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ACADEMIC CAREER

DEGREE	YEAR	BOARD/UNIVERSITY
Secondary School Certificate	1988	B.I.S.E. Peshawar
Intermediate Certificate (H. Sc.)	1991	B.I.S.E. Peshawar
B. Sc.	1994	University of Peshawar
M. Sc.	1996-97	University of Peshawar
M. Phil.	2002	University of Peshawar
Ph.D.	2007	H.E.J. Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270, Pakistan.

EXPERIENCE

- 1:** **M. Phil** work, Isolation and Characterization of Alkaloids: Study of *Delphinium roylei* Munz and *Aconitum laeve* Royle. Department of Chemistry University of Peshawar, Pakistan, 1998-2002.
- 2:** **Ph. D.** work, Isolation and characterization of Secondary Metabolites from *Myrtus communis* L, *Delphinium roylei* Munz and related Medicinal Plants. HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences University of Karachi, 2002-2006.
- 3:** **Scientific Officer** (Phytochemistry), Preservation and Research on High Valued Medicinal Plants at High Altitude, Sheringal Campus (SHAARK) University of Malakand, Chakdara, Dir (lower). From September 2004 to September 2005.

CURRENT RESPONSIBILITIES

- 1:** Assistant Professor at the Department of Chemistry, University of Malakand, Dir, since April 2008.
- 2:** Teaching graduate level students at Department of Chemistry and Biotechnology, University of Malakand, Chakdara, Dir.

PARTICIPATION IN INTERNATIONAL AND NATIONAL WORKSHOP/CONFERENCES/SYMPOSIA

- 1:** 10th International Symposium on Natural Product Chemistry. January 6-9, **2006**. Karachi, Pakistan. Jointly Organized by Pakistan Academy of Sciences, HEJ Research Institute of Chemistry and Dr. Panjwani Center for Molecular Medicine and Drug Research. University of Karachi, Karachi-75270.
- 2:** AFASSA Symposium on Natural Products and Regional Meeting. Organized by HEJ Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270.
- 3:** 3rd National Conference on Pre-Clinical and Clinical Researches on Products of biological origin in Hospital. 17th April **2004**. University of Karachi. Karachi - 75270.
- 4:** 9th International Symposium on Natural Product Chemistry. January 10-13, **2004**. Karachi, Pakistan. Organized by HEJ Research Institute of Chemistry. University of Karachi, Karachi-75270.
- 5:** H.E.J. - COMSTECH (CPC) – TWAS International Workshop on the Development of Medicines from Plants. September 8-13, **2003**, venue, HEJ Research Center

University of Karachi, Karachi-75270, Pakistan.

- 6: 3rd National Conference on Pharmaceutical Sciences. July 8-12, **2003** at Baragali Summer Campus. Organized by Department of Pharmacy, University of Peshawar, Peshawar-25120, NWFP, Pakistan.
- 7: 3rd International and 13th National Chemistry Conference, Dec. 28-31, **2002**. Jointly Organized by Department of Chemistry and HEJ Research Center University of Karachi. Karachi 75270
- 8: Pakistan-Bangladesh Bi-national Conference on Natural Products Chemistry. September 24-26, **2002**, Venue: HEJ Research Center University of Karachi. International seminar on the role of science and technology in Sustainable development. September 22-23, **2002**.
- 9: 7th Eurasia Conference of Chemical Sciences (2002) March 9-12, **2002**. Venue: HEJ Research Center University of Karachi.
- 10: First International and 11th National Chemistry Conference (Chem. Con. 2000). April 10-14, **2001**. Venue: (Department of Chemistry University of Peshawar).
- 11: HEJ-COMSATS workshop on the use of Spectroscopic Techniques in Structural Organic Chemistry.(Feb: 14-21, **2000**). Venue: (HEJ Research Center University of Karachi).
- 12: Second UOP-HEJRIC joint workshop on Spectroscopic Techniques. July 12-16 **1999**. Venue: Barragali Peshawar university summer campus).
- 13: Member of **EPS** (Environmental Protection Society) District Swat NWFP Pakistan
- 14: **Member Chemical Society of Pakistan.**

