

*CV and List of Publications*

**PROF. DR. MUHAMMAD IQBAL CHOUDHARY**

*(Hilal-i-Imtiaz, Sitara-i-Imtiaz, Tamgha-i-Imtiaz)*

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Ph.: 92-21-4901110**MAILING ADDRESS**INTERNATIONAL CENTER FOR CHEMICAL AND  
BIOLOGICAL SCIENCES  
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Web: [www.iccs.edu](http://www.iccs.edu)**DATE OF BIRTH**

September 11, 1959 (Karachi, Pakistan)

**EDUCATION****Doctor of Science (D.Sc.)** (University of Karachi ) 2005**Ph.D. (Organic Chemistry)** 1987H. E. J. Research Institute of Chemistry  
University of Karachi, Karachi, Pakistan**Thesis Title:** "The Isolation and Structural Studies on Some Medicinal Plants of Pakistan, *Buxus papillosa*, *Catharanthus roseus*, and *Cissampelos pareira*."**M.Sc. (Organic Chemistry)** 1983

University of Karachi, Karachi, Pakistan

**B.Sc. (Chemistry, Biochemistry, Botany)** 1980

University of Karachi, Karachi, Pakistan

**AWARDS & HONORS**

- **Hilal-i-Imtiaz** by the President of Pakistan 2007
- **Sitara-i-Imtiaz** by the President of Pakistan 2001
- **Tamgha-i-Imtiaz** by the President of Pakistan 1998
- **First Khwarizmi International Award and Prize from the President of Islamic Republic of Iran** 2006
- **Economic Cooperation Organization (ECO) Award in Education 2006** by the President of Azerbaijan 2006
- **Fellow of the Third World Academy of Sciences (TWAS)** 2002
- **Fellow of the Islamic Academy of Sciences (IAS)** 2002
- **Fellow of the Royal Society of Chemistry (FRSC)** 2004
- **Fellow of the Pakistan Academy of Sciences (FPAS)** 2003
- **Fellow of the Chemical Society of Pakistan (FCSP)** 2001

- **Fellow of the International Union of Pure and Applied Chemistry (IUPAC)**
- **Fellow of the LEAD International** (Leadership in Environment and Development) 1998
- **Fellow of the World Innovation Foundation** 2006
- **Senior Fulbright Research Awards (USA)** 1997-98
- **Prof. Abdussalam (Nobel Laureate ) Prize in Chemistry (1990)** 1992
- **Prof. M. Raziuddin Siddiqui Gold Medal of Pakistan Academy of Sciences** 1993
- **Third World Academy of Sciences (Trieste, Italy) Young Scientist Award** 1994
- **National Book Foundation's Prize for Chemistry Publication** 1996
- **Distinguished National Professor** by the Higher Education Commission 2004

**EXPERIENCE**

- Visiting Professor** October 2009  
King Saud University (KSU)  
Riyadh,  
Saudi Arabia. Present
- Director** September 2008  
International Center for Chemical and Biological Sciences  
H.E.J. Research Institute of Chemistry  
University of Karachi Present
- Director (Acting)** 22 August  
International Center for Chemical and Biological Sciences  
H.E.J. Research Institute of Chemistry  
University of Karachi 2002-  
September 2008
- Co-Director** 22 August  
Panjwani Center for Molecular Medicines and Drug Research  
International Center for Chemical and Biological Sciences  
University of Karachi 2002-Present
- Professor** April 2000-  
H.E.J. Research Institute of Chemistry  
University of Karachi Present
- Guiding Graduate Level Research in the Fields of Natural Products and Structural Organic Chemistry and In-charge of the Enzyme Inhibition Studies / Antioxidant Laboratories and Bioassay Facilities of the Institute.*
- Associate Professor** July 1994-  
H.E.J. Research Institute of Chemistry,  
University of Karachi April 2000

