



## Dr. Mohammed Sohail Akhtar

Associate Professor and Assistant Dean Research

*School of Pharmacy...*

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Time at UoN: Since 2009

**Teaching Philosophy:** Always my goal is to teach students in easy and simple language for better understanding, of the knowledge and its application in their future carriers. During teaching-learning process I utilized modern technology such as power point to enhance learning. I also engage the learners in lab sessions, small-group discussions and assignments. I tried to give theoretical as well as practical knowledge to the students in easiest method. In addition, I encourage them not to depend on the class notes and develop habit to read books. I always endeavor to instill the habit of self-upgrading by engaging students in activity that needs regular visit to the library and internet for retrieving relevant information to the subject. I employ short answer quizzes, assignments, projects and presentations to assess student learning.

**Position:** Assistant Professor and Assistant Dean Research

### **Qualification:**

**Bachelor of Pharmacy** from Jamia Hamdard, Faculty of Pharmacy, New Delhi. India.

**Master of Pharmacy in Pharmacognosy and Phytochemistry** from Jamia Hamdard, Faculty of Pharmacy, New Delhi. India.

**Ph.D in Pharmacognosy and Phytochemistry** from Jamia Hamdard, Faculty of Pharmacy, New Delhi. India.

**Area of Specialization:** Pharmacognosy & Phytochemistry

**Research interests:**

**Extraction, isolation and purification of medicinal plants, Pharmacognostical studies of medicinal plants, Pharmacological and Phytochemical screening, Evaluation and quality control of herbal medicinal products, Isolation and Analysis of volatile oils.**

Brief description of research expertise and research interests:

Bioactivity guided isolation of medicinal plants. Phytochemical investigation and Analysis of volatile oils. Standardization of herbal drugs, screening the plants for various bioactivities. My current research objective has been focused on phytochemical research concentrates on native Omani traditional medicinal plants, their active constituents and potential for use in industry and medicine. Pharmacological screenings like Antimicrobial, Antioxidant, Antifungal and Cytotoxic studies of traditional medicinal plants.

**Award:** FURAP PROJECT titled “Phytochemical investigation, standardization and antibacterial activity of Miswak (*Salvadora persica*) grown in different geographical regions of Oman “selected as winning project and award of **500 RO, trophy and certificate** was given by Oman Research Council TRC on Oct 10, 2015.

### **Academic Qualifications**

PhD (Pharmacognosy& Phytochemistry), Jamia Hamdard, 2008

M.pharma(Pharmacognosy & Phytochemistry), Jamia Hamdard, , 2004

B.Pharma, Jamia Hamdard , 2002

### **Teaching Activities**

Pharmacognosy, History definition of Pharmacognosy, types of crude drugs and its different

classifications. Cultivation, collection and processing and storage of medicinal plants. Analysis of the crude drugs, method of drug evaluation for checking adulteration and phytochemical investigation of crude drugs. Study of carbohydrates and phenolic compounds., 2009

Phytochemistry, Spring 2010 to Fall 2011-12

Advanced Phytotherapy, Definition and advantages and disadvantages of Phytotherapy. Natural products proven effective for the treatment of respiratory, CNS, GIT, Infectious, musculo-skeletal, cancer, skin, CV diseases. And natural products proved effective for improving immunity., 2009 to till now.

## **Research Activities**

### **- Research Interests**

Bioactivity guided isolation of medicinal plants. Phytochemical investigation and Analysis of volatile oils. Standardization of herbal drugs, screening the plants for various bioactivities. My current research objective has been focused on phytochemical research concentrates on native Omani traditional medicinal plants, their active constituents and potential for use in industry and medicine. Pharmacological screenings like Antimicrobial, Antioxidant, Antifungal and Cytotoxic studies of traditional medicinal plants. Formulation and evaluation of herbal preparations like shampoo, cream, lotion etc.

### **- Publications**

#### **Article:**

1. Antimicrobial, Antioxidant and Cytotoxic Activity of *Maytenus dhofarensis* growing in Oman., Afaf Mohd Weli, Rahma Salim Al-Burtamani, Maryam Sinan Al-Azzawi, Md. Sohail Akhtar and Sadri Abdullah Said. *Journal of Applied Sciences*, 2019,19(3): 229-234.
2. Phytochemical investigation, cytotoxicity, antibacterial and anti-oxidant activity of *Olea europea* fruits grown in Oman. , Md. Sohail Akhtar\*, Sumaiya Darwesh Al-Balushi and Maryam Muhanna Saif Awladthani. *European Journal of Biomedical and Pharmaceutical sciences*, 2018, Volume 5, Issue 11: 98-102.
3. Isolation and characterization of antimicrobial compound from the stem-bark of the traditionally used medicinal plant *Adenium obesum*., Mohammed Sohail Akhtar, Mohammad Amzad Hossain\*, Sadri Abdullah Said; *Journal of Traditional and Complementary Medicine*, (2017); 7:296-300.

