

CURRICULUM VITAE

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H-Index (Scopus) 30 (121 papers on Scopus)

H- Index (Google scholar) 34

Birth date: 16.06.1981

Academic Background

- **B.Sc. in Pharmaceutical Sciences, May 2004.** *Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.*
- **M.Sc. in Pharmaceutical Sciences (Pharmacognosy), June 2010.** *Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.*
- **Ph.D in Pharmaceutical Sciences (Pharmacognosy), April 2014.** *Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.*
- **Associate Prof. in Pharmaceutical Sciences (Pharmacognosy), April 2019.** *Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt*
- **Prof. in Pharmaceutical Sciences (Pharmacognosy), July 2024.** *Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt*

Professional Experience

- (October 2024 to Present), **Full Professor**, Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
- (June 2019 to 2024), **Associate Prof.**, Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

- **(May 2018 till October 2018), *PostDoc*, Institute of Pharmaceutical Biology and Biotechnology, Heinrich-Heine-University Duesseldorf, Germany.**
- **(June 2014 till June 2019), *Lecturer*, Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.**
- **(October 2010 till April 2014), *Assistant Lecturer*, Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University.**
- **(May 2005 till October 2010), *Teaching assistant*, Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University.**
- **A visiting lecturer** in Faculty of Pharmacy, Ahram Canadian University (2014-2015)
- **A visiting lecturer** in Faculty of Pharmacy, Egyptian Russian University (2015-2016, 2016-2017)
- **A visiting lecturer** in Faculty of Pharmacy, Future University in Egypt (2018-2019).
- **Head of strategic academic standard** in the quality assurance unit in Faculty of Pharmacy – Ain Shams University (From 2018-till now)
- **Participant in the preparation of Strategic plans 2012-2017; 2018-2023 for Faculty of Pharmacy-Ain Shams University**
- **Participant in the accreditation** of Faculty of Pharmacy-Ain Shams University by NAQAA in 2017 and 2023
- **Head of the fourth-year control** in Faculty of Pharmacy Ain Shams University in the academic years 2019-2020; 2020-2021
- **Pharmacognosy Department coordinator of the measurement and evaluation unit** in Faculty of Pharmacy Ain Shams University
- **Current research interests include** the isolation of bioactive natural products from various plant species as well as functional foods, essential oils extraction and its biological evaluation, quality control of herbal drugs, chemometric analysis, botanical and genetic investigation of medicinal plants. Molecular modelling and isolation of secondary metabolites from marine and its associated fungi has recently become my main interest.

Professional Skills

In the field of Pharmacognosy and Phytochemistry:

- **Experienced in analysis and chemistry 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 the chemistry of different secondary metabolites from natural origin using NMR.**
- **Experienced in biological and pharmacological screening of different plant extracts and isolated compounds especially antioxidants and hepatoprotective agents.**

- Experienced in the use of various microscopes, sample preparation, dyeing, photographing as well as interpretation of the botanical specimen.
- **Recent interests**
 - ✓ Quality control of herbal drugs using multivariate chemometric analysis techniques
 - ✓ Verification of the biological activity of herbal drugs and their isolated compounds using *in silico* molecular modeling strategy and network pharmacology studies.
 - ✓ Isolation and chemical identification of marine associated micro-organisms and isolation of secondary metabolites.
 - ✓ Functional foods and Nutraceuticals

Association Memberships

- **A member of external reviewers committee for the promotion of Professors and Associate professors in pharmaceutical sciences subfield Pharmacognosy in its 94th round (2025-2028).**
- Society for Medicinal Plant and Natural Product Research (GA).
- Egyptian Pharmaceutical Society.
- Academic editor in the journal of Evidence- based complementary and alternative medicine (Q2; IF = 2.6) indexed in scopus and Clarivate analytics.
- Lead Topic editor in a special issue lunched by Frontiers in Pharmacology (Q1; IF = 4.4) entitled **(Natural Product Based Drugs that Control Obesity and Other Disorders that Trigger and Provoke Inflammation)**
- Lead Topic editor in in a special issue lunched by Frontiers in Pharmacology (Q1; IF = 5.988) entitled **(Potential of natural products as drug leads possessing antioxidant and anti-aging properties)**
- Topic editor in in a special issue lunched by Molecules (Q2; IF = 4.412) entitled **(Extraction, Separation and Identification of Compounds from Natural Sources)**
- **Review editor in Frontiers in Pharmacology- Ethnopharmacology Section (Q1; IF = 4.4)**
- Lead Guest editor in a special issue lunched by **Part A Concepts in Magnetic Resonance** entitled **(Magnetic resonance in structural elucidation and profiling of natural metabolites)**; indexed in Scopus and Clarivate analytics
- **Academic reviewer for the following journals;**
 - Phytomedicine,
 - Pharmacy and Pharmacology
 - Journal of Advanced Research
 - BioNanoScience
 - Annals of Clinical Cytology and Pathology
 - BMC Complementary and Alternative Medicine
 - Asian Pacific Journal of Tropical Biomedicine
 - Chemical Engineering & Process Techniques

- Phytotherapy Research
- Food Research International
- Peer J
- South African Journal of Botany
- Current Pharmaceutical Biotechnology
- Journal of Complementary Medicine Research
- Natural Product Research
- Molecules
- Separations
- Foods
- International Journal of Molecular Sciences
- Frontiers in Microbiology
- Frontiers in Chemistry
- Frontiers in Pharmacology
- Chemistry and Biodiversity

Training Courses & Workshops

1. Training on operation of UPLC-mass by Waters, 2014.
2. Training on operation of NMR by Bruker, 2015.
3. Training on operation of Gas chromatograph by Shimadzu, 2015.
4. Attendance of the 17th Scientific Congress of the Associations of College of Pharmacy in the Arab World.
5. 3rd workshop in computer aided drug design organized by Pharmaceutical Chemistry Department, Faculty of Pharmacy, Ain Shams University.
6. Attendance of the 4th FUE international conference of Pharmaceutical Sciences.
7. Attendance of the Forum of the National Health Competencies in the Arab Region and its Role in supporting health sector development.
8. Supervising one of the Graduation projects of the Drug Design Program (DDP) in the faculty (May 2017).
9. Supervising one of the Graduation projects of the Drug Design Program (DDP) in the faculty (March 2020).
10. Attendance of the 21st Scientific Congress of the Associations of College of Pharmacy in the Arab World.
11. Training on operation of UPLC-mass by Shimadzu, 2018.
12. Moodle training Workshop, October 2020
13. Basic Level of Assessment for Staff in Health Sector, November 2020
14. Qorrect training Workshop, May 2021
15. Applications of Artificial Intelligence and Molecular Dynamics in Drug Discovery, July 2023
16. Utilizing Network Pharmacology to Drive Advances in Drug Discovery, May 2025

Honors and Awards

- **Post Doctor mission** at Institute of Pharmaceutical Biology and Biotechnology at the Heinrich Heine University, Düsseldorf, Germany awarded by the Administration of Missions and Cultural Affairs (2018)
- **National Encouragement Award** awarded by the Egyptian Government (2019)
- **Ain Shams University award for international publication (2013-2024)**
- **Prof. Mohamed Bahaa El-Din Fayez prize in basic sciences** (Chemistry of Natural and Medicinal products (**State awards for individuals**)) (2021)
- Listed among the world's top **2% of most important scientists issued by Stanford University for four successive years (2022, 2023, 2024 and 2025).**
- **Postdoctoral Fellowship** at Institute of Pharmaceutical Biology and Biotechnology at the Heinrich Heine University, Düsseldorf, Germany awarded by Erasmus Plus (2025)

Projects

1. Member in a project funded by the STDF NCP 25927 termed **“Drug discovery of new anti-infective and anticancer agents from marine organisms and their associated micro-organisms”** started on June 2018.
2. Member in an applicable project funded by the Ain Shams University termed **“Drug discovery of herbal antidiabetic agents as a mean of social health development”** from 2017- 2018.
3. Member in a project funded by the STDF 43274 termed **“Starfish coelomic fluids: A novel promising trigger of wound healing of the skin in both diabetic and burned BALB/c mice models’ concomitant with hydrogel and supervised their wound closures using mask R-CNN software”** started on August 2021.
4. International Consultant in a project funded by King Abdulaziz University, Saudi Arabia (RG-27-166-43) entitled **“Natural products and their synthetic analogues in disease therapy”** started on March 2022.
5. PI in an applicable project funded by the Ain Shams University termed **“Natural product-based drugs in the alleviation of metabolic disorders as Means of Social Health Development”** from 2022- 2023.
6. PI in a project funded by the ASRT (RESPECT) termed **“Natural Product-Based Nanomedicine in the Alleviation of Neurocognitive Impairment Induced by Chemotherapy”** started on September 2022.
7. CO-PI in a project funded by the STDF and the British council termed **“From waste to wellness: Valorizing food by-products to generate health promoting plant extracts targeting gut metabolism”** started on April 2025.

