

Salmin K. Alshalmani PhD

Professor of Pharmacognosy

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GoogleScholar/ <https://scholar.google.com/citations> Samin Alshalmani



EDUCATION HISTORY:-

2011 PhD in Pharmacy, School of Biomedical Sciences, Nottingham University - UK.

1999 - Master Degree in Pharmacy- Ankara University- Ankara- Turkey.

1990 Bachelor in Pharmacy- Alfateh University- Tripoli- Libya.

WORK EXPERIENCE:-

- Demonstrator in Pharmacognosy Department – Faculty of Pharmacy-Al Arab Medical University – 1990-1995.
- Community Pharmacist from 1992 to 1996 and 2000 to 2005.
- Assistant lecturer in Pharmacognosy Department -Faculty of Pharmacy-Alarab Medical University 2000-2003.
- Head of Pharmacognosy Department 2001-2006 and from 2012- 2015 and From 2016- 2021.
- Lecturer in Pharmacognosy Department - Faculty of Pharmacy-Benghazi University - 2004-2013.
- Assistant Professor in Pharmacognosy Department - Faculty of Pharmacy-Benghazi University - 2014- 2018.
- Associate Professor in Pharmacognosy Department - Faculty of Pharmacy-Benghazi University - 2018- 2022.
- Professor in Pharmacognosy Department- Faculty of Pharmacy Benghazi University January 2022- up to date
- Vice-Dean of Faculty of Pharmacy –University of Benghazi August 2021- to date.

- Co-coordinator of Postgraduate program of Pharmacognosy Department in Postgraduate committee of Faculty of Pharmacy.
- Member of curriculum development committee of Faculty of Pharmacy.
- Principal Researcher of the Pharmaceutical and Research Consultations Center (PRCC), University of Benghazi, since 2012.
- Member of University research Centre committee (Representative of the Pharmaceutical and Research Consultations Center (PRCC))
- An Editor in the Mediterranean Journal of Pharmacy and Pharmaceutical Science.
- An Editor in the Libyan Journal of Pharmacy and Clinical Pharmacology LJCP.
- An Editor in the Journal of Science and its applications. JSA
- A Reviewer in the journal of Pharmacy and Pharmaceutical Sciences.
- A Reviewer in Journal of Pharmacognosy Research.
- A Reviewer in the Medical Scientific Journal of University of Benghazi
- A Reviewer in the Medical Scientific Journal of University of Zawia

SUPERVISION OF MASTER THESIS:

Antimicrobial and antioxidant activities of *Ephedra alata* grown in East of Libya (**Essam Fergani 2nd August 2020**)

Phytochemical screening, Antimicrobial antioxidant and antidiabetics activities of *Catharanthus roseus* plant cultivated in Libya (**Moatez Mohammed Eldrussi 3rd March 2022**)

Study the effect of curcuma longa extract on bacteria isolated from diabetic foot infection (**Entessar Dagari** in progress)

Phytochemical Screening, Antimicrobial, Cytotoxic and, Antioxidant Activities of *Eucalyptus leaves* Plant Cultivated in Libya (**Hana Daghari**)

Antimicrobial, Antioxidant and Anti-diabetic Activity of *Moringa Oleifera*. cultivated in Berga (*Magboula Ali Soliman- Libyan Academy*)

Evaluation of Antidepressant Effect of *Hypericum triquetrifolium Turra* Collected from Cyrene in Animal Model of Depression and Determination of Phenolic Content and invitro Antioxidant activity (Saad Muftah Messlaty)

Phytochemical Characterization and Bioactivity of *Ruscus aculeatus* L. Collected from Derna City; A Focus on Antioxidant, Cytotoxic, and Antimicrobial Activities (Najwa Salem Saeiti).

Determination of phenolic content, Investigation of invitro Anti-oxidant and Antidiabetics Activities in Experimental Animals of *Pluchea dioscoridis* plant Collected from Benghazi City (Jalila Mohamed AL khader).

