

## **Mohamed L. Ashour, Ph.D.**

Professor

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## **Education**

**Ph.D. in Pharmaceutical Sciences** (April. 2010) Institute of Pharmacy and Molecular Biotechnology, Heidelberg University, Heidelberg, Germany.

Dissertation title: Phytochemistry and Biological Activity of *Bupleurum marginatum* (Apiaceae)

**M.Sc. in Pharmacy** (June 2004) Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Thesis title: Phytochemical investigations of Jojoba Oil obtained from the seeds of *Simmondsia chinensis* family Simmondsiaceae

**B.Sc. in Pharmaceutical Sciences** (May 1996) Faculty of Pharmacy, Alexandria University, Alexandria, Egypt.

## **Professional Experience**

### **October 2020 to Present *Professor***

Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

### **October 2015 to October 2020 *Associate Professor***

Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

Department of Pharmacognosy, Faculty of Pharmacy and Drug Manufacture, Badr University in Cairo, Cairo, Egypt. (**Part Time**)

Department of Pharmacognosy, Faculty of Pharmacy and Pharmaceutical Sciences, Future University in Egypt, Cairo, Egypt. (**Part Time**)

**May 2010 – July 2015 Assistant Professor**

Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.

Department of Pharmacognosy, Faculty of Pharmacy and Pharmaceutical Sciences, Future University in Egypt, Cairo, Egypt. **(Part Time)**

**Jun. 2006 - Apr 2010 Ph.D. student**, Department of Biology, Institute of Pharmacy and molecular Biotechnology, Heidelberg University, Heidelberg, Germany

**Jun. 2004 - Feb 2006 Assistant Lecturer of Pharmacognosy**, Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

**Nov. 1999 - Jun. 2004 Lab. Instructor**, Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

## **Academic activities**

### **A. Teaching activities:**

I had actively participating in teaching several courses (undergraduate and postgraduate) in many universities inside and outside Egypt mainly in:

- 1- Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.
- 2- Institute of Pharmacy and Molecular Biotechnology, Heidelberg University, Heidelberg, Germany
- 3- School of Pharmacy and Pharmaceutical Industries, Badr University in Cairo, Cairo, Egypt.
- 4- Faculty of Pharmaceutical Sciences and Industries, Future University in Egypt, Cairo, Egypt
- 5- Faculty of Pharmacy, Al-Asher University, Cairo, Egypt

The taught courses are:

- 1- Pharmacognosy
- 2- Phytochemistry
- 3- Natural Products
- 4- Modes of Action of Secondary Metabolites
- 5- Phytototherapy
- 6- Complementary and Alternative Medicines
- 7- Herbal Medicines
- 8- Quality Control of Natural Products
- 9- Analysis of Natural Products
- 10- Chromatography Techniques
- 11- Pharmaceutical Biotechnology
- 12- Scientific Writing
- 13- English for Pharmacy Students
- 14- Pharmaceutical Care
- 15- Drug Information and Literature Analysis

My role in these courses includes:

- Designing and delivering of professional and postgraduate the courses mentioned above
- Preparing the course file (Specs, syllabus and report) for all the taught course.
- Reforming and developing pharmacy curricula to meet international accreditation standards
- Implementing new teaching strategies based on the new global strategies for learning (Flipping the classroom, formative assessments, PBL...)

- Applying the online courses and exam in most of the courses (Platforms used Moodle, LMS, Oracle, Blackboard, and ExamSoft...)
- Designing and implementing the OSCE examination for the BMC students.
- Academic students supervision and mentoring for both under and postgraduate students in Egypt
- Students evaluation in all the given courses is always “Exceptional”

## **B. Research activities:**

### **Bibliometric (March 2021):**

**Google Scholar:** h-index = 29, 2837 total citations

**Web of Knowledge:** 100 ISI-indexed publications; total citations = 1122; H-Index = 23

- **Postgraduate Supervision**

Supervising (as a main supervisor or a co-supervisor) of 4 Master and 5 PhD candidates which have been accomplished.

- **Scientific publication**

- i. Articles, and reviews:**

More than 80 papers, review articles in highly indexed journals.