Publications

1. Abdel Nasser Singab, Nahla A. Ayoub, Eman N. Ali and Fadia S. Youssef. **Hepatoprotective activity of different extracts of *Brassica oleracea capitata rubra* leaves (red cabbage) against CCl₄ induced hepatotoxicity in rats.** *Bull Fac Pharm Cairo Univ* 2009; 47: 195-207.
2. Abdel Nasser Singab, Fadia S. Youssef, Mohamed L. Ashour and Michael Wink. **The genus *Eremophila*: A review of ethnobotanical, biological, and phytochemical properties.** *J Pharm Pharmacol* 2013; 65: 1239-79.
3. Rola M. Labib, Fadia S. Youssef, Mohamed L. Ashour, and Abdel Nasser Singab. **Botanical and genetic characteristics of *Eremophila maculata* and *Eremophila purpurascens* Chinnock (Scrophulariaceae)** *World J Pharm Res* 2013; 2: 2711-2736.
4. Fadia S. Youssef, Razan Hamoud, Mohamed L. Ashour, Abdel Nasser Singab and Michael Wink. **Volatile oils from aerial parts of *Eremophila maculata* and their antimicrobial activity** *Chem Biodiver* 2014 11:831-841.
5. Abdel Nasser Singab, Fadia S. Youssef and Mohamed L. Ashour. **Medicinal plants with potential antidiabetic activity and their assessment.** *Med Aromat Plants* 2014; 3: 151.
6. Iriny M. Ayoub, Fadia S. Youssef, Mohamed El-Shazly, Mohamed L. Ashour, Abdel Nasser Singab and Michael Wink. **Volatile constituents of *Dietes bicolor* (Iridaceae) and their antimicrobial activity.** *Z Naturforsch C* 2015; 70: 217-225.
7. Fadia S. Youssef, Mohamed L. Ashour, Hesham A. El-Beshbishy and Abdel Nasser Singab. **Antidiabetic activity of *Eremophila maculata* leaves methanol extract and its major secondary metabolites.** *Planta Med* 2015; 81 - PW_70 (Congress Abstract).
8. Mansour Sobeh, Markus Santhosh Braun, Sonja Krstin, Fadia S. Youssef, Mohamed L. Ashour and Michael Wink. **Chemical profiling of the essential oils of *Syzygium aqueum*, *Syzygium samarangense* and *Eugenia uniflora* and their Discrimination using chemometric analysis.** *Chem Biodiver* 2016, 13, 1537-1550.
9. Rola M. Labib, Sherif S. Ebada, Fadia S. Youssef, Mohamed L. Ashour and Samir A. Ross. **Ursolic acid, a natural pentacyclic triterpene from *Ochrosia elliptica* and its role in the management of certain neglected tropical diseases.** *Pharmacogn Mag.* 2016, 12, 319.

10. Mansour Sobeh, Nilufar Z. Mamadalieva, Tamer Mahmoud, Sonja Krstin, Fadia S. Youssef, Mohamed L. Ashour, Shahnoz S. Azimova, Michael Wink. **Chemical profiling of *Phlomis thapsoides* (Lamiaceae) and *in vitro* testing of its biological activities** *Med Chem Res.* 2016, 25, 2304-2315.
11. Nawal Al-Musayeib, Sherif S. Ebada, Haidy A. Gad, Fadia S Youssef, Mohamed L. Ashour. **Chemical profiling of the polyphenolics and furanocoumarins contents of three *Ficus* species, their role in combating oxidative stress and discrimination using chemometric analysis** *Pharmacog Mag.* 2017, 13, S613.
12. Fadia S. Youssef, Mohamed L. Ashour, Mansour Sobeh, Hesham A. El-Beshbishy, Abdel Nasser Singab and Michael Wink. ***Eremophila maculata*- Isolation of a rare naturally-occurring lignan glycoside and the hepatoprotective activity of the leaf extract** *Phytomedicine* 2016, 23, 1484-1493.
13. Mohamed L. Ashour, Fadia S. Youssef, Haidy A. Gad, Michael Wink. **Inhibition of cytochrome P450 (CYP3A4) activity by extracts from 57 plants used in traditional chinese medicine (TCM)**, *Pharmacog Mag.* 2017, 13, 300.
14. Fadia S. Youssef, Mohamed L. Ashour, Sherif S. Ebada, Mansour Sobeh, Hesham A. El-Beshbishy, Abdel Nasser Singab and Michael Wink. **Antihyperglycaemic activity of the methanol extract from leaves of *Eremophila maculata* (Scrophulariaceae) in streptozotocin-induced diabetic rats.** *J. Pharm. Pharmacol.* 2017, 69, 733-742.
15. SA Fathy, MA Emam, ASH Abo, ZFA Abu, FS Youssef, RM Sami. ***The antiproliferative effect of Origanum majorana on human hepatocarcinoma cell line: suppression of NF-κB.*** *Cellular and molecular biology* (Noisy-le-Grand, France), 2016, 62, 80.
16. Rola M. Labib, Fadia S. Youssef, Mohamed L. Ashour, Jennifer Búfalo, Samir A. Ross. **Chemical composition and bioactivity of the essential oil of *Pinus roxburghii* bark.** *Planta Med* 2016; 81 – S01_P433 (Congress Abstract).
17. Rola M. Labib, Fadia S. Youssef, Mohamed L. Ashour, Mohamed M. Abdel-Daim³ and Samir A. Ross. **Chemical composition of *Pinus roxburghii* bark essential oil and validation of its anti-inflammatory activity using molecular modelling and bleomycin-induced inflammation in albino mice.** *Molecules* 2017, 22, doi:10.3390/molecules22091384.
18. Nilufar Z. Mamadalieva, Fadia S. Youssef, Mohamed L. Ashour, Sobir A. Sasmakov and Shahnoz S. Azimova. **Chemical composition and biological activities of the essential oils from the aerial parts of three Uzbek Lamiaceae species** *Nat. Prod. Res.* 2018, DOI: 10.1080/14786419.2018.1443088.

19. Fadia S. Youssef, Rola M. Labib, Omayma A. El-dahshan, Abdel Nasser B. Singab. **Synergistic hepatoprotective and antioxidant effect of artichoke, fig, mulberry and their herbal mixture on HepG2 cells and their metabolic profiling using NMR coupled with chemometrics.** *Chem & Biodivers.* 2017, 14, <https://doi.org/10.1002/cbdv.201700206>.
20. Amany A Thabet, Fadia S Youssef, Mohamed El-Shazly and Abdel Nasser B Singab. **Anti-infective properties of *Brachychiton rupestris* and *Brachychiton luridum* leaves and their qualitative phytochemical screening.** *Med Aromat Plants* 2017; 6: DOI: 10.4172/2167-0412.1000299.
21. Mohamed L. Ashour, Fadia S. Youssef, Haidy A. Gad, Mahmoud Z. El-Readi, Rabah Taha, Amel Bouzabata, Riham M. Abuzeid, Mansour Sobeh, and Michael Wink. **Evidence for anti-inflammatory activity of *Bupleurum marginatum* (Apiaceae) extracts from *in vitro*, *in vivo* experiments and virtual screening.** *J. Pharm. Pharmacol.* 2018, 70, 952-963.
22. Rola M Labib, Radhakrishnan Srivedavyasasri, Fadia S Youssef, Samir A Ross **Secondary metabolites isolated from *Pinus roxburghii* and interpretation of their cannabinoid and opioid binding properties by virtual screening and *in vitro* studies.** *Saudi Pharm. J.* 26, 437-444.
23. Mansour Sobeh, Fadia S Youssef, Ahmed Esmat, Ganna Petruk, Ahmed H El-Khatib, Daria Maria Monti, Mohamed L Ashour, Michael Wink. **High resolution UPLC-MS/MS profiling of polyphenolics in the methanol extract of *Syzygium samarangense* leaves and its hepatoprotective activity in rats with CCl₄-induced hepatic damage.** *Food Chem Toxicol.* 2018, 113, 145-153.
24. Amany A Thabet, Fadia S Youssef, Mohamed El-Shazly, Abdel Nasser B Singab. ***Sterculia* and *Brachychiton*: a comprehensive overview on their ethnopharmacology, biological activities, phytochemistry and the role of their gummy exudates in drug delivery.** *J. Pharm. Pharmacol.* 2018, 70, 450-474.
25. Amany A Thabet, Fadia S Youssef, Mohamed El-Shazly, Hesham A El-Beshbishy, Abdel Nasser B Singab. **Validation of the antihyperglycaemic and hepatoprotective activity of the flavonoid rich fraction of *Brachychiton rupestris* using *in vivo* experimental models and molecular modelling.** *Food Chem Toxicol.* 2018, 114, 302-310.
26. Abdulaziz A Janibekov, Fadia S Youssef, Mohamed L Ashour, Nilufar Z Mamadaliyeva. **New flavonoid glycosides from two *Astragalus* species (Fabaceae) and validation of their antihyperglycaemic activity using molecular modelling and *in vitro* studies.** *Ind Crops Prod.* 2018, 118, 142-148.

