Curriculum Vitae

I-Information:

Personal Information:

Name: Enas Reda Abdelaleem Mazyon.

Current position: Lecturer of Pharmacognosy, Faculty of Pharmacy, Minia University,

Egypt.

Date of Birth: 12 May, 1991

Nationality: Egyptian

Address: Department of Pharmacognosy, Faculty of Pharmacy, Minia University, Egypt.

Marital Status: Married.

General specialization: Pharmacognosy.

Specific specialization: Chemistry of Natural Products.

Contact Information:

E-mail: <u>enas.rda@mu.edu.eg</u>

Telephone: Mobile: 002-01274939309

Work: 002-086-2369075

Fax: 002-086-2369075

II- Qualifications:

- 1- B.Sc. of Pharmaceutical Sciences, excellent with the degree of honour, Faculty of Pharmacy, Minia University, Egypt, May 2013.
- 2- M.Sc. of Pharmacognosy, Faculty of Pharmacy, Minia University, May 2018, entitled "Pharmacognostical study of *Cordia myxa* L. family Boraginaceae cultivated in Egypt".

3- Ph.D of Pharmacognosy, Faculty of Pharmacy, Minia University, July 2022, entitled "Bioactive metabolites from the marine sponge Spongia irregularis and its associated actinomycetes ".

III- Occupations:

1- Demonstrator in Pharmacognosy Department, Faculty of Pharmacy, Minia University, December 2013- May 2018.

2-Associate Lecturer in Pharmacognosy Department, Faculty of Pharmacy, Minia University, May 2018-July 2022.

3-Lecturer in Pharmacognosy Department, Faculty of Pharmacy, Minia University, July 2022 till now.

IV-Research Interests:

- Isolation of bioactive metabolites from different natural sources such as higher plants, endophytes, marine organisms or microorganisms.
- Isolation of plant and marine sponge associated microorganisms.
- Pharmacognostical and phytochemical studies of medicinal Plants.
- Natural product chemistry including:
- purification identification different \circ Isolation. and of natural compounds from their natural using different sources chromatographic techniques (HPLC, LC/MS and GC/MS) and stationary phases (Diaion Hp20, Silica gel, Sephadex LH -20 and RP -18).

V-Research Accomplished:

- (A) Master Thesis: " Pharmacognostical Study of *Cordia myxa* L. Family Boraginaceae, Cultivated in Egypt" including:
 - **1. Botanical study of** *Cordia myxa* (Macromorphology **and** Micromorphology of the leaf and stem)
 - 2. Phytochemical Study of Cordia myxa including:
 - Preliminary Phytochemical Screening of the Powdered Leaves of *Cordia myxa* L.
 - Extraction, fractionation and isolation of the constituents from leaves of *Cordia myxa* L.
 - Identification of 9 compounds from the plant leaves as: heptacosan-2-one, tricosanol. mixture of βsitosterol & stigmasterol, βsitosterol 3-0-(6'-0palmitoyl)ß glucopyranoside, rosmarinic acid methyl ester, β -sitosterol 3-O- β -D-glucopyranoside, 3,5-dihydroxyfuran-2(5H)-one, **(S)** allantoin and rosmarinic acid.
 - Investigation of the saponifiable matter (fatty acids) of cordia myxa l. Leaves.
 - Evaluation of the total phenolic & total flavonoidal contents and antioxidant activity of *Cordia myxa* L. Leaves.
- **3.** Biological studies of *Cordia myxa* (Determination of anti-inflammatory, antipyretic, analgesic, antimalarial, antioxidant and anti-diabetic activities.

- (B) Ph.D Thesis: "Bioactive metabolites from the marine sponge Spongia *irregularis* and its associated actinomycetes." Including:
 - 1. Chemical and biological investigations of the marine sponge *Spongia irregularis* including:
 - Preliminary phytochemical screening of the marine sponge, *Spongia irregularis*.
 - Extraction, fractionation and isolation of secondary metabolites of *Spongia irregularis*.
 - Identification of the isolated compounds from Spongia irregularis including identification of 2 new compounds as 1-tridecanoyl-2dodecanoyl-3-tetradecanoyl glycerol 4-(hydroxy and methyl)-1Hpyrazol-3-ol in addition to 17 known compounds as tetradecanyl tetradecanoate, palmitic acid, octadeca-9-enoic acid, two N-acyl-2-(aminomethyl)-2-propenoic acids, two N-acyl-2-(aminomethyl)-2propenoic acid methyl esters, 5, 8-epidioxy-5a, 8a-ergosta-6, 22Edien-3-ol, mixture of β - sitosterol & stigmasterol, strepsiamide A, mooloolabene C. β -sitosterol 3-*O*- β -D-glucopyranoside, 1.3.7trimethyl guanine, thymine, thymidine, 3,5-dihydroxy furan-2(5H)one and 1*H*-indazole.
 - Cytotoxic potential of *Spongia irregularis* supported by metabolomics analysis and molecular docking studies.
 - Anti-HCV potential of *Spongia irregularis* supported by molecular docking studies.
 - Anti-covid -19 molecular docking studies of the marine sponge *Spongia irregularis*.
 - 2. Chemical and biological investigations of the marine sponge *Spongia irregularis*-associated actinomycetes including:

