

## CURRICULUM VITAE

### Manzoor Ahmad Ph.D.

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### RESEARCH EXPERIENCE

1. Senior Research Fellow (Phytochemistry), Swaziland Institute for Research in Traditional Medicine, Medicinal and Indigenous Food Plants (SIRMIP), University of Swaziland, Swaziland, Southern Africa. From **February 2010 to March 2011**.
2. Worked as senior research associate in the research group of Prof. M. Iqbal Choudhary at University of Karachi, Karachi. **2006-2008**.
3. Worked on Isolation and Characterization of Secondary Metabolites from *Myrtus communis* L., *Delphinium roylei* Munz and Related Medicinal Plants. During **2002-2006**.
4. Worked as Scientific Officer for Preservation and Research on High Valued Medicinal Plants at High Altitude, Sheringal Campus (SHAARK), University of Malakand. During **2004-2005**.
5. Worked on Isolation and Characterization of Alkaloids from *Delphinium roylei* Munz and *Aconitum laeve* Royle. During **1998-2002**.

### CURRENT RESPONSIBILITIES

- 1: Associate Professor at the Department of Chemistry, University of Malakand, since 26<sup>th</sup> December 2013, Assistant Professor April **2008 to 25<sup>th</sup> December 2013**.
- 2: Teaching/Research graduate/post graduate/M. Phil/PhD students at Department of Chemistry, University of Malakand, Chakdara, Dir (L).
- 3: The following students are registered for M.Phil./Ph.D. work under my supervision.

S. No.	Name of Student	Date of Registration	Title of Thesis
1	Seema Begum	January 2010	Isolation and Characterization of Secondary Metabolites from <i>Aconitum laeve</i> Royle, and <i>Myrtus communis</i> Linn., ( <b>Ph.D.</b> )
2	Husna Gul	January 2010	Phytochemical and pharmacological study of <i>Gratiola officinalis</i> . ( <b>M.Phil</b> )/ Degree Awarded
3	Shujat Ahmad	July 2010	( <b>PhD</b> )
4	M. Ashraf	Feb. 2012	( <b>M.Phil</b> )
5	Hanif Ahmad	Feb. 2012	( <b>Ph.D.</b> )
6	Rashid Ahmad	March 2013	( <b>M. Phil</b> )
7	Babar Khan	March 2013	( <b>M. Phil</b> )

## ACADEMICS

### **Ph.D. (Organic Chemistry, 2007)**

International Center for Chemical and Biological Sciences (ICCBS), H.E.J. Research Institute of Chemistry, University of Karachi, Karachi-75270, Pakistan

**Supervisor:** Dr. Farzana Shaheen

**Thesis Title:** "Isolation and Characterization of Secondary Metabolites from *Myrtus communis* L., *Delphinium roylei* Munz and Related Medicinal Plants"

### **M.Phil (Organic Chemistry, 2002)**

Department of Chemistry, University of Peshawar, Peshawar-25120, Pakistan

**Supervisor:** Prof. Muhammad Arfan

**Thesis Title:** "Isolation and Characterization of Alkaloids: Study of *Delphinium roylei* Munz and *Aconitum laeve* Royle."

### **M.Sc. Chemistry (1997)**

University of Peshawar, Peshawar, Pakistan

### **B.Sc. (1994)**

University of Peshawar, Peshawar, Pakistan

## RESEARCH PUBLICATIONS

1. New  $\alpha$ -glucosidase inhibitors and antibacterial compounds from *Myrtus communis* 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. Muhammad Liaqat Raza, Muhammad Zeeshan, **Manzoor Ahmad**, Farzana Shaheen, Shabana U. Simjee. Antiepileptogenic action of *Delphinium nordhagenii* in PTZ-kindled model of epileptogenesis in mice. *Exper. Brain Res.*, (under review, **2013**)
3. Muhammad Zeeshan, **Manzoor Ahmad**, Habib Ahmad and Farzana Shaheen. Antioxidant norditerpenoid Alkaloid from *Delphinium nordhagenii* Wendelbo in Nytt Mag. *Nat. Prod. Rep.*, (under review **2013**).
4. Obaidullah, Muhammad Nisar Ahmad, Waqar Ahmad, Shafiq Ahmad Tariq and **Manzoor Ahmad**. Antimicrobial norditerpenoid alkaloids from *Aconitum heterophyllum* wall. *Planta Med.*, (under review **2013**)
5. **Manzoor Ahmad**, Seema Begum, Waqar Ahmad, Sajjad Ali, and Muhammad Iqbal Choudhary. New antioxidant and  $\alpha$ -glucosidase inhibitors from *Myrtus communis* Linn., *Eur. J. med. Chem.*, (under review **2013**)
6. M. Nisar, Inamullah khan, **Manzoor Ahmad**. Molecular docking of Taxawallin I to  $\beta$ -tubulin: anticancer taxoid from *Taxus wallichiana* Zucc. *Phyto. Res.*, (under review, **2013**)
7. Waqar Ahmad, Imran Khan, Mir Azam Khan, **Manzoor Ahmad**, Fazal Subhan, Nasiara Karim. Evaluation of antidiabetic and antihyperlipidemic activity of *Artemisia indica* linn (Aerial parts) in Streptozotocin induced diabetic rats. *Journal of Ethnopharmacology*, **151(1)**, 618-623 (2014)
8. Seema Begum, Mumtaz Ali, Abdul Latif, Waqar Ahmad, Sultan Alam, Muhammad Nisar, Muhammad Zeeshan, Mahmud Tareq Hassan Khan, Farzana Shaheen and **Manzoor Ahmad**.