Senior Fulbright Fellow <b>Scripps Institute of Oceanography</b> University of California, San Diego, USA	1994
<b>Assistant Professor</b> H.E.J. Research Institute of Chemistry, University of Karachi	Dec. 1988- July 1994
<b>Visiting Faculty</b> Department of Chemistry, Cornell University, Ithaca, NY 14853, USA	Aug. 1994- Dec. 1994
<b>Visiting Faculty</b> Department of Chemistry, Cornell University, Ithaca, NY 14853, USA	Aug. 1992- Dec. 1992
<b>Visiting Scientist</b> Department of Chemistry, Cornell University, Ithaca, NY 14853, USA	May 1990- Aug. 1990
<b>Visiting Scientist</b> Department of Chemistry, Cornell University, Ithaca, NY 14853, USA	June 1989- Sep. 1989
<b>Visiting Scientist</b> Department of Medicinal Chemistry Purdue University, West Lafayette, Indiana 47907, USA	Sep. 1989- Nov. 1989
<b>Post Doctoral Research Associate</b> Department of Chemistry, Cornell University, Ithaca, NY 14853, USA	Dec. 1987- Dec. 1988
"Single Crystal X-Ray Diffraction Studies on Novel Natural Products and Synthetic Peptides".	
<b>Senior Research Fellow</b> H.E.J. Research Institute of Chemistry University of Karachi, Karachi-75270, Pakistan "Isolation and Structure Elucidation of New Steroidal Alkaloids from <i>Buxus</i> Species".	Dec. 1986- Oct. 1987
<b>Research Associate</b> Department of Chemistry Pennsylvania State University, University Park, PA 16802, USA "Phytochemical Studies on Medicinally Important Flora".	Nov. 1985- Nov. 1986
<b>Research Student</b> Department of Chemistry University of Karachi, Karachi-75270, Pakistan "Quantitative Analysis of Organic Pollutants in Soil and Rain Water of Karachi City".	Dec. 1981- Aug. 1983

**MEMBERSHIPS  
AND OTHER**

- Associate Member of International Union of Pure and Applied Chemistry (IUPAC) Organic and Biomolecular Chemistry Division for

**SERVICES**

*the tern 2010-2011*

- *Member of the Executive Committee of the National Commission for Science and Technology Pakistan (ECNCST)*
- *Member of the National Commission on Nanotechnology*
- *Member of the Board of Trustees of the Pakistan Science Foundation*
- *Member of the Board of Governor of the Virtual University, Pakistan, 2008.*
- *Member of the Board of Governors of COMMECS Institute of Business and Emerging Sciences (CIBES), Karachi.*
- *Member of National Commission for Science and Technology, Chaired by the Prime Minister of Pakistan.*
- *Member of the Executive Board of the Pakistan Atomic Energy Commission Chaired by the Prime Minister of Pakistan*
- *Member of the National Commission on Biotechnology*
- *Member of the American Chemical Society*
- *Member of the American Society of Pharmacognosy*
- *Member of the New York Academy of Sciences*
- *Member of the Federation of Asian Chemical Societies (FACS)*
- *Member, Executive Board of the Asian Network of Research on Anti-Diabetic Plants (ANRAP)*
- *Member of the Steering Committee on Higher Education Pakistan (2002-2003) constituted by the President of Pakistan*
- *Member of the Executive Council of AFASSA Network (Africa Asia and South America)*
- *Member of the Swiss Chemical Society*
- *Member of the Inter Academy Study Panel (IAP), Amsterdam, The Netherlands*
- *Member of the Committee for Central Research Fund, Ministry of Health, Pakistan*
- *Member of PTCL Research Board (2001-2004)*
- *Member of the Selection Board of the Federal Urdu University for Arts, Science and Technology*
- *Member Sectoral Committee on University-Industry Steering Committee (Pharmaceutical) HEC, Islamabad.*
- *Member of the Selection Board of Pakistan Standards & Quality Control Authority*
- *Member of the Grant Committee of Aga Khan Medical University (2001-2004)*
- *Member of the Board of Studies of COMSATS University*
- *Member of the Board of Studies of The Lasbella University, Uthal*
- *Convener of the National Core Group in Chemistry of Government of Pakistan*

- *Member of the Presidential Steering Higher Education Commission*
- *Member of the Executive Committee of National Commission for Science and Technology (ECNCST)*
- *Member of the American Physiological Society, USA*
- *Vice-President, Phytochemical Society of Asia*