LIST OF PUBLICATIONS

Papers

1.	New α -glucosidase inhibitors and antibacterial compounds from <i>Myrtus communis</i> L. Atta-ur-Rahman, Muhammad Iqbal Choudhary, Farzana Shaheen, Manzoor Ahmad , Shamsun Nahar Khan, Shazia Anjum, US Patent Application submitted (Application # 11306345, filed December, 23, 2005).
2.	M. Nisar, Inamullah khan, Manzoor Ahmad . Molecular docking of Taxawallin I to β -tubulin: anticancer taxoid from <i>Taxus wallichiana</i> Zucc. Journal of Enzyme Inhibition and Medicinal Chemistry . (accepted, 2009)
3.	Manzoor Ahmad , Noureen Khan, Muhammad Zeeshan, Shamsun Nahar Khan, Muhammad Iqbal Choudhary and Farzana Shaheen. New antioxidant and α -glucosidase inhibitors from <i>Myrtus communis</i> Linn., European Journal of Organic Chemistry , (submitted 2009)
4.	Manzoor Ahmad , Muhammad Zeeshan, Noureen Khan, Sarfaraz Ahmad Nawaz, Muhammad Iqbal Choudhary and Farzana Shaheen. <i>In vitro</i> enzyme

	inhibition activities of <i>Myrtus communis</i> L., <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , (submitted 2009)
5.	Muhammad Arfan, Rasool Khan, Murad Ali, Sahzia Ajum, Manzoor Ahmad , and Muhammad Iqbal Choudhary. Antileishmanial and Anti microbial Activities of 2,3-disubstituted-3H-quinazolin-4-one Derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , (Accepted 2009)
6.	Manzoor Ahmad , Muhammad Zeeshan, Mahmud Tareq Hassan Khan, Habib Ahmad and Farzana Shaheen. Norditerpenoid Alkaloids of <i>Aconitum laeve</i> Royle and their enzyme inhibition activities. <i>European Journal of Organic Chemistry</i> , (submitted 2009)
7.	Sultan Alam, Manzoor Ahmad , Fazlullah Khan Bangash. Removal of Brilliant Blue R from Aqueous Solution on Activated Carbon Produced from Carbonaceous substrate. <i>Tenside Surfactants and Detergents</i> . 46(4), 205-213, 2009 .
8.	Saeed-ur-Rahman, Nauman Ali, Muhammad Arsaht, Manzoor Ahmad and Gul Akhtar. The structural studies of complexes of 1,3-di-(1H-imidazol-1-yl)-2-propanol. <i>Journal of Chemical Society of Pakistan</i> , 31(3), 391-395, 2009
9.	Muhammad Nisar, Obaidullah, Manzoor Ahmad , Muhammad Arif Lodhi, Farzana Shaheen, and Muhammad Iqbal Choudhary. New diterpenoid Alkaloids from <i>Aconitum heterophyllum</i> Wall: Selective Butyrylcholinestrace Inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> . 24(1), 47-51, 2009
10	Waqar Ahamd, Li Bo, Yulin Deng, Manzoor Ahmad , Zafar Iqbal, Zahida Parveen, Khalid Saeed. Analysis of biomarker for the cross-linker of formaldehyde with bovine serum albumin peptide. <i>Chinese Science Bulletin</i> . 52(21), 3287-93, 2008
11	Manzoor Ahmad , Noor Muhammad, Mahjabeen, Noor Jehan, Muhammad Zeeshan, Waqar Ahmad and Mansoor Ahmad. Antifungal and antibacterial activities of <i>Datisca cannabina</i> Linn., <i>Fitoterapia</i> , (submitted, 2009).
12	Manzoor Ahmad , Waqar Ahamd, Mansoor Ahmad, Obaidullah, Muhammad Zeeshan, and Farzana Shaheen. Norditerpenoid alkaloids from the roots of <i>Aconitum heterophyllum</i> Wall. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> . 23(6), 1018-1022, 2008
13	Manzoor Ahmad , Waqar Ahamd, Saleemullah Khan, Mansoor Ahmad, Muhammad Nisar, Muhammad Zeeshan, and Farzana Shaheen. Antibacterial Pentacyclic Triterpenoids from <i>Myricaria elegans</i> . <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> . 23(6), 1023-1027, 2008
14	Mansoor Ahmad, Noor Muhammad, Manzoor Ahmad , Muhammad Arif Lodhi, Mahjabeen, Noor Jehan, Zahid Khan, Rosa Ranjit, Farzana Shaheen, and Muhammad Iqbal Choudhary. Urease Inhibitor from <i>Datisca cannabina</i> Linn. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> . 23(3), 386-390, 2008
15	Muhammad Nisar, Obaidullah, Manzoor Ahmad , Farzana Shaheen, and Viqaruddin Ahmad. Norditerpenoid Alkaloids from the roots of <i>Aconitum heterophyllum</i> Wall. <i>Bioorganic and Medicinal Chemistry Letter</i> , (Submitted, 2008)
16	Muhammad Liaqat Raza, Muhammad Zeeshan, Manzoor Ahmad , Farzana Shaheen, Shabana U. Simjee. Toxicity testing behavior assessment of anticonvulsant fraction isolated from <i>Delphinium</i> specie. <i>Journal of Pharmacological and Toxicological Methods</i> 58(2) 152 (2008)
17	Farzana Shaheen, Liaqat Ali, Manzoor Ahmad , Muhammad Zeeshan, Shabana U. Simjee, and Muhammad Arfan. Anti epileptic activity of various fractions and

