

CV and List of Publications

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International Center for Chemical and Biological Sciences
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MUHAMMAD IQBAL CHOUDHARY

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MAILING ADDRESS

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DATE OF BIRTH

September 11, 1959 (Karachi, Pakistan)

EDUCATION

Doctor of Science (D.Sc.) (University of Karachi) 2005

Ph.D. (Organic Chemistry) 1987

H. E. J. Research Institute of Chemistry
University of Karachi, Karachi-75270, 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-75270, Pakistan

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

University of Karachi, Karachi-75270, Pakistan

AWARDS & HONORS

- Declared as the top most scientist (Number 1) among 1,650 scientists of Pakistan in all disciplines / fields of science and technology (year 2012) by the Pakistan Council for Science and Technology (Ministry of Science and Technology), Pakistan.
- **COMSTECH Award in** (57 OIC member countries) by the Prime Minister of Pakistan (2010)
- Civil Award *Hilal-e-Imtiaz* by the President of Pakistan (2007)
- Civil Award *Sitara-e-Imtiaz* by the President of Pakistan (2001).
- Civil Award *Tamgha-i-Imtiaz* by the President of Pakistan (1999).
- First **Khwarizmi International Award and Prize** from the President of Islamic Republic of Iran (2006).

- **Economic Cooperation Organization (ECO) Excellence Awards in Education** by the President of Azerbaijan (2006).
- **Doctor of Science (D. Sc.) University of Karachi** (2005).
- **Distinguished National Professor** of the Higher Education Commission (2004).
- **Meritorius Professor**, University of Karachi (Grade 22) (2013).
- **Distinguished Professor** of the COMSATS (2013)
- **Prof. Abdussalam (Nobel Laureate) Prize in Chemistry** (1989).
- **Prof. Raziuddin Siddiqui Gold Medal** of Pakistan Academy of Sciences (1992).
- **Third World Academy of Science (Trieste, Italy) Young Scientists Award** (1994).
- **National Book Foundation Prize for the Best Science Book** (1995).

FELLOWSHIPS

- Senior Fulbright Fellow at the University of California at San Diego, USA (1999).
- Fellow, The Academy of Sciences for the Developing World (TWAS) (2003).
- Fellow, Islamic Academy of Science (2003).
- Fellow, Pakistan Academy of Sciences (2003).
- Fellow, *Chemical Society of Pakistan* (2001).
- Fellow, *Royal Society of Chemistry* (2004).
- Fellow, International Union of Pure and Applied Chemistry (IUPAC).
- Fellow, World Innovation Foundation (2006).
- Fellow, LEAD-International (Leadership for Environment and Development).

ACCADEMIC APPOINTMENTS

- Member Board of Governor Hamdard University, Karachi (2015).
- Member of the Board of Management (BoMs) of PCSIR Labs. (2015).
- Visiting Professor at the University of Rhode Island (URI), USA
- Visiting Professor at the School of Healthcare Sciences at Manchester Metropolitan University, UK
- Visiting Professor at the Universiti Teknologi MARA (UiTM), Malaysia
- Visiting Professor at the Al-Farabi Kazakh National University, Kazakhstan
- Highly Cited Research Professor at the King Abdulaziz

- University (KAU), Jeddah, Saudi Arabia.
- Highly Cited Academic Icon at the University of Malaya, Malaysia.
 - Visiting Professor at the King Saud University (KSU), Riyadh, Saudi Arabia.
 - Visiting Professor at the University Kebangsaan Malaysia (UKM), Malaysia
 - Member of the Civil Awards Committee (Government of Pakistan) 2014
 - Member of the Ministry of Science and Technology Expert Committee (2013).
 - Member of the Governing Body of the Ziauddin Medical University, Karachi (2013-2015).
 - Member, Academic Council of COMSATS Institute of Information Technology (CIIT).
 - Member of the Advisory Council, Forman Christian College, Lahore.
 - Associate Member of International Union of Pure and Applied Chemistry (IUPAC) Organic and Biomolecular Chemistry Division for the term 2010-2011.
 - Member of the Advanced Studies, Virtual University of Pakistan (2013).
 - Member of the Board of Editors in the Stamford Journal of Pharmaceutical Sciences (2013).
 - Member Editorial Board of International Journal of Biology and Chemistry, Kazakhstan
 - Member of the Executive Committee of the National Commission for Science and Technology Pakistan (ECNCST), (2006-2010).
 - Member of National Commission for Science and Technology, Chaired by the Prime Minister of Pakistan.
 - Member of the Executive Committee of the National Commission on Science and Technology Chaired by the Prime Minister of Pakistan.
 - Vice-President, Phytochemical Society of Asia.
 - Member of the Executive Board of the Pakistan Atomic Energy Commission (Chaired by the Prime Minister of Pakistan) Chaired by the Prime Minister of Pakistan.
 - Member of the National Commission on Nanotechnology.
 - Member of the Board of Trustees of the Pakistan Science Foundation.
 - Member of the National Commission on Biotechnology.
 - Member of the Board of Governors of the Virtual University, Pakistan, 2008.
 - Member of the Board of Governors of COMMECS Institute

of Business and Emerging Sciences (CIBES), Karachi.

**MEMBERSHIPS
OF
PROFESSIONAL
SOCIETIES**

- Member of the American Chemical Society.
- Member of the American Society of Pharmacognosy.
- Member of the 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 American Physiological Society, USA.
- 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.

**MEMBERSHIPS
OF NATIONAL
COMMITTEES**

- Member of the Executive Committee of the National Commission for Science and Technology (ECNCST) (2014).
- Member of Standing Committee on Higher Education FPCCI (Federation of Pakistan Chambers of Commerce & Industry).
- Member of the Committee for Central Research Fund, Ministry of Health.
- Member of PTCL Research Board (2001-2004).
- Member of the Syndicate 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 Member of the Selection Board of Pakistan Standards & Quality Control Authority.
- Member of the Board of Studies of COMSATS University.
- Member of the Board of Studies of the Lasbella University, Uthal, Baluchistan.
- Convener of the National Core Group in Chemistry of the Government of Pakistan.
- Numerous other Awards, Medals, and Shields from various national and international organizations.
- Organizing Secretary of biannual International symposia series on Natural Product Chemistry (1988-2000), 7th Eurasia Chemical Congress (March 2002) and Pak-US Binational Workshops on Natural Product Chemistry (Jan. 2000).