**SPECIAL  
DISTINCTIONS  
AND SERVICES**

- *Highest Number of International International Research Publications by any Scientist of Pakistan in last 10 Year*
- *Secretary General, The Chemical Society of Pakistan*

**A. BOOKS**

**Published in**

- |     |  | <b>Published in</b> |
|-----|--|---------------------|
| 1.  | "Solving Problems with NMR Spectroscopy", Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , Academic Press, San Diego (1995).   | USA                 |
| 2.  | "Recent Discoveries in Natural Product Chemistry" (Proceedings of the 19th IUPAC Symposium on the Chemistry of Natural Products, Jan., 1994, Karachi), Atta-ur-Rahman, <b>M. Iqbal Choudhary</b> and M. S. Shekhani, Elite Publishers, Karachi (1996). | Pakistan            |
| 3.  | "Progress in Medicinal Chemistry", (Studies in Medicinal Chemistry, Vol. I), <b>M. Iqbal Choudhary</b> , Harwood Academic Publishers, Amsterdam (1996).  | The Netherlands     |
| 4.  | "Biological Inhibitors" (Studies in Medicinal Chemistry, Vol. II), <b>M. Iqbal Choudhary</b> , Harwood Academic Publishers, Amsterdam (1996).  | The Netherlands     |
| 5.  | "New Trends in Natural Product Chemistry" (Proceedings of the 6th International Symposium on Natural Product Chemistry, Jan. 1996, Karachi), Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , Harwood Academic Publishers, Amsterdam (1998).             | The Netherlands     |
| 6.  | "Manual of Bioassay Techniques for Natural Product Research", Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , Harwood Academic Publishers, Amsterdam (1999).  | The Netherlands     |
| 7.  | Professor Atta-ur-Rahman <i>Personality and Achievements</i> , <b>M. Iqbal Choudhary</b> , Print Arts Publishers, Karachi (2002).  | Pakistan            |
| 8.  | "Natural Product Chemistry At the Turn of the Century", Atta-ur-Rahman, <b>M. Iqbal Choudhary</b> , K. M. Khan, Print Arts Publishers, Karachi (2002).   | Pakistan            |
| 9.  | "Development of Medicines From Plants," Ahsana Dar and <b>M. Iqbal Choudhary</b> , Print Arts Publishers, Karachi (2004)   | Pakistan            |
| 10. | "Frontiers in Medicinal Chemistry", Atta-ur-Rahman, Allan B. Reitz, <b>M. Iqbal Choudhary</b> and Cheryl P. Kordik, Vol. 1, Bentham Science Publishers, Amsterdam (2004).  | The Netherlands     |
| 11. | "Frontiers in Natural Product Chemistry", Atta-ur-Rahman, <b>M. Iqbal Choudhary</b> , Khalid M. Khan, Vol. 1, Bentham Science Publishers, Amsterdam (2005).  | The Netherlands     |
| 12. | "Frontiers in Medicinal Chemistry", Atta-ur-Rahman, Allan B. Reitz, <b>M. Iqbal Choudhary</b> and C. P. Kordik, Vol. 2, Bentham Science Publishers, Amsterdam (2005).  | The Netherlands     |

13. "Frontiers in Medicinal Chemistry", Atta-ur-Rahman, Allan B. Reitz, **M. Iqbal Choudhary** and C. P. Kordik, Vol. 3, Bentham Science Publishers, Amsterdam (2005). The Netherlands
14. "Frontiers in Drug Design and Discovery", Edt. B. Coldwell, Atta-ur-Rahman, B. Springer and **M. Iqbal. Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2005). The Netherlands
15. "Frontiers in Drug Design and Discovery", Edt. G. W. Caldwell, Atta-ur-Rahman, M. R. Andrea and **M. Iqbal. Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2006). The Netherlands
16. "Frontiers in Medicinal Chemistry" Eds. Atta-ur-Rahman, Allan B. Reitz, **M. Iqbal Choudhary**, Vol. 4, Bentham Science Publishers, Amsterdam (in press). The Netherlands
17. "Studies in Natural Products Chemistry (Bioactive Natural Products), Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 34, Bentham Science Publishers, Amsterdam (in press). The Netherlands
18. Frontiers in Anti-Infective Drug Discovery, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (in press). The Netherlands
19. Frontiers in CNS Drug Discovery, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (in press). The Netherlands
20. Frontiers in Cardiovascular Drug Discovery, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (in press). The Netherlands
21. Frontiers in Anti-Cancer Drug Discovery, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (in press). The Netherlands
22. Anti-Angiogenesis-Drug Discovdery and Development, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (in press). The Netherlands
23. Anti-Obesity Drug Discovery and Development, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (in press). The Netherlands
24. Structure-Activity Relationship Studies in Drug Development by NMR Spectroscopy, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (in press). The Netherlands