1. Mohamed L. Ashour, Mahmoud El-Readi, Mahmoud Youns, Sri Mulyaningsih, Frank Sporer, Thomas Efferth and Michael Wink. **Chemical composition and biological activity of the essential oil obtained from *Bupleurum marginatum* (Apiaceae).** *J Pharm Pharmacol* 2009; 61: 1079–1087.
2. Sri Mulyaningsih, Mahmoud Youns, Mahmoud El-Readi, Mohamed L. Ashour, Endalkachew Nibret, Frank Sporer, Florian Herrmann, Jürgen Reichling and Michael Wink. **Biological activity of the essential oil of *Kadsura longipedunculata* (Schisandraceae) and its major components.** *J Pharm Pharmacol* 2010; 62: 1037–1044.
3. Endalkachew Nibret, Mohamed L. Ashour, Chrispinus D. Rubanza and Michael Wink. **Screening of some Tanzanian medicinal plants for their trypanocidal and cytotoxic activities.** *Phytother Res* 2010; 24: 945–947.
4. Mohamed L. Ashour and Michael Wink. **Genus *Bupleurum*: A review of its phytochemistry, pharmacology and modes of action.** *J Pharm Pharmacol* 2011; 63: 305–321.
5. Florian Herrmann, Marta R. Romero, Alba G. Blazquez, Dorothea Kaufmann, Mohamed L. Ashour, Stefan Kahl, Jose J.G. Marin, Thomas Efferth and Michael Wink **Diversity of Pharmacological Properties in Chinese and European Medicinal Plants: Cytotoxicity, Antiviral and Antitrypanosomal Screening of 82 Herbal Drugs.** *Diversity* 2011; 3: 547- 580
6. Mohamed L. Ashour, Mahmoud Z. El-Readi, Ahmed Tahrani, Safaa Eid and Michael Wink. **A novel cytotoxic aryltetraline lactone from *Bupleurum marginatum* (Apiaceae).** *Phytochem Lett* 2012; 5: 387-392

7. Wink, M., Ashour, M.L., El-Readi, M. Z. **Secondary metabolites inhibiting ABC transporters and reversing resistance of cancer cells and fungi to cytotoxic and antimicrobial agents.** *Front Microbiol* 2012; 3: 130
8. Nilufar Z. Mamadalieva, Mahmoud Z. El-Readi, Elisa Ovidi, Mohamed L. Ashour, Razan Hamoud, Shamansur S. Sagdullaev, Sakhnoza S. Azimova, Antonio Tiezzi, Michael Wink. **Antiproliferative, antimicrobial and antioxidant activities of the chemical constituents of *Ajuga turkestanica*.** *Phytopharmacology* 2013; 4: 1-18
9. Mahmoud Z. El-readi, Safaa Y. Eid, Mohamed L. Ashour, Ahmad Tahrani and Michael Wink. **Modulation of multidrug resistance in cancer cells by chelidonine and *Chelidonium majus* alkaloids.** *Phytomedicine* 2013; 20: 282-294
10. Saoussen Hammami, Abdelkader Ben Salem, Mohamed L. Ashour, Jihène Cheriaa, Guella Graziano & Zine Mighri. **A novel methylated sesquiterpene from seagrass *Posidonia oceanica* (L.) Delile.** *Nat Prod Res* 2013; 27:1265-70.
11. Sherweit H. El-Ahmady, Mohamed L. Ashour and Michael Wink. **Chemical composition and anti-inflammatory activity of the essential oils of *Psidium guajava* fruits and leaves.** *J Essent Oil Res* 2013; 25:475-481.
12. Abdel Nasser Singab, Fadia Yousef, Mohamed L. Ashour and Michael Wink. **The genus *Eremophila*: A review of ethnobotanical, biological, and phytochemical properties.** *J Pharm Pharmacol* 2013; 65: 1239-79.
13. Dalia Hamdan, Mohamed L. Ashour, Sri Mulyaningsih, Assem El-Shazly and Michael Wink. **Chemical composition of the essential oils of Variegated Pink-fleshed Lemon (*Citrus x limon* L. Burm.f.) and their anti-inflammatory and antimicrobial activities.** *Z Naturforsch C* 2013; 68: 275-84.
14. Yu-Ming Chung, Mohamed El-Shazly, Da-Wei Chuang, Tsong-Long Hwang, Teigo Asai, Yoshiteru Oshima, Mohamed L. Ashour, Yang-Chang Wu, and Fang-Rong Chang. **Suberoylanilide hydroxamic acid, a histone deacetylase inhibitor, induces the production of antiinflammatory cyclodepsipeptides from *Beauveria felina*.** *J Nat Prod* 2013; 76:1260-6.
15. Mohamed L. Ashour, Nahla A. Ayoub, Abdel Nasser B. Singab and Mohamed M. Al-Azizi. ***Simmondsia chinensis* (Jojoba): A comprehensive pharmacognostic study.** *J Pharmacog Phytochem* (2013), 2(2): 97-120.
16. Mahmoud Z. El-Readi, Hanaa H. Eid, Mohamed L. Ashour, Safaa Y. Eid, Rola M. Labib, Frank Sporer and Michael Wink. **Variations in chemical composition and bioactivity of the essential oils obtained from the leaves and stems of *Liquidambar styraciflua* (Altingiaceae).** *J Pharm Pharmacol* 2013; 65: 1653-1663
17. Fadia Yousef, Rola M. Labib, 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