Pharmacologically active norditerpenoid Alkaloids from *Aconitum laeve* Royle. **Record of Natural Products** (In Press 2014)

9. A. Latif , S. H. Hussain, M. Ali, M. Arfan, **Manzoor Ahmed**, R. J. Cox, T. J. Simpson and G. Uddin. A New Antioxidant Triterpenoid from the Stem Wood of *Sorbus lanata*. **Record of Natural Products**, 8(1), 19-24 (2014)
10. M. Iqbal Choudhary, Noureen Khan, Manzoor Ahmad, Sammer Yousuf, Hoong-Kun Fun, Samreen Soomro, M. Asif, M. Ahmed Mesaik and Farzana Shaheen. New Inhibitors of ROS Generation and T-Cell Proliferation from *Myrtus communis*. **Organic Letter**, 15(8), 1862-1865 (2013)
11. M. Ali, M. Arfan, K. Zaman, H. Ahmad, N. Akbar, Manzoor Ahmed, I. Raza and R. Shah. Antiproliferative Activity and Chemical Constituents of *Hypericum dyeri*. Rehder. **J. Chem. Soc. Pak.**, 35(2), 391-395 (2013)
12. Liaqat Ali, Tania Shamim Rizvi, **Manzoor Ahmad** and Farzana Shaheen. New iridoid glycoside from *Gratiola officinalis* (Scrophulariaceae). **Journal of Asian Natural Product Research**. 14(12), 1191-1195 (2012)
13. Seema Begum, Mumtaz Ali, Husna Gul, Waqar Ahmad, Sultan Alam, Momin Khan and Mir Azam and **Manzoor Ahmad**. *In vitro* enzyme inhibition activities of *Myrtus communis* L., **African J Pharm. Pharma.** 6(14), 1083-1087 (2012)
14. Mansoor Ahmad, Noor Muhammad, Mehjabeen, Noor Jahan, **Manzoor Ahmad** and Salman Habib. Pharmacological and biological evaluation of extracts from *Gratiola officinalis* L. (Scrophulariaceae). **Pak. J. of Pharm. Sci.**, 25(3), 657-663 (2012)
15. Mansoor Ahmad, Noor Muhammad, Mehjabeen, Noor Jahan, Syed Mahboob Alam, **Manzoor Ahmad** and Obaidullah. Biological screening of *Scrophularia nodosa* extract and its fractions. **Pak. J. of Pharm. Sci.**, 25(2), 307-313 (2012)
16. Mansoor Ahmad, Noor Muhammad, Mahjabeen, Noor Jehan, **Manzoor Ahmad**, Obaidullah, Mahmood Qureshi and Syed Umar Jan. Spasmolytic effects of *Scrophularia nodosa* on isolated rabbit intestine. **Pak. J. of Pharm. Sci.**, 25(1), 267-251 (2012)
17. H. Khan, M. Saeed, M. A. Khan, I. Khan, **Manzoor Ahmad**, N. Muhammad, A. Khan. Antimicrobial and free radical scavenging activities of rhizomes of *Polygonatum verticillatum* supported by isolated metabolites. **Med. Chem. Res.**, 21(7), 1278-1282 (2012)
18. M. Ali, M. Arfan, **Manzoor Ahmad**, K. Singh, I. Qadir. I. Anees, M. I. Choudhary and M. R. Shah. Anti-inflammatory Xanthones from *Hypericum oblongifolium* Wall. **Planta Med.**, 77, 2013-2018, (2011)
19. I. Khan, M. Nisar, **Manzoor Ahmad**, H. Shah, Z. Iqbal, M. Saeed, S. M. A. Halimi, W. A. Kaleem, M. Qayum, A. Aman and S. M. Abdullah. Molecular simulations of Taxawallin I inside classical taxol binding site of  $\beta$ -tubulin. **Fitoterapia**, 82(2), 276-281 (2011)
20. Mansoor Ahmad, Noor Jehan, Mahayrookhh, Mahjabeen, Asif Bin Rahman, **Manzoor Ahmad**, Obaidullah and Noor Muhammad. Differential inhibitory potencies of alcoholic extract of different parts of *Dryopteris chrysocoma* on inflammation in mice and rats. **Pak. J. of Pharm. Sci.**, 24(4), 559-563 (2011)
21. F. Z. saltan, M. Sokmen, M. Akin, H. TanerSaracoglu, R. suleyman Goktruk, **Manzoor Ahmad**, M. Ali, M.R. Shah. Antimircrobial and antioxidant activities of phenolic compounds extracted

