



SALMAN AHMED

Assistant Professor (BPS-19)

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LiveDNA: [92.11143](https://livedna.com/92.11143)

Dr. Salman Ahmed is an established academician and researcher in Pharmacognosy with over two decades of experience in teaching, research, and academic service. He is currently serving as **Assistant Professor (BPS-19)** in the Department of Pharmacognosy, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi. His academic profile demonstrates sustained research productivity, a clearly defined area of specialization, postgraduate supervision experience, continuous research funding, and active involvement in academic governance, **fulfilling HEC criteria for Professor promotion.**

Teaching and Curriculum Contribution

With extensive teaching experience in Pharmacognosy and Allied Pharmaceutical Sciences, he has contributed to curriculum delivery and development in undergraduate and postgraduate programs. His academic background, combined with prior pharmaceutical industry experience (Helix Pharma, PharmEvo and Searle Pharmaceuticals Pakistan Ltd), enables effective integration of theoretical knowledge with applied and translational perspectives, strengthening Pharm.D and postgraduate education.

Academic Service and Governance

Dr. Ahmed has made substantial contributions to academic governance through membership in Boards of Studies, Boards of Faculty, Quality Enhancement Cell activities, research committees, and internship coordination committees. He also serves as an invited reviewer for over 40 international journals (Elsevier, Springer, MDPI, Frontiers), contributing to research quality assurance and scholarly standards at national and international levels.



Capacity for Professor-Level Research Leadership

With established methodologies, a clear area of specialization, sustained publication productivity, and postgraduate supervision experience, Dr. Ahmed demonstrates readiness for senior academic rank. As Professor, he will lead larger research teams, supervise doctoral candidates, and contribute to national research capacity building in Pharmacognosy and pharmaceutical sciences.

National and Institutional Relevance

The candidate's research directly addresses diseases of national importance, particularly urolithiasis and chronic inflammatory conditions. His work strengthens evidence-based Pharmacognosy, supports rational use of medicinal plants, and enhances the research visibility of the University of Karachi. His promotion to Professor will further strengthen postgraduate training, research leadership, and institutional academic standing.

Research Experience / Research Contribution

Area(s) of Specialization

Pharmacognosy; Antiurolithiatic Pharmacognosy; Mechanistic Evaluation of Medicinal Plants; Natural Product–Based Cancer Pharmacology; Crystal Growth Inhibition Models; Oxidative Stress and Inflammatory Pathways.

Research Overview

His research focuses on mechanistic Pharmacognosy, with emphasis on the scientific validation of medicinal plants and natural products for chronic and high-burden diseases. Over more than two decades, he has developed an independent and coherent research program integrating Natural Product Chemistry, Experimental Pharmacology, crystal growth inhibition techniques, and molecular disease mechanisms. His work emphasizes mechanism-based investigation rather than descriptive bioactivity screening, contributing to evidence-based Pharmacognosy and translational relevance. His studies are designed to elucidate how natural products interact with biological systems at physicochemical, cellular, and molecular levels, thereby addressing a longstanding gap in ethnopharmacology and Pharmacognosy research. This orientation has allowed his work to move beyond cataloguing traditional uses toward generating evidence that supports rational therapeutic development.

Antiurolithiatic Pharmacognosy and Crystal Growth Inhibition (Core Specialization)

His primary and sustained area of research specialization is Antiurolithiatic Pharmacognosy. He has developed and applied reproducible *in vitro* crystal growth inhibition models, particularly using brushite and calcium oxalate systems, to evaluate



medicinal plants traditionally used in kidney stone disease. Kidney stone disease represents a significant public health burden in Pakistan and other regions, yet traditional therapies have historically lacked rigorous experimental validation. These studies integrate crystal mass reduction assays, morphological analysis, and elemental composition to elucidate mechanisms of crystal nucleation, growth, and aggregation inhibition. These studies provide mechanistic explanations for traditional antiurolithiatic claims and represent a coherent body of work characterized by continuity, originality, and national relevance. This area constitutes as primary field of specialization and distinguishes him academic profile within Pharmacognosy.

Antiemetic Research Contribution

Dr. Ahmed research includes focused contributions to the pharmacological evaluation of **antiemetic activity of medicinal plants and natural products**, providing scientific validation of traditional remedies used for nausea and vomiting. Using established experimental approaches, this work explores the modulation of emesis-related pathways, integrating phytochemical evidence with mechanistic pharmacology. These studies contribute to evidence-based Pharmacognosy and support the rational use of natural products in gastrointestinal disorders. Importantly, his antiemetic research has relevance to **oncology supportive care**, where plant-derived agents may complement conventional therapies in managing treatment-associated nausea, thereby improving patient tolerance and therapeutic outcomes.

Mechanistic Evaluation of Medicinal Plants in Chronic Diseases

Complementing his antiurolithiatic research, I have conducted extensive mechanistic investigations into the pharmacological effects of plant-derived compounds in chronic inflammatory, metabolic, and degenerative diseases. His work explores how flavonoids, phenolics, alkaloids, and related phytochemicals modulate oxidative stress, inflammatory mediators, and intracellular signaling pathways such as NF- κ B, MAPK, and PI3K/Akt.

By employing validated experimental models and pathway-level analysis, His research provides molecular justification for the therapeutic effects of medicinal plants traditionally used in inflammatory disorders, arthritis, metabolic dysfunction, and neurodegeneration. This theme reflects a consistent methodological philosophy-mechanism-oriented pharmacognosy rather than isolated or opportunistic investigations, thereby contributing to a unified research trajectory.

Natural and Marine-Derived Bioactives in Cancer Pharmacology

Dr. Ahmed research program has further expanded into cancer pharmacology, with particular emphasis on plant- and marine-derived bioactive compounds as modulators of cancer cell survival and death pathways. Through national and international collaborations, I have investigated hematological malignancies and solid tumors, including glioblastoma, leukemia, melanoma, and lymphoma.



These studies examine apoptosis, oxidative stress regulation, cell cycle arrest, and emerging mechanisms such as ferroptosis, positioning natural products within contemporary molecular oncology frameworks. His contributions in this area emphasize conceptual integration linking redox biology, metabolic vulnerability, and programmed cell death rather than isolated cytotoxicity screening. This work enhances the translational relevance of Pharmacognosy and aligns with global trends toward precision natural product therapeutics.

Scholarly Output, Supervision, and Academic Contribution

Collectively, his research program has resulted in over 125 peer-reviewed publications in HEC-recognized and internationally indexed journals, achieving an h-index of 24 and a cumulative journal impact factor exceeding 100. In addition to original research articles, I have authored and co-authored scholarly books and book chapters, contributing to knowledge dissemination in Pharmacognosy and Ethno pharmacology.

I have successfully supervised multiple M.Phil. research scholars, providing mentorship in experimental design, data interpretation, scientific writing, and ethical research conduct. His sustained publication record, combined with postgraduate supervision and continuous research funding through competitive institutional grants, demonstrates research independence and leadership readiness.

Future Research Direction

As Professor, his future research will focus on consolidating established areas into larger, multidisciplinary research initiatives. Future priorities include advanced biomineralization and crystal inhibition models for renal disorders, precision natural product research targeting oxidative stress and ferroptosis in cancer, and translational studies integrating formulation development and preclinical validation.. With established methodologies, a clearly defined specialization, and international collaborations, I am positioned to lead impactful research programs aligned with national priorities and global scientific advancement.

