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Curriculum Vitae

i. Personal information

Name: Iman Khallaf

Address: Department of Pharmacognosy and natural products, Faculty of Pharmacy, Menoufia University, Shibin Elkom, 32511, Egypt

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E-mail: iman.khallaf123@phrm.menofia.edu.eg

ii. Education

From 2006 - to 2013

Ph.D. in Chemistry and biology of natural product, Department of Chemistry, University of Saskatchewan, Canada

Supervisor: Prof. M. S .C. Pedras

Title of the thesis: Biotransformations of fungal phytotoxins in plants and indolyl-3-acetaldoxime in fungi

From 1998 - to 2004

M.Sc. in Chemistry and Biology of natural products (Pharmacognosy) Department of Pharmacognosy, Assiut University, Egypt

Title of the thesis: Pharmacognostical study of *Juglans nigra* L. (Black walnut) Family Juglandaceae (Walnut family) Cultivated in Egypt

From 1993 - to 1998

B.Sc., Pharmacy, Faculty of Pharmacy, Assiut University, Egypt

iii. Work experience

1- Research experience

Area of interest: Chemical Biology, Analytical Chemistry Biochemistry and Organic Chemistry,

- Skills

- Isolations of secondary metabolites from plants and microorganisms
- Synthesis of small organic compounds
- Characterization of organic molecules using different spectral analysis techniques (^1H NMR, ^{13}C NMR, HRMS), as well as, identification of organic molecules using ESI-MS/MS analysis
- Antimicrobial bioassays of biologically active compounds
- Studying of the biotransformation of natural compounds by plants and microorganisms
- Enzymatic assays and enzyme kinetics studies
- Purification of enzymes
- Electrophoresis
- Bioinformatics
- Expertise in handling HPLC-DAD, HPLC-MS, NMR FPLC instruments

2- Teaching experience

- **Lab manager at Assiut University, Egypt** (1998 to 2004):
- **Assistant lecturer at Assiut University, Egypt** (2004 to 2006):
- **Teacher assistant at University of Saskatchewan - Canada** (2010 to July 2013)
- **Lecturer at Assiut University- Egypt** (28 July to 31 Dec 2021)
- **Lecturer at Menofia University- Egypt** (2 Jan 2022 till now)
- **Assistant professor at Menofia University- Egypt** (March 2023 till now)

iv. Conferences

- Attended the **12th International Pharmaceutical Sciences Conference** in Faculty of Pharmacy Assiut University, Nov 2020.
- Attended the **11th International Pharmaceutical Sciences Conference** in Faculty of Pharmacy Assiut University, April 2018.
- Attended the **10th International Pharmaceutical Sciences Conference** in Faculty of Pharmacy Assiut University, April 2016.
- Participated in oral presentations (Plenary Lecture) at the **9th International Pharmaceutical Sciences Conference** in Faculty of Pharmacy Assiut University, March 2014. The title of the oral presentation “Interaction of the fungal phytotoxins destruxin B and sirodesmin PL with Crucifer and non-Crucifer Plants”
- Participated in oral presentations at the **27th International Society of Chemical Ecology (ISCE) Conference** in Vancouver, June 2011. The title of the oral presentation “Interaction of the fungal phytotoxins destruxin B and sirodesmin PL with plants”
- Participated in poster presentations at the **27th International Society of Chemical Ecology (ISCE) Conference** in Vancouver, June 2011. The title of the poster presentation “Partial purification, characterization and substrate specificity of indolyl-3-acetaldoxime dehydratase from the phytopathogenic fungus *Leptosphaeria maculans*”
- Participated in poster presentations at the **Canadian Phytopathological Society (CPS)** meeting in Saskatoon, Dec. 2010. The title of the poster presentation “Interaction of the fungal phytotoxin destruxin B with crucifer and non-crucifer plants”
- Participated in poster presentations at the **Graduate student's poster symposium for college of Arts and Science** at University of Saskatchewan, Dec. 2009. The title of the poster presentation “Interaction of the fungal phytotoxins destruxin B and sirodesmin PL with crucifer plants”

- Participated in poster presentations at the **Canadian Society for Chemistry (CSC) conference** in Edmonton, 2008. The title of the poster presentation “Interaction of the fungal phytotoxins destruxin B and sirodesmin PL with crucifer plants”

v. **Workshops**

- Attended the workshop organized by the Drug Research Center, Assiut University from 9 to 10 March 2019 : **Thin layer and High Performance Thin Layer Chromatography (TLC and HPTLC): Theory and applications**
- Attended the workshop organized by the Medicinal Chemistry Department, Faculty of Pharmacy, Assiut University, Assiut University under the title: **Computational Techniques in Drug Design and Discovery** During 2-4 February 2018
- Participated in the 17th workshop organized by the the Assiut University Mycological Centre (AUMC) under the title: **The biodiversity of fungi involved in the biological control of plant diseases and pests**. During 15-20 March 2014.

vi. **Awards**

- Received the best poster presentation award from the **27th International Society of Chemical Ecology (ISCE) Conference** in Vancouver, June 2011. The title of the poster presentation “Partial purification, characterization and substrate specificity of indolyl-3-acetaldoxime dehydratase from the phytopathogenic fungus *Leptosphaeria maculans*”.