- from new *Verbascum* species growing in Turkey. *J. of the Chem. Soc. Pak.*, 33(5), 764-771 (2011)
22. Shafiq Ahmad Tariq, Muhammad Nisar Ahmad, Obaidullah, Ajmal Khan, Muhammad iqbal Choudhary, Waqar Ahmad and **Manzoor Ahmad**. Urease inhibitor from *Indigofera gerardiana* Wall. *J. of Enz. Inh. and Med. Chem.*, 26(4), 480-484 (2011)
  23. Mahmud Tareq Hassan Khan, Rasool Khan, Yimingjiang Wuxiuer, Mohammad Arfan, **Manzoor Ahmad** and Ingebrigt Sylte. Identification of novel Quinazolin-4 (3H)-ones as inhibitors of Thermolysin, the prototype of the M4 family of proteinases. *Bioor. & Med. Chem.*, 18, 4317-4327 (2010)
  24. Muhammad Arfan, Rasool Khan, Murad Ali, Sahzia Ajum, **Manzoor Ahmad**, and Muhammad Iqbal Choudhary. Synthesis and Antileishmanial and Anti microbial Activities of some 2,3-disubstituted-3H-quinazolin-4-one Derivatives. *J. Enz. Inh. and Med. Chem.*, 25(4), 451-458 (2010)
  25. Muhammad Liaqat Raza, Muhammad Zeeshan, **Manzoor Ahmad**, Farzana Shaheen, Shabana U. Simjee. Anticonvulsant activity of DNS II fraction in the acute seizure models. *J. of Ethnopharm.*, 128, 600-605 (2010)
  26. Mohammad Ismail, Mohammad Ibrar, Zafar Iqbal, Javid Hussain, Hidayat Hussain, **Manzoor Ahmad**, Asma Ejaz, and Muhammad Iqbal Choudhary. Chemical constituents and antioxidant activity of *Geranium wallichianum*. *Records of Nat. Prod.*, 3(4), 193-197 (2009)
  27. Niaz Ali, Bashir ahmad, Shumaila Bashir, Jehandar Shah, Sadiq Azam, **Manzoor Ahmad**. Calcium channel blocking activities of *Withania coagulans*. *Afr. J. of Pharm. Pharm.*, 3(9), 439-442 (2009)
  28. Sultan Alam, **Manzoor Ahmad**, Fazlullah Khan Bangash. Removal of Brilliant Blue R from Aqueous Solution on Activated Carbon Produced from Carbonaceous substrate. *Tenside Surfactants and Detergents*. 46(4), 205-213 (2009)
  29. Saeed-ur-Rahman, Nauman Ali, Muhammad Arsahd, **Manzoor Ahmad** and Gul Akhtar. The structural studies of complexes of 1,3-di-(1*H*-imidazol-1-yl)-2-propanol. *J. of the Chem. Soc. Pak.*, 31(3), 391-395 (2009)
  30. Muhammad Nisar, Obaidullah, **Manzoor Ahmad**, Muhammad Arif Lodhi, Farzana Shaheen, and Muhammad Iqbal Choudhary. New diterpenoid Alkaloids from *Aconitum heterophyllum* Wall: Selective Butyrylcholinestrase Inhibitors. *J. of Enz. Inh. and Med. Chem.*, 24(1), 47-51 (2009)
  31. 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. *Chinese Sci. Bull.*, 52(21), 3287-93 (2008)
  32. **Manzoor Ahmad**, Waqar Ahamd, Mansoor Ahmad, Obaidullah, Muhammad Zeeshan, and Farzana Shaheen. Norditerpenoid alkaloids from the roots of *Aconitum heterophyllum* Wall. *J. of Enz. Inh. and Med. Chem.*, 23(6), 1018-1022 (2008)
  33. **Manzoor Ahmad**, Waqar Ahamd, Saleemullah Khan, Mansoor Ahmad, Muhammad Nisar, Muhammad Zeeshan, and Farzana Shaheen. Antibacterial Pentacyclic Triterpenoids from *Myricaria elegans*. *J. of Enz. Inh. and Med. Chem.*, 23(6), 1023-1027 (2008)
  34. 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 *Datisca cannabina* Linn. *J. of Enz. Inh. Med. Chem.*, 23(3), 386-390 (2008)