TEACHING EXPERIENCE:

- Pharmacognosy Topics to undergraduate students in Faculty of Pharmacy Arab Medical University, Benghazi- Libya 2001-2006.
- Phytochemistry Topics to undergraduate students in Faculty of Pharmacy Arab Medical University, Benghazi- Libya 2001-2006.
- Pharmacognosy, Phytochemistry and Applied Pharmacognosy courses to undergraduate students in Faculty of Pharmacy Benghazi University, Benghazi-Libya 2011-2021
- Pharmacognosy, Phytochemistry and Applied Pharmacognosy Lab courses to undergraduate students in Faculty of Pharmacy, Benghazi University, Benghazi-Libya. 2011-2021.
- Teaching the Postgraduate students (Advanced Courses) Pharmacognosy Department- Faculty of Pharmacy- Tripoli University.
- Work as demonstrator at Biomedical Science university of Nottingham teaching labs for undergraduate student. 30/9/2017-31/5/2011.
- Member of the scientific committee in Libyan conference on chemistry and its application.2017-2018 and 2019.
- Member of the scientific committee in Corona Conference, the Challenges and the Expectation. University of Benghazi 29-31 January 2021.
- Head of Equivalence Committee at Benghazi University, Faculty of Pharmacy, Benghazi, Libya **2013- Now.**
- External Examiner for Master degree in Pharmacognosy department at faculty of pharmacy / Tripoli University Oct/2016- April 2020- 7/May/2025)
- Visitor Teacher for Pharmacy students Tripoli University 20-31/October/ 2016. 22/Jan – 13/Feb 2017
- Visitor Teacher for Pharmacy students Misurata University 6-14/January/ 2014.

- External Evaluator for Master program at Faculty of Veterinary Medicine/ Omar Al-Mokhtar University Feb 2019.

WORKSHOPS:

- Workshop on Course Specification at Faculty of Pharmacy University of Benghazi 2021
- Workshop in the quality assurance and the Libyan accreditation program for the Libyan Universities (January 2012) at Tibessti hotel halls, Benghazi, Libya.
- Workshop on Medicinal Plants and Their uses in Medicine Organized by Libyan German Scientific Council for Development and Integration. 30/7/2023
- Workshop on Preparation of Medicinal oils and their use in Cosmetics organized by Women`s Support and Empowerment Office at the University of Benghazi 2/8/2023

MEMBERSHIP IN SCIENTIFIC COMMITTEES & UNIONS:

- Membership in Libyan Union of Pharmacist Since 1990
- Membership in Association of the Arab Faculties of Pharmacy Since 2000
- Membership in Continues Medical Education Committee, Garyounis University since 2001.
- Membership in the American Society of Pharmacognosy
- Membership in Phytochemical society of Europe
- Membership in Society for Medicinal Plants and Natural Products Research
- Membership in the British Pharmacological Society.
- Membership in the World Academy of Science, Engineering and Technology Organization.
- Membership in Polyphenol & Health Group
- Membership in the Pan Arabian Research Society of Gynecological Oncology **PARSGO.**
- Membership in the Advanced Center for Plant Research and Complementary Medicine.

- Membership in Libyan German Scientific Council for Development and Integration.
- Member in Women`s Support and Empowerment Office at the University of Benghazi.

TRAINING PROGRAMS

- Spectral Absorption and Atomic Emission. 28th May-2nd June 1994. Garyounis University, Research center, Benghazi- Libya.
 - Applied Statistics for Postgraduates. October 1996-May 1997. University of Ankara, Turkey.
 - Extraction, Isolation and Identification of Bioactive constituents from Medicinal Plants. Faculty of Pharmacy- Ankara University-Turkey 1997.
 - Separation and Identification of Active compounds Using several Chromatographic Techniques (PC, TLC, PTLC, GC-MS, HPLC) Faculty of Pharmacy-Ankara University-Turkey 1998.
 - Tissue culture Techniques course at Research center at Menoufia University City of Sadat Egypt. September 2004
 - Training Course at the European Egyptian Pharmaceuticals Industry Egypt August 2004
 - Pre-sessional English course at Centre of English Language Education (CELE) Nottingham university graduated with degree equivalent to 7 ILETS. 24/09/2006-22/12/2006
 - Training course at AstraZeneca Company Huddersfield/ UK Sept 2009.

COMPUTER EXPERIENCE:

Operation, Windows, Power Point, Statistical Packages (EXCEL, SPSS, Kalighda graph, Prism).

Publications:

Aloriby M, Elkawafi M, Aldrsy S, Sweker M, Elabdeli H, Elbarghathi A, Benhasouna A, El-Awamie M, Elsharif N, Alqabbasi O, **Alshalmani S**, Algazal R and Bleiblo F (2025) Overall *In Vitro*, In Vivo, and In Silico Evaluation of *Olea europaea* and *Ficus carica* Extracts for Antimicrobial Activity Against Multidrug-Resistant Pathogens *Front.Microbiol* 16:1567921 <https://doi.org/10.3389/fmicb.2025.1567921>

Gargoum H. Ghazala O. Othmar, Abd-Elhakim A.G. Ali, Abdelnaser El-Zoki, Samah El-Ageli1, Aisha Alfituri, **SalmIn Alshalmani**, Modafra S. BenGlil, Ashraf H. Elbori, Abel Kader H. El-Debanai, Fathi M. Sherif and Awad G. Abdellatif (2022) A human study on the effect of Alhagi Maurorum (camel thorn) on patients suffering from hepatitis B virus. *Mediterr J Pharm Pharm Sci.* 2 (4): 39 - 47.