27. Fadia S Youssef, Mohamed L Ashour, Micheal Wink. **Morphological, anatomical, genetical and high performance thin layer chromatography profiling of *Buddleia indica* (Scrophulariaceae).** *Flora* 2018. 246, 83-95.
28. Aya N Talaat, Sherif S Ebada, Rola M Labib, Ahmed Esmat, Fadia S Youssef, Abdel Nasser B Singab. **Verification of the anti-inflammatory activity of the polyphenolic-rich fraction of *Araucaria bidwillii* Hook using phytohaemagglutinin-stimulated human peripheral blood mononuclear cells and virtual screening.** *J Ethnopharmacol.* 2018, 226, 44-47.
29. Fadia S. Youssef, Mohamed L. Ashour and Sherweit H. El-Ahmady. **Insights into the Ethnopharmacological Uses of Certain Medicinally Important Genera Belonging to Family Scrophulariaceae.** *Curr. Trad. Med.* (accepted) 2018.
30. Amany A. Thabet, Fadia S. Youssef, Mohamed El-Shazly and Abdel Nasser B. Singab. **GC/MS and GC/FID analyses of the volatile constituents of *Brachychiton rupestris* and *Brachychiton luridum*, their biological activities and their differentiation using multivariate data analysis.** *Nat. Prod. Res.*, 1-5
31. Nilufar Z. Mamadalieva, Fadia S. Youssef, Mohamed L. Ashour, Sobir A. Sasmakov and Shahnoz S. Azimova. **Essential oils compositions of certain *Phlomis* species and their discrimination using GC/FID and GC/MS spectral data coupled with multivariate data analysis.** *Natural Product Research*, 2018; 33, 1-4.
32. Mariam I. Gamal El-Din, Fadia S. Youssef , Mohamed L. Ashour , Omayma A. Eldahshan, Abdel Nasser B. Singab. **Comparative analysis of volatile constituents of *Pachira aquatica* and *Pachira glabra*, their anti-mycobacterial and anti- *Helicobacter pylori* activities and their metabolic discrimination using Chemometrics.** *J. Ess. Oil Res.*, 2018, 26, doi.org/10.1080/0972060X.2019.1571950
33. Amany A. Thabet, Fadia S. Youssef, Michal Korinek, Fang-Rong Chang, Yang-Chang Wu, Bing-Hung Chen, Mohamed El-Shazly and Abdel Nasser B. Singab and Tsong-Long Hwang. **Study of the anti-allergic and anti-inflammatory activity of *Brachychiton rupestris* and *Brachychiton discolor* leaves (Malvaceae) using *in vitro* models.** *BMC Complement. Altern. Med.*, 2018, 18, 299.
34. Maram M Aboulwafa, Fadia S Youssef, Haidy A Gad, Satyajit D Sarker, Lutfun Nahar, Mohamed M Al-Azizi, Mohamed L Ashour. **Authentication and discrimination of green tea Samples using UV-Visible, FTIR and HPLC techniques coupled with chemometrics analysis.** *J. Pharm. Biomed. Anal.*, 2018, 164, 653-658.

35. Nilufar Z Mamadalieva, Fadia S Youssef, Mohamed L Ashour, Davlat Kh Akramov, Sobirdjan A Sasmakov, Nurmurod Sh Ramazonov, Shahnoz S Azimova. **A comparative study on chemical composition and antimicrobial activity of essential oils from three *Phlomis* species from Uzbekistan**, *Nat. Prod. Res*, 1-6, 2019.
36. Ridha El Mokni, Fadia S Youssef, Hbib Jmii, Abdelbeki Khmiri, Sihem Bouazzi, Ibrahim Jlassi, Hela Jaidane, Hatem Dhaouadi, Mohamed L Ashour, Saoussen Hammami. **The Essential Oil of Tunisian *Dysphania ambrosioides* and its Antimicrobial and Antiviral Properties**, *J. Ess. Oil Res.*, 2019, 45-57.
37. Somaia Al-Madhagy, Nada Mostafa, Fadia S. Youssef, Omayma Eldahshan, Abdel Nasser Singab. **Isolation and structure elucidation of compounds from *Coccinia grandis* leaves extract**, *Egyptian J. Chem.*, 2019, 62, 1869-1877.
38. Sherif S Ebada, Nariman A Al-Jawabri, Fadia S Youssef, Amgad Albohy, M Aldalaïen Sa'ed, Ahmad M Disi, Peter Proksch. ***In vivo* antiulcer activity, phytochemical exploration, and molecular modelling of the polyphenolic-rich fraction of *Crepis sancta* extract**, *Inflammopharmacology*, 1-11, 2019.
39. Somaia A. Al-Madhagy , Nada M. Mostafa , Fadia S. Youssef , Ghada E. A. Awad , Omayma A. Eldahshan, Abdel Nasser B. Singab. **Metabolic profiling of a polyphenolic-rich fraction of *Coccinia grandis* leaves using LC-ESI-MS/MS and *in-vivo* validation of its antimicrobial and wound healing activities**, *Food and Function*, 10, 6267-6275, 2019.
40. Fadia S. Youssef , Mohamed L. Ashour , Hesham A. El-Beshbishy, Abdel Nasser B. Singab, and Michael Wink, **Metabolic profiling of *Buddleia indica* leaves using LC/MS and evidence of their antioxidant and hepatoprotective activity using different *in vitro* and *in vivo* experimental models**. *Antioxidants*, 8, 412; <https://doi.org/10.3390/antiox8090412>.
41. Maram M Aboulwafa, Fadia S Youssef, Haidy A Gad, Ahmed E Altyar, Mohamed M Al-Azizi, Mohamed L Ashour, **A Comprehensive insight on the health benefits and phytoconstituents of *Camellia sinensis* and recent approaches for its quality control**, *Antioxidants*, 8, 455; <https://doi.org/10.3390/antiox8100455>
42. Fadia S Youssef, Mohamed L Ashour, Abdel Nasser B Singab, Michael Wink, **A Comprehensive review of bioactive peptides from Marine fungi and their biological significance**, *Marine drugs* 17, 559; <https://doi.org/10.3390/md17100559>
43. Mariam I. Gamal El-Din, Fadia S. Youssef, Mohamed L. Ashour, Omayma A. Eldahshan, Abdel Nasser B. Singab. **New γ -pyrone glycoside from *Pachira***

***glabra* and assessment of its gastro-protective activity using alcohol- induced gastric ulcer in rat model**, Food and Function, DOI: 10.1039/c9fo02800e