Overall Assessment

Based on sustained research productivity, a clearly defined area of specialization, postgraduate supervision, continuous research funding, academic service, and national relevance, Dr. Salman Ahmed fully meets and exceeds the HEC criteria for promotion to the rank of Professor of Pharmacognosy. His academic trajectory demonstrates readiness to assume senior leadership in research, teaching, and mentorship, and his promotion is strongly recommended in the interest of institutional and national academic advancement.



Appendix of Complete Detail

ACADEMIC QUALIFICATIONS

- **Ph.D.**, (Pharmacognosy), PCD No. 18956; C.GPR = 3.83; University of Karachi (2019).
Thesis title: *In vitro* antiurolithiatic activity in genus *Macrotyloma* and *Phaseolus*.
- **M.Phil.**, (Pharmacognosy), C.GPR = 3.80; University of Karachi (2010).
Thesis title: Chemical and biological studies on some species of genus *Cordia*.
- **B.Pharm.** C.GPR = 3.15; University of Karachi (2004).
- **D.H.M.S.**, Mohammadi Homoeopathic Medical College, Malir, Karachi, (2010).
- **H.S.S.C.** 1st Division, B-Grade; Govt Science College Malir Cantt, Karachi (1997).
- **S.S.C.** 1st Division, A-1 Grade; Govt Boys Secondary School # 02, Karachi (1995).

CURRENT STATUS

- Assistant Professor (BPS-19) Department of Pharmacognosy, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi from 07-06-2016 to date.

PROFESSIONAL EXPERIENCE

- **2013 - 2016**
As a Lecturer in (BPS-18) Department of Pharmacognosy, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi from 21-01-2013 to 06-06-2016.
- **2005 - 2009**
As an Officer Production Searle Pharmaceuticals Pakistan Ltd. in Solid manufacturing area from 04-04-2005 to 09-10-2009.
- **2005 - 2004**
Management Trainee as Granulation Technician from 16-12-2004 to 15-03-2005 in Searle Pharmaceuticals Pakistan Ltd.
Management Trainee as Q.A. Inspector in PharmEvo (Pvt.) Ltd. from 17-09-2004 to 10-12-2004.
Internship in Helix Pharma (Pvt.) Ltd from 06-06-2004 to 20-07-2004.

PROFESSIONAL STATUS

- Registered Pharmacist, Pharmacy Council of Sindh, Karachi, Pakistan (Registration No. 2688).
- Registered Homoeopath Doctor, National Council for Homoeopathy, Islamabad, Pakistan (Registration No.131059).

AWARDS AND HONORS

- Nishan-e-Zafar (an award of University of Karachi for Meritorious services in Education and Research) for the year 2013-2014. DOI: [10.13140/2.1.1738.2088](https://doi.org/10.13140/2.1.1738.2088)

**MEMBER OF SCIENTIFIC SOCIETIES AND ACADEMIC COMMITTEES**

These memberships demonstrate sustained engagement with international and national scientific bodies, along with active institutional research leadership, consistent with expectations for senior academic rank.

Name of Scientific Society or Committee	Membership No.	Nature of Membership	Year of Registration	Remarks
International Scientific Societies				
Asian Council of Science Editors, Dubai, United Arab Emirates	242619682	Individual Member	2025 - Present	Active membership in editorial/scientific community
American Society for Microbiology (ASM), Washington	54253189	Global Outreach Contribution Member	2025- Present	Contributing to global scientific outreach
National Scientific Societies and Professional Bodies				
National Scientists Directory (NSD), Pakistan Science Foundation under the Ministry of Science and Technology, Government of Pakistan	NSD – Health – 0005069	Member	2025- Present	Registered national scientist
Zoological Society of Pakistan (ZSP), Punjab, Pakistan	ZSP # 77	Life Member	2015- Present	Long-term engagement with national zoological community
Pakistan Botanical Society (PBS), Karachi, Pakistan	---	Life Member	2013- Present	Active involvement in botanical research
The Chemical Society of Pakistan, Islamabad, Pakistan	S0387	Life Member	2012- Present	Professional engagement in chemical sciences
Institutional Committees and Academic Role				
Office of Research, Innovation and Commercialization (ORIC), Department of Pharmacognosy, University of Karachi	---	Focal Person	2017- Present	Institutional leadership and research coordination



Academic Governace and Leadership

- Annual member, University of Karachi Alumni, Karachi, Pakistan (Registration No. 079).
- Member, Karachi University Pharmacy Alumini, Karachi, Pakistan (Membership No.KUPA-04005).
- Quality Enhancement Cell Committee, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi from May 05, 2016 to date.
- Industrial visit, internship and training committee, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi from February 02, 2017 to date.
- Board of Faculty, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi from January 21, 2013 to January 21, 2016.
- Board of Faculty, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi from January 21, 2019 to date.
- Board of Studies in Pharmacognosy, Faculty of Pharmacy, University of Karachi from January 21, 2013 to January 21, 2016.
- Board of Studies in Pharmacognosy, Faculty of Pharmacy, University of Karachi from January 21, 2019 to January 21, 2022.

Research Contribution towards Pharm.D Curriculum (2026 – 2014)

- A deep dive into herbal extraction: Techniques, trends, and technological advancements. South African Journal of Botany, 188: 9-37, 2026.
- Antioxidant Assays in Phytonutrient Research: Translating Laboratory Innovations into Practical Applications. PHYTONutrients, 4: 8-27, 2025.
- Potato starch extraction: Techniques, challenges, and future opportunities. Journal of Pharmacognosy and Phytochemistry, 13 (4): 512-524, 2024.
- Chemical Pharmacognosy in natural drug discovery-bridging folk wisdom and modern medicine. Journal of Pharmacognosy and Phytochemistry, India, 13 (1): 391-398, 2024.
- Secondary metabolites-God gifted arsenal for plants. Journal of Pharmacognosy and Phytochemistry, 13 (1): 38 - 43, 2024.
- Zootherapeutics (Animal-based remedies) for urolithiasis: History, current scenario and future dimensions. Journal of Pharmacognosy and Phytochemistry, 10 (2): 08-11, 2021.
- Algae as nutrition, medicine and cosmetic: The forgotten history, present status and future trends. World Journal of Pharmacy and Pharmaceutical Sciences, 6(6): 1934-



1959, 2017.

- Muslim heritage in medicine: A concise review on Greco-Arabic contribution. Journal of Pharmacognosy and Phytochemistry, 5(4): 273-283, 2016.
- Importance of Herbaria in herbal drug discovery. World Journal of Pharmaceutical Sciences, 4(1):127-129, 2016.
- Crude drug adulteration: A concise review. World Journal of Pharmacy and Pharmaceutical Sciences, 4(10):274-283, 2015.
- Standardization of crude drugs: A precise review. World Journal of Pharmaceutical Research, 4(10):155-174, 2015.
- Legumes: an overview. RADS- Journal of Pharmacy and Pharmaceutical Sciences, 2(1): 34-38, 2014.