Salmin Alshalmani (2021) Phytochemical screening, antibacterial and anti-diabetic activities of *Moringa oleifera* cultivated in east region of Libya *Mediterr J Pharm Pharm Sci* 4(1): 54-58

- Abdullah Alamami, Fatma Elshibani, **Salmin Alshalmani**, Mohamed Ali Sharkasi, Naema Elremali, Areej Daboub (2021). High-performance Liquid Chromatography Analysis and Antimicrobial Activities of Libyan *Cistus salviifolius* Extract *Journal of Pharmaceutical Research International* 33(56A):32-40

Salmin Alshalmani, Mudafara Bengleil and Fatma Elshibani (2020) Determination of Phenolic, Flavonoid, Antioxidant and Antibacterial activities of *Mesembryanthemum crystallinum* from Libyan Coast. *International journal of Engineering Applied Sciences and Technology IJEAST* October 2020: Volume 5, Issue 6, 122-127 ISSN 2455-2143.

Fatma Elshibani **Salmin Alshalmani**, and Hamdoon A. Mohammed (2020) *Pituranthus tortuosus* Essential Oil from Libya. *Journal of Essential Oils Bearing Plants: Volume 23, Issue 5, 1095-1104.*

Mudafara Bengleil **Salmin Alshalmani**, Fatma Elshibani, Ghada Fallah (2020) Phytochemical, Pharmacological study on east Libyan originated *Globularia alypum*. *Global Scientific Journal GSJ: Volume 8, Issue 8, August 2020 ISSN 2320-9186.*

Fatma Elshibani, Abdullah Alamami, **Salmin Alshalmani**, Esra A El Naili, Hala A Gehawe, Mohamed Ali Sharkasi and Naema Elremali (2020). Estimation of phenolic content, flavonoid content, antioxidant properties and alpha-amylase inhibitory activities of *Capparis spinosa* L. *Journal of Pharmacognosy and Phytochemistry* 2020; 9(2): 24-28

Salmin Alshalmani, Mudafara Bengleil Fatma Elshibani, (2020) Antimicrobial, antioxidant and anticancer activity of *Ephedra alata* growing in East of Libya. *Libyan Journal of Science & Technology* 11:2 (2020) 87-90.

Salmin Alshalmani, Fatma Elshibani, Mudafara Bengleil Abdullah Alamami and Saad Messlaty (2019) **Investigation and Antibacterial Activity of Libyan Macroalgae *Ulva fasciata*** Libyan conference on Chemistry and Its Applications (LCCA-3) 1:1(2019) 48-51

Salmin Alshalmani, Fatma Elshibani, Mudafara Bengleil (2019) **Phytochemical Screening, Antimicrobial and Cytotoxic Investigation of *Cistus salvifolius* L. Growing in East of Libya.** In 3rd Libyan conference on Chemistry and Its Applications LCCA-3 held on 7-8 September Benghazi-Libya.

Salmin Alshalmani, & Mudafara Bengleil (2017) Phytochemical screening, antimicrobial and antioxidant Activity of East Libyan Originated *Mesembryanthemum crystallinum*. In 2nd Libyan conference on Chemistry and Its Applications LCCA-2 held on 9-11 May Benghazi-Libya.

Salmin Alshalmani, (2017) Phytochemical Investigation, Antimicrobial and Antioxidant Studies on *Cappris spinosa* growing in Northeast of Libya In 2nd Libyan conference on Chemistry and Its Applications LCCA-2 held on 9-11 May Benghazi-Libya.

Salmin Alshalmani, (2017) Phytochemical Investigation, Pharmacognostical and Phytochemical Investigation, Antimicrobial and Antioxidant Studies on *Ephedra alata* growing in East of Libya In 2nd Libyan conference on Chemistry and Its Applications LCCA-2 held on 9-11 May Benghazi- Libya.

Salmin Alshalmani, & Ayman Abdelgader (2017) Promising candidate as anticancer drug obtained from marine source A review. In 2nd Libyan conference on Chemistry and Its Applications LCCA-2 held on 9-11 May Benghazi- Libya.