35. Muhammad Liaqat Raza, Muhammad Zeeshan, **Manzoor Ahmad**, Farzana Shaheen, Shabana U. Simjee. Toxicity testing behavior assessment of anticonvulsant fraction isolated from *Delphinium* specie. *J. of Pharm. and Toxi. Methods* 58(2) 152 (2008)
36. 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  $\alpha$ -glucosidase inhibitors and antibacterial compounds from *Myrtus communis* Linn., *Eur. J. Org. Chem.*, 2371-2377 (2006)
37. Farzana Shaheen, Muhammad Zeeshan, **Manzoor Ahmad**, Shazia Anjum, Shamshir Ali, Hong-Kun Fun, Muhammad Iqbal Choudhary, and Atta-ur-Rahman. Norditerpenoid alkaloids from *Delphinium nordhagenii*. *J. Nat. Prod.*, 69, 823-825 (2006)
38. Anwar-ul Hassan Gilani, Abdul Jabbar Shah, **Manzoor Ahmad** and Farzana Shaheen. Antispasmodic effect of *Acorus calamus* Linn., is mediated through calcium channel blockade. *Phytother. Res.*, 20, 1080-1084 (2006)
39. **Manzoor Ahmad**, Shamsher Ali, Farzana Shaheen, Shazia Anjum, and M. Iqbal Choudhary. 14-Acetyl-20-Ethyl-1, 8-Dihydroxy-16, 18-Dimethoxylycoctonine. *Acta Crystallographica*, E62, 01428-01430 (2006)
40. **Manzoor Ahmad**, Farzana Shaheen, Bahodir Tashkhodjaev, Kambarali Turgunov, Mukhlis N. Sultankhodzhaev, Muhammad Iqbal Choudhary, and Atta-ur-Rahman. Chemical Constituents of *Myrtus communis* L. *Chem. Nat. Comp.*, 3, 277, (2006) (Russ)
41. Farzana Shaheen, **Manzoor Ahmad**, Mahmood Tareq Hassan Khan, Saima Jalil, Asma Ejaz, Mukhlis N. Sultankhodjaev, Muhammad Arfan, M. Iqbal Choudhary and Atta-ur-Rahman. Alkaloids of *Aconitum laeve* Royle and their anti inflammatory, antioxidant and tyrosinase inhibition activities. *Phytochemistry*, 66, 935-940, (2005)
42. 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 *Paeonia emodii* Wall, *J. Enz. Inh. Med. Chem.*, 20(3), 245-249, (2005).
43. Somia Khattak, Saeed-ur-Rehman, Waqar Ahmad, Hameed Ullah Shah, Anwar Ali and **Manzoor Ahmad**, Biological Effects of Indigenous Medicinal Plants *Curcuma longa* Linn., and *Alpinia galanga*. *Fitoterapia* 76, 254-257, (2005).
44. S. Khattak, Saeed-ur-Rehman, H. U. Shah, T. Khan, **Manzoor Ahmad**. *In-vitro* Enzyme inhibition activities of crude ethanolic extracts derived from medicinal plants of Pakistan, *Nat. Prod. Res.*, 19, 567-571, (2005).
45. 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, Lipxygenase Inhibitors from *Onosma hispidum* *Chem. Pharm. Bull.*, 53(8), 907-910 (2005).
46. Mansoor Ahmad, Taous Khan, Muhammad Nisar, Muhammad Arif Lodhi, Waqar Ahmad, and **Manzoor Ahmad**. *In vitro* inhibition of Urease and  $\square$ -Chymotrypsin by some selected indigenous Medicinal Plants. *International Chem. Pharm. Med. J.*, 2(1), 179-181 (2005).
47. Waqar Ahmad, Mansoor Ahmad, Muhammad Nisar, Salimullah, Zafar Iqbal, **Manzoor Ahmad**, and Farzana Shaheen. Biological and Pharmacological Effects of *Myricaria elegans* Royle. *International Chem. Pharm. Med. J.*, 2(1), 197-200 (2005).