- Metabolomics analysis of the marine sponge *Spongia irregularis*-associated actinomycetes.
- Multivariate data analysis of the marine sponge *Spongia irregularis*-associated actinomycetes.
- Evaluation of the cytotoxic activities of the marine sponge *Spongia irregularis*-associated actinomycetes.
- Evaluation of the anti-HCV activities of the marine sponge *Spongia irregularis*-associated actinomycetes.

VI-Publications :

- 1-AbdEl-Aleem, E. R., Seddik, F. E.-Z. F., Samy, M. N. & Desoukey, S. Y. (2017). Botanical studies of the leaf of cordia myxa l. *Journal of Pharmacognosy and Phytochemistry*, 6, 2086-2091.
- 2-Abdel-Aleem, E. R., Attia, E. Z., Farag, F. F., Samy, M. N. & Desoukey, S. Y. (2019). Total phenolic and flavonoid contents and antioxidant, anti-inflammatory, analgesic, antipyretic and antidiabetic activities of cordia myxa l. Leaves. *Clinical Phytoscience*, 5, 5-29.
- 3-Abdelaleem, E. R., Samy, M. N., Desoukey, S. Y., Liu, M., Quinn, R. J. & Abdelmohsen, U. R. (2020). Marine natural products from sponges (porifera) of the order dictyoceratida (2013 to 2019); a promising source for drug discovery. *RSC Advances*, **10**, 34959-34976.
- 4-Abdelaleem, E. R., Samy, M. N., Abdelmohsen, U. R. & Desoukey, S. Y. (2022a). Natural products potential of dictyoceratida sponges-associated micro-organisms. *Lett. Appl. Microbiol.*, 74, 8-16.
- 5-Abdelaleem, E. R., Samy, M. N., Ahmed, S. A., Aboulmagd, A. M., Alhadrami, A. H., Rateb, M. E., ... & Desoukey, S. Y. (2022). The Red Sea marine sponge *Spongia irregularis*: metabolomic profiling and

cytotoxic potential supported by *in silico* studies. Natural Product Research, 36(24), 6359-6363.

- 6-Abdelaleem, E. R., Samy, M. N., Ali, T. F. S., Mustafa, M., Ibrahim, M. A. A., Bringmann, G., Ahmed, S. A., Abdelmohsen, U. R. & Desoukey, S. Y. (2022c). Ns3 helicase inhibitory potential of the marine sponge spongia irregularis. *RSC Advances*, 12, 2992-3002.
- 7- Abdelaleem, E. R., Samy, M. N., Rateb, M. E., Hendawy, O. M., Abdelmohsen, U. R., & Yehia Desoukey, S. (2023). Metabolomic profiling and biological evaluations of *Spongia irregularis*-associated actinomycetes supported by multivariate statistical analysis. Journal of Applied Microbiology, 134(6), lxad120.
- 8- Abdelaleem, E. R., Abdelwahab, M. F., Abdel-Wahab, N. M., Abu-Baih, D. H., Zaher, A. M. A., Altemani, F. H., ... & Gomaa, A. A. R. (2024). Apple extract protects against indomethacin-induced gastric ulcers in rats by suppressing oxidative stress–The implication of Nrf-2/HO-1 signaling pathway: *In silico* and *in vivo* studies. Journal of Functional Foods, 112, 105926
- 9- Abu-Baih, D. H., Gomaa, A. A. R., Abdel-Wahab, N. M., Abdelaleem, E. R., Zaher, A. M. A., Hassan, N. F., ... & Abdelwahab, M. F. (2024). Apium extract alleviates indomethacin-induced gastric ulcers in rats via modulating the VEGF and IK-κB/NF-κB p65 signaling pathway: insights from *in silico* and *in vivo* investigations. BMC Complementary Medicine and Therapies, 24(1), 88.
- 10- Gomaa, A.A.-R., et al., Apium graveolens-associated Aspergillus sp.: metabolomic profiling and anti-MRSA potential supported by in silico studies. Microbial Cell Factories, 2025. 24(1): p. 57.