44. Dina H El-Kashef, Fadia S Youssef, Rudolf Hartmann, Tim-Oliver Knedel, Christoph Janiak, Wenhan Lin, Irene Reimche, Nicole Teusch, Zhen Liu, Peter Proksch. **Azaphilones from the Red Sea Fungus *Aspergillus falconensis***, Marine drugs; 2020; doi:10.3390/md18040204
45. Ahmed E Altyar, Mohamed L Ashour, Fadia S Youssef, ***Premna odorata*: Seasonal Metabolic Variation in the Essential Oil Composition of Its Leaf and Verification of Its Anti-Ageing Potential via In Vitro Assays and Molecular Modelling**; Biomolecules; 2020; doi.org/10.3390/biom10060879
46. Fadia S Youssef, Esther T Menze, Mohamed L Ashour; **A Potent Lignan from Prunes Alleviates Inflammation and Oxidative Stress in Lithium/Pilocarpine-Induced Epileptic Seizures in Rats**; Antioxidants; 2020; doi.org/10.3390/antiox9070575
47. Fadia S Youssef, Munira A Mamatkhanova, Nilufar Z Mamadalieva, Gokhan Zengin, Salima F Aripova, Elham Alshammari, Mohamed L Ashour; **Chemical Profiling and Discrimination of Essential Oils from Six *Ferula* Species Using GC Analyses Coupled with Chemometrics and Evaluation of Their Antioxidant and Enzyme Inhibitory Potential**; Antibiotics; 2020; doi.org/10.3390/antibiotics9080518.
48. Fadia S Youssef, Mohamed L Ashour, Hesham A El-Beshbishy, Alaaeldin Ahmed Hamza, Abdel Nasser B Singab, Michael Wink; **Pinoresinol-4-O- β -D-glucopyranoside: a lignan from prunes (*Prunus domestica*) attenuates oxidative stress, hyperglycaemia and hepatic toxicity in vitro and in vivo**; Journal of Pharmacy and Pharmacology; 2020; doi.org/10.1111/jphp.13358
49. Imane Chelalba, Naima Benchikha, Samir Begaa, Mohammed Messaoudi, Hanane Debbeche, Abdelkrim Rebiai, Fadia S Youssef; **Phytochemical composition and biological activity of *Neurada procumbens* L. growing in southern Algeria**; Journal of Food Processing and Preservation; 2020; doi.org/10.1111/jfpp.14774
50. Mariam I Gamal El-Din, Fadia S Youssef, Riham S Said, Mohamed L Ashour, Omayma A Eldahshan, Abdel Nasser B Singab; **Chemical constituents and gastro-protective potential of *Pachira glabra* leaves against ethanol-induced gastric ulcer in experimental rat model**; Inflammopharmacology; 2020; doi.org/10.1007/s10787-020-00749-9)
51. Rola M Labib, Lourin G Malak, Fadia S Youssef, Samir A Ross; **A new stilbene from *Agonis flexuosa* leaves and verification of its histamine release inhibitory**

activity using *in silico* and *in vitro* studies; South African Journal of Botany; 2020; doi:10.1016/j.sajb.2020.09.021

52. Fadia S Youssef, Safaa Y Eid, Elham Alshammari, Mohamed L Ashour, Michael Wink, Mahmoud Z El-Readi; ***Chrysanthemum indicum* and *Chrysanthemum morifolium*: Chemical Composition of Their Essential Oils and Their Potential Use as Natural Preservatives with Antimicrobial and Antioxidant Activities**; Foods, 2020, doi.org/10.3390/foods9101460
53. Sherif S Ebada, Nariman A Al-Jawabri, Fadia S Youssef, Dina H El-Kashef, Tim-Oliver Knedel, Amgad Albohy, Michal Korinek, Tsong-Long Hwang, Bing-Hung Chen, Guan-Hua Lin, Chia-Yi Lin, M Aldalaien Sa'ed, Ahmad M Disi, Christoph Janiak, Peter Proksch; **Anti-inflammatory, antiallergic and COVID-19 protease inhibitory activities of phytochemicals from the Jordanian hawksbeard: identification, structure–activity relationships, molecular modeling and impact on its folk medicinal uses**; RSC Advances; 2020; 10: 38128–38141
54. Dina H El-Kashef, Fadia S Youssef, Irene Reimche, Nicole Teusch, Werner EG Müller, Wenhan Lin, Marian Frank, Zhen Liu, Peter Proksch: **Polyketides from the marine-derived fungus *Aspergillus falconensis*: *In silico* and *in vitro* cytotoxicity studies**; Bioorganic & Medicinal Chemistry; 2020, doi: 10.1016/j.bmc.2020.115883
55. Iriny M Ayoub, Michal Korinek, Mohamed El-Shazly, Bernhard Wetterauer, Hesham A El-Beshbishy, Tsong-Long Hwang, Bing-Hung Chen, Fang-Rong Chang, Michael Wink, Abdel Nasser B Singab, Fadia S Youssef. **Anti-Allergic, Anti-Inflammatory and Anti-Hyperglycemic Activity of *Chasmanthe aethiopica* Leaf Extract and Its Profiling Using LC/MS and GLC/MS**; Plants (2021); doi.org/10.3390/plants10061118
56. Fadia S Youssef, Jesus Simal-Gandara. **Comprehensive Overview on the Chemistry and Biological Activities of Selected Alkaloid Producing Marine-Derived Fungi as a Valuable Reservoir of Drug Entities**; Biomedicine (2021); https://doi.org/10.3390/biomedicines 9050485
57. Fadia S Youssef, Rola M Labib, Amany A Sleem, Khaled M Meselhy; **Discrimination of *Vitis vinifera* varieties using DNA fingerprinting and NMR coupled with chemometrics and their impact on the efficacy of fluoxetine and indomethacin *in vivo***; Journal of Food Processing and Preservation (2021); doi.org/10.1111/jfpp.15500
58. Nilufar Z Mamadaliyeva, Fadia S Youssef, Mohamed L Ashour, Davlat Kh Akramov, Sobirdjan A Sasmakov, Nurmurod Sh Ramazonov, Shahnoz S Azimova; **A comparative study on chemical composition and antimicrobial activity of**

essential oils from three *Phlomis* species from Uzbekistan; Natural product research; (2021); 4: 696- 701.

59. Fadia S Youssef, Abdel Nasser B Singab; **An Updated Review on the Secondary Metabolites and Biological Activities of *Aspergillus ruber* and *Aspergillus flavus* and Exploring the Cytotoxic Potential of Their Isolated Compounds Using Virtual Screening**; Evidence-Based Complementary and Alternative Medicine ; (2021); doi.org/10.1155/2021/8860784
60. Fadia S Youssef, Rola M Labib, Haidy A Gad, SafaaY Eid, Mohamed L Ashour, Hanaa H Eid; ***Pimenta dioica* and *Pimenta racemosa*: GC-based metabolomics for the assessment of seasonal and organ variation in their volatile components, *in silico* and *in vitro* cytotoxic activity estimation**; Food and Function (2021); **12**, 5247-5259
61. Fadia S Youssef, Ahmed E Altyar, Abdelsattar M Omar, Mohamed L Ashour; **Phytoconstituents, *in Vitro* Anti-infective Activity of *Buddleja indica* Lam. and *in-silico* Evaluation of its SARS-CoV-2 Inhibitory Potential**; Frontiers in Pharmacology: (2021); doi.org/10.3389/fphar.2021.619373
62. Fadia S Youssef, Elham Alshammari, Mohamed L Ashour; **Bioactive alkaloids from genus *Aspergillus*: mechanistic interpretation of their antimicrobial and potential SARS-CoV-2 inhibitory activity using molecular modelling**; International Journal of Molecular Sciences (2021); doi.org/10.3390/ijms22041866
63. Sameh S Elhady, Fadia S Youssef, Abdulrahman M Alahdal, Diena M Almasri, Mohamed L Ashour, **Anti-Hyperglycaemic Evaluation of *Buddleia indica* Leaves Using *In Vitro*, *In Vivo* and *In Silico* Studies and Its Correlation with the Major Phytoconstituents**; Plants (2021); doi.org/10.3390/plants10112351
64. Amany A Thabet, Iriny M Ayoub, Fadia S Youssef, Eman Al Sayed, Abdel Nasser B Singab, **Essential oils from the leaves and flowers of *Leucophyllum frutescens* (Scrophulariaceae): phytochemical analysis and inhibitory effects against elastase and collagenase *in vitro***; Natural Product Research (2021); 1-5
65. Fadia S Youssef, Elisa Ovidi, Nawal M Al Musayeib, Mohamed L Ashour; **Morphology, anatomy and secondary metabolites investigations of *Premna odorata* Blanco and evaluation of its anti-tuberculosis activity using *in vitro* and *in Silico* Studies**; Plants (2021); doi.org/10.3390/plants10091953
66. Ans Munir, Fadia S Youssef, Saiqa Ishtiaq, Sairah Hafeez Kamran, Alaa Sirwi, Safwat A Ahmed, Mohamed L Ashour, Sameh S Elhady; ***Malva parviflora* Leaves**