International Peer Review Leadership ([Web of science: B-8789-2015](#))

2026 – 2019 (Elsevier)

- Life Sciences (26)
- Heliyon (16)
- Critical Reviews in Oncology / Hematology (16)
- Pharmacological Research (12)
- Biomedicine and Pharmacotherapy (10)
- Current Research in Biotechnology (06)
- Journal of Traditional and Complementary Medicine (03)
- Fitoterapia (02)
- Cellular Signalling (02)
- International Immunopharmacology (02)
- Saudi Journal of Biological Sciences (01)
- PharmaNutrition (02)
- Food and Chemical Toxicology (01)
- Biochemical and Biophysical Research Communications (01)
- South African Journal of Botany (01)
- Phytomedicine Plus (01)



2026 – 2019 (Springer Nature)

- Medical Oncology (20)
- Naunyn-Schmiedeberg's Archives of Pharmacology (11)
- Cell Biochemistry and Biophysics (07)
- Discover Oncology (05)
- International Journal of Peptide Research and Therapeutics (03)
- Beni-Suef University Journal of Basic and Applied Sciences (02)
- Journal of Translational Medicine (05)
- World Journal of Surgical Oncology (02)
- Molecular Diversity (02)
- Clinical Phytoscience (02)
- Bulletin of the National Research Centre (02)
- Archives of Microbiology (02)
- Molecular Neurobiology (01)
- Molecular Biology Reports (01)
- Cancer Cell International (01)
- Molecular and Cellular Biochemistry (01)
- Phytochemistry Reviews (01)

2025 – 2023 (Frontiers Media)

- Frontiers in Pharmacology (03)
- Frontiers in Oncology (02)
- Frontiers in Plant Science (01)

2025 - 2021 (Wiley)

- Clinical and Experimental Pharmacology and Physiology (02)
- Chemistry and Biodiversity (02)
- Phytotherapy Research (02)
- Journal of Food Biochemistry (01)

2025 – 2019 (Dove Medical Press Limited)

- Drug Design, Development and Therapy (03)
- Journal of Experimental Pharmacology (03)
- International Journal of Nanomedicine (02)
- OncoTargets and Therapy (01)

2022 (MDPI)



- Nutrients (02)
- Molecules (01)
- International Journal of Molecular Sciences (01)
- Toxins (01)

2022 – 2021 (Oriental Scientific Publishing Company)

- Biomedical and Pharmacology Journal (42)

2021 (SCIENCEDOMAIN International)

- Journal of Pharmaceutical Research International (12)
- European Journal of Medicinal Plants (01)

2020 (Hindawi Limited)

- Oxidative Medicine and Cellular Longevity (01)

2020 (Cell Press, American Society of Gene & Cell Therapy)

- Molecular Therapy - Nucleic Acids (03)

2019 (International Scientific Information Incorporation)

- Medical Science Monitor (01)

2019 (Faculty of Pharmacy, Helwan University, Egypt)

- Journal of Advanced Pharmacy Research (01)

2018 (Trisakti University, Indonesia)

- Universa Medicina (01)

2018 (The Hashemite University, Jordan)

- Jordan Journal of Biological Sciences (04)

**RESEARCH GRANTS**

S. No.	Title	Research Grant No.	Funding agency / University	Amount (PKR)	Year
1.	Chemical analysis and Pharmacological activity of plants traditionally used in diarrhea	DRG - 70099396	Dean's Research Grant, University of Karachi	150,000 /=	2021
2.	Phytochemical studies on <i>Phaseolus lunatus</i> and its effects on digestive enzymes	DRG - 05160004		100,000 /=	2018
3.	Comparative pharmacological studies on <i>Phaseolus</i> species	DRG - 65570215		102,500 /=	2016
4.	Biological studies on <i>Tithonia diversifolia</i> (Hemsl.) A.Gray	DRG - 4503918		100,000 /=	2014

RESEARCH STUDENTS SUPERVISED

M.Phil.	Student Name	Thesis Title	Synopsis Approval	Completion
1.	Haseeb ur Rehman	Pharmacological Assessment of Different Parts of <i>Solanum forskalii</i> Dunal.	May 30, 2023	January 9, 2025
2.	Nabeel Ahmed	Pharmacological Assessment of Different Parts of <i>Verbesina encelioides</i> (Cav.) A. Gray	May 30, 2023	January 10, 2025

Scholarly Contributions**BOOKS (07)****Books - 2024**

1. **Salman Ahmed.** How to Grow Urinary Stone and Gouty Crystals on Glass Slide: Exploring Morphologies, Disease Insights, and Herbal Inhibition Strategies. (ISBN: 978-620-7-47033-4). LAP LAMBERT Academic Publishing GmbH & Co. KG, Heinrich-Bocking-Str.6-8, 66121 Saabracken Deutschland / Germany. Pages, 108, (2024).
2. **Salman Ahmed** and Muhammad Mohtasheem ul Hasan. Glossary of globally used herbs and animals for urolithiasis: Historical background, mechanism of action, therapeutic spectrum, formulations with doses. (ISBN: 978-620-7-45721-2). LAP LAMBERT Academic Publishing GmbH & Co. KG, Heinrich-Bocking-Str.6-8, 66121 Saabracken Deutschland / Germany. Pages, 132, (2024).



Books - 2014

3. **Salman Ahmed.** *Tithonia diversifolia* (Hemsl.) A. Gray: Ethnopharmacology, biological and phytochemical investigation. (ISBN: 978-3-659-11057-3). LAP LAMBERT Academic Publishing GmbH & Co. KG, Heinrich-Bocking-Str.6-8, 66121 Saabruken Deutschland / Germany. [Pages, 64](#) , (2014).

Books - 2013

4. **Salman Ahmed**, Sohail Anwer and Iqbal Azhar. *Melilotus officinalis* (L.) Pallas: Ethnopharmacology, biological and phytochemical investigation. (ISBN: 978-3-659-49132-0). LAP LAMBERT Academic Publishing GmbH & Co. KG, Heinrich-Bocking-Str.6-8, 66121 Saabruken Deutschland / Germany. [Pages, 104](#) , (2013).
5. **Salman Ahmed.** *Ficus exasperata* and *Cleome ciliata*: ethnopharmacology, biological and phytochemical investigation. (ISBN: 978-3-659-43611-6). LAP LAMBERT Academic Publishing GmbH & Co. KG, Heinrich-Bocking-Str.6-8, 66121 Saabruken Deutschland / Germany. [Pages, 112](#) , (2013).
6. **Salman Ahmed**, Farhana Tasleem and Iqbal Azhar. *Samanea saman* and *Prosopis cineraria*: Traditional use- biological and phytochemical investigation (ISBN: 978-3-659-36955-1). LAP LAMBERT Academic Publishing GmbH & Co. KG, Heinrich-Bocking-Str.6-8,66121 Saabruken Deutschland / Germany. [Pages, 52](#) (2013).

Books - 2011

7. Muhammad Mohtasheem ul Hasan, **Salman Ahmed** and S. Waseemuddin Ahmed. Genera *Phoenix*, *Castanospermum* and *Cordia*: Traditional use- biological and phytochemical investigation (ISBN: 978-3-8454-7720-6). LAP LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstraße 99 , 66123 Saarbrücken, Germany. [Pages, 156](#) (2011).

