

CV and List of Publications

PROF. DR. MUHAMMAD IQBAL CHOUDHARY

*Mustafa (pbuh) Prize Laureate
(Hilal-i-Imtiaz, Sitara-i-Imtiaz, Tamgha-i-Imtiaz)*

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UNESCO Chairholder

Medicinal and Bio-Organic Natural Product Chemistry

Vice President TWAS

Central & South Asia, The World Academy of Sciences (TWAS)

Distinguished National and Meritorious Professor

International Center for Chemical and Biological Sciences

(H. E. J. Research Institute of Chemistry,

Dr. Panjwani Center for Molecular Medicine and Drug Research)

University of Karachi, Karachi-75270, Pakistan

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MUHAMMAD IQBAL CHOUDHARY

(Hilal-e-Imtiaz, Sitara-e-Imtiaz, Tamgha-e-Imtiaz)

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COMSTECH Secretariat, 33-Constitution Avenue, G-5/2,
Islamabad

General**COMSTECH****Vice President**

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TWAS**Distinguished****National and****Meritorious****Professor**

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

DATE OF BIRTH

September 11, 1959 (Karachi, Pakistan)

EDUCATION

Doctor of Science (D.Sc.) 2019
(Al-Farabi Kazakh National University, Kazakhstan)

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

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**

- **Indonesia Golden Award 2023** by the Consulate General of the Republic of Indonesia, Karachi (2023).
- **Friendship Award 2022** by the President of R. P. China.
- **Gold Medal** conferred by the International Turkic Academy (ITA), Kazakhstan (2022).
- **Mustafa (pbuh) Prize and Award (Laureate) in Bioorganic Chemistry** (Mustafa pbuh Science and Technology Foundation) 2021.
- **Golden Silkbball Friendship Award 2020** by the President Guangxi Normal University.

- Appointed by UNESCO as a **UNESCO Chairholder** on Medicinal and Bio-Organic Natural Product Chemistry (2020).
- President's International Fellowship Initiative (PIFI), "**Distinguished Scientist Award**" Chinese Academy of Sciences" (2020).
- **Dr. A. Q. Khan Gold Medal Award 2018**, Nazriya Pakistan Council, Islamabad (2018).
- Declared as the topmost scientist (Number 1) among 1,650 scientists of Pakistan in all disciplines / fields of science and technology (2012) by the Pakistan Council for Science and Technology (Ministry of Science and Technology), Pakistan.
- **COMSTECH Award** (57 OIC member countries) by the Prime Minister of Pakistan (2011).
- Civil Award *Hilal-e-Imtiaz* by the President of Pakistan (2008).
- Civil Award *Sitara-e-Imtiaz* by the President of Pakistan (2002).
- 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.)** from the 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** from the 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

- Fellow, LEAD-International, Leadership for Environment and Development (1998).
- Senior Fulbright Fellow at the University of California at San Diego, USA (1999).
- Fellow, Chemical Society of Pakistan (2001).
- Fellow, Pakistan Academy of Sciences (2002).
- Fellow, The Academy of Sciences for the Developing World (TWAS) (2002).

- Fellow, Islamic Academy of Science (2003).
- Fellow, Royal Society of Chemistry (2004).
- Fellow, World Innovation Foundation (2006).
- Fellow, International Union of Pure and Applied Chemistry (IUPAC).
- Member of the Selection Board of Pakistan Science Foundation (2023).
- Member of the Board of Governor, Hands Institute of Development Studies (2023).
- Chairman in KPI Formulation Committee, Sindh Higher Education Commission (SHEC) (2023).
- Adjunct Professor at the Institute of Biochemistry and Biophysics, University of Tehran, Iran (2023).
- Visiting Professor at the Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences, Beijing, P.R. China (2023-2028).
- Visiting Professor at the Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences (2023).
- Guest Professor at the Beijing Hospital of Traditional Chinese Medicine, Capital Medical University, Beijing, P. R. China (2023-2024).
- Member of the Advisory Council of National Skills University, Islamabad (2021).
- Appointment as a Coordinator General COMSTECH, Organization of Islamic Cooperation (OIC) Ministerial on Scientific and Technological Cooperation (2020).
- Member of the Prime Minister Task Force on COVID-19 (2020).
- Member of the Board of Trustees, Pakistan Science Foundation, Islamabad (2020).
- Accorded Membership of the Executive Management Group (EMG) of the 'A Global Network of the Tropical Neglected Diseases (NTD) (2019).
- Member of the National Committee constituted by the Federal Ministry of Science and Technology to develop a Network of Centers for advanced technologies in the country (2019).
- Adjunct Professor at the Faculty of Science and Technology, Universitas Airlangga, Surabaya, Indonesia (2019).
- Member of the Prime Minister Task Force, (2019).
- Member Advanced Studies Research Board, University of Karachi, (2019).
- Member of the Steering Committee on University of Engineering and Emerging Technologies (UEET), Lahore (2019).
- Adjunct Professor, National Institute of Fundamental Studies, Sri Lanka (2019)