- Organizing Secretary of the 19th IUPAC Symposium on the Chemistry of Natural Products (1994) – The largest scientific event of Pakistan.

EXPERIENCE

Director International Center for Chemical and Biological Sciences, H.E.J. Research Institute of Chemistry University of Karachi	October 2009 Present
Visiting Professor School of Healthcare Sciences at Manchester Metropolitan University, Mancheser UK	Present
Visiting Professor Universiti Malaysia Pahang Malaysia	Present
Visiting Professor University of Rhode Island (URI) USA	Present
Visiting Professor King Abdulaziz University (KAU) Jeddah, Saudi Arabia	Present
Visiting Professor King Saud University (KSU) Riyadh, Saudi Arabia	Present
Visiting Professor Universiti Teknologi MARA (UiTM) Malaysia	Present
Visiting Professor Universiti Kebangsaan Malaysia (UKM) Malaysia	Present
Visiting Professor Visiting Professor at the Al-Farabi Kazakh National University Kazakhstan	Present
Director (Acting) International Center for Chemical and Biological Sciences H.E.J. Research Institute of Chemistry University of Karachi	22 August 2002- September 2008
Co-Director Panjwani Center for Molecular Medicines and Drug Research International Center for Chemical and Biological Sciences University of Karachi	22 August 2002-Present
Professor H.E.J. Research Institute of Chemistry	April 2000- Present

University of Karachi

(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

H.E.J. Research Institute of Chemistry,
University of Karachi

July 1994-
April 2000

Senior Fulbright Fellow

Scripps Institute of Oceanography
University of California, San Diego, USA

1994

Assistant Professor

H.E.J. Research Institute of Chemistry,
University of Karachi

Dec. 1988-
July 1994

Visiting Faculty

Department of Chemistry, Cornell University,
Ithaca, NY 14853, USA

Aug. 1994-
Dec. 1994

Visiting Faculty

Department of Chemistry, Cornell University,
Ithaca, NY 14853, USA

Aug. 1992-
Dec. 1992

Visiting Scientist

Department of Chemistry, Cornell University,
Ithaca, NY 14853, USA

May 1990-
Aug. 1990

Visiting Scientist

Department of Chemistry,
Cornell University, Ithaca, NY 14853, USA

June 1989-
Sep. 1989

Visiting Scientist

Department of Medicinal Chemistry
Purdue University, West Lafayette, Indiana 47907, USA

Sep. 1989-
Nov. 1989

Post Doctoral Research Associate

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".

Senior Research Fellow

H.E.J. Research Institute of Chemistry
University of Karachi, Karachi-75270, Pakistan
"Isolation and Structure Elucidation of New Steroidal Alkaloids
from *Buxus* Species".

Dec. 1986-
Oct. 1987

Research Associate

Department of Chemistry
Pennsylvania State University, University Park,
PA 16802, USA
"Phytochemical Studies on Medicinally Important Flora".

Nov. 1985-
Nov. 1986

Research Student

Department of Chemistry

Dec. 1981-

University of Karachi, Karachi-75270, Pakistan
 "Quantitative Analysis of Organic Pollutants in Soil and
 Rain Water of Karachi City".

Aug. 1983

**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
1. "Solving Problems with NMR Spectroscopy", Atta-ur-Rahman and M. Iqbal Choudhary , Academic Press, San Diego (1995).	USA
2. "Recent Discoveries in Natural Product Chemistry" (Proceedings of the 19 th IUPAC Symposium on the Chemistry of Natural Products, Jan., 1994, Karachi), Atta-ur-Rahman, M. Iqbal Choudhary and M. S. Shekhani, Elite Publishers, Karachi (1996).	Pakistan
3. "Progress in Medicinal Chemistry", (Studies in Medicinal Chemistry, Vol. I), M. Iqbal Choudhary , Harwood Academic Publishers, Amsterdam (1996).	The Netherlands
4. "Biological Inhibitors" (Studies in Medicinal Chemistry, Vol. II), M. Iqbal Choudhary , 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 M. Iqbal Choudhary , Harwood Academic Publishers, Amsterdam (1998).	The Netherlands
6. "Manual of Bioassay Techniques for Drug Development", Atta-ur-Rahman and M. Iqbal Choudhary , Harwood Academic Publishers, Amsterdam (1999).	The Netherlands
7. Professor Atta-ur-Rahman <i>Personality and Achievements</i> , M. Iqbal Choudhary , Print Arts Publishers, Karachi (2002).	Pakistan
8. "Natural Product Chemistry at the Turn of the Century", Atta-ur-Rahman, M. Iqbal Choudhary , K. M. Khan, Print Arts Publishers, Karachi (2002).	Pakistan
9. "Development of Medicines From Plants," Ahsana Dar and M. Iqbal Choudhary , Print Arts Publishers, Karachi (2004)	Pakistan
10. "Frontiers in Natural Product Chemistry", Atta-ur-Rahman, M. Iqbal Choudhary , Khalid M. Khan, Vol. 1, Bentham Science Publishers, Amsterdam (2005).	The Netherlands
11. "Frontiers in Drug Design and Discovery", Eds. G. W. Caldwell, Atta-ur-Rahman, M. R. Andrea and M. Iqbal Choudhary , Vol. 2, Bentham Science Publishers, Amsterdam (2006).	The Netherlands
12. "Frontiers in Drug Design and Discovery", Eds. G. W. Caldwell, Atta-ur-Rahman, Zhengyin and M. Iqbal Choudhary , Vol. 3, Bentham Science Publishers, Amsterdam (2007).	The Netherlands
13. "Frontiers in Medicinal Chemistry" Eds. Atta-ur-Rahman, Allan B. Reitz, M. Iqbal Choudhary , Vol. 4, Bentham Science Publishers, Amsterdam (2009).	The Netherlands