	isolation of new norditerpenoid alkaloid from <i>Delphinium kohatanese</i> Munz, <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , (submitted 2008)
18	Farzana Shaheen, Manzoor Ahmad , Shamsun Nahar khan, Syeda Samreen Hussain, Shazia Anjum, Bahodir Tashkhodjaev, Kambarali Turgunov, Mukhlis N. Sultankhodzhaev, Muhammad Iqbal Choudhary, and Atta-ur-Rahman. New α -glucosidase inhibitors and antibacterial compounds from <i>Myrtus communis</i> Linn., <i>European Journal of Organic Chemistry</i> , 2371-2377 (2006)
19	Farzana Shaheen, Muhammad Zeeshan, Manzoor Ahmad , Shazia Anjum, Shamsir Ali, Hong-Kun Fun, Muhammad Iqbal Choudhary, and Atta-ur-Rahman. Norditerpenoid alkaloids from <i>Delphinium nordhagenii</i> . <i>Journal of Natural Product</i> , 69, 823-825 (2006)
20	Anwar-ul Hassan Gilani, Abdul Jabbar Shah, Manzoor Ahmad and Farzana Shaheen. Antispasmodic effect of <i>Acorus calamus</i> Linn., is mediated through calcium channel blockade. <i>Phytotherapy Research</i> , 20, 1080-1084 (2006)
21	Manzoor Ahmad , Shamsir Ali, Farzana Shaheen, Shazia Anjum, and M. Iqbal Choudhary. 14-Acetyl-20-Ethyl-1, 8-Dihydroxy-16, 18-Dimethoxylycoctonine. <i>Acta Crystallographica</i> , (2006). E62 , 01428-01430.
22	Manzoor Ahmad , Farzana Shaheen, Bahodir Tashkhodjaev, Kambarali Turgunov, Mukhlis N. Sultankhodzhaev, Muhammad Iqbal Choudhary, and Atta-ur-Rahman. Chemical Constituents of <i>Myrtus communis</i> L. <i>Chemistry of Natural Compounds</i> , 3, 277, (2006) (Russ)
23	Farzana Shaheen, Manzoor Ahmad , Mahmood Tareq Hassan Khan, Saima Jilil, Asma Ejaz, Mukhlis N. Sultankhodjaev, Muhammad Arfan, M. Iqbal Choudhary and Atta-ur-Rahman. Alkaloids of <i>Aconitum laeve</i> Royle and their anti-inflammatory, antioxidant and tyrosinase inhibition activities. <i>Phytochemistry</i> , 66, 935-940, (2005)
24	Taous khan, Mansoor Ahmad, Muhammad Nisar, Manzoor Ahmad , Muhammad Arif Lodhi and Muhammad Iqbal Choudhary. Enzyme inhibition and radical scavenging activities of aerial parts of <i>Paeonia emodii</i> Wall, <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 20(3), 245-249, (2005).
25	Somia Khattak, Saeed-ur-Rehman, Waqar Ahmad, Hameed Ullah Shah, Anwar Ali and Manzoor Ahmad , Biological Effects of Indigenous Medicinal Plants <i>Curcuma longa</i> Linn., and <i>Alpinia galanga</i> . <i>Fitoterapia</i> 76, 254-257, (2005).
26	S. Khattak, Saeed-ur-Rehman, H. U. Shah, T. Khan, Manzoor Ahmad . <i>In-vitro</i> Enzyme inhibition activities of crude ethanolic extracts derived from medicinal plants of Pakistan, <i>Natural Product Research</i> , 19, 567-571, (2005).
27	Ijaz Ahmad, Sarfraz Ahmad Nawaz, Nighat Afza, Abdul Malik, Itrat Fatima, Sher Bahadar Khan, Manzoor Ahmad , and M. Iqbal Choudhary, Isolation of Onosmins A and B, Lipoygenase Inhibitors from <i>Onosma hispida</i> <i>Chem. Pharm. Bull.</i> , 53(8), 907-910 (2005).
28	Mansoor Ahmad, Taous Khan, Muhammad Nisar, Muhammad Arif Lodhi, Waqar Ahmad, and Manzoor Ahmad . <i>In vitro</i> inhibition of Urease and α -Chymotrypsin by some selected indigenous Medicinal Plants. <i>International Chemical, Pharmaceutical and Medical journal</i> , 2(1), 179-181 (2005).
29	Waqar Ahmad, Mansoor Ahmad, Muhammad Nisar, Salimullah, Zafar Iqbal, Manzoor Ahmad , and Farzana Shaheen. Biological and Pharmacological Effects of <i>Myricaria elegans</i> Royle. <i>International Chemical, Pharmaceutical and Medical journal</i> , 2(1), 197-200 (2005).
30	Farzana Shaheen, Manzoor Ahmad , Shazia Anjum, M. Sukeri M. Yusof, Bohari Mohd. Yamin, Habib Ahmad, M. Iqbal Choudhary and Atta-ur-Rahman. [16 β]-