48. Farzana Shaheen, **Manzoor Ahmad**, Shazia Anjum, M. Sukeri M. Yusof, Bohari Mohd. Yamin, Habib Ahmad, M. Iqbal Choudhary and Atta-ur-Rahman. [16 $\beta$ ]-20-N-Ethyl-16, 18-Dimethoxy-1,8, 14-Trihydroxylycoctonin. *Acta Crystallographica*, **E60**, 0774-0776 (2004).
49. S. Khattak, Saeed-ur-Rehman, T. Khan, A. Ali, **Manzoor Ahmad**. Invitro Screening for Biological and Pharmacological Effects of Indigenous Medicinal Plants, Mentha logifolia and Aloe vera, *J. Chem. Soc. Pak.* 26 (3), 248-251, (2004).
50. 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 Swertia chirata, Symplocos racemosa and Solanum nigrum. *International Chemical Pharmaceutical and Medical Journal*, 1(2), 145-147 (2004).
51. 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 $\alpha$ , 20-bis (methyl amino)-9,19-cyclo-5 $\alpha$ -pregnan-16-0l. *Acta Crystallographica*, **E59**, 01751-01753 (2003).
52. Bashir Ahmad, Qasim Jan, Shumaila Bashir, Muhammad Nisar, Farzana Shaheen and **Manzoor Ahmad**. Pharmacological and Biological Investigation of *Chenopodium murale* Linn. *Asian J. Plant Sci.*, 2 (15-16): 1107-1111 (2003).
53. Taous Khan, W. Ahmad, **Manzoor Ahmad**, Farzana Shaheen, M. Arfan, "Biological and Pharmacological Properties of *Abroma augusta* Linn. Seed Oil", *Pak. J. Bio. Sci.*, **6** (13), 1142 – 1144, (2003).
54. Waqar Ahmad, Taous Khan, Mansoor Ahmad, **Manzoor Ahmad**, Bashir Ahmad, Zafar Iqbal and Muhammad Arfan, Chemical Composition of *Abroma augusta* Linn. Seed Oil, *Pak. J. Biol. Sci.*, **6** (12), 1033 – 1034, (2003).
55. Waqar Ahmad, Bashir Ahmad, **Manzoor Ahmad**, Zafar Iqbal, Muhammad Nisar, and Mansoor Ahmad. In Vitro inhibition of acetylcholinesterase, butyrylcholinestrerase and lipoxygenase by crude extract of *Myricaria elagans* Royle. *Pak. J. Biol. Sci.*, **3**(11), 1046-1049, (2003).
56. Ulubelen, A. H. Mericli, F. Mericli, U. Kolak, M. Arfan, **Manzoor Ahmad** and H. Ahmad. Norditerpenoid alkaloids from the roots of *Aconitum laeve* Royle. *Pharmazie*. 57(6), 427-429, (2002).
57. Ulubelen, A. H. Mericli, F. Mericli, U. Kolak, M. Arfan, **Manzoor Ahmad** and H. Ahmad. Royleinine, A new Norditerpenoid alkaloid from *Delphinium roylei* Munz. *Heterocycle*, 53 (10), 2279-2283, (2000).

## REFERENCES

<p><b>Prof. Dr. M. Iqbal Choudhary, T.I., S.I., H.I.</b>  <b>Director</b>            H.E.J. Research Institute of Chemistry,            ICCBS, University of Karachi, Pakistan.            Fax: 92-21-4819018, 4819019            Tel: 92-21-4824930, 34, 36            E. mail: <a href="mailto:hej@cyber.net.pk">hej@cyber.net.pk</a>,  <a href="mailto:zainaraa@digicom.net.pk">zainaraa@digicom.net.pk</a>,</p>	<p><b>Dr. Farzana Shaheen (Associate Professor)</b>  <b>(Ph.D, Research Supervisor)</b>            H.E.J. Research Institute of Chemistry,            ICCBS, University of Karachi, Pakistan.            Fax: 92-21-4819018, 4819019            Tel: 92-21-4824930, 34, 36            E-mail: <a href="mailto:farzana.rauf@iccs.edu">farzana.rauf@iccs.edu</a>  <a href="mailto:afnan.iccs@gmail.com">afnan.iccs@gmail.com</a></p>
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