4. In vitro Anticancer Activity of Selected Medicinal Plants from Oman. , Sadri Abdullah Said<sup>1\*</sup>, Yahya Tamimi, Md. Sohail Akhtar, Afaf Mohd Weli, Suleiman Said Al-Khanjari and Qassim Ahmed Al-Riyami. British Journal of Pharmaceutical Research 15(5): 1-8, 2017.
5. Two new flavonoids from *Adenium obesum* growing in Oman., Mohammad Amzad Hossain \*, Md. Sohail Akhtar, Sadri Said, Tahiya Hilal Ali. Journal of King Saud University, (2017)29, 62-69.
6. Comparative in-vitro evaluation of *Vitex leucoxyloides* Linn bark for antioxidant activity, , Akhtar Md S, Shukla Padmini, Shakula Prabodh, Shashi Alok, Mahor Alok. International journal of Pharmaceutical Sciences and Research, 1(1). 2010, 27-33.
7. Cytotoxic, Antimicrobial and Anti-oxidant Screening of *Psidium Guajava* Leaves Grown in Oman., Afaf M Weli\*, Amna Al-Kaabi, Sadri Said, Amzad Hossain, Md. Sohail Akhtar, Ahlam Al-Abri and Qasim Al-Riyami . Global Journal of Pharmacy & Pharmaceutical Sciences, 2017; 1(2) : 555557. DOI: 10.19080/GJPPS.2017.01.555557
8. New chromone derivatives from *Evolvulus alsinoides* Linn. Aerial parts.`, Md. Sohail Akhtar, Raad A. Kaskoos, Showkat Rasool Mir and Mohammed Ali, Journal of Saudi Chemical Society. (2009) 13, 191-194.
9. Phytochemical investigation and antioxidant activity of *Cymbopogon citratus* leaves grown in Oman, , Md Sohail Akhtar\* and Samar Sami AL-Qadim Bait Ambrok. IJPSR Conference Proceeding; 2015: 43.
10. A comparison of the antimicrobial effectiveness of different polarities crude extracts from the leaves of *Adenium obesum* used in Omani traditional medicine for the treatment of microbial infections,, Mohammad Amzad Hossain, Amira Hamood Salim Al-Musalami, Mohammad Sohail Akhtar, Sadri Said, Asian Pacific Journal of Tropical Disease, 2014; 4( 2) : S934-S937
11. Evaluation of different extraction methods on antimicrobial potency of *Adenium obesum* stem against food borne pathogenic bacterial strains in Oman, Mohammad Amzad Hossain\*, Tahiya Hilal Ali Al-Abri, Amira Hamood Salim Al-Musalami, Md. Sohail Akhtar, Sadri Said. Asian Pacific Journal of Tropical Disease, 2014; 4(Suppl 2): S985-S989.
12. Evaluation of in vitro antioxidant potential of different polarities stem crude extracts by different extraction methods of *Adenium obesum*; , Mohammad Amzad Hossain, Tahiya Hilal Ali Alabri, Amira hamood Salim Al Musalami, Md Sohail Akhtar, Sadri Said, Journal of coastal life medicine, 2014; 2(9):699-703.
13. Phytochemical Screening, Antibacterial and Cytotoxic Activities of *Petroselinum crispum* Leaves Grown in Oman., Al Marwah Hamood Alhaadi, Samia Saleem Al Rahbi, Md Sohail Akhtar ,Sadri Abdullah Sayeed, Afaf Mohammed Weli, Qasim Al Riyami. Accepted for

publication in the Iranian Journal of Pharmaceutical Sciences. 2013 ; 9 (1): 61-65  
(Correspondence Author: Md Sohail Akhtar).

14. Antibacterial and cytotoxic activities of *Thymus vulgaris* leaves grown in oman, , Aisha Haroon Al- Balushi, Maryam Aljabri, Md Sohail Akhtar\*, Sadri Said, Afaf Weli, Qasim Al-Riyami, Ahlam A. AlAbri, 2013 Vol. 4, Issue 11:4253 – 4257

15. Chemical Composition of Volatile Oil of *Lantana indica* Roxb. Leaves. , Md. Sohail Akhtar, M.Ali, Madhurima and S.R. Mir; Journal of Essential Oil Research, 2006 18(6): 611-612.

16. Anthraquinones from *Rubia cordifolia* roots., Md. Sohail Akhtar, M. Ali, Madhurima S.R. Mir, Onkar Singh. Indian Journal of Chemistry.2006, vol 45B (8), pp 1945

17. Standardization and antibacterial activityof *Salvadora persica* roots grown in salalah region, Haneen salim Al-weshahi, Md Sohail Akhtar and Kothar Zahran Khamis Al-Bahri, IJPSR Conference Proceeding; 2015: 42.