14. "Frontiers in Drug Design and Discovery", Eds. G. W. Caldwell, Atta-ur-Rahman, Zhengyin and **M. Iqbal Choudhary**, Vol. 4, Bentham Science Publishers, Amsterdam (2009). The Netherlands
15. "Frontiers in Drug Design and Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 5, Bentham Science Publishers, Amsterdam (2010). The Netherlands
16. "Frontiers in Anti-Infective Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2010). The Netherlands
17. "Frontiers in CNS Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2010). The Netherlands
18. "Frontiers in Cardiovascular Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2010). The Netherlands
19. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2010). The Netherlands
20. "Frontiers in Medicinal Chemistry", Eds. Atta-ur-Rahman, Allen B. Reitz and **M. Iqbal Choudhary**, Vol. 5, Bentham Science Publishers, Amsterdam (2010). The Netherlands
21. "Anti-Angiogenesis-Drug Discovery and Development", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2011). The Netherlands
22. "Anti-Obesity Drug Discovery and Development", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2011). The Netherlands
23. "Structure-Activity Relationship Studies in Drug Development by NMR Spectroscopy", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 1, Bentham Science Publishers, Amsterdam (2011). The Netherlands
24. "Discovery of Drug Leads from Medicinal Plants", Eds. Asad Khalid Ahmed and **M. Iqbal Choudhary**, Lambert Academy Publishing, Germany (2011). Germany
25. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2013). The Netherlands
26. "Creating Chemical Space & Evaluation of their Biological Activities: Discovery of New Antioxidants and Synthesis of Sultam Libraries as Novel potential Therapeutic Agents", Eds. Hina Siddiqui and **M. Iqbal Choudhary**, Vol. 1, Scholar's Press, Germany (2013). Germany
27. "Frontiers in CNS Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2013). The Netherlands
28. "Anti-Angiogenesis Drug Discovery and Development", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2014). The Netherlands
29. "Anti-Obesity Drug Discovery and Development", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2014). The Netherlands
30. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 3, Bentham Science Publishers, Amsterdam (2014). The Netherlands
31. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 4, Bentham Science Publishers, Amsterdam (2014). The Netherlands

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| 32. | “Frontiers in Anti-infective Drug Discovery”, Eds. Atta-ur-Rahman and M. Iqbal Choudhary , Vol. 2, Bentham Science Publishers, Amsterdam (2014). | The Netherlands |
| 33. | “Frontiers in Anti-infective Drug Discovery”, Eds. Atta-ur-Rahman and M. Iqbal Choudhary , Vol. 3, Bentham Science Publishers, Amsterdam (2014). | The Netherlands |
| 34. | “Frontiers in Drug Design & Discovery”, Eds. Atta-ur-Rahman and M. Iqbal Choudhary , Vol. 6, Bentham Science Publishers, Amsterdam (2014). | The Netherlands |
| 35. | “Recent Advances in Medicinal Chemistry”, Eds. Atta-ur-Rahman, M. Iqbal Choudhary and George Petry, Vol. 1, Bentham Science Publishers, Amsterdam (2014). | The Netherlands |
| 36. | “Applications of NMR Spectroscopy” Eds, Eds. Atta-ur-Rahman, M. Iqbal Choudhary , Vol. 1, Bentham Science Publishers, Amsterdam (2015). | The Netherlands |
| 37. | “Applications of NMR Spectroscopy” Eds, Eds. Atta-ur-Rahman, M. Iqbal Choudhary , Vol. 2, Bentham Science Publishers, Amsterdam (2015). | The Netherlands |
| 38. | “Solving Problems with NMR Spectroscopy” Eds. Atta-ur-Rahman, M. Iqbal Choudhary and Atia-tul-Wahab, Vol. 2, Elsevier, The Netherlands. | The Netherlands |
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B. CHAPTERS IN BOOK

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|----|---|-----------------|
| 1. | "Studies on the Alkaloids of <i>Buxus papillosa</i> : and the Spectral Generalizations", Atta-ur-Rahman and M. Iqbal Choudhary , "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", Atta-ur-Rahman and M. Iqbal Choudhary , "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 M. Iqbal Choudhary , "The Alkaloids", Ed. A. R. Brossi, p. 225, Chapter 3, Vol. 38, Academic Press, New York (1990). | USA |
| 4. | "New Steroidal Alkaloids from the Leaves of <i>Buxus hildebrandtii</i> ", A. Ata, Atta-ur-Rahman, M. Iqbal Choudhary and E. Dagne, "Proceedings of the Second National Chemistry Conference", p. 212, Karachi (1990). | Pakistan |
| 5. | "New Steroidal Alkaloids from <i>Veratrum album</i> ", Atta-ur-Rahman, R. A. Ali, M. Iqbal Choudhary , 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, M. Iqbal Choudhary 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, M. Iqbal Choudhary 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, M. Iqbal Choudhary , 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", **M. Iqbal Choudhary** 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, **M. Iqbal Choudhary** 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 **M. Iqbal Choudhary**, "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 *Buxus sempervirens*", Atta-ur-Rahman, D.Ahmed, **M. Iqbal Choudhary**, 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, **M. Iqbal Choudhary** 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", **M. Iqbal Choudhary** 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 **M. Iqbal Choudhary**, "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 **M. Iqbal Choudhary**, "Methods in Plant Biochemistry", Ed. P.G. Waterman, Vol. 9, p. 473, Academic Press, London (1993). UK
17. "*Allium*- Food or Medicine: The Enchanting Organo-sulfur Compounds of *Allium*", Atta-ur-Rahman and **M. Iqbal Choudhary**, "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
20. Structural Studies on New Compounds from Medicinal Plants of Pakistan, Jordan, Sri Lanka and Turkey, Atta-ur-Rahman and **M. Iqbal Choudhary**, "Phytochemistry of Plants Used in Traditional Medicine", Ed. K. Hostettmann, A. Marston, M. Maillard and M. Hamburger, p. 279, Clardon Press, Oxford (1995). UK