Mucilage: An Eco-Friendly and Sustainable Biopolymer with Antioxidant Properties; Polymers (2021); doi.org/10.3390/polym13234251

67. Shehla Akbar, Saiqa Ishtiaq, Muhammad Jahangir, Sameh S Elhady, Hanin A Bogari, Abdelrahman M Alahdal, Mohamed L Ashour, Fadia S Youssef; **Evaluation of The Antioxidant, Antimicrobial, and Anticancer Activities of *Dicliptera bupleuroides* Isolated Compounds Using *In Vitro* and *In Silico* Studies;** Molecules (2021); doi.org/10.3390/molecules26237196.
68. Nilufar Z Mamadalieva, Fadia S Youssef, Hidayat Hussain, Gokhan Zengin, Adriano Mollica, Nawal M Al Musayeib, Mohamed L Ashour, Bernhard Westermann, Ludger A Wessjohann; **Validation of the antioxidant and enzyme inhibitory potential of selected triterpenes using *in vitro* and *in silico* studies, and the evaluation of their ADMET properties;** Molecules (2021); doi.org/10.3390/molecules26216331
69. Fadia S Youssef, Mansour Sobeh, Malak Dmirieh, Hanin A Bogari, Abdulrahman E Koshak, Michael Wink, Mohamed L Ashour, Sameh S Elhady; **Metabolomics-Based Profiling of *Clerodendrum speciosum* (Lamiaceae) Leaves Using LC/ESI/MS-MS and In Vivo Evaluation of Its Antioxidant Activity Using *Caenorhabditis elegans* Model;** Antioxidants (2022); doi.org/10.3390/antiox11020330
70. Amel Bouzabata, Paola Montoro, Katarzyna Angelika Gil, Sonia Piacente, Fadia S Youssef, Nawal M Al Musayeib, Geoffrey A Cordell, Mohamed L Ashour, Carlo Ignazio Giovanni Tuberoso; **HR-LC-ESI-Orbitrap-MS-Based Metabolic Profiling Coupled with Chemometrics for the Discrimination of Different *Echinops spinosus* Organs and Evaluation of Their Antioxidant Activity;** Antioxidants (2022); doi.org/10.3390/antiox11030453
71. Ahmed E Altyar, Ans Munir, Saiqa Ishtiaq, Muhammad Rizwan, Khizar Abbas, Osama Kensara, Sameh S Elhady, Waleed Y Rizg, Fadia S Youssef, Mohamed L Ashour; ***Malva parviflora* Leaves and Fruits Mucilage as Natural Sources of Anti-Inflammatory, Antitussive and Gastro-Protective Agents: A Comparative Study Using Rat Models and Gas Chromatography;** Pharmaceuticals (2022); doi.org/10.3390/ph15040427
72. Amany A Thabet, Iriny M Ayoub, Fadia S Youssef, Eman Al Sayed, Thomas Efferth, Abdel Nasser B Singab; **Phytochemistry, structural diversity, biological activities and pharmacokinetics of iridoids isolated from various genera of the family Scrophulariaceae Juss.;** Phytomedicine Plus (2022); doi.org/10.1016/j.phyplu.2022.100287

73. Ahmed E Altyar, Fadia S Youssef, Maram M Kurdi, Renad J Bifari, Mohamed L Ashour; **The Role of *Cannabis sativa* L. as a Source of Cannabinoids against Coronavirus 2 (SARS-CoV-2): An *In Silico* Study to Evaluate Their Activities and ADMET Properties;** *Molecules* (2022); doi.org/10.3390/molecules27092797.
74. Mariam I Gamal El-Din, Fadia S Youssef, Ahmed E Altyar, Mohamed L Ashour; **GC/MS Analyses of the Essential Oils Obtained from Different *Jatropha* Species, Their Discrimination Using Chemometric Analysis and Assessment of Their Antibacterial and Anti-Biofilm Activities;** *Plants* (2022); /doi.org/10.3390/plants11091268
75. Sameh S Elhady, Numera Arshad, Saiqa Ishtiaq, Roula Bayram, Adnan Amin, Hanin A Bogari, Reda FA Abdelhameed, Fadia S Youssef, Mohamed L Ashour; **Phytochemical Characterization and Heavy Metal and Thermal Analyses of *Saussurea hypoleuca* Root and Evaluation of Its Anthelmintic and Antioxidant Activity *In Vitro* and *In Silico*;** *Separations* (2022); doi.org/10.3390/separations9060138.
76. Nilufar Z Mamadalieva, Hidayat Hussain, Adriano Mollica, Gokhan Zengin, Rano Z Mamadalieva, Sameh S Elhady, Sana A Fadil, Mohamed L Ashour, Fadia S Youssef; **Ecdysteroids as Potent Enzyme Inhibitors and Verification of Their Activity Using *in Vitro* and *in Silico* Docking Studies;** *Life* (2022); doi.org/10.3390/life12060824
77. Muhammad Furqan, Alishba Fayyaz, Farhat Firdous, Hadeeqa Raza, Aishah Bilal, Rahman Shah Zaib Saleem, Syed Shahzad-ul-Hussan, Daijie Wang, Fadia S Youssef, Nawal M Al Musayeib, Mohamed L Ashour, Hidayat Hussain, Amir Faisal; **Identification and Characterization of Natural and Semisynthetic Quinones as Aurora Kinase Inhibitors;** *Journal of Natural Products* (2022); 85, 6, 1503–1513
78. Naima Benchikha, Imane Chelalba, Hanane Debbeche, Mohammed Messaoudi, Samir Begaa, Imane Larkem, Djilani Ghamem Amara, Abdelkrim Rebiai, Jesus Simal-Gandara, Barbara Sawicka, Maria Atanassova, Fadia S Youssef; ***Lobularia libyca*: Phytochemical Profiling, Antioxidant and Antimicrobial Activity Using *In Vitro* and *In Silico* Studies;** *Molecules* (2022); doi.org/10.3390/molecules27123744
79. Eslam B Elkaeed, Fadia S Youssef, Ibrahim H Eissa, Hazem Elkady, Aisha A Alsouk, Mohamed L Ashour, Mahmoud A El Hassab, Sahar M Abou-Seri, Ahmed M Metwaly; **Multi-step *in silico* discovery of natural drugs against COVID-19 targeting main protease;** *International Journal of Molecular Sciences* (2022); doi.org/10.3390/ijms23136912