18. Mohamed L. Ashour, Mahmoud Z. El-Readi, Razan Hamoud, Safaa Y. Eid, Sherweit H. El-Ahmady, Endalkachew Nibret, Florian Herrmann, Mahmoud Youns, Ahmed Tahrani, Dorothea Kaufmann, and Michael Wink. **Anti-infective and cytotoxic properties of *Bupleurum marginatum***. *Chinese Med* 2014; 9:4
19. Rasha Hanafy, Mansour Sobh, Mohamed L. Ashour, Mahmoud Z. El-Readi, Samar Y. Desouky, Raimund Niess, Ashraf Abadi and Michael Wink. **Chemical composition and biological activity of the essential oils of cumin and coriander fruits from Egypt**. *Nat Prod J* 2014; 4: 63-69.
20. Abdel Nasser Singab, Nada Mostafa, Omayma Eldashan, Mohamed L. Ashour and Michael Wink. **Volatile Components Profile and Antimicrobial Activity against Foodborne Pathogens of Hydrodistilled and Extracted Leaves of *Jacaranda acutifolia* Juss.** *Nat Prod Commun* 2014; 9(7):1007-1010.
21. 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.
22. 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.
23. Salma M. Kandeel, Mohamed L. Ashour, Abdel Nasser B. Singab and Ghanem A-G El-Hossary **Quality control of certain herbal products and their individual components used for digestive tract disorders and their proposed mechanism** *Eur J Med Plants* 2015; 5: 349-365.
24. Noha Khalil, Mohamed Ashour, Abdel Nasser B. Singab, Osama Salama **Chemical composition and biological activity of the essential oils obtained from yellow and red carrot fruits cultivated in Egypt** *J Pharm Biol Sci* 2015; 10(2): 13-19.
25. Nilufar Z. Mamadalieva, Vittorio Vinciguerra, Mansour Sobeh, Elisa Ovidi, Mohamed L. Ashour, Michael Wink, Antonio Tiezzi **GLC-MS profiling of non-polar extracts from *Phlomis bucharica* and *P. salicifolia* and their cytotoxicity** *BLACPMA* 2015; 14(6): 442-448.
26. Safaa Y. Eid, Mahmoud Z. El-Readi, Mohamed L. Ashour, and Michael Wink ***Fallopia japonica*: a Natural Modulator Can Overcome Multidrug Resistance in Cancer Cells** *Evid-Based Complement Med* 2015; Article ID 868424.
27. Iriny M. Ayoub, Fadia S. Youssef, Mohamed El-Shazly, Mohamed L. Ashour, Abdel Nasser B. Singab and Michael Wink **Volatile constituents of *Dietes bicolor* (Iridaceae) and their antimicrobial activity** *Z Naturforsch* 2015; 70(7-8):217-25
28. Naglaa S Ashmawy, Mohamed L. Ashour, Michael Wink, Mohamed El-Shazly, Fang-Rong Chang, Noha Swilam, Ashraf B Abdel-Naim, Nahla Ayoub. **Polyphenols from *Erythrina crista-galli*: Structures, Molecular Docking and Phytoestrogenic Activity** *Molecules* 2016; 21(6):726

29. Nilufar Z Mamadalieva, Elisa Ovidi, Vittorio Vinciguerra, Mohamed L Ashour and Antonio Tiezzi **Phytochemical investigations and biological activities of *Thymus seravschanicus* aerial parts.** *Chem Nat Comp* 2016; 52: 352-5.
30. Abdelmounaim Khadir, Mansour Sobeh, Haidy A Gad, Fethi Benbelaid, Mourad Bendahou, Herbenya Peixoto, Frank Sporer, Mohamed L. Ashour and Michael Wink **Chemical composition and biological activity of the essential oil from *Thymus lanceolatus*** *Z Naturforsch C* 2016; 71(5-6):155-163.
31. Nada M. Mostafa, Mohamed L. Ashour, Omayma A. Eldahshan, Abdel Nasser B. Singab **Cytotoxic Activity and Molecular Docking of a Novel Biflavonoid Isolated from *Jacaranda acutifolia* (Bignoniaceae)** *Nat Prod Res* 2016; 18: 2093-2100.
32. Mohamed S. Elnaggar, Sherif S. Ebada, Mohamed L. Ashour, Weaam Ebrahim, Werner E. G. Müller, Attila Mándi, Tibor Kurtán, Abdelnasser Singab, Wenhan Lin, Zhen Liu, and Peter Proksch **Xanthenes and Sesquiterpene Derivatives from *Scopulariopsis* sp., a Marine-Derived Fungus Isolated from the Red Sea Hard Coral *Stylophora* sp.** *Tetrahedron* 2016; 72: 2411- 2419.
33. 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; 12:319-325.
34. 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.
35. 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.
36. Mansour Sobeh, Markus Santhosh Braun, Sonja Krstin, Fadia S. Youssef, Mohamed L. Ashour and Michael Wink **Chemical Profiling and Biological Activity of the Essential Oils of *Syzygium aqueum*, *Syzygium samarangense* and *Eugenia uniflora* and Their Discrimination Using Chemometric Analysis** *Chem Biodivers* 2016; 13: 1537–1550
37. Nawal Al-Musayeib, Sherif S. Ebada, Haidy A. Gad, Fadia S Youssef, Mohamed L. Ashour **Chemotaxonomic diversity of three *Ficus* species: Their discrimination using chemometric analysis and their role in combating oxidative stress** *Pharmacogn Mag* 2017; 13 (Suppl 3), S613
38. Fadia S. Youssef, Mohamed L. Ashour, Mansour Sobeh, Hesham A. El-Beshbishy, Michael Wink, and Abdel Nasser Singab **Antidiabetic activity of a methanol extract from leaves of *Eremophila maculata* (Scrophulariaceae) in streptozotocin induced diabetic rats** *J Pharm Pharmacol* 2017; 69 (6), 733-742.