BOOK CHAPTER

- Ziyad Khan, **Salman Ahmed**, Marya, Hammad Ullah, Haroon Khan. Chapter 4.23 - Vitamin E (tocopherols and tocotrienols) (natural-occurring antioxidant; bright and dark side). In: Antioxidants Effects in Health. Edited by Seyed Mohammad Nabavi and Ana Sanches Silva, **Elsevier**, pages 547-560 (2022). DOI: [10.1016/B978-0-12-819096-8.00066-5](https://doi.org/10.1016/B978-0-12-819096-8.00066-5)

**RESEARCH PAPERS (125) with 24 h - index****International (100); National (25)****Total Impact Factor (IF) = 100.245****Papers in HEC Categorized Journals - W = 30; X = 03; Y = 10; Z = 02****JCR-indexed Impact Factor journals Clarivate (IF ; HEC recognized)****2026**

1. **Salman Ahmed**, Michael Aschner, Khalaf F Alsharif, Ashraf Albrakati, Chunpeng Wan, Mohamed A. Farag, Haroon Khan. Unlocking the therapeutic potential of *Solanum* species as alternatives for pain and inflammation management. South African Journal of Botany, 188: 299-315, 2026. **(IF = 2.7 ; W - Category)**
DOI:10.1016/j.sajb.2025.11.011
2. **Salman Ahmed**, Khalaf F Alsharif, Michael Aschner, Khalid J. Alzahrani, Esra Küpeli Akkol, Esra Gizem Türkcanoğlu, Haroon Khan. A deep dive into herbal extraction: Techniques, trends, and technological advancements. South African Journal of Botany, 188: 9-37, 2026. **(IF = 2.7 ; W - Category)**
DOI:10.1016/j.sajb.2025.11.005

2025

3. **Salman Ahmed**, Waqas Alam, Khalaf F. Alsharif, Michael Aschner, Esra Küpeli Akkol, Mamdouh Allahyani, Hayaa Alhuthali, Luciano Saso, Esra Gizem Türkcanoğlu, Haroon Khan. Unveiling the Potential of Marine Peptides in Leukemia: Mechanistic Insights and Future Horizon in Peptide Research. Turkish Journal of Medical Sciences, 55 (5): 1063 – 1076, 2025. **(IF = 1.0 ; W - Category)**
DOI:10.55730/1300-0144.6061
4. **Salman Ahmed**, Michael Aschner, Khalaf F. Alsharif, Mamdouh Allahyani, Guang Huang, Chunpeng Wan, Haroon Khan. Marine Peptides in Lymphoma: Surgery at molecular level for Therapeutic understanding. Naunyn-Schmiedeberg's Archives of Pharmacology, 398 (2): 8139–8154, 2025. **(IF = 3.1 ; W - Category)**
DOI:10.1007/s00210-025-03901-w
5. **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Zafar Alam Mahmood, Jamelah Saleh Al-Otaibi, Haroon Khan. Inhibition of Calcium Oxalate Crystal Growth in Gel by *Macrotyloma uniflorum*, *Phaseolus lunatus*, and *Phaseolus vulgaris*. Current Research in Nutrition and Food Science Journal, India, 13 (SI): 113 – 123, 2025. **(IF = 1.1 ; W - Category)** **DOI:10.12944/CRNFSJ.13.Special-Issue-July.07**
6. Rifat Roshan, Syed Muhammad Umer Gilani, **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Anti-tussive Activity of *Arenaria serpyllifolia* L. and *Fragaria nubicola* (Hook. f) L. on Sulfurdioxide Induced Cough in Rats. RADS Journal of



Pharmacy and Allied Health Sciences, Pakistan, 3 (3): 139 – 144, 2025. (Y - Category) DOI:10.37962/jphs.v3i3.143

7. Saira Faraz Shah, Sadia Gousia Baig, Safia Abidi, **Salman Ahmed**, Umbreen Farrukh, Samreen Mujahid. Pharmacological Evaluation of *Silybum marianum* (L.) Seed Extract: Analgesic, Anti-Inflammatory, Diuretic, and Antidiarrheal activities. Journal of Medical & Health Sciences Review, Pakistan, 2 (3): 5558-5567. (Y - Category) DOI:10.62019/v04bgr93
8. **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Zafar Alam Mahmood . Comparative Spectrophotometric Analysis of *Macrotyloma uniflorum*, *Phaseolus lunatus* and *Phaseolus vulgaris*. RADS Journal of Pharmacy and Allied Health Sciences, Pakistan, 3 (1): 1 – 7, 2025. (Y - Category) DOI: 10.37962/jphs.v3i1.142

2024

9. Anum Kalim, Mehreen Zaheer, Shah Ali ul Qader, **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Inhibitory Effects of Chickpea (*Cicer arietinum* L.) Seed Extracts on Key Enzymes Involved in Blood Sugar Regulation. RADS Journal of Pharmacy And Allied Health Sciences, Pakistan, 2 (4): 1 – 10, 2024. (Y - Category) DOI: 10.37962/jphs.v2i4.124

2023

10. Mehreen Zaheer, Anum Kalim, Shah Ali Ul Qadar, **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Inhibitory potential of *Phaseolus lunatus* L. Seeds to Digestive Enzymes. BioSight, Pakistan, 4(2):59-69, 2023. (Y - Category) DOI: 10.46568/bios.v4i2.87
11. **Salman Ahmed**, Waqas Alam, Khalaf F. Alsharif, Michael Aschner, Fuad M. Alzahrani, Luciano Saso, Haroon Khan. Therapeutic potential of marine peptides in malignant melanoma. Environmental Research, 227: 115771, 2023. (IF = 7.7 ; W - Category) DOI: 10.1016/j.envres.2023.115771
12. **Salman Ahmed**, Waqas Alam, Michael Aschner, Rosanna Filosa, Wai San Cheang, Philippe Jeandet, Luciano Saso, Haroon Khan. Marine Cyanobacterial Peptides in Neuroblastoma: Search for Better Therapeutic Options. Cancers, 15(9): 2515, 2023. (IF = 4.5 ; W - Category) DOI: 10.3390/cancers15092515

2022

13. **Salman Ahmed**, Waqas Alam, Michael Aschner, Khalaf F. Alsharif, Ashraf Albrakati, Luciano Saso, Haroon Khan. Natural products targeting the ATR-CHK1 signaling pathway in cancer therapy. Biomedicine and Pharmacotherapy, 155: 113797, 2022. (IF = 7.5 ; W - Category) DOI: 10.1016/j.biopha.2022.113797



14. Nimra Mazhar, Muhammad Mohtashem ul Hasan, Sadia Ghousia Baig, **Salman Ahmed**, Razia Jaffery, Rahila Ikram. Diuretic and anti-diarrheal potential of four fruit extracts of *Capsicum annum* L. Pakistan Journal of Pharmaceutical Sciences, 35(5): 1357-1362, 2022. (IF = 0.8 ; Y - Category) DOI: 10.36721/PJPS.2022.35.5.REG.1357-1362.1
15. **Salman Ahmed**, Waqas Alam, Philippe Jeandet, Michael Aschner, Khalaf F. Alsharif, Luciano Saso, Haroon Khan. Therapeutic Potential of Marine Peptides in Prostate Cancer: Mechanistic Insights. Marine Drugs, 20:466, 2022. (IF= 5.4 ; W - Category) DOI: 10.3390/md20080466
16. Salman Ahmed, Haroon Khan, Sajad Fakhri, Michael Aschner , Wai San Cheang. Therapeutic potential of marine peptides in cervical and ovarian cancers. Molecular and Cellular Biochemistry, 477(2): 605 – 619, 2022. (IF = 4.3 ; X - Category) DOI: 10.1007/s11010-021-04306-y
17. Syed Waleed Ahmed Bokhari, Hina Sharif, Syed Muhammad Umer Gilani, Syed Tahir Ali, Salman Ahmed, Maaz Uddin Ahmed Siddiqui, Muhammad Mohtasheemul Hasan. Pharmacognostic and phytochemical study of the flowers of *Cordia sebestena* L. Pakistan Journal of Pharmaceutical Sciences, 35(1): 069-076, 2022. (IF = 0.8; Y - Category) DOI: 10.36721/PJPS.2022.35.1.REG.059-076.1