80. Enaam M AbouZeid, Ahmed H Afifi, Abeer Salama, Rehab A Hussein, Fadia S Youssef, Sherweit H El-Ahmady, Nagwa Mohamed Ammar; **Comprehensive metabolite profiling of *Phoenix rupicola* pulp and seeds using UPLC-ESI-MS/MS and evaluation of their estrogenic activity in ovariectomized rat model**; Food Research International (2022); doi.org/10.1016/j.foodres.2022.111308
81. Abirami Raja, Govind Pratap Singh, Sana A Fadil, Sameh S Elhady, Fadia S Youssef, Mohamed L Ashour; **Prophylactic Anti-Osteoporotic Effect of *Matricaria chamomilla* L. Flower Using Steroid-Induced Osteoporosis in Rat Model and Molecular Modelling Approaches**; Antioxidants (2022); doi.org/10.3390/antiox11071316
82. Sherouk Hussein Sweilam, Mohammed H Alqarni, Fadia S Youssef; **Antimicrobial Alkaloids from Marine-Derived Fungi as Drug Leads versus COVID-19 Infection: A Computational Approach to Explore their Anti-COVID-19 Activity and ADMET Properties**; Evidence-Based Complementary and Alternative Medicine (2022); doi.org/10.1155/2022/5403757
83. Enaam AbouZeid, Rehab Hussein, Ahmed Afifi, Abeer Salama, Fadia Youssef, Sherweit El-Ahmady, Nagwa Ammar; **Phytochemical Profile of *Phoenix rupicola* T. Anderson Seeds and In Vitro Evaluation of their Estrogenic Activity using MCF-7 Cell Lines**; Egyptian Journal of Chemistry (2022); 65, 1457-1464
84. Syeda Farheen Fatima, Saiqa Ishtiaq, Manar O Lashkar, Fadia S Youssef, Mohamed L Ashour, Sameh S Elhady; **Metabolic Profiling of *Heliotropium crispum* Aerial Parts Using HPLC and FTIR and In Vivo Evaluation of Its Anti-Ulcer Activity Using an Ethanol Induced Acute Gastric Ulcer Model**; Metabolites (2022); doi.org/10.3390/metabo12080750.
85. Numera Arshad, Saiqa Ishtiaq, Sairah Hafeez Kamran, Muhammad Sajid-ur Rehman, Shehla Akbar, Saira Rehman, Sarah Rehman, Rawan H Hareeri, Sana A Fadil, Fadia S Youssef, Sameh S Elhady; **Evaluation of the Antihyperglycemic and Antihyperlipidemic Activity of *Saussurea hypoleuca* Root in Alloxan-Induced Diabetes in Rat Model and Correlation to Its Major Secondary Metabolites**; Life (2022); doi.org/10.3390/life12091451
86. Nada Fareed, Dina M El-Kersh, Fadia S Youssef, Rola M Labib; **Unveiling major ethnopharmacological aspects of genus *Diospyros* in context to its chemical diversity: A comprehensive overview**; Journal of Food Biochemistry (2022); https://doi.org/10.1111/jfbc.14413

87. Naima Benchikha, Mohammed Messaoudi, Imane Larkem, Hamza Ouakouak, Abdelkrim Rebiai, Siham Boubekour, Mohamed Amine Ferhat, Adel Benarfa, Samir Begaa, Mokhtar Benmohamed, Diena M Almasri, Rawan H Hareeri, Fadia S Youssef; **Evaluation of Possible Antioxidant, Anti-Hyperglycaemic, Anti-Alzheimer and Anti-Inflammatory Effects of *Teucrium polium* Aerial Parts (Lamiaceae); *Life* (2022); doi.org/10.3390/life12101579**
88. Amany A Thabet, Saad Moghannem, Iriny M Ayoub, Fadia S Youssef, Eman Al Sayed, Abdel Nasser B Singab, **GC/MS profiling of essential oils from *Bontia daphnoides* L., chemometric discrimination, isolation of dehydroepingaione and evaluation of antiviral activity; *Scientific Reports*; 12: 17707, doi.org/10.1038/s41598-022-22174-4**
89. Muhammad Ihsan Ullah, Rukhsana Anwar, Shahzad Kamran, Bazgha Gul, Sameh S Elhady, Fadia S Youssef, **Evaluation of the Anxiolytic and Anti-Epileptogenic Potential of *Lactuca Serriola* Seed Using Pentylentetrazol-Induced Kindling in Mice and Metabolic Profiling of Its Bioactive Extract; *Antioxidants*; (2022); doi.org/10.3390/antiox11112232**
90. Markhabo M Makhmudova, Markus Bacher, Gokhan Zengin, Thomas Rosenau, Fadia S Youssef, Diena M Almasri, Sameh S Elhady, Nilufar Z Mamadalieva; **Silviridoside: A New Triterpene Glycoside from *Silene viridiflora* with Promising Antioxidant and Enzyme Inhibitory Potential; *Molecules*, (2022), doi.org/10.3390/molecules27248781**
91. Marilú Roxana Soto-Vásquez, Paúl Alan Arkin Alvarado-García, Fadia S Youssef, Mohamed L Ashour, Hanin A Bogari, Sameh S Elhady; **FTIR Characterization of Sulfated Polysaccharides Obtained from *Macrocystis integrifolia* Algae and Verification of Their Antiangiogenic and Immunomodulatory Potency *In Vitro* and *In Vivo*; *Marine Drugs* (2022); doi.org/10.3390/md21010036**
92. Eman M Abd Elghani, Abeer M El Sayed, Marwa M Abdel-Aziz Emam, Abdulaziz M Al-Mahallawi, Soad H Tadros, Fathy M Soliman, Fadia S Youssef; **Seasonal metabolic profiling of Valencia orange leaf essential oil using GC coupled with chemometrics, nano-formulation, and insecticidal evaluation: in vivo and in silico; *RSC Advances* (2023); 3: 1659-1671**
93. Gaber El-Saber Batiha, Hayder M Al-Kuraishy, Ali I Al-Gareeb, Fadia S Youssef, Suzy A El-Sherbeni, Walaa A Negm; **A perspective study of the possible impact of obeticholic acid against SARS-CoV-2 infection; *Inflammopharmacology* (2023); 31: 9-19**
94. Mariam I Gamal El-Din, Mina Y George, Fadia S Youssef; **Chemical characterization of the polyphenolic rich fraction of *Thunbergia erecta* and its**

therapeutic potential against doxorubicin and cyclophosphamide-induced cognitive impairment in rats; *Journal of Ethnopharmacology* (2023); 307: doi.org/10.1016/j.jep.2023.116213

95. Aya S Shalaby, Hanaa H Eid, Riham A El-Shiekh, **Fadia S Youssef**, Ahmed A Al-Karmalawy, Nahla A Farag, Amany A Sleem, Fatma Adly Morsy, Khaled M Ibrahim, Soad H Tadros. **A Comparative GC/MS Analysis of Citrus Essential Oils: Unveiling the Potential Benefits of Herb-Drug Interactions in Preventing Paracetamol-Induced Hepatotoxicity**; *Chemistry & Biodiversity* (2023); <https://doi.org/10.1002/cbdv.202300778>
96. **Fadia S Youssef**, Mariam I Gamal El-Din, Hesham A El-Beshbishy, Mohamed L Ashour, Abdel-Nasser B Singab; ***Eremophila purpurascens*: Anti-oxidant, Anti-hyperglycemic, and Hepatoprotective Potential of Its Polyphenolic Rich Leaf Extract and Its LC–ESI–MS/MS Chemical Characterization and Standardization**; *ACS Omega* (2023), 8, 35, 31928–31940
97. Mohamed S Elnaggar, Ahmed M Elissawy, **Fadia S Youssef**, Máté Kicsák, Tibor Kurtán, Abdel Nasser B Singab, Rainer Kalscheuer; **Austalide derivative from marine-derived *Aspergillus* sp. and evaluation of its cytotoxic and ADME/TOPKAT properties**; *RSC advances* (2023), DOI: 10.1039/D3RA02632A
98. Ayesha Asif, Saiqa Ishtiaq, Sairah Hafeez Kamran, **Fadia S Youssef**, Manar O Lashkar, Safwat A Ahmed, Mohamed L Ashour; **UHPLC–QTOF–MS Metabolic Profiling of *Marchantia polymorpha* and Evaluation of Its Hepatoprotective Activity Using Paracetamol-Induced Liver Injury in Mice**. *RSC advances* (2023), doi.org/10.1021/acsomega.3c01867
99. Asmaa Nabil-Adam, **Fadia S Youssef**, Mohamed L Ashour, Mohamed A Shreadah; **Neuroprotective and nephroprotective effects of *Ircinia* sponge in polycyclic aromatic hydrocarbons (PAHs) induced toxicity in animal model: a pharmacological and computational approach**; *Environmental Science and Pollution Research*; (2023); 30, 82162-82177
100. Wafaa H Abdel-Ghaffar, Mohamed S Attia, **Fadia S Youssef**; **Seven-Arms Starfish" *Luidia maculata*" Characteristics of Coelomocytes and Promising GSK3- β Protein for Wound Healing: Cellular and Chemical Analyses.**; *Egyptian Journal of Aquatic Biology & Fisheries*; (2023), 23, 631.
101. Aya S Shalaby, Hanaa H Eid, Riham A El-Shiekh, Osama G Mohamed, Ashootosh Tripathi, Ahmed A Al-Karmalawy, Amany A Sleem, Fatma Adly Morsy, Khaled M Ibrahim, Soad H Tadros, **Fadia S Youssef**. **Taming Food–Drug Interaction Risk: Potential Inhibitory Effects of Citrus Juices on Cytochrome Liver Enzymes Can Safeguard the Liver from Overdose Paracetamol-Induced Hepatotoxicity**. *ACS omega* (2023), 8, 26444-26457