	20- <i>N</i> -Ethyl-16, 18-Dimethoxy-1,8, 14-Trihydroxylycoctonin. <i>Acta Crystallographica</i>, E60, 0774-0776 (2004).
31	S. Khattak, Saeed-ur-Rehman, T. Khan, A. Ali, Manzoor Ahmad . <i>In vitro</i> Screening for Biological and Pharmacological Effects of Indigenous Medicinal Plants, <i>Mentha logifolia</i> and <i>Aloe vera</i> , <i>J. Chem. Soc. Pak.</i> 26 (3), 248-251, (2004).
32	Mansoor Ahmad, Mehjabeen, Noorjahan, Noor Muhammad Shah, Manzoor Ahmad , Hyder Raza, Saeed khan, and Asif Bin Rehman. Results of rapid anti microbial sensitivity and toxicity test of the extracts of <i>Swertia chirata</i> , <i>Symplocos racemosa</i> and <i>Solanum nigrum</i> . <i>International Chemical Pharmaceutical and Medical Journal</i> , 1(2), 145-147 (2004).
33	M. Iqbal Choudhary, Shamsheer Ali, Shazia Anjum, Manzoor Ahmad , Azhar Abdul Rahman, Hoong-Kun Fun and Atta-ur-Rahman. Structure Reports of 4, 4, 14-Trimethyl-3 α , 20-bis (methyl amino)-9,19-cyclo-5 α -pregnan-16-0l. <i>Acta Crystallographica</i>, E59, 01751-01753 (2003).
34	Bashir Ahmad, Qasim Jan, Shumaila Bashir, Muhammad Nisar, Farzana Shaheen and Manzoor Ahmad . Pharmacological and Biological Investigation of <i>Chenopodium murale</i> Linn. <i>Asian Journal of Plant Sciences</i> , 2 (15-16): 1107-1111 (2003).
35	Taous Khan, W. Ahmad, Manzoor Ahmad , Farzana Shaheen, M. Arfan, "Biological and Pharmacological Properties of <i>Abroma augusta</i> Linn. Seed Oil", <i>Pak. J. Bio. Sci.</i> , 6 (13), 1142 – 1144, (2003).
36	Waqar Ahmad, Taous Khan, Mansoor Ahmad, Manzoor Ahmad , Bashir Ahmad, Zafar Iqbal and Muhammad Arfan, Chemical Composition of <i>Abroma augusta</i> Linn. Seed Oil, <i>Pakistan J. Biol. Sci.</i> , 6 (12), 1033 – 1034, (2003).
37	Waqar Ahmad, Bashir Ahmad, Manzoor Ahmad , Zafar Iqbal, Muhammad Nisar, and Mansoor Ahmad. <i>In Vitro</i> inhibition of acetylcholinesterase, butyrylcholinestrerase and lipoxygenase by crude extract of <i>Myricaria elagans</i> Royle. <i>Pak. J. Biol. Sci.</i> , 3(11), 1046-1049, (2003).
38	Ulubelen, A. H. Mericli, F. Mericli, U. Kolak, M. Arfan, Manzoor Ahmad and H. Ahmad. Norditerpenoid alkaloids from the roots of <i>Aconitum laeve</i> Royle. <i>Pharmazie</i> . 57(6), 427-429, (2002).
39	Ulubelen, A. H. Mericli, F. Mericli, U. Kolak, M. Arfan, Manzoor Ahmad and H. Ahmad. Royleinine, A new Norditerpenoid alkaloid from <i>Delphinium roylei</i> Munz. <i>Heterocycle</i> , 53 (10), 2279-2283, (2000).

ABSTRACTS

1. α -Glucosidase Inhibitors from *Myrtus communis* Linn. **Manzoor Ahmad**, Farzana Shaheen, Shams-un-Nahar Khan, Shazia Anjum, Muhammad Iqbal Choudhary, and Atta-ur-Rahman. First international Conference on Recent challenges in chemistry, Oral, (Abstract), pp. 43, November 1-3, **2006**.

