El-Shiekh, 3-7 March 2015.
4. International Scientific Conference of Pharmaceutical Science (2017)
5. Dubai International Pharmaceuticals & Technologies Conference & Exhibition 2016.
6. Dubai International Pharmaceuticals & Technologies Conference & Exhibition 2017.
7. 4th International Conference For Quality Assurance of Education 2017.
8. Dubai International Pharmaceuticals & Technologies Conference & Exhibition 2018.
9. International Conference of Traditional Chinese Medicine & Functional Medicine 2018.
10. 5th International Conference For Quality Assurance of Education 2018.
11. Dubai International Pharmaceuticals & Technologies Conference & Exhibition 2019.
12. Dubai International Pharmaceuticals & Technologies Conference & Exhibition 2020.
13. Dubai International Pharmaceuticals & Technologies Conference & Exhibition 2020.