21. "Natural Products: Strategies for Drug Discovery", Atta-ur-Rahman and **M. Iqbal Choudhary**, "Natural Products", Ed. N. Mulford, p. 2.52, Biomedical Library Series, IBC, Southborough, USA (1995). USA
22. "Nematicidal Compounds from *Datura fastuosa*", D. Shahwar, M. Abid, Atta-ur-Rahman, M. A. Maqbool and **M. Iqbal Choudhary**, Recent Discoveries in Natural Product Chemistry (Proceedings of the 19th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Jan., 1994), Eds. Atta-ur-Rahman, **M. I. Choudhary** and M. S. Shekhani, p. 171, Elite Publishers, Karachi (1995). Pakistan
23. "Single Crystal X-ray Diffraction Studies on New Natural Products, F. Akhtar, Atta-ur-Rahman, **M. Iqbal Choudhary**, B. S. Siddiqui, A. Nasreen and Ghiasuddin" Recent Discoveries in Natural Product Chemistry (Proceedings of the 19th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Jan., 1994), Eds. Atta-ur-Rahman, **M. I. Choudhary** and M. S. Shekhani, p. 257, Elite Publishers, Karachi (1995). Pakistan
24. "Atisinium Chloride from *Delphinium denudatum*- Isolation and X-ray Diffraction Studies", A. Nasreen, Atta-ur-Rahman, **M. Iqbal Choudhary**, M. S. Shekhani and F. Akhtar, Recent Discoveries in Natural Product Chemistry (Proceedings of the 19th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Jan., 1994), Eds. Atta-ur-Rahman, **M. I. Choudhary** and M. S. Shekhani, p. 291, Elite Publishers, Karachi (1995). Pakistan
25. "Recent Phytochemical Studies and Chemotaxonomy of Genus *Buxus*", S. Naz, F. Noor-e-Ain, A. Ata, **M. Iqbal Choudhary** Atta-ur-Rahman, B. Sener and E. Dagne, Recent Discoveries in Natural Product Chemistry (Proceedings of the 19th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Jan., 1994), Eds. Atta-ur-Rahman, **M. I. Choudhary** and M. S. Shekhani, p. 307, Elite Publishers, Karachi (1995). Pakistan
26. "Xenobiotic Microbial Transformations of a Cytotoxic Natural Sesquiterpene Lactone", A. Ata, Atta-ur-Rahman and **M. Iqbal Choudhary**, Recent Discoveries in Natural Product Chemistry (Proceedings of the 19th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Jan., 1994), Eds. Atta-ur-Rahman, **M. I. Choudhary** and M. S. Shekhani, p. 359, Elite Publishers, Karachi (1995). Pakistan
27. "Coastal and Marine Organisms- A Source of Novel Natural Products", Atta-ur-Rahman, **M. Iqbal Choudhary**, M. A. Maqbool N. Tirmizi, "The Arabian Sea-Living Marine Resources and the Environment" (Proceedings of the 2nd National Seminar on Study and Management of Coastal Zones of Pakistan, Karachi, 1993), p. 227, Eds. M.F. Thompson and N. M. Tirmizi, Vanguard Books (Pvt.) Ltd., Lahore (1995). Pakistan
28. "Toxic Alkaloids And Other Nitrogenous Compounds From Marine Plants", Atta-ur-Rahman and **M. Iqbal Choudhary**, "Chemistry and Toxicology of Diverse Classes of Alkaloids", Ed. M. Blum, p. 121, Alkalen Inc., Fort Collins, USA (1996). USA
29. "Role of Spectroscopic Techniques in Structure Elucidation of the New Natural Products", Habib-ur-Rehman, Atta-ur-Rahman and **M. Iqbal Choudhary**, "Spectroscopy for Material Analyses-Proceedings of Second National Symposium on Modern Trends in Contemporary Chemistry, April 4-6, 1995, p. 241 Islamabad (1996). Pakistan
30. "Pesticides From Nature: Present and Future Perspectives", G. A. Miana, Atta-ur-Rahman, **M. Iqbal Choudhary**, G. Jilani and Hafsa Bibi, "Crop Protection Agents from Nature- Natural Products and Analogues", Ed. L. G. Copping, p. 241, (1996). USA

31. "Bioactivity-Guided Isolation of Phytochemicals from Medicinal Plants", **M. Iqbal Choudhary** and Atta-ur-Rahman, "Phytochemical Diversity- A Source of New Industrial Products", Eds. S. Wrigley, M. Hayes, R. Thomas and E. Chrystal, p. 41 The Royal Society of Chemistry, Cambridge, U.K. (1997). UK
32. "Chemistry and Biology of Steroidal Alkaloids", Atta-ur-Rahman and **M. Iqbal Choudhary**, "The Alkaloids", Ed. G. A. Cordell, Vol. 50, p. 61, Academic Press, San Diego, U.S.A. (1998). USA
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- *The Natural Products Journal*, Bentham Science Publishers, Amsterdam, The Netherlands.

E. SCHOLARS WHO COMPLETED PH.D. STUDIES UNDER THE SUPERVISION OF PROF. DR. M. IQBAL CHOUDHARY

S. #	NAME	Year	THESIS TITLE
1.	Dr. Bakht Baidar Ali (Ph. D.) (Co-supervisor)	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.

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| 9. | Dr. Mohsin Raza
(Ph. D.)

(Co-supervisor) | 1999 | Investigation of Antiepileptic Activities of <i>Aloe vera</i> and Related Medicinal Plants From the Flora of Pakistan |
| 10. | 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. |
| 11. | Dr. M. Riaz Khan
(Ph. D.)
(Co-supervisor) | 2001 | Isolation and Identification of the Chemical Constituents of <i>Sarcococca saligna</i> . |
| 12. | 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> . |
| 13. | Dr. Irfan Baig
(Ph. D.) | 2002 | Phytochemical Studies on <i>Ferula mongolica</i> and other Mongolian Medicinal Plants. |
| 14. | Dr. Asaad Khalid
(Ph. D.) | 2003 | Biochemical Studies on New Natural Inhibitors of Cholinesterases. |
| 15. | Dr. Syed Ghulam Musharaf
(Ph. D.) | 2004 | Microbial Transformation of Some Bioactive Cyclic compounds |
| 16. | Dr. Adnan Ali Shah
(Ph. D.) | 2005 | Isolation and Characterization of Secondary Metabolites from Marine Fungi of Arabian Sea and Microbial Transformation of Some Bioactive Compounds. |
| 17. | Dr. Rosa Ranjit
(Ph. D.) | 2005 | Isolation and Structure Elucidation of Secondary Metabolites from <i>Leucoscepterum canum</i> and Related Medicinal Plants. |
| 18. | Dr. Krishna Prasad Devkota
(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. |
| 19. | Dr. Sadia Sultan
(Ph. D.) | 2005 | Studies on the Structural Modifications of the Steroids and Related Compounds by Microorganisms |
| 20. | Dr. Humaira Yasmeen Gondal
(Ph. D.) | 2005 | Isolation and Biotransformation of Bioactive Compounds from Medicinal Plants. |
| 21. | Dr. Aziz Uddin
(Ph. D.) | 2005 | Phytochemical Studies on <i>Murraya paniculata</i> and Related Medicinal Plants of Pakistan and Microbial Transformation of Bioactive Compounds. |
| 22. | Dr. Sarfraz Ahmed Nawaz
(Ph. D.) | 2005 | Studies on New Specific Inhibitors of Some Clinically Important Enzymes. |