102. Shehla Akbar, Saiqa Ishtiaq, **Fadia S Youssef**, Sameh S Elhady, Amal K Belaid, Mohamed Lofty Ashour; **HPLC and GC Characterization of *Dicliptera bupleuroides* Aerial Parts and Evaluation of Its Anti-Inflammatory Potential *in Vitro*, *in silico* and *in Vivo* Using Carrageenan and Formalin Induced Inflammation in Rat Models.** Chemistry & biodiversity; (2023); e202300349
103. Wafaa H Abdel-Ghaffar, **Fadia S Youssef**; **Ultrastructural and Chemical Comparative Characteristic Studies on the Free Coelomocytes, Coelomic Epithelia and Fluids Between the Sea Urchins “*Tripneustes gratilla*” and “*Echinometra mathaei*”** Egyptian Journal of Aquatic Biology and Fisheries; (2023); 27; 883-922
104. Rana M Sharaf, Noha S Kabil, **Fadia S Youssef**, Basma G Awad; **Clinical and Radiographic Evaluation of *Nigella sativa* and *Aloe vera* as Pulpotomy Medicaments in Primary Teeth: A Randomized Controlled Trial**; International Journal of Clinical Pediatric Dentistry (2023); 16; 195
105. Muhammad Sajid-ur-Rehman, Saiqa Ishtiaq, Muhammad Sohaib Khan, Qaiser Jabeen, **Fadia S Youssef**, Safwat A Ahmed, Sameh S Elhady, Mohamed L Ashour; **Characterization of *Sesuvium sesuvioides* Using High-Performance Liquid Chromatography and Validation of Its *In Vivo* Anti-hyperthyroidism Effect via Suppressing Oxidative Stress and Inflammatory Markers**; *ACS Omega* 2023, 8, 48, 45896–45905
106. Farah Abid, Mohammad Saleem, Talha Jamshaid, Usama Jamshaid, **Fadia S Youssef**, Reem M Diri, Sameh S Elhady, Mohamed L Ashour, ***Opuntia monacantha*: Validation of the anti-inflammatory and anti-arthritic activity of its polyphenolic rich extract in silico and in vivo via assessment of pro- and anti-inflammatory cytokines**, Journal of Ethnopharmacology (2024); <https://doi.org/10.1016/j.jep.2024.117884>
107. Imtisal Sarwar, Muhammad Asif, Talha Jamshaid, Malik Saadullah, Hafiz Muhammad Zubair, Mohammad Saleem, Usama Jamshaid, **Fadia S Youssef**, Mohamed L Ashour, Sameh S Elhady, **Phytochemical and biological studies of *Panicum antidotale* aerial parts ethanol extract supported by molecular docking study**, Frontiers in Pharmacology (2024), doi.org/10.3389/fphar.2023.1243742
108. Enaam M AbouZeid, Rehab A Hussein, Abeer A Salama, **Fadia S Youssef**, Sherweit H El-Ahmady, Nagwa Mohamed Ammar, Ahmed H Afifi; **Metabolomic study of the estrogenic and anti-osteoporotic potential of *Erythrina bidwillii* leaf**; Biomedical Chromatography (2024); <https://doi.org/10.1002/bmc.5810>
109. Nesma Khaled, Nehal Ibrahim, Alaa E Ali, **Fadia S Youssef**, Sherweit H El-Ahmady; **LC-qTOF-MS/MS phytochemical profiling of *Tabebuia impetiginosa* (Mart. Ex DC.) Standl. leaf and assessment of its neuroprotective potential in rats**; Journal of Ethnopharmacology; (2024); 118292.
110. Sameh S Elhady, **Fadia S Youssef**, Manar O Lashkar, Dalia I Hamdan, Mohamed L Ashour, Gokhan Zengin, Mariam I Gamal El-Din; **Chemometric discrimination of eight citrus plants utilizing chromatographic and**

- spectroscopic techniques and insights into their biological potentials;** Current Research in Food Science; (2024); 100803.
111. Sherif M Shama, Ahmed M Elissawy, Mohamed A Salem, **Fadia S Youssef**, Mohamed S Elnaggar, Hesham R El-Seedi, Shaden AM Khalifa, Khaled Briki, Dalia Ibrahim Hamdan, Abdel Nasser B Singab; **Comparative metabolomics study on the secondary metabolites of the red alga, *Corallina officinalis* and its associated endosymbiotic fungi;** RSC advances; (2024); 18553-18566.
 112. MMM Aboulwafa, NM Mostafa, **FS Youssef**, OA Eldahshan, ANB Singab; **Evaluation of *Azadirachta indica* cultivated in Egypt against biofilm formation by *Pseudomonas aeruginosa*: Insights from molecular docking studies targeting LasR;** Infect Dis Res (2024); 1-16
 113. Enaam M AbouZeid, Ahmed H Afifi, Rehab A Hussei, Abeer A Salama, **Fadia S Youssef**, Sherweit H El-Ahmady, Nagwa Mohamed Ammar; ***Phoenix dactylifera* L.: An Overview of Phytochemical Constituents and Impact on Women's Health;** Chemistry & Biodiversity (2024); e202400456
 114. Nesma Khaled, Nehal Ibrahim, **Fadia S.Youssef**, Sherweit H. El-Ahmady; **Seasonal metabolic variation in the essential oil composition of various *Tabebuia* species and evaluation of their anti-inflammatory activity *in vitro* and *in silico*;** Archiv der Pharmazie; 2024 (accepted).
 115. Paul Alan Arkin Alvarado-García, Marilú Roxana Soto-Vásquez, Ricardo DDG de Albuquerque, Fadia S Youssef, Reem M Diri, Mohamed L Ashour. **Unveiling the neuroprotective potential of *Jatropha humboldtiana* leaves and its metabolic profiling by UPLC-MS/MS: Inflammopharmacology 2025**
 116. Maram M Aboulwafa, Nada M Mostafa, Fadia S Youssef, Omayma A Eldahshan, Abdel Nasser B Singab: ***Lavandula dentata* leaves as potential natural antibiofilm agents against *Pseudomonas aeruginosa*: Scientific Reports; 2025**
 117. Sameh S Elhady, Rania F Abou El-Ezz, Gokhan Zengin, Rania T Malatani, Mohamed L Ashour, **Fadia S Youssef: Phytochemical profiling of *Clerodendrum speciosum* leaves and evaluation of their antioxidant, antihyperglycemic and antiarthritic activities *in vitro*;** Future journal of pharmaceutical sciences; 2025
 118. Kholoud Kh Kadry, Marwa M Nagib, Ashaimaa Y Moussa, **Fadia S Youssef**, Manal S Afifi; **AMP-Activated Protein Kinase mediates the anti-inflammatory and antioxidant effects of *Ceiba speciosa* and *Ceiba insignis* in a rat model of ulcerative colitis;** Journal of Ethnopharmacology; 2025
 119. Mai M Ahmed, M Donia Abd El Raheim, Yassin Ismail, **Fadia S Youssef**, Sherweit H El-Ahmady; **Combining Spectroscopic techniques with Multivariate statistical approaches for discrimination of *Vicia* seeds;** Scientific reports; 2025
 120. Amany A Thabet, Iriny M Ayoub, **Fadia S Youssef**, Eman Al Sayed, Mohamed S Elnaggar, Saad Moghannem, Michal Korinek, Rainer Kalscheuer, Abdel Nasser B Singab; **New oxygenated sesquiterpenes from *Bontia daphnoides* L. leaves and *in vitro* evaluation of its antiviral and anti-inflammatory activity;** Fitoterapia; 2025
 121. Iriny M Ayoub, **Fadia S Youssef**, Maha Nasr, Mina Y George; **Verification of the anticholinesterase activity of *Tectona grandis* and *Rosemarinus officinalis* *in vitro* and *in silico*;** Journal of Advanced Research; 2025