39. Mohamed L. Ashour, Fadia S. Youssef, Haidy H. Gad and Michael Wink. **Inhibition of cytochrome P450 (CYP3A4) activity by extracts from 57 plants used in traditional chinese medicine (TCM)** *Pharmacogn Mag* 2017; 13 (50), 300
40. Mohamed S. Elnaggar, Sherif S. Ebada, Mohamed L. Ashour, Weaam Ebrahim, Werner E. G. Müller, Abdelnasser Singab, Zhen Liu, and Peter Proksch. **Two new triterpenoids and a new naphthoquinone derivative isolated from a hard coral-derived fungus *Scopulariopsis* sp.** *Fitoterapia*, 2017; 116: 126-130.
41. Ahmed M Elissawy, Sherif S Ebada, Mohamed L Ashour, Ferhat C Özkaya, Weaam Ebrahim, Abdel Nasser B Singab, Peter Proksch. **Spiroarthrinols A and B, two novel meroterpenoids isolated from the sponge-derived fungus *Arthrinium* sp.** *Phytochemistry Letters*, 2017; 20: 246-251.
42. Rola M Labib, Fadia S Youssef, Mohamed L Ashour, Mohamed M Abdel-Daim, Samir A Ross. **Chemical Composition of *Pinus roxburghii* Bark Volatile Oil and Validation of Its Anti-Inflammatory Activity Using Molecular Modelling and Bleomycin-Induced Inflammation in Albino Mice.** *Molecules*, 2017; 22: 1384
43. Mansour Sobeh, Fadia S. Youssef, Daria Monti, Mohamed L. Ashour and Michael Wink. **High resolution UPLC-MS/MS profiling of the polyphenolics in the methanol extract of *Syzygium samarangense* leaves and its hepatoprotective activity in rats with CCl<sub>4</sub>-induced hepatic damage.** *Food and Chemical Toxicology*, 2018; 113:145-153.
44. Abdulaziz A. Janibekov, Fadia S. Youssef, Mohamed L. Ashour, Nilufar Z. Mamadalieva. **New flavonoid glycosides from two *Astragalus* species (Fabaceae) and validation of their antihyperglycaemic activity using molecular modelling and in vitro studies.** *Industrial Crops and Products*, 2018; 118: 142-148.
45. Noha Khalil, Mohamed Ashour, Sahar Fikry, Abdel Nasser Singab, Osama Salama **Chemical composition and antimicrobial activity of the essential oils of selected Apiaceous fruits** *Future J Pharm Sciences* 2018; 4: 88-92.
46. Fadia S. Youssef, Mohamed L. Ashour, Sherweit H. Al-Ahmady. **Insights into the Ethnopharmacological Uses of Certain Medicinally Important Genera Belonging to Family Scrophulariaceae.** *Current Traditional Medicine*, 2018; 4: 204-214
47. Mohamed L. Ashour, Fadia S. Youssef, Haidy H. Gad, Mahmoud Z. El-Readi, Rabah Taha, Reham Abouzeid, Amel Bouzabata, Mansour Sobeh, and Michael Wink. **Evidence for the anti-inflammatory activity of *Bupleurum marginatum* (Apiaceae) extracts using in vitro and in vivo experiments supported by virtual screening** *J Pharm Pharmacol*, 2018; 70: 952-963.
48. Mansour Sobeh, Mona F Mahmoud, Ganna Petruk, Samar Rezaq, Mohamed L Ashour, Fadia S Youssef, Assem M El-Shazly, Daria M Monti, Ashraf B Abdel-Naim, Michael Wink. ***Syzygium aqueum*: a polyphenol-rich leaf extract exhibits antioxidant, hepatoprotective, pain-killing and anti-inflammatory activities in animal models.** *Frontier in Pharmacology*, 2018; 9