18. Chemical Composition of Essential Oil of *Tecurium mascatenses* Bois grown in Oman, Afaf Mohammed Welia, , Dina Selima, Mohammad Sohail Akhtara , Jamal Nasser Al-Sabahib , Qasim Al-Riyamia , Rasha Khamis Saif Al-Wahibia , Marwa Mubarak AL Oraimi, Suliman Al-Khanjaric , Journal Of Essential bearing oil plants, July-August issue of JEOBP 2012.

19. In vitro Antioxidant, Cytotoxic and Antibacterial Screening of the leaves of *Acridocarpous orientalis*, Native to Sultanate of Oman, Ahlam Al-Abri1, Hazaa Al-Maqbali, Afaf Weli\*Sadri Said,Amzad Hossain and Md. Sohail Akhtar, British Journal of Pharmaceutical Research, 3(4): 734-742, 2013.

20. Antimicrobial, antioxidant and cytotoxic activities of *Anogeissus dhofarica* from Oman., Abeer j. al-noumani, Maryam Z.J. al-Qasmi, Asila s.a. al-shabibi, Salem A.I. al-Mashani, Ahlam a. Alabri, Md. Sohail Akhtar, Afaf M. Weli, Qassim A. al-Riyami, Sadri a. said\* International Journal of Recent Advances in Pharmaceutical Research, July 2013; 3(3): 35-38.

21. Cytotoxic properties of some herbal plants in Oman., Sadri A. Said, Sheikha Hamed Ali Al-Saadi, Ahlam R. Al-Abri, Md. Sohail Akhtar, Afaf M. Weli, Qassim Al-Riyami. Journal of Taibah University for Science 8 (2014) 71-74.

22. Essential oil composition and antimicrobial screening of *Launaea nudicaulis* grown in Oman, , Jamila A. Al-Mahrezi , Jamal Nasser Al-Sabahi , Mohammed Sohail Akhtar , Dina Selim and Afaf Mohammed Weli\*, IJPSR, 2011; Vol. 2(12): 3166-3169.

23. Phytochemical investigations and antimicrobial screening of *Coleus Aromaticus* grown in Oman, , Afaf Mohammed Welia, \* , Dina Selima, Mohammad Sohail Akhtara , Jamal Nasser Al-Sabahib , Suliman Al-Khanjaric , Qasim Al-Riyamia , Zakia Mubarak Al-Sulimia ,

Samera Suliman Adi Al-Salmania , Basema Obaida ,Electronic Journal of Environmental, Agricultural and Food Chemistry (EJEAFChe). 2011, 10(11), 3083-3090.

24. Pharmacognostic and phytochemical analysis of *Gymnema Sylvestre* R. (BR.) leaves. , Madhurima, S.H. Ansari, Prawez Alam, Sayeed Ahmad, and Md. Sohail Akhtar.. Journal of Herbal Medicine and Toxicology 3 (1) 73-80 (2009).

25. Pharmacognostic evaluation of *Calendula officinalis* flowers. , Madhurima, S.H. Ansari, Mohd Ali, Prawez Alam, Md. Sohail Akhtar, Sayeed Ahmad. Natural Products an Indian Journal, 3(3), 2007, 182-186.

26. Essential Oil composition of the fruits of *Elettaria cardamomum*., Raad A. Kaskoos, Mohd Ali, Reni Kapoor, Madhurima, Md. Sohail Akhtar and Showkat R.Mir, Journal of essential oil bearing plants, 9 (1), 2006, pp 81-84.

27. Composition of volatile oil of *Syzygium aromaticum* buds, Reni Kapoor, M. Ali, Md. Sohail Akhtar, Raad A. Kaskoos, Abdul W. Siddiqui, S.R. Mir, Journal of Essential Oil Bearing Plants (Journal of essential oil bearing plant 8(2). 2005 pp196-199.

### **Faculty Administrative Experience**

2014 - Present: Assistant Dean Graduate studies and Research - College of Pharmacy and Nursing, University of Nizwa

*Research grants from TRC, Undergraduate research grants for students,*

### **Membership in Professional Bodies**

2009-Present: Life time member of Indian Pharmacy Graduate Association, membership number: 3409.

2004-Present: Life time member of Indian Society of Analytical Scientist, membership number: LM 2013.

2004-Present: Life time member of Association of Pharmacy Teachers in India, membership number: HA/LM-094.

### **Award and Recognitions**

2015 The FURAP Research Award, Oct 10, 2015. An amount of 500 RO, trophy and certificate was given

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