## **B. EDITORSHIP OF INTERNATIONAL SCIENCE JOURNALS**

- Editor-in-Chief – International science journals, "*Mini Reviews in Medicinal Chemistry*" and "*Current Bioactive Compounds*", published by Bentham Science Publishers, Amsterdam, The Netherlands.
- Co-Editor, "Studies in Medicinal Chemistry", Bentham Science Publishers, Amsterdam, The Netherlands.
- Co-Editor "*Natural Products Research*", Taylor and Francis, UK.

**C. STUDENTS WHO COMPLETED PH.D. STUDENTS UNDER THE SUPERVISION OF PROF. DR. M. IQBAL CHOUDHARY**

S. #	NAME	Year	THESIS TITLE
1.	Dr. Bakht Baidar Ali (Ph. D.)	1994	Phytochemical Investigations on the Constituents of <i>Buxus papillosa</i> and Related Medicinal Plants.
2.	Dr. Attar Ata (Ph. D.)	1995	Phytochemical and Structural Studies on the Chemical Constituents of <i>Buxus hildebrandtii</i> and <i>B. sempervirens</i> .
3.	Dr. Farzana Akhtar (Ph. D.)	1997	Isolation and Structural Studies on the Chemical Constituents of <i>Withania somnifera</i> , <i>fumaria flabellata</i> and X-Ray Diffraction Studies.
4.	Dr. Farzana Shaheen (Ph. D.)	1998	Isolation of Antiepileptic constituents and biotransformation of bioactive natural products from some medicinally important plants of Pakistan.
5.	Dr. Muhammad Yusuf (Ph. D.)	1998	Isolation and Structural Studies on The Chemical Constituents of Medicinal Plants <i>Skimmia laureola</i> and <i>Withania coagulans</i> .
6.	Dr. Muhammad Nadeem (Ph. D.)	1999	Phytochemical Studies on <i>Sarcococca</i> Species and Related Medicinal Plants.
7.	Dr. Dur-e-Shahwar (Ph. D.)	1999	Isolation and Structural Studies on the Withanolidal Constituents of <i>Withania coagulans</i> .
8.	Dr. Mufti Asif Ullah (Ph. D.)	1999	Production and use of Tailor-made Biological Catalysts.
9.	Dr. Abdul Majeed (Ph. D.)	2000	Phytochemical and Structural Studies on the Chemical Constituents of <i>Taxus wallichiana</i> , <i>Tanacetum gracile</i> , <i>Jolyna laminarioides</i> and Other Marine Algae.
10.	Dr. M. Riaz Khan (Ph. D.)	2001	Isolation and Identification of the Chemical Constituents of <i>Sarcococca saligna</i> .
11.	Dr. M. D. Nur-e-Alam (Ph.D.)	2001	Phytochemical Studies on Three Medicinal Plants, <i>Iris bungei</i> , <i>Carduus crispus</i> and <i>Withania coagulans</i> .