49. Fadia S. Youssef, Mohamed L. Ashour, Michael Wink. **Morphological, Anatomical, Genetical and High Performance Thin Layer Chromatography Profiling of *Buddleia indica* (Scrophulariaceae).** *Flora*, 2018; 246: 83-95
50. Noha Khalil, Mohamed Ashour, Abdel Nasser Singab, Osama Salama **Bioassay guided fractionation and cytotoxic activity of *Daucus carota* var. *boissieri*** *Future J Pharm Sciences* 2018; 4: 14-17.
51. 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* Aubl. and *Pachira glabra* Pasq., their anti-mycobacterial and anti- *Helicobacter pylori* activities and their metabolic discrimination using Chemometrics.** *Journal of Essential Oil Bearing Plants*, 2018; 21: 1550-1567
52. 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.** *Journal of Pharmaceutical and Biomedical Analysis*, 2019; 164: 653-658
53. Ahmed M Elissawy, Sherif S Ebada, Mohamed L Ashour, Mona El-Neketi, Weaam Ebrahim, Abdel Nasser B Singab. **New Secondary Metabolites from the Mangrove-Derived Fungus *Aspergillus* sp. AV-2.** *Phytochemistry Letters*, 2019; 29: 1-5.
54. Nilufar Z. Mamadalieva, Fadia S. Youssef, Mohamed L. Ashour, Sobirdjan A. Sasmakov, Antonio Tiezzi, and Shahnoz S. Azimova. **Chemical composition, antimicrobial and antioxidant activities of the essential oils of three Uzbek Lamiaceae species.** *Natural Products Research* 2019; 33: 2394-2397
55. Ridha El Mokni, Fadia Salah Youssef, Hbib Jmii, Abdelbeki Khmiri, Sihem Bouazzi, Brahim Jlassi, Hatem Dhaouadi, Mohamed L. Ashour, Saoussen Hammami. **The Essential Oil of Tunisian *Dysphania ambrosioides* and its Antimicrobial and Antiviral Properties.** *Journal of Essential Oil Bearing Plants*, 2019; 22: 282-294
56. Naglaa S. Ashmawy, Haidy A. Gad, Nawal Al-Musayeib, Sherweit H. El-Ahmady, Mohamed L. Ashour, Abdel Nasser B. Singab. **Phytoconstituents from *Polyscias guilfoylei* leaves with histamine-release inhibition activity.** *Z Naturforsch C*; 2019; 74: 145-150
57. Hamza Ouakouak, Naima Benchikha, Aicha Hassani, Mohamed L Ashour. **Chemical composition and biological activity of *Mentha citrata* Ehrh., essential oils growing in southern Algeria.** *J Food Sci Technol*; 2019; 56: 5346-5353
58. 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*; 2019; 8: 412



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60. 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*; 2019; 8: 455
61. Naglaa S Ashmawy, Haidy A Gad, Mohamed L. Ashour, Sherweit H El-Ahmady, Abdel Nasser B Singab. **The genus *Polyscias* (Araliaceae): A phytochemical and biological review.** *J Herb Med*; 2020; 23:100377
62. 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; 10:879
63. Mariam Gamal El-Din, Fadia S Youssef, Mohamed L. Ashour, Omayma Eldahshan, AbdelNasser B Singab. **New  $\gamma$ -pyrone glycoside from *Pachira glabra* and assessment of its gastroprotective activity using an alcohol-induced gastric ulcer model in rats.** *Food & Function*; 2020; 11:1958-1965
64. 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; 9:518
65. 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; 9:1460
66. 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; 9:575
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68. Fadia S Youssef, Mohamed L. Ashour, Hesham A El-Beshbishy, Alaaeldin Ahmed Hamza, Abdel Nasser B Singab, Michael Wink. **Pinoresinol-4-O- $\beta$ -D-glucopyranoside: a lignan from prunes (*Prunus domestica*) attenuates oxidative stress, hyperglycaemia and hepatic toxicity in vitro and in vivo.** *J Pharm Pharmacol*; 2020; 72: 1830-1839