Omar M. M. Sabry , Abeer M. El Sayed and **Salmin K. Alshalmani**. (2016). GC/MS Analysis and Potential Cytotoxic Activity of *Haplophyllum tuberculatum* Essential Oils Against Lung and Liver Cancer Cells *Pharmacognosy Journal*, Vol 8, Issue 1, 66-70.

Alshalmani SK, Zobi NH and Bozakouk IH: Antibacterial Activity of Libyan Seaweed Extracts. *Int J Pharm Sci Res* 2014; 5(12): 5425-29.

Mohammed, H. A., **Elshalmany, S. K.**, Belkhaer, A., & Abdellatif, A. G. (2014). Phytochemical and Antioxidant Screening of *Suaeda vera* L. growing in Libya. *International Journal for Pharmaceutical Research Scholars*, 3(2), 891-896.

Awad G Abdellatif, Huda M Gargoum, Abdelkader A Debani, Mudafara Bengeil, **Salmin Alshalmani**, N El Zuki and Omran El Fitouri. Camel Thorn Has Hepatoprotective Activity against Carbon Tetrachloride or Acetaminophen Induced Hepatotoxicity, but Enhances the Cardiac Toxicity of Adriamycin in Rodents. *International Journal of Medical, Pharmaceutical Science and Engineering* 2014 Vol: 8 No: 2, 1-5.

Sami G. Alsabri, Mohamed AM. Ebsaim, Sofian S. Mohamed, Nawal HM. Omer, Nesrin S. Ghnan, Salem A. M Edawdi, **Salmin K. Al-Shalmani**, Jamal Mezogi Antiulcer property of Libyan *Helianthemum kahiricum* plant . *Journal of Pharmacognosy and Phytochemistry* **2014**; 2 (5): 80-84

Huda M. Gargoum, Saleh Saeed Muftah, **Salmin Alshalmani**, AbdNaser Zoki, Abdelkader H. Debani, Farag Elshari, Hamdoon A. Mohammed, Awad Abdellatif. Phytochemical Screening of *Alhagi maurorum* extract and its effects on Carbon tetrachloride, Acetaminophene and Adriamycine toxicity in experimental animals. *Journal of Scientific and Innovative Research*. **2013**, Vol2 issue 6.

Salmin Al-Shalmani, Abir Kholgi, Abdelkader H. Debani ,Awad Abdellatif. Toxicological and Pharmacological studies on *Pituranthus turtusos* in rodents (December 2013) e Poster at International conference on Toxicology. Bangkok Thailand 24-25 Dec 2013.

Hamdoon A. Mohammed, **Salmin K. Alshalmani** and Awad Giumma Abdellatif, "Antioxidant and quantitative estimation of phenolic and flavonoids of three halophytic plants growing in Libya" *Journal of Pharmacognosy and Phytochemistry* **2013**, 2 (3): 89-94

Salmin Al-Shalmani, Sunita Suri, Moira Taylor, P Kroon, D Hughes, S Triboli, Vincent Wilson. Quercetin and Its principal metabolites, but not Myricetin, oppose LPS-induced hyporesponsiveness of porcine isolated coronary artery. *Br J Pharmacol* **162(7)**, 1485-1497.

S Al-Shalmani, S Chinniah, R Mahajan and V. Wilson (2009). Pre-treatment with simvastatin prevents LPS-induced hyporesponsiveness of porcine isolated coronary artery. *Critical Care*; 13(Suppl 4):P46.

S Al-Shalmani, S Chinnah, R Mahajan, and V. Wilson (2009). Evidence that simvastatin prevents induction of nitric oxide synthase by LPS in the porcine isolated coronary artery. *Critical Care*; 13(Suppl 4): P45.

Salmin Al-Shalmani, Sunita Suri, Moira Taylor, P Kroon, D Hughes, S Triboli, Vincent Wilson (2008). Quercetin prevents LPS-induced hyporesponsiveness of vascular responses of the porcine isolated coronary artery. *British Society of Pharmacology Winter Meeting* December 16-18th2008.

Salmin Al-Shalmani, Sunita Suri, Moira Taylor, P Kroon, D Hughes, Vincent Wilson, S Triboli. Myricetin antagonises the anti-inflammatory effect of quercetin in the porcine isolated coronary artery at 4th International conference on Polyphenols and Health ICPH 2009 Harrogate-UK.