122. Esraa A Elhawary, Mina Y George, Nadine C Sabry, Iriny M Ayoub, Maha Nasr, Fadia S Youssef; ***Tectona grandis* Metabolites Alleviate Oxaliplatin-induced Chemofog in Rats: Modulation of the NLRP3 Inflammasome Axis**; **Journal of Ethnopharmacology**; **2025**
123. Sonam Anis, Eman R Elsharkawy, Saiqa Ishtiaq, Saira Hafeez Kamran, Sana Sarfaraz, Iqbal Azhar, Fadia S Youssef, Mohamed L Ashour; **Standardized *Tamarindus indica* and *Colocasia esculenta* leaves extracts alleviate obesity in high fat, high sucrose and letrozole-induced obese rats**; **Fitoterapia**; **2025**
124. Mina Youssif, Iriny Ayoub, Nadine C Sabry, Nesma Khaled, Maha Nasr and Fadia S. Youssef, **Protective effect of *Rosemarinus officinalis* and its nanoparticles against chemobrain and neuroinflammation in rats: Involvement of Wnt/ β -Catenin signaling and apoptotic machineries**; **Food and Function**, **2026**

Book Chapters

1. Mariam I Gamal El-Din, Fadia S Youssef, Mohamed L Ashour, Omayma A Eldahshan, Abdel Nasser B Singab; **Subfamily Bombacoideae: Traditional Uses, Secondary Metabolites, Biological Activities, and Mechanistic Interpretation of the Anti-Inflammatory Activity of its species**; **Wild Plants**, 338-400, 2020, CRC Press.
2. Fadia S. Youssef and Mohamed L. Ashour. **Antimicrobial Activity of Certain Secondary Metabolites Derived from Family Scrophulariaceae**; **Antimicrobial Activity of Natural Substances**; 71-95; 2017; JB Books
3. Dalia I. Hamdan, Fadia S. Youssef, Mohamed L. Ashour and Assem M. El-Shazly. **Insights into the ethnopharmacological use of Rutaceae a golden source for many pharmaceutical preparations**. **Ethnobotany: Application of Medicinal Plants**; 240-270; 2018; CRC Press.
4. Fadia Youssef, Noor H Aysa, Mohamed L. Ashour; ***Eichhornia crassipes*: Shedding Light on its Chemical Composition, Biological Activities and Industrial Uses**; **Ethnopharmacology of Wild Plants**; 184-200; 2020; CRC Press
5. Fadia S Youssef; ***Nigella sativa* Seeds in Cosmetic Products: Shedding the Light on the Cosmeceutical Potential of *Nigella sativa* and its Utilization as a Natural Beauty Care Ingredient**; **Black cumin (*Nigella sativa*) seeds: Chemistry, Technology, Functionality, and Applications**; 231-243, 2020, Springer, Cham; doi.org/10.1007/978-3-030-48798-0_16

6. Fadia S Youssef; **Genus *Opuntia*: A Golden Source of Compounds with Anti-Inflammatory Potential**; *Opuntia* spp.: Chemistry, Bioactivity and Industrial Applications; 411-422; 2021; Springer, Cham; <https://link.springer.com/book/10.1007/978-3-030-78444-7>
7. Fadia Youssef, Mohamed L. Ashour; **Selective Antimicrobial Agents from Terrestrial Plants A Hope in the Battle of Infection**; *Eco-Friendly Biobased Products Used in Microbial Diseases*; 43-57; 2022; CRC Press
8. Mariam I Gamal El-Din, Fadia S Youssef; **Non-Food Applications of Coriander Seed Extracts**; *Handbook of Coriander (*Coriandrum sativum*)*; 545-558; 2023; CRC Press
9. Fadia S Youssef; **Marine organisms as natural drug leads in combating vector-borne diseases**; *Natural Products in Vector-Borne Disease Management*; 171-199; 2023; Elsevier Inc. Academic Press.
10. Amany A. Thabet, Fadia S. Youssef; **Anti-SARS-CoV-2 Activity of Marine Bacteria-Derived Compounds: The Mode of Action**; *Anti-Coronavirus Marine Bioactive Compounds*; 2025, Taylor & Francis group & Academic apple press; <https://doi.org/10.1201/9781003638018>

Posters

1. Fadia S. Youssef, Mohamed L. Ashour and Abdel Nasser Singab. **Antibacterial and antifungal properties of *Eremophila maculata* leaves methanol extract**. Presented at: *The 17th Scientific Congress of the Associations of College of Pharmacy in the Arab World (October 2014)*.
2. Fadia S. Youssef, Mohamed L. Ashour, Hesham A. El-Beshbishy and Abdel Nasser Singab . **Antidiabetic activity of *Eremophila maculata* leaves methanol extract and its major secondary metabolites**. Presented at: *63rd International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA2015) (August 2015)*.
3. Rola M. Labib, Fadia S. Youssef, Mohamed L. Ashour, Jennifer Búfalo, Samir A. Ross. **Chemical composition and bioactivity of the essential oil of *Pinus roxburghii* bark**. Presented at: *64th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research (GA2016) (August 2016)*.
4. Amany A. Thabet, Fadia S. Youssef, Mohamed El-Shazly, Michal Korinek, Fang-Rong Chang and Abdel Nasser B. Singab. **Anti-allergic activity of *Brachychiton rupestris* leaves using A23187-induced degranulation assay in RBL-2H3 cells**. Presented at: *the 4th FUE international conference of Pharmaceutical Sciences*. (January 2018).

5. Maram M. Aboulwafa, Fadia S. Youssef, Haidy A. Gad, Mohamed M. Al-Azizi, Mohamed L. Ashour. **Discrimination of green tea samples from different locations in Kenya using UV-spectroscopy coupled with Chemometrics.** Presented at: *the 7th Annual ASU Conference internationalization and mobilization. (April 2019).*
6. Mariam I. Gamal El-Din, Fadia S. Youssef , Mohamed L. Ashour , Omayma A. Eldahshan, Abdel Nasser B. Singab. **In-vitro cytotoxicity of *Pachira aquatica* and *Pachira glabra* leaf extracts.** Presented at: *the 7th Annual ASU Conference internationalization and mobilization. (April 2018).*
7. Somaia A. Al-Madhagy, Nada M. Mostafa, Fadia S. Youssef, Omayma A. Eldahshan. **Preliminary phytochemical study and an overview on the traditional uses, biological activities and phytochemistry of *Coccinia grandis*.** Presented at: *The 21st Scientific Congress of the Associations of College of Pharmacy in the Arab World (November 2018).*
8. Mariam I. Gamal El-Din, Fadia S. Youssef, Mohamed L. Ashour , Omayma A. Eldahshan, Abdel Nasser B. Singab. **Comparative analysis of *Pachira glabra*, and *Pachira aquatica* phenolic, flavonoid contents and volatile oil constituents** Presented at: *the 8th Annual ASU Creativity, Innovations, Industry (April 2019).*
9. Mohga, Nada M. Mostafa, Fadia S. Youssef, Omayma A. Eldahshan. **Major classes of secondary metabolites in selected species of *Gardinea*.** Presented at: Presented at: *the 8th Annual ASU Creativity, Innovations, and Industry (April 2019).*
10. Sherif M Shama, Ahmed M. Elissawy, Mohamed A. Salem, Fadia S. Youssef, Mohamed S. Elnaggar, Hesham R. El-Seedi, Dalia Ibrahim Hamdan and Abdel Nasser B. Singab; **Cytotoxic and Antimicrobial activities of secondary metabolites isolated from *Aspergillus quadrilineatus* derived from the algae *Corallina officinalis*.** Presented at: 2nd International Conference of the Faculty of Pharmacy, Menoufia University, 2023
11. Kholoud Kh. Kadry, Ashaimaa Y. Moussa, Fadia S. Youssef, Manal S. Afifi; **LC-MS analysis and evaluation of anti-inflammatory activity of the flowers of *Ceiba speciosa* and *Ceiba insignis*.** Presented at: 3rd International Conference of the Faculty of Pharmacy, Ain Shams University November 2023.
12. Iriny M. Ayoub, Fadia S. Youssef, Maha Nasr, Mina Y. George; **Verification of the Anticholinesterase Activity of *Tectona grandis* and *Rosemarinus officinalis* in vitro and in silico.** Presented at 12th International Scientific Conference 2025

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