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70. Nilufar Z. Mamadalieva, Fadia S. Youssef, Mohamed L. Ashour, Sobir A. Sasmakov and Shahnoz S. Azimova. **A comparative study on chemical composition and antimicrobial activity of essential oils from three *Phlomis* species from Uzbekistan.** *Nat Prod Res*; 2021; 35 (4), 696-701.
71. 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.** *Inflammopharmacol.* 2021; 29 (1), 317-332.
72. Ahmed M Elissawy, Ebrahim S. Dehkordi, Negin Mehdinezhad, Mohamed L Ashour, Pardis M. Pour. **Cytotoxic Alkaloids Derived from Marine Sponges: A Comprehensive Review.** *Biomolecules*; 2021; 11:258
73. 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; 22:1866
74. Nilufar Z Mamadalieva, Davlat Kh Akramov, Ludger A Wessjohann, Hidayat Hussain, Chunlin Long, Komiljon Sh Tojibaev, Elham Alshammari, Mohamed L Ashour, Michael Wink, **The Genus *Lagochilus* (Lamiaceae): A Review of Its Diversity, Ethnobotany, Phytochemistry, and Pharmacology.** *Plants*; 2021; 10: 132
75. Haidy A Gad, Nilufar Z Mamadalieva, Stefan Böhmendorfer, Thomas Rosenau, Gokhan Zengin, Rano Z Mamadalieva, Nawal M Al Musayeib, Mohamed L Ashour, **GC-MS Based Identification of the Volatile Components of Six *Astragalus* Species from Uzbekistan and Their Biological Activity.** *Plants*; 2021; 10: 124
76. 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.** *Frontier in Pharmacology*, 2021; 12: 298
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78. Mahmoud Z. El-Readi, Ahmed M. Al-Abd, Mohammad A. Althubiti, Riyad A. Almaimani, Hiba S. Al-Amoodi, Mohamed L. Ashour, Michael Wink, Safaa Y. Eid. **Multiple Molecular Mechanisms to Overcome Multidrug Resistance in Cancer by Natural Secondary Metabolites.** *Frontier in Pharmacology*, 2021; 12:

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82. 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 & Function*; 2021; 12: 5247-5259
83. Hekmat AL-Hmadi, Ridha El Mokni, Rajesh K Joshi, Mohamed L. Ashour, Saoussen Hammami. **The Impact of Geographical Location on the Chemical Compositions of *Pimpinella lutea* Desf. Growing in Tunisia.** *Applied Sciences*; 2021; 11(16): 7739
84. Dilafruz N. Jamalova, ,Haidy A. Gad, Davlat K. Akramov, Komiljon S. Tojibaev , Nawal M. Al Musayeib, Mohamed L. Ashour and Nilufar Z. Mamadaliyeva. **Discrimination of the Essential Oils Obtained from Four Apiaceae Species Using Multivariate Analysis Based on the Chemical Compositions and Their Biological Activity.** *Plants*; 2021; 10: 1529
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96. 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; 27: 2797.

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100. 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; 12: 824.
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103. 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; 11: 1316.
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106. Kiran Arshad, Abd Ullah, Sami Ullah, Hanin A Bogari, Mohamed L Ashour, Javaria Noor, Fazal Amin, Sikandar Shah, **Quantifying Osmotic Stress and Temperature Effects on Germination and Seedlings Growth of Fenugreek (*Trigonella foenum-graecum* L.) via Hydrothermal Time Model.** *Sustainability*; 2022; 14: 12049.
107. 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; 21: 36

## ii. Book Chapters:

1. Ashour, M., Wink, M. and Gershenzon, J. **Biochemistry of terpenoids: sterols, cardiac glycosides and steroid saponins.** *Annual Plant Reviews, 40: Biochemistry of Plant Secondary Metabolism* (ed. M. Wink), 2<sup>nd</sup> ed. Blackwell, Oxford, 258–302.
2. Mohamed L. Ashour and Sherif S. Ebada. **Plant natural products as potential modulators of the transcription factor NF- $\kappa$ B.** *Med Aromt Plant Sci Biotech* 2012; 6: 11-19.
3. Sherweit H. El-Ahmady, Mohamed L. Ashour **Coffee: the rationale behind 4 centuries consumption** *Nutraceuticals and Functional Foods*, 2015; 59-86.
4. Sherweit H. El-Ahmady, Mohamed L. Ashour **Advances in testing for adulteration of herbal and food supplements.** In: *Advances in food authenticity testing* ed. Downey. 2016.
5. Fadia S. Youssef, Mohamed L. Ashour, **Antimicrobial activity of certain secondary metabolites derived from family Scrophulariaceae.** In: *Antimicrobial Activity of Natural Substances* ed. Tomasz M. Karpiński, Artur Adamczak 2017.
6. Dalia I. Hamdan, Fadia S. Youssef, Mohamed L. Ashour, Assem M. El-Shazly, **Insights into the Ethnopharmacological Uses of Rutaceae: A Golden Source for many Pharmaceutical Preparations.** In: *Ethnobotany: Application of Medicinal Plants* ed. Martinez *et al.* 2019.
7. Mariam I. Gamal El-Din, Fadia S. Youssef, Mohamed L. Ashour, Omayma A. Eldahshan and Abdel Nasser B. Singab. **Subfamily Bombacoideae: Traditional Uses, Secondary Metabolites, Biological Activities, and Mechanistic Interpretation of the Anti-Inflammatory Activity.** In: *Wild Plants: The Treasure of Natural Healers* ed. Rai *et al.* 2020
8. Fadia S. Youssef, Noor H. Aysa, Mohamed L. Ashour, ***Eichhornia crassipes*: Shedding Light on its Chemical Composition, Biological Activities and Industrial Uses.** In: *Ethnopharmacology of Wild Plants* ed. Rai *et al.* 2021
9. Nilufar Z. Mamadaliyeva, Mohamed L. Ashour, Nazim A. Mamedov, ***Peganum harmala*: Phytochemistry, Traditional Uses and Biological Activities** In:

Biodiversity, Conservation and Sustainability in Asia - Volume 2: Prospects and Challenges in South and Middle Asia. ed. Ozturk *et al.* 2022.