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|-----|--|------|---|
| 12. | Dr. Irfan Baig<br>(Ph. D.)             | 2002 | Phytochemical Studies on <i>Ferula mongolica</i> and other Mongolian Medicinal Plants.  |
| 13. | Dr. Asaad Khalid<br>(Ph. D.)           | 2003 | Biochemical Studies on New Natural Inhibitors of Cholinesterases.   |
| 14. | Dr. Syed Ghulam Musharaf<br>(Ph. D.)   | 2004 | Microbial Transformation of Some Bioactive Cyclic compounds   |
| 15. | Dr. Adnan Ali Shah<br>(Ph. D.)         | 2005 | Isolation and Characterization of Secondary Metabolites from Marine Fungi of Arabian Sea and Microbial Transformation of Some Bioactive Compounds.                |
| 16. | Dr. Rosa Ranjit<br>(Ph. D.)            | 2005 | Isolation and Structure Elucidation of Secondary Metabolites from <i>Leucosceptum canum</i> and Related Medicinal Plants.   |
| 17. | Dr. Krishna Prasad Devkota<br>(Ph. D.) | 2005 | Bioprospecting Studies on <i>Sarcococca hookeriana</i> Baill, <i>Sonchus wightianus</i> Dc., <i>Paris Polyphylla</i> Smith and Related Medicinal Plants of Nepal. |
| 18. | Dr. Sadia Sultan<br>(Ph. D.)           | 2005 | Studies on the Structural Modifications of the Steroids and Related Compounds by Microorganisms   |
| 19. | Dr. Humaira Yasmeen Gondal<br>(Ph. D.) | 2005 | Isolation and Biotransformation of Bioactive Compounds from Medicinal Plants.   |
| 20. | Dr. Aziz Uddin<br>(Ph. D.)             | 2005 | Phytochemical Studies on <i>Murraya paniculata</i> and Related Medicinal Plants of Pakistan and Microbial Transformation of Bioactive Compounds.                  |
| 21. | Dr. Sarfraz Ahmed Nawaz<br>(Ph. D.)    | 2005 | Studies on New Specific Inhibitors of Some Clinically Important Enzymes.  |
| 22. | Dr. Naheed Fatima<br>(Ph. D.)          | 2005 | Studies on New Inhibitors of Phosphodiesterases of Different Origins  |
| 23. | Dr. Syed Shahzad-ul-Hussan<br>(Ph. D.) | 2005 | Studies on Binding of Aminoglycosides to RNA, and Inhibitors of $\alpha$ -Glucosidase Enzymes.  |

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|-----|------------------------------------|------|---|
| 24. | Dr. Ahmad Abbas Khan<br>(Ph. D.)   | 2006 | Phytochemical and Biological studies on the constituents of <i>Isodon rugosus</i> and Chemotaxonomic Studies on Indian Celery Seeds ( <i>Seseli diffusum</i> ).                     |
| 25. | Dr. Samar Yousuf<br>(Ph.D.)        | 2007 | Isolation, Structure Elucidation and Biotransformation Studies of Secondary Metabolites from <i>Withania somnifera</i> and Related Plants.  |
| 26. | Dr. Salma Shahnaz<br>(Ph. D.)      | 2007 | Phytochemical Studies on the Steroidal and Constituents of <i>Buxus hyrcana</i> and <i>Juniperus communis</i> .   |
| 27. | Dr. Zafar Ali Siddiqui<br>(Ph. D.) | 2007 | Biotransformational Studies on Bioactive Secondary Metabolites of Plant Origin.   |
| 28. | Dr. Muhammad Atif<br>(Ph. D.)      | 2007 | Structural Modifications of Bioactive Compounds by Microorganisms and the Isolation of Secondary Metabolites from Fungi.  |
| 29. | Dr. Afshan Begum<br>(Ph. D.)       | 2007 | Isolation and Structural Studies on Phytochemicals Active in Various Biological Assays.   |
| 30. | Dr. Muhammad Arif Lodhi<br>(Ph.D.) | 2007 | Studies on New Natural and Synthetic Inhibitors of Urease.  |
| 31. | Dr. Shams-un-Nahar<br>(Ph. D.)     | 2008 | Chemical Investigation on the Bioactive Constituents of <i>Vernonia</i> , Related Medicinal Plants and $\alpha$ -Glucosidase Inhibition Studies on Natural and Synthetic Compounds. |
| 32. | Dr. Suad Naheed<br>(Ph. D.)        | 2008 | Assessment of the Efficacy of Natural Products on Lipidemias, Hypercholesterolemia and Related Metabolic and Hormonal Abnormalities.  |
| 33. | Dr. Saima Jalil<br>(Ph. D.)        | 2008 | Evaluation of Anti-Inflammatory Effects of Natural and Synthetic Compounds.   |
| 34. | Dr. Shamsher Ali<br>(Ph. D.)       | 2008 | Secondary Metabolites From <i>Buxus papillosa</i> and <i>Sarcococca hookeriana</i> and X-Ray Diffraction Studies on Natural and Synthetic Compounds                                 |
| 35. | Dr. Asma Ejaz<br>(Ph. D.)          | 2009 | Studies on Antioxidant and Antiobesity Bioactive Compounds From Medicinal Plants of Pakistan and of Synthetic Origin  |
| 36. | Dr. Saleem Jan<br>(Ph. D.)         | 2009 | Isolation and Structure Elucidation of Bioactive Metabolites From <i>Astragalus bicuspsis</i>   |