2021

18. **Salman Ahmed**, Haroon Khan, Hamed Mirzaei, Muhammad Mohtasheemul Hasan, Mohamed Eddouks, Maria Daglia. Herbal drug interaction: Mechanistic details through the pharmacokinetic portfolio. CNS and Neurological Disorders - Drug Targets, 20(8): 677 – 686, 2021. (IF = 2.824 ; W - Category) DOI: 10.2174/1871527319666201008151710
19. Syed Muhammad Umer Gilani, Rifat Roshan, **Salman Ahmed** and Muhammad Mohtasheem Hasan. Antitussive effect of aerial parts of *Caesalpinia pulcherrima* L. by sulfur dioxide induced cough in rats. RADS Journal of Pharmacy and Pharmaceutical Sciences, Pakistan 9(2): 109-112, 2021. (Y - Category) DOI: 10.37962/jpps.v9i2.514
20. **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Michael Aschner, Hamed Mirzaei, Waqas Alam, Syed Muhammad Mukarram Shah, Haroon Khan. Therapeutic potential of marine peptides in glioblastoma: Mechanistic insights. Cellular Signalling, 87: 110142, 2021. (IF = 4.850; W - Category) DOI: 10.1016/j.cellsig.2021.110142
21. **Salman Ahmed**, Hamed Mirzaei, Michael Aschner, Ajmal Khan, Ahmed Al-Harrasi, Haroon Khan. Marine peptides in breast cancer: Therapeutic and mechanistic understanding. Biomedicine and Pharmacotherapy, 142: 112038, 2021. (IF = 7.419 ; W - Category) DOI: 10.1016/j.biopha.2021.112038



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112. **Salman Ahmed**, Patricia Akpomedaye Onocha. Antiemetic activity of *Tithonia diversifolia* (HEMSL.) A. Gray leaves in copper sulfate induced chick emesis model. American Journal of Phytomedicine and Clinical Therapeutics. Florida, U.S.A., [1\(9\): 734-739](#) , 2013.
113. **Salman Ahmed**, Patricia Akpomedaye Onocha. Anti-emetic activity of root extract of *Acalypha ornata* Hochst. Pharmanest - An International Journal of Advances in Pharmaceutical Sciences, India, [4\(3\):448-452](#) , 2013.
114. **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Syed Waseemuddin Ahmed, Zafar Alam Mahmood, Iqbal Azhar, Solomon Habtemariam. Anti-emetic effects of bioactive natural products. Phytopharmacology - International Journal of Phytotherapeutics & Bioactive Natural Products, U.K. [4\(2\): 390-433](#) , 2013.
115. Muhammad Nadeem Ahmed, **Salman Ahmed**. Anti-emetic activity of *Cleome brachycarpa* Vahl ., and *Cleome viscosa* L., (leaves) in chicks. Universal Journal of Pharmacy, India, [2\(1\): 96-99](#) , 2013.
116. Syed Muzammil Ahmed, Farhana Tasleem, **Salman Ahmed**. Analgesic activity of leaves extracts of *Samanea saman* Merr., and *Prosopis cineraria* Druce. International Research Journal of Pharmacy, India, [4\(1\):93-95](#), 2013.
117. Kanwal Waseem Khan, Syed Waseemuddin Ahmed, **Salman Ahmed**, Mohammad Mohtasheemul Hasan. Antiemetic and Anti-inflammatory activity of leaves and flower extracts of *Luffa cylindrica* (L.) Roem. The Journal of Ethnobiology and Traditional Medicine, Photon, [118:258-263](#), 2013.
118. Najma Shaheen, **Salman Ahmed**, Iqbal Azhar, Muhammad Mohtasheemul Hasan. Analgesic, anti-inflammatory and antiemetic activities of *Cleome scaposa* DC. Phytopharmacology - International Journal of Phytotherapeutics & Bioactive Natural Products, UK, [4\(1\):106-113](#) , 2013.

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119. Rafi Akhtar Sultan, Zafar Alam Mahmood, Iqbal Azhar, Muhammad Mohtasheemul Hasan, **Salman Ahmed**. Pharmacognostic and preliminary phytochemical investigation of aerial parts of *Centella asiatica* Linn. International Journal of Phytomedicine, India, [4\(1\): 125-133](#) , 2012.



120. Tehseen Quds, **Salman Ahmed**, Muhammad Shaiq Ali, Patricia Akpomedaye Onocha, Iqbal Azhar. Antiemetic activity of *Acalypha fimbriata* Schumach. & Thonn., *Acalypha ornata* Hochst., and *Acalypha wilkesiana* cv. *godseffiana* Muell Arg. *Phytopharmacology - International Journal of Phytotherapeutics & Bioactive Natural Products*, UK, [3\(2\): 335-340](#), 2012.
121. **Salman Ahmed**, Affan Zahid, Safia Abidi, Sadia Meer. Anti-emetic activity of four species of genus *Cassia* in chicks. *IOSR Journal of Pharmacy*, India, [2\(3\): 380-384](#), 2012.
122. Zafar Alam Mahmood, **Salman Ahmed**, Syed Waseemuddin Ahmed, Muhammad Mohtasheemul Hasan. Insecticidal activity of *Castanospermum australe* against stored grain pest *Callosobruchus analis*. *IOSR Journal of Pharmacy*, India, [2\(2\):189-191](#) , 2012.
123. Syed Muzammil Ahmed, **Salman Ahmed**, Farhana Tasleem, Muhammad Mohtasheemul Hasan, Iqbal Azhar. Acute systemic toxicity of four Mimosaceae plants leaves in mice. *IOSR Journal of Pharmacy*, India, [2\(2\): 291-295](#) , 2012. **DOI: 10.9790/3013-0220291295**
124. Muhammad Mohtasheemul Hasan, **Salman Ahmed**, Ziauddin Ahmed, Iqbal Azhar. Antiemetic activity of some aromatic plants. *Journal of Pharmaceutical and Scientific Innovation*, India, [1\(1\):47-49](#) , 2012.

2011

125. **Salman Ahmed**, Burhan Qureshi, Muhammad Mohtasheemul Hasan, Syed Waseemuddin Ahmed, Iqbal Azhar. Toxicity assessment of *Mucuna pruriens* Linn seeds. *International Research Journal of Pharmacy*, India, [2\(11\):133-135](#) , 2011.

Invited Lectures

1. **Salman Ahmed**. Ethnopharmacology – The Science Behind Herbal Medicine Discovery from Ancient Wisdom. Biological session of 4th International Conference on Environmental Horizon - Valuing and Conserving Nature (ICEH-2016), January 08-10, 2016, Karachi. Jointly organized by Department of Chemistry and International Center for Chemical and Biological Sciences, University of Karachi. p.70.
DOI:10.13140/RG.2.1.3836.5200
2. **Salman Ahmed**, invited speaker of "Herbal Medicine - Leaf to Drug Molecule" one day seminar, September 16, 2015, Karachi. Organized by Department of Botany, Jinnah University for Women, Karachi, Karachi, Pakistan. **DOI:10.13140/RG.2.1.1671.4729**
3. **Salman Ahmed**. Ethnopharmacology- Drug Discovery from Treasure House of Ancient Wisdom. Symposium on World Diabetes Day "Role of Ethnopharmacology in metabolic disorders", November 18, 2014, Karachi. Organized by Phytopharmacology and Biotechnology Research Laboratory, Department of Biochemistry, University of Karachi, Karachi, Pakistan. p.16.
DOI:10.13140/2.1.3413.9845