10. Hanaa Nasr, Mahmoud A. Elfaky, Ilham Touiss, and Mohamed L. Ashour. ***Streptomyces: A Potential Source of Natural Antimicrobial Drug Leads***. In: *Eco-Friendly Biobased Products Used in Microbial Diseases*. ed. Rai *et al.* 2021
11. Fadia S. Youssef, Mohamed L. Ashour, **Selective Antimicrobial Agents from Terrestrial Plants A Hope in the Battle of Infection**. In: *Eco-Friendly Biobased Products Used in Microbial Diseases* ed. Rai *et al.* 2021.
12. Ilham Touiss, Mahmoud A. Elfaky, Mohamed L. Ashour and Hicham Harnafi, **Insights into the Recent Application of Rosmarinic Acid in Therapy**. In: *New Findings from Natural Substances* ed. Tiezzi *et al.* 2021.

### iii. Posters& Oral Talks:

1. Mohamed Ashour, Safaa Eid and Michael Wink. **Cytotoxicity of some traditional Chinese medicinal plants in HepG2 cells and inhibition of cytochrome P450 activity**. International symposium "Modernization of Traditional Chinese Medicine", May 14–16, 2009, Graz, Austria.
2. Ashour, M., El-Readi, M. and Wink, M. **Modulation of MDR in CEM/ARD 5000 cells by a novel lignan from *Bupleurum marginatum* (Apiaceae)**. 57<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant Research and Natural Product Research, August 16–20, 2009, Geneva, Switzerland.
3. El-Readi, M., Eid, S., Ashour, M., and Wink, M. **Inhibition of P-glycoprotein, Cytochrome P450, and Glutathione-S-transferase in Human Cancer Cells by *Polygonium cuspidatum***. 58<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant Research and Natural Product Research, August 29- 2 September, 2010, Berlin, Germany.
4. Kaufmann D, Ashour M. Tahrani A, Sporer F, Herrmann F, Timmermann T and Wink M. **Extracts from *Bupleurum marginatum* inhibit glycogen synthase kinase 3b**. Alzheimer Association International Conference July 16-21, 2011, Paris, France.
5. Noha Khalil, Mohamed Ashour, Abdel Nasser Singab, Osama M. Salama. **Chemical composition and biological activity of essential oils obtained from Yellow and Red Carrots cultivated in Egypt**. 24<sup>th</sup> international Congress of the Arab Society for Chemistry, April 6-11, 2012, Amman, Jordan
6. N.Z Mamadalieva, M.Z EI-Readi, E. Ovidi, Mohamed .L. Ashour, R. Hamoud, S.S. Sagdullaev, S. S. Azimova, A. Tiezzi, M. Wink. **Phytochemical investigation and *in vitro* biological activities of Uzbek medicinal plant, *Ajuga turkestanica***. 13<sup>th</sup> international Congress of the Society for Ethnopharmacology, September 2-6, 2012, Graz, Austria
7. Fadia S. Youssef, Mohamed L. Ashour, Abdel Nasser Singab. **Antibacterial and antifungal properties of *Eremophila maculata* leaves methanol extract**. 17<sup>th</sup>

scientific Congress of the Association of Pharmacy Colleges in the Arab World, October 14-16, 2014, Cairo, Egypt.