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| 23. | Dr. Naheed Fatima
(Ph. D.) | 2005 | Studies on New Inhibitors of Phosphodiesterases of Different Origins |
| 24. | Dr. Syed Shahzad-ul-Hussan
(Ph. D.) | 2005 | Studies on Binding of Aminoglycosides to RNA, and Inhibitors of α -Glucosidase Enzymes. |
| 25. | Dr. Ahmad Abbas Khan
(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>). |
| 26. | Dr. Sammerr Yousuf
(Ph.D.) | 2007 | Isolation, Structure Elucidation and Biotransformation Studies of Secondary Metabolites from <i>Withania somnifera</i> and Related Plants. |
| 27. | Dr. Salma Shahnaz
(Ph. D.) | 2007 | Phytochemical Studies on the Steroidal and Constituents of <i>Buxus hyrcana</i> and <i>Juniperus communis</i> . |
| 28. | Dr. Zafar Ali Siddiqui
(Ph. D.) | 2007 | Biotransformational Studies on Bioactive Secondary Metabolites of Plant Origin. |
| 29. | Dr. Muhammad Atif
(Ph. D.) | 2007 | Structural Modifications of Bioactive Compounds by Microorganisms and the Isolation of Secondary Metabolites from Fungi. |
| 30. | Dr. Afshan Begum
(Ph. D.) | 2007 | Isolation and Structural Studies on Phytochemicals Active in Various Biological Assays. |
| 31. | Dr. Muhammad Arif Lodhi
(Ph.D.) | 2007 | Studies on New Natural and Synthetic Inhibitors of Urease. |
| 32. | Dr. Shams-un-Nahar Khan
(Ph. D.) | 2008 | Chemical Investigation on the Bioactive Constituents of <i>Vernonia</i> , Related Medicinal Plants and α -Glucosidase Inhibition Studies on Natural and Synthetic Compounds. |
| 33. | Dr. Suad Naheed
(Ph. D.) | 2008 | Assessment of the Efficacy of Natural Products on Lipidemias, Hypercholesterolemia and Related Metabolic and Hormonal Abnormalities. |
| 34. | Dr. Saima Jalil
(Ph. D.) | 2008 | Evaluation of Anti-Inflammatory Effects of Natural and Synthetic Compounds. |
| 35. | Dr. Shamsher Ali
(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 |
| 36. | Dr. Asma Ejaz
(Ph. D.) | 2009 | Studies on Antioxidant and Antiobesity Bioactive Compounds From Medicinal Plants of Pakistan and of Synthetic Origin |

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| 37. | Dr. Saleem Jan
(Ph. D.) | 2009 | Isolation and Structure Elucidation of Bioactive Metabolites From <i>Astragalus bicuspis</i> |
| 38. | Dr. Sumaira Hareem
(Ph. D.) | 2009 | Isolation, Structural and Biotransformation Studies on Secondary Metabolites From <i>Iris loczyi</i> and Related Medicinal Plants |
| 39. | Dr. Khalid Parvez
(Ph.D.) | 2009 | Studies on the Bioactive Chemical Constituents of <i>Sophora alopecuroides</i> and Solid-Phase Synthesis of Carbohydrates |
| 40. | Dr. Achyut Adhikari
(Ph.D.) | 2010 | Bioprospecting Studies on <i>Sarcococca coriacea</i> (HOOK. F.) of Nepalese Origin |
| 41. | Dr. Sajjan Lal Shyaula
(Shrestha)
(Ph.D.) | 2010 | Isolation and Structure Elucidation of Bioactive Compounds from <i>Osyris wightiana</i> |
| 42. | Dr. Naik Tamkeen Khan
(Ph.D.) | 2010 | Biotransformation of Enzyme Inhibitors and Other Bioactive Compounds |
| 43. | Dr. Hina Siddiqui
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| 44. | Dr. Ghulam Abbas
(Ph.D.) | 2010 | Discovery of New Antiglycation Agents of Natural and Synthetic Origins Structural and Functional Studies on Glucagon and Glucagon-like Peptide 1 Receptors and Screening for Their Antagonists Agonists |
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(Ph.D.) | 2010 | Discovery of Antioxidants From Natural and Synthetic Sources and Study of Their Effect on the Onset of the Diabetes in Model Rats |
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(Ph.D.) | 2010 | Black Carbon in Ambient Air Karachi: Implications to Regional Climate and Air Quality |
| 47. | Dr. Juveria Siddiqui
(Ph.D.) | 2011 | Evaluation of the Antioxidant Constituents of Plant – Based Food in Pakistan |
| 48. | Dr. Nadira Naheed
(Ph.D.) | 2011 | Investigations on the Structure and Bioactivity of the Chemical Constituents of <i>Spiraea canescens</i> and a Fresh Water Fern <i>Salvinia molesta</i> |
| 49. | Dr. Samina Abdul Sattar
(Ph.D.) | 2011 | Studies on Anticancer Agents and other Bioactive Compounds of Dietary Origin |
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(Ph.D.) | 2012 | Isolation of Bioactive Natural Products from <i>Lonicera nummularifolia</i> , and Related Medicinal Plants and Combinatorial Synthesis of Natural Product Libraries |