Oral Presentations - International and National Conferences or Symposiums (17)

Oral Presentations - International

1. Nimra Mazhar, Sadia Ghousia Baig , **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Analgesic and anti-inflammatory potential of four varieties of Bell Pepper (*Capsicum annum* L.) in rodents. International Research Conference on Pharmaceutical and Allied Sciences (IRCPAS 2020), March 7-8, 2020, Malaysia. Organized by UCSI University, Kuala Lumpur, Malaysia. p. 86.
2. **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Growth of brushite crystals on glass slide: A simple and inexpensive *in vitro* model to evaluate natural antiurolithiatic drugs. 7th International Symposium-cum-Training Course on Molecular Medicine and Drug Research (MMDR-7), November 4-7, 2019, Karachi. Organized by Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi. p.206. DOI: 10.13140/RG.2.2.20546.12484
3. Syed Muhammad Umer Gilani, Rifat Roshan, **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Antitussive effect of aerial parts of *Caesalpinia pulcherrima* by sulphur dioxide induced cough in rats. 1st International Conference on Research Perspectives in Pharmaceutical Sciences (ICRPPS) , October 23-25, 2019, Karachi. Jointly organized by Faculty of Pharmacy, Hamdard University, Karachi and International Center for Chemical and Biological Sciences, University of Karachi. p. 22. DOI: 10.13140/RG.2.2.20474.03529
4. **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Growth of urate (gouty and urinary) crystals on glass slide: A simple and Inexpensive *in vitro* model to evaluate natural antiurolithiatic and anti-gout drugs. 5th Science and Technology Exchange Program on Challenges of Communicable and Non-Communicable Diseases (STEP - 5), February 27 - March 02, 2019, Karachi. Jointly organized by Mustafa^(PBUH) Science and Technology Foundation, Iran and Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi. p.35. DOI:10.13140/RG.2.2.29960.88329
5. **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Inhibition of hyperoxaluric calcium oxalate nephrolithiasis by *Macrotyloma uniflorum* (Lam.) Verdc. seeds infusion on glass slide. 9th ANRAP International Seminar From Plant To Patient: Identification of new drugs for metabolic disorders, January 25 - 27 , 2019, Karachi. Jointly organized by Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi and Asian Network for Research on Antidiabetic Plants (ANRAP), Bangladesh. p. 102. DOI: 10.13140/RG.2.2.26036.30088



6. **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Growth of urinary calcium oxalate crystals on glass slide and their inhibition by *Phaseolus lunatus* L. infusion. 14th International Symposium on Natural Product Chemistry (ISNPC-14), November 6-8, 2018, Karachi. Organized by International Center for Chemical and Biological Sciences, University of Karachi. p.138.
7. **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Growth of urinary calcium oxalate crystals on glass slide and their inhibition by *Phaseolus vulgaris* L. infusion. 2nd International Symposium on Natural Products for the Future (ISNPF-2), November 4-6, 2018, Karachi. Jointly organized by International Center for Chemical and Biological Sciences, University of Karachi and Phytochemical Society of Asia. p.117.
8. **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Zafar Alam Mahmood. Total, insoluble and soluble dietary fiber contents of three Pakistani legume flours. 4th International Conference on Environmental Horizon - Valuing and Conserving Nature (ICEH-2016), January 08-10, 2016, Karachi. Jointly organized by Department of Chemistry and International Center for Chemical and Biological Sciences, University of Karachi. p.166. DOI: 10.13140/RG.2.1.4091.4009
9. **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Zafar Alam Mahmood. Total, insoluble and soluble oxalate contents of three Pakistani legume flours. 4th Pak-France Bi-national workshop on drug discovery and molecular medicine, October 12-14, 2015, Karachi. Jointly organized by Dr. Panjwani Center for Molecular Medicine and Drug Research (International Center for Chemical and Biological Sciences, University of Karachi, Karachi) and Embassy of Republic of France, Islamabad, Pakistan. p.56. DOI: 10.13140/RG.2.1.2609.2242
10. Muhammad Sohail Anwer, Sumbul Shamim, **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Iqbal Azhar. Hypotensive activity of *Melilotus officinalis* (L.) PALLAS. Third Hamdard International Unani Medicine Conference on "Unani Medicine: Education and research issues, prospects and challenges (HUCON-2013)", February 25-27, 2013, Karachi. Organized by Hamdard University, Faculty of Eastern Medicine, Hamdard University, Karachi- 74600, Pakistan. p.33. DOI: 10.13140/RG.2.2.28053.54243
11. Najma Shaheen, **Salman Ahmed**, Iqbal Azhar, Muhammad Mohtasheem. Analgesic activity on two Cleome species. 10th International and 22nd National Chemistry Conference, November 21-23, 2011, Faisalabad. Organized by Department of Chemistry and Biochemistry, University of Agriculture, Faisalabad, Pakistan. p.208.
12. Kanwal Waseem, Muhammad Mohtasheemul Hasan, **Salman Ahmed**, Syed Waseemuddin Ahmed, Iqbal Azhar. Anti-inflammatory activity of *Luffa cylindrica*. 1st International Conference of Chemistry and its role in Science (ICCRS-1), January 3-



5, 2011, Karachi. Organized by Department of Chemistry, Jinnah University for Woman, Karachi. p.181.

13. **Salman Ahmed**, Iqbal Azhar, Muhammad Mohtasheemul Hasan, Syed Waseemuddin Ahmed. Anti-emetic activity of six aromatic medicinal plants by using chick emetic model. 1st International Symposium on Nanomedicine: Past, Present & Future Prospects, December 20-21, 2010, Karachi. Jointly organized by H.E.J. Research Institute of Chemistry, University of Karachi, Karachi and The Center of Nanoscale Science Technology, University of Illinois at Urbana-Champaign, USA. p.48.
14. Iqbal Azhar, Muhammad Mohtasheemul Hasan, **Salman Ahmed**, Affan Zahid and Rabail Zahid. Anti-emetic activity of some aromatic medicinal plants. 12th International Symposium on Natural Product Chemistry, November 22 – 25, 2010, Karachi. Organized by H. E. J. Research Institute of Chemistry, University of Karachi. p.114.

Oral Presentations - National

15. Rifat Roshan, Syed M. Umer Gilani, **Salman Ahmed**, Muhammad Mohtasheemul Hasan. Antitussive effect of some medicinal plants on sulphur dioxide induced cough in animal model. Fourteenth Biennial Conference on "Molecular Biosciences: Research and Innovations", December 9-12, 2018, Karachi. Organized by Pakistan Society for Biochemistry and Molecular Biology (PSBMB), Dr. A. Q. Khan Institute Of Biotechnology & Genetic Engineering (KIBGE), University of Karachi. p. 86.
DOI: 10.13140/RG.2.2.10005.37604
16. Kanwal Waseem, **Salman Ahmed**, Muhammad Mohtasheemul Hasan, Syed Waseemuddin Ahmed, Iqbal Azhar. Analgesic activity of *Luffa cylindrica*. Symposium cum Workshop on Tools in Biomedical Research (Golden Jubilee Celebration Series), March 01-03, 2011, Karachi. Organized by Department of Biochemistry, University of Karachi. p.47. **DOI: 10.13140/RG.2.2.30570.12486**

INTERNATIONALLY RECOGNISED ONLINE COURSES (23)

Web of Science Academy, Philadelphia, U.S.