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|-----|--------------------------------|------|---|
| 37. | Dr. Sumaira Hareem<br>(Ph. D.) | 2009 | Isolation, Structural and Biotransformation Studies on Secondary Metabolites From <i>Iris loczyi</i> and Related Medicinal Plants |
| 38. | Dr. Khalid Parvez<br>(Ph.D.)   | 2009 | Studies on the Bioactive Chemical Constituents of <i>Sophora alopecuroides</i> and Solid-Phase Synthesis of Carbohydrates         |
| 39. | Dr. Sumaira Hareem<br>(Ph.D.)  | 2009 | Isolation, Structural and Biotransformation Studies on Secondary Metabolites From <i>Iris loczyi</i> and related Medicinal Plants |

#### D. STUDENTS WHO COMPLETED M.PHIL. STUDENTS UNDER THE SUPERVISION OF PROF. DR. M. IQBAL CHOUDHARY

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|----|----------------------------------|------|--|
| 1. | Mr. Abdul Jabbar<br>(M. Phil.)   | 1994 | Isolation and Structural-Studies on The Alkaloids and Non Nitrogenous Compounds of <i>Thermopsis turcica</i> and <i>Murraya paniculata</i> |
| 2. | Ms. Iffat Batool<br>(M. Phil.)   | 2006 | Synthesis of Novel Derivative of Bioactive Supftances by Microbial Transformation  |
| 3. | Mr. Muhammad Nasir<br>(M. Phil.) | 2008 | Structural Modification of Bioactive Natural Products by Fungi   |

#### E. CHAPTERS IN BOOK

- |    |  |                 |
|----|--|-----------------|
| 1. | "Studies on the Alkaloids of <i>Buxus papillosa</i> : and the Spectral Generalizations ",<br>Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , "Recent Advances in Natural Product Chemistry", p. 263, Shamim Printing Press, Karachi (1987).   | Pakistan        |
| 2. | "Structural Studies on New Steroidal Alkaloids of <i>Buxus papillosa</i> : Some Generalized Spectral Deductions",<br>Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , "Studies in Natural Product Chemistry", (Structure Elucidation) p. 175, Vol. 2, Elsevier Science Publishers, Amsterdam (1988). | The Netherlands |
| 3. | "Purine Alkaloids", Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , "The Alkaloids",<br>Ed. A. R. Brossi, p. 225, Chapter 3, Vol. 38, Academic Press, NewYork (1990).   | USA             |
| 4. | "New Steroidal Alkaloids from the Leaves of <i>Buxus hildebrandtii</i> ",<br>A. Ata, Atta-ur-Rahman, <b>M. Iqbal Choudhary</b> and E. Dagne, "Proceedings of the Second National Chemistry Conference", p. 212, Karachi (1990).  | Pakistan        |
| 5. | "New Steroidal Alkaloids from <i>Veratrum album</i> ",<br>Atta-ur-Rahman, R. A. Ali, <b>M. Iqbal Choudhary</b> , B. Sener and S. Turkoz, "Proceedings of the Second National Chemistry Conference", p. 215, Karachi (1990).  | Pakistan        |