- Received the best poster presentation award from **Canadian Phytopathological Society (CPS)** meeting in Saskatoon, Dec. 2010. The title of the poster presentation “Interaction of the fungal phytotoxin destruxin B with crucifer and non-crucifer plants”.

vii. Publications:

Bishy, D. W., Attia, A. A., Youssef, S. A., and **Khallaf, I. S. A.** 2001. Macro- and micromorphological study of the leaf, stem and root of *Juglans nigra* Linn. (Black walnut) cultivated in Egypt. Bull. Pharm. Sci., Assiut University, 24, 83 – 103. <https://dx.doi.org/10.21608/bfsa.2001.65903>

Bishy, D. W., Attia, A. A., Youssef, S. A., and **Khallaf, I. S. A.** 2002. Flavonoids glycosides and hypotensive effect of *Juglans nigra* Linn. Cultivated in Egypt. Bull. Pharm. Sci., Assiut University, 25, 15 - 21. <https://doi.org/10.21608/bfsa.2002.65505>

Daoud W. Bishy, Ahmed A. Attia, Samia A. Youssef, and **Iman S. Khallaf.** 2004. Phytochemical investigation of the volatile constituents of leaves of *Juglans nigra* L. Cultivated in Egypt. International Congress on Natural Products Research Conference, Phoenix, Arizona USA.

Pedras, M. S. C., **Khallaf, I.** 2012. Molecular interactions of the phytotoxins destruxin B and sirodesmin PL with crucifers and cereals: Metabolism and elicitation of plant defenses. Phytochemistry, 77, 129 - 39. Doi: <https://doi.org/10.1016/j.phytochem.2012.02.010>

Khallaf, I., Pedras, M. S. C., June 2011. Partial purification, characterization and substrate specificity of indolyl-3-acetaldoxime dehydratase from the phytopathogenic fungus *Leptosphaeria maculans* 27th International Society of Chemical Ecology (ISCE) Conference in Vancouver (Canada) (Poster presentation).

- Khallaf, I.**, Othman, R., Mahmoud, A., Attia, R., Tahawy, O., 2018. In vivo evaluation of orange peel oil and its major component hesperidin against enteral phase of *Rrichinella spiralis*. European Journal of Pharmaceutical and Medical Research, 2018, 5 (8), 58-65.
- Sayed, H. M., Ahmed, A. S., **Khallaf, I. S. A.**, Asem, A., 2018. Botanical Profiling of *Gmelina philippensis* Cham. Cultivated in Egypt. Bull. Pharm. Sci., 41, 45-54. doi: <https://doi.org/10.21608/bfsa.2018.62468>
- Mohamed, E. M., **Khallaf, I. S. A.**, Nassar, S. M. 2018 Antimicrobial activities of some yeast strains and GC/MS analysis of *Rhodotorula mucilaginosa* AUMC13565 bioactive metabolites. Assiut Univ. J. of Botany and Microbiology 47(2), 55-70
- Eman Mostafa Mohamed, Fatma Ali Farghaly and **Iman Sayed-Ahmed Khallaf**. 2018 Aroma and Antioxidant Metabolites in *Pleurotus Ostreatus* Mushroom Detected By GC/MS Analysis, and Antioxidant Bioactivity Confirmed by DPPH Free Radical Scavenging Assay. Clinical Biotechnology and Microbiology 2(5), 495-510.
- Usama Ramadan Abdelmohsen, Amgad Albohy, Basma S. Abdulrazik, Soad A. L. Bayoumi, Lourin G. Malak, **Iman S. A. Khallaf**, Gerhard Bringmann and Salwa F. Farag. 2021. Natural coumarins as potential anti-SARS-CoV-2 agents supported by docking analysis. RSC Advances. 11, 16970-16979. doi: 10.1039/d1ra01989a.
- Iman S.A. Khallaf**, Soad A.L. Bayoumi, Lourin G. Malak, Abeer M.R. Hussein, Anber F. Mohammed, Mohamed A. El-Mokhtar, Salwa F. Farag. 2021 The inhibition of inducible nitric oxide production in lipopolysaccharide-stimulated rat macrophages and *in silico* studies by flavonoids from *Iris spuria* L. rhizomes. Journal of Ethnopharmacology. 278 (5), 1-13. doi: <https://doi.org/10.1016/j.jep.2021.114311>
- Iman S. A. Khallaf**, Rania A. A. Hussein, Osama M. M. Ali, Gehad S. Remeih, Aya S. Mortada and Khaled M. Mohamed. 2022. Effect of UV-C stress on total phenolics, total

flavonoids and khellin on content of *Ammi visnaga* (L.) LAM fruits. Bull. Pharm. Sci., Assiut University, Vol. 45, Issue 1, pp. 89-97. doi: <https://doi.org/10.21608/bfsa.2022.239242>

Iman S. A. Khallaf, Rofida Wahman, Hanan S. M. Farghaly and Soad A. L. Bayoumi. 2022. The inhibitory effect of doum palm (*Hyphaene Thebaica* L. MART.) leaves extract on α -glucosidase activity. Bull. Pharm. Sci., Assiut University, Vol. 45, Issue 1, pp.163-176. doi: <https://doi.org/10.21608/bfsa.2022.239375>

Ahmed U.Ali, **Iman S.A.Khallaf**, Amira A.Kamel, Aya Y.Badran, Ahmed S.Gomaa, Tahani H.El faham, Yasmin Ismail Mortagi. 2022. Impact of quercetin spanlastics on livin and caspase-9 expression in the treatment of psoriasis vulgaris. Journal of drug delivery science and technology vol. 76, 103809. Doi: <https://doi.org/10.1016/j.jddst.2022.103809>

Hanaa. M. Sayed, Amany. S. Ahmed, **Iman. SA. Khallaf**, Wesam S. Qayed, Anber F. Mohammed, Hanan S. M. Farghaly, Ayman Asem. 2023. Phytochemical investigation, molecular docking studies and DFT calculations on the antidiabetic and cytotoxic activities of *Gmelina philippensis*. Journal of Ethnopharmacology. 303, 115938. Doi: <https://doi.org/10.1016/j.jep.2022.115938>