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| 51. | Dr. Marium Bibi
(Ph.D.) | 2012 | Biotransformation of Bioactive Steroids and Terpenes and Study of Factors Responsible of Selected Transformation |
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(Ph.D.) | 2012 | Study of Biotransformation of Most Common Drugs by Microbial and Plant Cell Cultures |
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(Ph.D.) | 2012 | Isolation and Structural Studies on Bioactive Constituents of <i>Viscum album</i> and <i>Withania coagulans</i> |
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(Ph.D.) | 2012 | Fast Derelication and Standaroization Studies on Some Medicinal Plants of Pakistan. |
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(Ph.D.) | 2012 | Inhibition of the Molecular Mechanism of Diabetes by Natural and Synthetic Antiglycation Agents. |
| 56. | Dr. Ala Uddin
(Ph.D.)
(Co-supervisor) | 2012 | Phytochemistry and Bioactivity of <i>Maytenus royleanus</i> and <i>Ficus Faveolata</i> |
| 57. | Dr. Saima Rasheed
(Ph.D.) | 2013 | Study of the Antiglycation Agents of Natural and Synthetic Origin |
| 58. | Dr. Humera Waheed
(Ph.D.)
(Co-supervisor) | 2013 | Study of Hemoglobin Protein from Leaf-nosed Viper (<i>Eristicophis macmahonii</i>) and SSindh Krait (<i>Bungarus sindanus sindanus</i>) and the Protein Translocation Complex from <i>Escherichia coli</i> . |
| 59. | Dr. Ajmal Khan
(Ph.D.) | 2013 | Identification and Biochemical Studies on the Inhibitors of Ureases. |
| 60. | Dr. Kourosh Dalvandi
(Ph.D.) | 2013 | Invitro Studies on the Inhibition of Beta Amyloid Deposition and of Cholinesterase Function by Natural and Synthetic Anti-Alzheimer Compounds. |
| 61. | Dr. Shumaila Tasneem
(Ph.D.) | 2013 | Effects on Dense Granule Secretion, Platelet Aggregation, Signaling Mechanisms, Antiinflammatory and Antioxidants Properties of COX Inhibitors and Lipid Lowering Drugs. |
| 62. | Dr. Bishnu Prasad Marasini
(Ph.D.)
(Co-supervisor) | 2013 | Screening and Structre Activity Relationship Studies on Inhibitors of α -Chymotrypsin and Glycogen Synthase Kinase-3. |
| 63. | Dr. Shehnaz Perveen
(Ph.D.)
(Co-supervisor) | 2014 | Studies on the Chemical Constituents of <i>Buxus species</i> |
| 64. | Dr. Amjad Hussain
(Ph.D.) | 2014 | Metabolomic Studies on Bioactive Compounds from <i>Salvia leriifolia</i> Benth |

65.	Dr. Munazza Raza Mirza (Ph.D.)	2014	Novel Bioanalytical Tools for Highly Selective Enrichment of Phosphopeptides
66.	Dr. Muhammad Saleem (Ph.D.)	2015	Identification Biochemical and Mechanistic Studies on the Inhibitors of Carbonic Anhydrase-II and Other Enzymes
67.	Dr. Saba Farooq (Ph.D.)	2015	Study of Possible Reversal Resistance in Some disease-causing Multiple Drug Research Bacteria by Natural Product and Other Biotechnological Tools
68.	Dr. Nusrat Hussain (Ph.D.)	2015	Phytochemical Investigation on <i>Lyonia ovalifoli</i> and Related Medicinal Plants, and Structural Transformation of Some Bioactive Natural Products
69.	Dr. Saira Bano (Ph.D.)	2015	Synthesis of Libraries of Potential Anti-Inflammatory Compounds by Biotransformational Techniques

F. SCHOLARS STUDIES WHO COMPLETED M.PHIL. UNDER THE SUPERVISION OF PROF. DR. M. IQBAL CHOUDHARY

1.	Mr. Abdul Jabbar (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 (M. Phil.)	2006	Synthesis of Novel Derivative of Bioactive Supptances by Microbial Transformation
3.	Mr. Muhammad Nasir (M. Phil.)	2008	Structural Modification of Bioactive Natural Products by Fungi
4.	Ms. Sadia Khan (M. Phil.)	2010	Studies on Natural Products Active Against Malarial Parasites by Using <i>in vivo</i> and <i>in vitro</i> Bioassay Methods
5.	Ms. Samreen (M. Phil.)	2011	Study of Leishmanicidal Compounds from Medical Plants
6.	Mr. Meher Ali (M. Phil.)	2011	Chemical and Bioassay Screening Studies on Lichens of Pakistani Origin
7.	Ms. Iman Omar (M. Phil.)	2012	Studies on Compounds for their Antioxidant Properties and Synthesis of High-load Oligomeric Dichlorrotriazine (ODCT) and Synthesis of Sultam Scaffolds using Intramolecular Diels-Alder (IMDA) Method.
8.	Ms. Marium Munawar (M. Phil.)	2012	Chemical Investigation of <i>Aconitum</i> and <i>Delphinium</i> Species and Studies of their Anticonvulsant Properties.

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| 9. | Ms. Rabia Hameed
(M.S.)
(Co-supervisor) | 2012 | Characterization and Biological Activity of the Derivatives of the Isolated Constituents From <i>Hartimannia resea</i> |
| 10. | Mr. Abdul Wajid Khan
(M. Phil.)
(Co-supervisor) | 2012 | Phytochemical Studies on <i>Aerva javanica</i> |
| 11. | Ms. Shaista Parveen
(M. Phil.)
(Co-supervisor) | 2012 | Phytochemical Studies on <i>Fagonia cretica</i> |
| 12. | Ms. Afsheen Raees
(M. Phil.) | 2013 | Changes in Lipid Profile and Oxidative Stress Ring Experimental Hyperlipidemia. |
| 13. | Ms. Nasreen Begum
(M. Phil.) | 2013 | Phytochemical Studies and Bioassay Evaluation of <i>Ipomoea carnea</i> . |
| 14. | Ms. Syeda Tahira Hasan
(M. Phil.) | 2013 | Effect of Curcumin and other Dietary Antioxidants on Cardiovascular Disease. |
| 15. | Ms. Salima Lalani
(M. Phil.)
(Co-supervisor) | 2013 | Studies on Mechanism of Action of a-Glucosidase Inhibitors. |
| 16. | Mr. Shahid Ali Khan
(M. Phil.) | 2014 | Isolation, Characterization and Bioactivity Evaluation of the Chemical Constituents of <i>Conyza canadensis</i> and <i>Withania coagulans</i> |
| 17. | Ms. Syeda Tatheer Fatima
(M. Phil.) | 2014 | Discovery of New Antibiotics Against MDR Bacteria |
| 18. | Ms. Ayesha Sarah
(M. Phil.)
(Co-supervisor) | 2014 | Application of Biochemical Saturation Transfer Difference and Other NMR Techniques for the Discovery of High Affinity Urease Inhibitors |