1. An Introduction to Peer Review – May, 2021
2. Mentoring in Peer Review – May, 2021
3. Co-reviewing with a Mentor – May, 2021
4. Reviewing in the Sciences – May, 2021
5. Good Citation Behavior – May, 2021
6. Publons Academy Mentor Certificate – May, 2021
7. Publons Academy Graduation Certificate – January 27, 2021



Elsevier Researcher Academy, Amsterdam, Netherlands

8. Certified Peer Reviewer Course – July, 2021
9. Becoming a Peer Reviewer – July, 2021
10. Going through Peer Review – July, 2021
11. Fundamentals of Peer Review – July, 2021
12. Fundamentals of Publishing – July, 2021
13. Technical Writing Skills – July, 2021
14. Writing Skills – July, 2021
15. Fundamentals of Manuscript Preparation – July, 2021

Springer Nature, Switzerland AG

16. Publishing a Journal Manuscript - the Groundwork - April 23, 2015
17. Springer English Academy - April 21, 2015
18. Journal Author Academy Part 1: Writing your Manuscript - April 17, 2015
19. Journal Author Academy Part 2: Submitting and Peer Review - April 17, 2015

National Institutes of Health (NIH), U.S.

20. Clinically Relevant Herb-Drug Interactions: Past, Present, and Future - March 06, 2015
21. Integrative Medicine - March 06, 2015

ProQuest LLC, Michigan, U.S.

22. Boost your knowledge with ProQuest Business Premium Collection Database - February 16, 2021

Office of Research Innovation and Commercialization (ORIC), UoK

23. Course on Research Communication Skills Development - September 2-3, 2014

WORKSHOPS (15)

1. HEC Pakistan Author Workshop on "Dissecting the Scholarly Publishing Process: An Overview and Guidance on Publishing" held on 27th of January 2021. Jointly organized by Higher Education Commission (HEC) Pakistan and John Wiley & Sons, Inc. United States.
2. Pipette Clinic Workshop, held on October 10, 2018, Karachi. Jointly organized by Eco Biosciences in collaboration with Eppendorf.



3. 4th Pak-France Bi-national Workshop on Drug Discovery and Molecular Medicine, held on October 12-14, 2015. Jointly organized by Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi and Embassy of France, Islamabad, Pakistan.
4. Workshop on Active Citizens Training of Facilitators held on August 17-21, 2015, Karachi. Jointly organized by British Council and University of Karachi.
5. Workshop on Developing Industry Driven Technologies held on January 06, 2015, Karachi. Jointly organized by Office of Research, Innovation and Commercialization (ORIC), University of Karachi ; Pakistan Scientific and Technological Information Centre (PASTIC) ; Institute of Research Promotion (IRP).
6. NASIC workshop on Modern Spectroscopic Techniques and their applications in structure determination held on December 1-3, 2014, Karachi. Jointly organized by Network of Academies of Sciences in Islamic Countries (NASIC) and H.E.J Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi.
7. Workshop on Self-Assessment Program / Report, held on September 16th- 17th, 2014, Karachi. Organized by Quality Enhancement Cell, University of Karachi, Karachi.
8. Regional Workshop on Chemical Laboratory safety and security, held on June 5-6, 2012, Karachi. Organized by H.E.J. Research Institute of Chemistry, University of Karachi, Karachi.
9. Workshop on Intellectual Property Rights (Patent Copy Right Laws/Trade Marks) held on June 2, 2012, Karachi. Jointly organized by Office of Research Innovation and Commercialization (KU-ORIC) and Pakistan Scientific & Technological Information Centre (PASTIC) Karachi, Pakistan.
10. One day "Research Methodology Workshop" held on March 25, 2012, Karachi. Organized by The Universal Research Group.
11. One day SPSS workshop (Intermediate Level) on "Quantitative Analysis and Data Management Using Statistical Package for Social Sciences (SPSS)" held on July 16, 2011, Karachi. Organized by The statistical and data management consulting group (Stats DMCG) in collaboration with Infection control society Pakistan and Bridge consultants Foundation.
12. Workshop on "Techniques in Nanomedicine Research" held on December 22-23, 2010, Karachi. Organized by the International Center for Chemical and Biological Sciences, University of Karachi, Pakistan.



13. Two days' Workshop on "Development of Sustainable and Collaborative Research Networks" held on December 6-7, 2010, Karachi. Jointly organized by British Council and Higher Education Commission.
14. 2nd Workshop on "Nutraceutical Foods" on April 13, 2010. Organized by Department of Food Science and Technology, International Center for Chemical and Biological Sciences, British Council Karachi, Convenience Food Industries (Pvt) Ltd. and English Biscuit Manufacturers (Pvt) Ltd.
15. Workshop on "Pharmaceutical Regulatory Challenges and Compliance" held on February 25, 2010, Karachi. Organized by Seminar Committee Faculty of Pharmacy, University of Karachi.

SYMPOSIUMS (15)

1. International Symposium on Plant Life of South Asia held on February 24-27, 2020, Karachi. Organized by Centre for Conservation and Department of Botany, University of Karachi.
2. 7th International Symposium-cum-Training Course on Molecular Medicine and Drug Research (MMDR-7), November 4-7, 2019, Karachi. Jointly organized by Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi.
3. 14th International Symposium on Natural Product Chemistry (ISNPC-14), held on November 6-8, 2018, Karachi. Organized by International Center for Chemical and Biological Sciences, University of Karachi.
4. 2nd International Symposium on Natural Products for the Future (ISNPF-2), held on November 4-6, 2018, Karachi. Jointly organized by International Center for Chemical and Biological Sciences, University of Karachi and Phytochemical Society of Asia.
5. 6th International Symposium-cum-Training course on Molecular Medicine and Drug Research held on November 6 – 9, 2017. Organized by Dr. Panjwani Center for Molecular Medicine and Drug Research, Pakistan.
6. 3rd Symposium on Bioanalytical and bioequivalence Studies, held on August 18-19, 2015, Karachi. Organized by the Center for Bioequivalence Studies and Clinical Research (International Center for Chemical and Biological Sciences), University of Karachi.
7. Symposium on World Diabetes Day "Role of Ethnopharmacology in metabolic disorders", held on November 18, 2014, Karachi. Organized by Phytopharmacology and Biotechnology Research Laboratory, Department of Biochemistry, University of Karachi.



8. IYCr South Asia summit meeting on vistas in structural chemistry, held on April 28-30, 2014 Karachi. Jointly organized by H.E.J. Research Institute of Chemistry , University of Karachi , Karachi, UNESCO and International Union of Crystallography (IUCr).
9. 14th Asian Symposium on Medicinal Plants, Spices and other natural Products (ASOMPS-XIV), held on December 09-12, 2013, Karachi. Organized by International Central for Chemical and Biological Sciences, University of Karachi.
10. International symposium on "Exploring biochemistry: molecular innovations and beyond", held on December 5, 2012. Organized by Department of Biochemistry, University of Karachi, Karachi.
11. 13th International Symposium on Natural Product Chemistry, held on September 22 – 25, 2012, Karachi. Organized by H. E. J. Research Institute of Chemistry, University of Karachi, Karachi.
12. "Symposium cum workshop on tool in Biomedical research" Golden jubilee celebration series, held on March 1-3, 2011. Organized by Department of Biochemistry, University of Karachi, Karachi.
13. 1st International Symposium on Nanomedicine: Past, Present & Future Prospects, held on December 20-22, 2010, Karachi. Jointly organized by H.E.J. Research Institute of Chemistry , University of Karachi , Karachi and The Center of Nanoscale Science Technology , University of Illinois at Urbana-Champaign , USA.
14. 12th International Symposium on Natural Product Chemistry, held on November 22 – 25, 2010, Karachi. Organized by H. E. J. Research Institute of Chemistry, University of Karachi, Karachi.
15. Symposium on "Hospital Pharmacy Practice" held on November 17, 2009. Organized by Ziauddin College of Pharmacy, Ziauddin University. In collaboration with the society of Hospital Pharmacists of Pakistan (SHPP).