Salmin Al-Shalmani, Sunita Suri, Moira Taylor, P Kroon, D Hughes, Vincent Wilson, S Triboli Quercetin inhibits lipopolysaccharide-induced nitric oxide production in porcine coronary artery 4th International conference on Polyphenols and Health ICPH 2009 Harrogate-UK.

Alshalmani, S., Bensoud, A. and Jasem, A. (2005) 'Effect of Green tea extract on lung cancer'. In: "*The Fifth National Pharmaceutical Science Conference*". Held April 22-24 at Garyounis University. Benghazi: Garyounis University Press.

Salmin Al-Shalmani, Moira Taylor, P Kroon, D Hughes, and Vincent Wilson. (2012) Epicatechin inhibits Lipopolysaccharide induced hyporesponsiveness and Nitric oxide production in the porcine coronary artery. Poster at *The 14th Annual Congress of the scientific Association of Colleges of Pharmacy in the Arab World*, held at AUST. Ajman, UAE February 7th -9th 2012.

Sabry O. M. M., **Alshalmani, S. K.** and Hifnawy, M. S. Detection of counterfeiting Garlic Capsules Extracts With Atorvastatin Using UPLC/MS/MS and NMR Spectroscopy. A Case Report *Submitted to Advances in Life Sciences and Technology* ISSN 2224-7181 (Paper) ; ISSN 2225-062X (Online)

GC-MS Analysis of fennel and dill oils and their anti-bacterial activities. *In press*

Cytoprotective effect of curcuma extract against nitrofurantoin toxicity and urethane induced carcinogenicity in mice. *In press*.

Also in progress:

- Research on the hypoglycemic effects of *Ulva lectuca* originated from east of Libya

- Research on the hypoglycemic activities of *Lycium shawii* leaves originated from Libya.
- Study on the antimicrobial activities of clove oil.
- Review on promising candidates as anticancer drugs obtained from marine source.
- Phytochemical investigation on *Capris spinose* and its antioxidant and antimicrobial activities.
- A review of Natural health products treatment for vitiligo.
- A Review on Neuroprotective effects of Marine Algae
- Phytochemical screening, antimicrobial and antioxidant activities of *Artemisia herba-alba*.
- Phytochemical screening, antimicrobial and antioxidant activities of *Ruscus aculeatus*.
- Phytochemical investigation, antimicrobial and Hypotension activity of Olive leaves (2022-2023)

RESEARCH INTERESTS

- Isolation and Structure Elucidation of Secondary Metabolites From Natural Sources “Terrestrial Plants And Marine Organisms” With Important Biological Properties Such As Anticancer, Antimicrobial, Anti-inflammatory and Antiviral Activities Using Different Advanced Chromatographic and Spectroscopic Techniques.
- Running biological and pharmacological screening for chemical, natural and semi-synthetic compounds.
- Formulation of natural products as complementary and alternative medicine.
- Development of New Drugs from Marine Organisms originated from Eastern Libyan coast to Treat Lung, Colon and Breast Cancer.

OTHER ACTIVITIES:-

- Present a TV programme in Libyan TV titled "Back to the Nature" concerning the Traditional use of herbs as Medicines.

- Supervision the graduation projects for Fourth Year Students- Faculty of Pharmacy-
 - Effect of *Ceratonia Siliqua* (Carob) as a hypoglycemic and hypo-cholesterol agent (2006)
 - Antihepatotoxicity Effects of *Alhagi Graecorum* (Camel Thorn). (2006)
 - Determination of the essential oil of *Ocimum Basilicum* by GC-MS (2006)
 - Antibacterial effects of *Ocimum basilicum* oil (2006).
 - Anti-hepatotoxicity effects of Aqueous extract of *Cynara* leaves. (2006)
 - Chemical composition and antimicrobial of the essential oils of *Salvia fruticosa*.
 - Hypoglycemic effects of *Ocimum basilicum* herb.
 - Review on Recent Advances in treatment of depression
 - Study and evaluation three types of Honey (Thymus, Ziziphus & Citrus).
 - GC-MS Analysis of thymus volatile oil.
 - Antibacterial activity of *Thymus vulgaris* originated from east of Libya.
 - A review on Libyan medicinal Plants has anticancer constituents.
 - Research on histological structure, chemical composition and pharmacological activities of Aloe vera.

LANGUAGES:

- ARABIC
- ENGLISH
- TURKISH

REFERENCES:

Associate Prof. Vincent Wilson

Associate Professor and Reader in Autonomic Pharmacology, Faculty of Medicine & Health Sciences

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