- |     |  |                 |
|-----|--|-----------------|
| 6.  | "Spectroscopic and X-Ray Diffraction Studies on New Furanoid Diterpenoids of <i>Tinospora malabarica</i> ", Atta-ur-Rahman, <b>M. Iqbal Choudhary</b> and S. Ahmed, "Proceedings of the Second National Chemistry Conference", p. 220, Karachi (1990).   | Pakistan        |
| 7.  | "Chemical constituents of <i>Buxus sempervirens</i> Roots", Atta-ur-Rahman, S. Naz, <b>M. Iqbal Choudhary</b> and B. Sener, "Proceedings of the Second National Chemistry Conference", p. 225, Karachi (1990).   | Pakistan        |
| 8.  | " <i>Camellia sinensis</i> as Anti-carcinogenic Drug", Zahir Shah, <b>M. Iqbal Choudhary</b> , I. B. Baloach and Nusratullah, "Proceedings of the Second National Chemistry Conference", p. 274, Karachi (1990).   | Pakistan        |
| 9.  | "X-Ray Crystallographic Studies on Novel Natural Products from Marine Animals", <b>M. Iqbal Choudhary</b> and J. Clardy, "Studies in Natural Product Chemistry", Vol. 9, p. 3, Elsevier Science Publishers, Amsterdam (1991).  | The Netherlands |
| 10. | "Principles and Applications of Modern 2D NMR Techniques in Structure Elucidation of Complex Natural Products", Atta-ur-Rahman, <b>M. Iqbal Choudhary</b> and A. Parveen, "Studies in Natural Product Chemistry", Vol. 9, p. 127, Elsevier Science Publishers, Amsterdam (1991).   | The Netherlands |
| 11. | "Studies on the Chemical Constituents of Marine Animals and Plants of Coastal Zones of Pakistan", Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , "Proceedings of the 1st National Seminar on the Study and Management of Coastal Zones of Pakistan", Karachi, p. 149 (1991).   | Pakistan        |
| 12. | "Semperviramidine-A New Steroidal Alkaloid from <i>Buxus sempervirens</i> ", Atta-ur-Rahman, D. Ahmed, <b>M.I.Choudhary</b> , B. Sener and S. Turkoz, "Essays on Science: Felicitation Volume", p.48, Ed. H.M. Said, MAS Printers, Karachi (1991).   | Pakistan        |
| 13. | "Two Dimensional NMR Spectroscopy - Applications in Structure Elucidation of Complex Natural Products", Atta-ur-Rahman, <b>M. Iqbal Choudhary</b> and A. Ata "Medicinal Products from Tropical Rain Forests", "Proceedings of the Conference", p. 196, Ed. K. Shaari, Forest Research Institute, Malaysia (1991).  | Malaysia        |
| 14. | "X-Ray Diffraction Studies on Novel Natural Products", <b>M. Iqbal Choudhary</b> and Atta-ur-Rahman, "Advances in Natural Product Chemistry (Proceedings of the 5th International Symposium and Pakistan-U.S. Binational Workshop on Natural Product Chemistry, Karachi)", p. 351, Harwood Academic Publishers, Singapore (1992).                                | Singapore       |
| 15. | "The Use of Modern NMR Techniques in structure Elucidation of New Natural Products", Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , "Advances in Natural Product Chemistry (Proceedings of the 5th International Symposium and Pakistan-U.S. Binational Workshop on Natural Product Chemistry, Karachi)", p. 463, Harwood Academic Publishers, Singapore (1992). | Singapore       |
| 16. | "Steroidal Alkaloids", Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , "Methods in Plant Biochemistry", Ed. P.G. Waterman, Vol. 9, p. 473, Academic Press, London (1993).   | UK              |
| 17. | " <i>Allium</i> - Food or Medicine: The Enchanting Organo-sulfur Compounds of <i>Allium</i> ", Atta-ur-Rahman and <b>M. Iqbal Choudhary</b> , "Proceedings of the First International Conference on the Impact of Food Research on New Product Development", Karachi, p. 151, Published by University of Humberside, Hull, USA (1994).                           | USA             |

18. Structural Studies on Steroidal Alkaloids of *Buxus sempervirens*, S. Naz, Atta-ur-Rahman, **M. Iqbal Choudhary** and B. Sener, "Proceedings of the 5th National Chemistry Conference", p. 271, Islamabad (1995). Pakistan
19. Nematicidal Constituents of *Datura fastuosa*, D. Shahwar, M. Abid, Atta-ur-Rahman, M.A Maqbool and **M. Iqbal Choudhary**, "Proceedings of the 5th National Chemistry Conference", p. 284, Islamabad (1995). Pakistan
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