2. Antibacterial compounds from *Myrtus communis* Linn. **Manzoor Ahmad**, Farzana Shaheen, Shazia Anjum, Syeda Samreen Hussain, Mukhlis N. Sultankhodzhaev, M. Iqbal Choudhary and Atta-ur-Rahman. 10th international symposium on Natural product chemistry **Poster**, (Abstract), PO-009, pp, 115, January 6-9, **2006**.
3. Chemical constituents from *Chenopodium botrys* Linn. M. Abdullah Al-Maruf, M. I. Choudhary, **Manzoor Ahmad** and Atta-ur-Rehman. 10th international symposium on Natural product chemistry **Poster**, (Abstract), PO-018, pp, 124, January 6-9, **2006**.
4. Biological Activities of "*Swertia cordata*. Sirajuddin, **Manzoor Ahmad**, Sajidul Ghafoor, Anwar ul Haq, Ali Hazarat, Muhammad Irfan, Farzana Shaheen and Jahandar Shah. 10th international symposium on Natural product chemistry. **Poster**, (Abstract), PO-193, pp, 300, January 6-9, **2006**.
5. Extraction of bioactive constituents from *Delphinium nordhagenii*. Muhammad Liaquat Raza, Humera Perveen, Muhammad Zeeshan, Liaquat Ali Malik, **Manzoor Ahmad**, Farzana Shaheen and Shabana U Simjee. 40th IUPAC Congress, Innovation in Chemistry Beijing China. **Poster**, (Abstract), 2-P-076, pp. 292, August 14-19, **2005**.
6. Active principle of bioactive constitute from *Aconitum Violaceum*. Muhammad Zeeshan, **Manzoor Ahmad**, M. Liaquat Raza, Humera Perveen, Tania Razvi, Huma Javed, Liaquat Ali Malik, Shabana U Simjee and Farzana Shaheen. AFASSA Symposium on Natural Products and Regional Meeting. Organized by HEJ Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270. **Poster**, (Abstract), PO-18, pp, 33, July 25-27, **2005**.
7. Antiepileptic activity of acetone fraction of *Aconitum* species. Humera Perveen, M. Liaquat Raza, M. Zeeshan, **Manzoor Ahmad**, Farzana Shaheen and Shabana U Simjee. AFASSA Symposium on Natural Products and Regional Meeting. Organized by HEJ Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270. **Poster**, (Abstract), PO-11, pp, 26, July 25-27, **2005**.
8. Anticonvulsant activity of Dns-Ii acetone fraction of *Delphinium nordhagenii*. M. Liaquat Raza, H. Perveen, M. Zeeshan, **Manzoor Ahmad**, Liaquat A. Malik, Tania Razvi, Farzana Shaheen and Shabana U Simjee. AFASSA Symposium on Natural Products and Regional Meeting. Organized by HEJ Research Institute of Chemistry, International Center for Chemical Sciences, University of Karachi, Karachi-75270. **Poster**, (Abstract), PO-10, pp, 25, July 25-27, **2005**
9. Swatinine, A New Norditerpenoid Alkaloid from *Aconitum laeve* Royle, and its Anti-inflammatory and Tyrosinase Inhibition studies on the Diterpenoid Alkaloids. **Manzoor Ahmad**, F. Shaheen, S. Jalil, M. T. H. Khan, M. I. Choudhary, and Atta-ur-Rehman. 9th international symposium on Natural product chemistry, **Abstract**, 10 (PO), pp. 115, January 10-13, **2004**.

10. Biological activities of *Myrtus communis* Linn. **Manzoor Ahmad**, F. Shaheen, M. I. Choudhary, S. Ali, S. Ahmad, S. M. Khudajzhave, T. Makhmoor and Atta-ur-Rehman. 3rd National conference on Pre-clinical and clinical researches on Products of Biological origin In Hospitals, **Abstract**, (17th April **2004**).

REFEREES FOR RECOMMENDATION

<p>Prof. Dr. M. Iqbal Choudhary, <i>T. I., S.I., H. I.</i> <i>Director (Acting)</i> H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan. Fax: 92-21-4819018, 4819019 Tel: 92-21-4824930, 34, 36 E. mail: hej@cyber.net.pk, zainaraa@digicom.net.pk,</p>	<p>Dr. Farzana Shaheen (Research Supervisor) Assistant Professor H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan. Fax: 92-21-4819018, 4819019 Tel: 92-21-4824930, 34, 36 E-mail: farzana.rauf@iccs.edu afnan.iccs@gmail.com</p>
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