8. Ahmed M. Elissawy, Sherif S. Ebada, Mohamed L. Ashour, Abdel Nasser B. Singab. **Comparative chemical study of bioactive secondary metabolites isolated from marine invertebrates and their associated fungi**. 17<sup>th</sup> scientific Congress of the Association of Pharmacy Colleges in the Arab World, October 14-16, 2014, Cairo, Egypt.
9. Mohamed S. Elnaggar, Sherif S. Ebada, Mohamed L. Ashour, Abdel Nasser B. Singab. **Isolation and structure elucidation of bioactive secondary metabolites from marine organisms and associated endosymbionts**. 17<sup>th</sup> scientific Congress of the Association of Pharmacy Colleges in the Arab World, October 14-16, 2014, Cairo, Egypt.
10. Youssef, F., Ashour, M., El-Beshbishy, H. and Singab, A. **Antidiabetic activity of *Eremophila maculata* leaves methanol extract and its major secondary metabolites**. 63<sup>rd</sup> International Congress and Annual Meeting of the Society for Medicinal Plant Research and Natural Product Research, August 23–27, 2015, Budapest, Hungary.
11. Elnaggar, M., Liu, Z., Ebada, S., Ashour, M., Ebrahim, W., Singab, A., Proksch P. **New xanthone and sesquiterpene derivatives from *Scopulariopsis* sp., a marine-derived fungus isolated from the Red Sea hard coral *Stylophora* sp.** 63<sup>rd</sup> International Congress and Annual Meeting of the Society for Medicinal Plant Research and Natural Product Research, August 23–27, 2015, Budapest, Hungary.
12. Rola M. Labib, Fadia S. Youssef, Mohamed L. Ashour, Jennifer Bufalo, Samir A. Ross. **Chemical composition, and bioactivity of the essential oil of *Pinus roxburghii* bark**. 64<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant Research and Natural Product Research, July 24–27, 2016, Copenhagen, Denmark.
13. Ahmed M. Elissawy, Sherif S. Ebada, Mohamed L. Ashour, Ferhat C. Ozkaya, Weam Ebrahim, Mohamed S. ElNaggar, Peter Proksch, Abdelnasser Singab. **LC-MS profiling, isolation and identification of bioactive secondary metabolites from a marine-derived fungus *Arthrimum* sp.** 64<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant Research and Natural Product Research, July 24–27, 2016, Copenhagen, Denmark.
14. Noha Khalil, Mohamed Ashour, Sahar Fikry, Abdel Naser Singab, Osama Salama. **Chemical composition and antimicrobial activity of essential oils of selected Apiaceous plants growing in Egypt**. 64<sup>th</sup> International Congress and Annual Meeting of the Society for Medicinal Plant Research and Natural Product Research, July 24–27, 2016, Copenhagen, Denmark.
15. Mariam I. Gamal El-Din, Fadia Youssef, Mohamed Ashour, Omayma El-Dahshan, Abdel Nasser Singab. ***In-vitro* cytotoxicity of *Pachira aquatica* and *Pachira glabra* leaf extract**. 7<sup>th</sup> Annual International Ain Shams University Congress, April 2–5, 2018, Cairo, Egypt.



16. 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**. 7<sup>th</sup> Annual International Ain Shams University Congress, April 2–5, 2018, Cairo, Egypt.
17. Mariam I. Gamal El-Din, Fadia Youssef, Mohamed Ashour, Omayma El-Dahshan, Abdel Nasser Singab. **Comparative analysis of *Pachira glabra* and *Pachira aquatica* phenolic, flavonoid contents and volatile oil constituents**. 8<sup>th</sup> Annual International Ain Shams University Congress, April 1–4, 2019, Cairo, Egypt.

- **Journal Reviewer & Editorial Board:**

I have been reviewing for many prestigious journals like: Phytochemistry, Phytomedicine, Ethnopharmacology, Natural Product Research, Pharmaceutical Biology and many others.

I am a member of the editorial board of evidence based Complementary and Alternative Medicine

Most of these records are found in:

[Publons](#)

[Orcid](#)

[Elsevier Review](#)

- **Research Projects**

2013: Title: Cytotoxic secondary metabolites from marine organisms. Egyptian Academy of Scientific Research and Technology. (Principle investigator)

2018: Title: Drug discovery of new anti-infective and anticancer agents from marine organisms and their associated micro-organisms Egyptian Government (STDF) (Co-PI)

- **Honors and Awards**

2016: Post Doctor mission at Innsbruck University, Faculty of Biosciences, Innsbruck, Austria.

2012: GERSS Post Doctor mission at Heidelberg University, Faculty of Biosciences, Heidelberg, Germany awarded by DAAD Cairo.

2011-2020: Ain Shams University award for international publication.

### **C. Committees & Communities activities:**

- Member of National committee for Pharmacy and Drugs in Egypt 2018
- Member of academic affair, community services, library, international affairs committees in Egypt Faculty of Pharmacy, Ain Shams University 2010-2018
- Member of the organization committee for the 17<sup>th</sup> meeting of The Arab schools of Pharmacy held in Egypt and head of the fund raising committee
- Head of Crisis and Disasters unit in Faculty of Pharmacy, Ain Shams University Egypt 2011-2015
- Member of the Society for Medicinal Plant and Natural Product Research (GA).
- Member of the Italo-Latin American Society of Ethnomedicine.
- Member of the Egyptian Pharmaceutical Society.

**D. Accreditation activities:**

- Member of the steering committee for NQAAE accreditation responsible for standard 9 ( Community Services)
- Member of quality committee for NAQAAE accreditation responsible for preparation of course specs, portfolios, ILOs in ASU, Egypt

**E. Continuous Development workshops:**

- “Assessment Blueprint” held in March 2019
- “High Quality MCQs” held in December 2018
- “Course Specification” held in November 2018
- “Statistical Analysis using SPSS” held in February 2014 at ASU
- “Scientific Research ethics” held in February 2014 at ASU
- “Academic Reference Standards for Teaching” held in February 2012 at ASU
- “Time and Meetings Management” held in December 2010 at ASU