CONFERENCES (14)

1. 1st International Industrial Chemistry Conference 2021 held on February 26-27, 2021. Organized by Department of Chemistry, NED University of Engineering & Technology, Pakistan.
2. 2nd Probe Conference: Molecules to mechanisms, held on January 07 – 09, 2020. Organized by Department of Physiology, University of Karachi.
3. 1st International Conference on Research Perspectives in Pharmaceutical Sciences (ICRPPS) , October 23-25, 2019, Karachi. Jointly organized by Faculty of Pharmacy, Hamdard University, Karachi and International Center for Chemical and Biological Sciences, University of Karachi.



4. 5th Science and Technology Exchange Program on Challenges of Communicable and Non-Communicable Diseases (STEP - 5), February 27 - March 02, 2019, Karachi. Jointly organized by Mustafa^(PBUH) Science and Technology Foundation, Iran and Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi.
5. Fourteenth Biennial Conference on "Molecular Biosciences: Research and Innovations" held on December 9-12, 2018, Karachi. Organized by Pakistan Society for Biochemistry and Molecular Biology (PSBMB), Dr. A. Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi.
6. "1st Probe Conference – Biology: Down the Road", held on January 16 – 18, 2018. Organized by Department of Physiology, University of Karachi. CME accredited by Baqai Medical University, Credit hours: 12.
7. 14th Eurasia Conference on Chemical Sciences held on December 15-18, 2016. Organized by H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi.
8. 14th National and 5th International Conference of Climate change and Phytodiversity challenges and Opportunities, held on January 15-18, 2016. Jointly organized by Pakistan Botanical Society, Department of Botany, Centre for Plant Conservation, Institute of Sustainable Halophyte Utilization, Department of Agriculture and Agribusiness Management, University of Karachi.
9. First International Conference on Life Sciences "Emerging trends in biological Sciences and Genomics", December 28-30, 2015, Karachi. Jointly organized by M.A.H. Qadri Biological Research Center (BRC) and Dr. A.Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi.
10. 6th National Pharmacognosy Conference on "Health concerns and Phytotherapies, June 26, 2014 Karachi. Organized by Pakistan Society of Pharmacognosy and Natural Therapy, Research Institute of Pharmaceutical Sciences, Department of Pharmacognosy, Faculty of Pharmacy, University of Karachi.
11. Third Hamdard International Unani Medicine Conference on "Unani Medicine: Education and research issues, prospects and challenges (HUCON-2013)", February 25-27, 2013. Organized by Hamdard University, Faculty of Eastern Medicine, Hamdard University, Karachi- 74600, Pakistan.
12. 2nd National Phycological Conference "Algae for Mankind", October 15-17, 2012, Karachi. Organized by Department of Botany, University of Karachi, Karachi.
13. 1st National Conference on Pharmacy Profession: success tool for Health Care System, May 2-3, 2012. Organized by Dow College of Pharmacy, Dow University of Health Sciences, Karachi.



14. 1st International conference of Chemistry and its role in science (ICCRS-1), January 3-5, 2011. Organized by Jinnah University for women, Karachi.

SEMINARS (18)

1. ASRB Rules and Synopsis Writing at Post Graduate Level, held on February 22, 2024. Organized by Karachi University Teachers Society, University of Karachi.
2. 9th ANRAP International Seminar From Plant To Patient: Identification of new drugs for metabolic disorders, January 25 - 27 , 2019. Jointly organized by Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi and Asian Network for Research on Antidiabetic Plants (ANRAP), Bangladesh.
3. Innovations in Pharmacotherapy and Disease Management, held on September 26-27, 2018. Organized by Institute of Pharmaceutical Sciences, Jinnah Sindh Medical University, Karachi, Pakistan.
4. Seminar on How to develop Entrepreneurial Mindset, held on March 21, 2018. Organized by The Office of Research, Innovation and Commercialization (ORIC), University of Karachi, Pakistan.
5. Seminar on Marine Research and Introduction to Scuba Diving, held on February 26 – 27, 2018. Organized by Institute of Marine Science, University of Karachi, Pakistan.
6. Bioequivalence and Pharmacovigilance Awareness Session held on April 8, 2017. Jointly organized by Center for Bioequivalence Studies and Clinical Research, Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan.
7. Prof. Dr. Mustafa Shameel Memorial Seminar on Industrial Application of Seaweed, held on July 19, 2016. Organized by Office of Research, Innovation and commercialization (ORIC), University of Karachi.
8. Perspective and Dimensions of Drug Product Bioequivalence in 21st Century, held on December 15, 2015. Organized by Department of Pharmaceutics, University of Karachi.
9. Research proposal writing and time management, held on September 15, 2015. Organized by Office of Research, Innovation and Commercialization (ORIC), University of Karachi.
10. EndNote: The Citation Management Software", held on February 26, 2015. Organized by Karachi University Teachers' Society (KUTS), University of Karachi.



11. Awareness Seminar Ebola Virus: A possible threat, held on September 12, 2014. Organized by Food Safety Research Group (FSRG), Department of Microbiology, University of Karachi.
12. Shameel Memorial Seminar on Algal Resources of Pakistan, held on May 6-7, 2014. Jointly organized by Institute of Marine Science, University of Karachi, Karachi and Office of Research, Innovation and Commercialization (ORIC), University of Karachi.
13. Academia integrity and Plagiarism, held on February 12, 2014. Organized by Karachi University Teachers' Society (KUTS), University of Karachi.
14. Current trends in Hospital Pharmacy-Practice and role of Pharmacists, held on April 18, 2013. Organized by Pakistan Society of Health -System Pharmacists, Karachi.
15. Innovative contribution of Pharmacists in collaborative Pharmacy Practice, held on February 02, 2013, Karachi. Organized by Faculty of Pharmacy, University of Karachi, Karachi.
16. Essentials of Pharmaceutical Industries, held on September 16, 2010. Jointly organized by Ingrope Information Services and Seminar committee Faculty of Pharmacy University of Karachi.
17. Pharmacy- The versatile approach towards professionalism, held on March 20, 2010. Organized by Faculty of Pharmacy, University of Karachi.
18. Fundamentals of G.M.P, held on February 23, 2010. Jointly organized by Ingrope Information Services and Seminar committee Faculty of Pharmacy University of Karachi.

LECTURES (03)

1. A public Lecture by COMSTECH on Engagement in Medical Research to promote National Health and Wellbeing, January 21, 2021, Islamabad. Organized by OIC Ministerial Standing Committee on Scientific and Technological Cooperation (COMSTECH).
2. Lecture on Breast Cancer awareness, February 04, 2015, Karachi. Organized by Department of Pharmacognosy, Faculty of Pharmacy, University of Karachi.
3. An online lecture on "The Thrilling World of Discovery" by Prof. Dr. Atta-ur-Rehman on the account of "World Science Day for Peace and Development 2014", November 10, 2014. Organized by International Center for Chemical and Biological Sciences, University of Karachi and National Academy of Young Scientists, Pakistan.