G. RESEARCH PUBLICATIONS

(Total Impact Factor 1646.4534 Total Citation 9447, h-Index 38)

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| 1. | Isolation and Structure of Rosamine, a New Pseudoindoxyl Alkaloid from <i>Catharanthus roseus</i> , Atta-ur-Rahman, I. Ali, M. Bashir and M. I. Choudhary , <u>Z. Naturforsch.</u> , 39b , 1292-1293 (1984). | Germany |
| 2. | Nigellimine-N-Oxide- a New Isoquinoline Alkaloid from the Seeds of <i>Nigella sativa</i> , Atta-ur-Rahman, S. Malik, S. Ahmed, M. I. Choudhary and Habib-ur-Rehman, <u>Heterocycles</u> , 23 , 953-955 (1985). | Japan |
| 3. | NMR and Mass Spectroscopic Studies on Catharine, Atta-ur-Rahman, I. Ali and M. I. Choudhary , <u>Z. Naturforsch.</u> , 40b , 543-545 (1985). | Germany |

4. The Isolation and Structure of Buxaquamarine- a New Steroidal Alkaloid from *Buxus papilosa*, Atta-ur-Rahman, **M. I. Choudhary** and M. Nisa, *Heterocycles*, **23**, 1951-1954 (1985). Japan
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6. Cyclobuxoviricine- a Steroidal Alkaloid from *Buxus papilosa*, Atta-ur-Rahman, **M. I. Choudhary** and M. Nisa, *Phytochemistry*, **24**, 3082-3083 (1985). UK
7. Alkaloids from the Leaves of *Buxus papilosa*, Atta-ur-Rahman, **M. I. Choudhary**, I. Ali and Habib-ur-Rehman, *J. Nat. Prod.*, **49**, 106-110 (1986). USA
8. 30-Acetoxy-*N*⁴-Benzoylbuxidienine- a New Alkaloid from the Leaves of *Buxus papilosa*, Atta-ur-Rahman and **M. I. Choudhary**, *J. Chem. Soc., Perkin Trans., I*, 919-921 (1986). UK
9. Bannucine- a New Dihydroindole Alkaloid from *Catharanthus roseus* (L) G. Don, Atta-ur-Rahman, I. Ali and **M. I. Choudhary**, *J. Chem. Soc., Perkin Trans., I*, 923-926 (1986). UK
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11. New Alkaloids from *Buxus papilosa*, **M. I. Choudhary**, Atta-ur-Rahman, A.J. Freyer and M. Shamma, *J. Nat. Prod.*, **50**, 84-88 (1987). USA
12. *N*-Benzoyl-16-acetylcyclobuxidine: a New Alkaloid from the Leaves of *Buxus papilosa*, Atta-ur-Rahman, **M. I. Choudhary** and M. Nisa, *Planta Medica*, **53**, 75-77 (1987). Germany
13. *N*-Formylcyclocrobuxeine- a New Alkaloid from the Leaves of *Buxus papilosa*, Atta-ur-Rahman, M. Alam, **M. I. Choudhary** and S. Firdous, *Planta Medica*, **53**, 496-497 (1987). Germany
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15. Four Steroidal Alkaloids from *Buxus papilosa*, **M. I. Choudhary**, Atta-ur-Rahman, and M. Shamma, *Phytochemistry*, **27**, 271-274 (1988). UK
16. Buxaminone- a New Alkaloid from the Leaves of *Buxus papilosa*, Atta-ur-Rahman, M. Alam and **M. I. Choudhary**, *J. Nat. Prod.*, **51**, 309-310 (1988). USA
17. Chemical Constituents of *Buxus sempervirens*, Atta-ur-Rahman, D. Ahmed, **M. I. Choudhary**, S. Turkoz and B. Sener, *Planta Medica*, **54**(2), 173-174 (1988). Germany
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26. Chromodorolide A- a Rearranged Diterpene with a New Carbon Skeleton from the Indian Ocean Nudibranch *Chromodoris cavae*, E.J. Dumdei, E. D. de Silva, R. J. Andersen, **M. I. Choudhary** and J. Clardy, *J. Am. Chem. Soc.*, **111**, 2712-2713 (1989). USA
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29. Zoanthaminone- a New Alkaloid from a Marine Zoanthid, Atta-ur-Rahman, K. A. Alvi, S. A. Abbas, **M. I. Choudhary** and J. Clardy, *Tetrahedron Lett.*, **30**, 6825-6828 (1989). UK
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31. Buxapapilinine- a Novel Alkaloid from the Leaves of *Buxus papillosa*, Atta-ur-Rahman, Z. Iqbal, **M. I. Choudhary** and T. Fatima, *Heterocycles*, **31**, 493-498 (1990). Japan
32. Steroidal Alkaloids from *Buxus papillosa*, Atta-ur-Rahman, Z. Iqbal, R. Zaidi and **M. I. Choudhary**, *J. Nat. Prod.*, **53**, 319-324 (1990). USA
33. Alstozine *N*-Oxide- a New Dihydroindole Alkaloid from *Alstonia macrophylla*, Atta-ur-Rahman, F. Nighat, G. Ahmed, **M. I. Choudhary**, Habib-ur-Rehman and K.T.D. de Silva, *Fitoterapia*, **LXI**(3), 230-236 (1990). Italy
34. 2-*O*- α -*D*-Galactopyranosyl Glycerol Hexaacetate from *Ruellia brittoniana*, V. U. Ahmed, **M. I. Choudhary**, M. F. Akhtar, M. Ahmed, G. H. Rizvani, K. U. Ghani and J. Clardy, *J. Nat. Prod.*, **53**, 960-963 (1990). USA

35. Terpenoids from the Sponge *Aplysilla glacialis* and Specimens of the Nudibranch *Cadlina luteomarginta* found on the Sponge, M. Tischler, R. J. Andersen, **M. I. Choudhary** and J. Clardy, *J. Org. Chem.*, **56**, 42-47 (1991). USA
36. A Furanoid Diterpenoid from *Tinospora malabarica*, Atta-ur-Rahman, S. Ahmed, **M. I. Choudhary** and S. Malik, *Phytochemistry*, **30**, 356-358 (1991). UK
37. Alkaloids from *Veratrum album*, Atta-ur-Rahman, R. A. Ali, T. Parveen, **M. I. Choudhary**, B. Sener and S. Turkoz, *Phytochemistry*, **30**, 368-370 (1991). UK
38. Stockerine- a Novel Linear Metabolite from *Stockeyia indica*, Atta-ur-Rahman, Z. Shah, **M. I. Choudhary**, S. A. Abbas and M. Shameel, *Fitoterapia*, **LXII**, 77-80 (1991). Italy
39. Alkaloids from *Rhazya stricta*, Atta-ur-Rahman, K. Zaman, S. Perveen, Habib-ur-Rehman, A. Muzaffar, **M. I. Choudhary** and A. Perveen, *Phytochemistry*, **30**, 1285-1293 (1991). UK
40. Steroidal Alkaloids from Leaves of *Buxus sempervirens*, Atta-ur-Rahman, D. Ahmed, E. Asif, S. A. Jamal, **M. I. Choudhary**, B. Sener and S. Turkoz, *Phytochemistry*, **30**, 1295-1298 (1991). UK
41. Chemical Constituents of *Alstonia macrophylla*, Atta-ur-Rahman, S. A. Abbas, F. Nighat, **M. I. Choudhary**, K. A. Alvi, Habib-ur-Rehman, K. T. D. De Silva and L. S. R. Arambewele, *J. Nat. Prod.*, **54**, 750-754 (1991). USA
42. A Diterpenoid Lactone from *Aplysia juliana*, Atta-ur-Rahman, K. A. Alvi, S. A. Abbas, T. Sultana, M. Shameel, **M. I. Choudhary** and J. Clardy, *J. Nat. Prod.*, **54**, 886-888 (1991). USA
43. Sophazrine- a Novel Quinolizidine Alkaloid from *Sophora griffithii*, Atta-ur-Rahman, A. Perveen, **M. I. Choudhary**, N. Hasan and B. Sener, *J. Nat. Prod.*, **54**, 929-935 (1991). USA
44. Clavepictines A and B: Cytotoxic Quinolizidines from the Tunicate *Clavelina picta*, M. F. Raub and J. H. Cardellina, **M. I. Choudhary**, C. Z. Ni, and J. Clardy, *J. Am. Chem. Soc.*, **113**, 3178-3180 (1991). USA
45. Macroxine- a Novel Oxindole Alkaloid from *Alstonia macrophylla*, Atta-ur-Rahman, F. Nighat, K. Zaman, A. Nelofer, **M. I. Choudhary** and K. T. D. De Silva, *Tetrahedron*, **47**, 3129-3136 (1991). USA
46. Two Withanolides from *Withania somnifera*, Atta-ur-Rahman, S. A. Jamal, **M. I. Choudhary** and E. Asif, *Phytochemistry*, **30**, 3824-3826 (1991). UK
47. Isolation and Structure Elucidation of Griffithine by 1D and 2D NMR Techniques, Atta-ur-Rahman, A. Parveen, M. Feroz, S. Parveen, **M. I. Choudhary** and N. Hasan, *Magn. Reson. Chem.*, **29**, 1077-1083 (1991). UK
48. New Tetrahydrofuranoid Steroidal Alkaloids from the Leaves of *Buxus heldebrandtii*, Atta-ur-Rahman, **M. I. Choudhary**, A. Ata and E. Dagne, *Heterocycles*, **34**, 157-171 (1992). Japan
49. Chemical Constituents of *Fumaria indica*, Atta-ur-Rahman, M. K. Bhatti, **M. I. Choudhary** and B. Sener, *Fitoterapia*, **LXIII**(2), 129-135 (1992). Italy

50. Two New Withanolides from *Withania somnifera*, Atta-ur-Rahman, S. A. Jamal and **M. I. Choudhary**, *Heterocycles*, **34**, 689-698 (1992). Japan
51. New Steroidal Alkaloids from Rhizomes of *Veratrum album*, Atta-ur-Rahman, R. A. Ali, **M. I. Choudhary**, B. Sener and S. Turkoz, *J. Nat. Prod.*, **55**, 565-570 (1992). USA
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53. Novel Triterpenoids from the Roots of *Buxus papillosa*, Atta-ur-Rahman, H. Nasir, E. Asif, S. S. Ali, Z. Iqbal, **M. I. Choudhary** and J. Clardy, *Tetrahedron*, **48**, 3577-3584 (1992). USA
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55. Alkaloids of *Fumaria indica*, Atta-ur-Rahman, M. K. Bhatti, Farzana Akhtar and **M. I. Choudhary**, *Phytochemistry*, **31**(8), 2869-2872 (1992). UK
56. Alkaloids from *Buxus* Species, Atta-ur-Rahman, S. Naz, F. Noor-e-Ain, R. A. Ali, **M. I. Choudhary**, B. Sener and S. Turkoz, *Phytochemistry*, **31**(8), 2933-2935 (1992). UK
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61. Isolation of Antihypertensive Alkaloids from the Rhizomes of *Veratrum album*, Atta-ur-Rahman, A. A. Ali, A. Gilani, **M. I. Choudhary**, K. Aftab, B. Sener and S. Turkoz, *Planta Medica*, **59**, 569-571 (1993). Germany
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72. New Furanoid Diterpenoidal Constituents of *Tinospora malabarica*, Atta-ur-Rahman, S. Ahmad, S. S. Ali, Z. Shah, **M. I. Choudhary** and J. Clardy, *Tetrahedron*, **50**, 12109-12112 (1994). USA
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