ACCADEMIC APPOINTMENTS

- Visiting Professor at the T.C.M. Hospital of Southwest Medical University, Luzhou, Sichuan, China (2018).
- Advisor of the Interim Board of Study in Medicinal Biochemistry and Biotechnology, University of Colombo, Sri Lanka (2018).
- Member Board of Governors, Global Change Impact Studies Center (SCISC) (2018).
- Member of Board of Advanced Studies and Research (BASR), University of Karachi, Karachi (2018).
- Visiting Research Fellow, State Key Laboratory of Elemento-Organic Chemistry, Nankai University, China (2018).
- Member Board of Trustees, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) (2018).
- Distinguished International Supervisor of Institute of Food Science and Technology, Chinese Academy of Agriculture Sciences (CAAS) (2017).
- Visiting Professor at the Hunan University of Chinese Medicine, China (2017).
- Distinguished Professor at the Institute of Food Science and Technology, Chinese Academy of Agriculture Sciences (CAAS) (2017).
- Visiting Professor at the Guangxi Normal University and State Key Laboratory for Chemistry and Molecular Engineering of Medicine Resources China (2017).
- Member of the Eminent Editorial Board, Bentham Science Publishers, UAE (2017).
- Member of the Board of Governors, School of Biological Sciences, University of the Punjab, Lahore (2017).
- Member of the Progress Think Tank Advisory Council, Foundation for Progress, Karachi (2017).
- Member of the Board of Trustees, Pakistan Science Foundation, Islamabad (2017).
- Member Syndicate and Selection Board, NED University of Engineering and Technology, Karachi (2017).
- Member of the Board of Governors, School of Biological Sciences, University of the Punjab (2017).
- Member of the BASAR, COMSATS Institute of Information Technology, Abbottabad (2017).
- Member of the National Commission for Science and Technology (NCST) (2017).
- Member of the Editorial Board of the International Journal “Chemistry of Natural Compounds” (2017).
- Member of the Academy Council for the “Progress Think Tank The Vision of Progress” (2016).
- Member of the Board of Governors, Hamdard University, Karachi, Pakistan (2016).

- Member of the Board of Governors, Indus University, Karachi, Pakistan (2016).
- Adjunct Distinguished Professor at the University of Petra, Jordan (2015).
- Member Academic Council of COMSATS Institute of Information Technology (CIIT) (2015).
- Member of the Board of Trustees, Pakistan Science Foundation (PSF) (2015).
- Member of the Selection of Executive Director GCISC, Ministry of Climate Change (2015).
- Member Board of Governors, Hamdard University, Karachi (2015).
- Member of the Board of Management (BoMs) of PCSIR Laboratories (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.
- 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

- Member Board of Trustees, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), (2018).

COMMITTEES

- Member of the Executive Committee of the National Commission for Science and Technology (ECNCST).
- 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 Pakistan Standards & Quality Control Authority.
- Member of the Board of Studies of COMSATS University, Islamabad.
- 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.
- Organizing Secretary of Biannual International Symposia Series on Natural Product Chemistry (1988-2000), 7th Eurasia Chemical Congress (2002), and Pak-US Binational Workshops on Natural Product Chemistry (2000).
- Organizing Secretary of the 19th IUPAC Symposium on the Chemistry of Natural Products (1994) (The largest scientific event of Pakistan).

EXPERIENCE

Vice President (Central & South Asia) The World Academy of Sciences (TWAS)	2022 present
Coordinator General COMSTECH (Organization of Islamic Cooperation Standing Committee on Scientific and Technological Cooperation), Islamabad	2020 Present
Director International Center for Chemical and Biological Sciences, H. E. J. Research Institute of Chemistry University of Karachi, Karachi, Pakistan	2009 to Sep. 11, 2023
Adjunct Professor Institute of Biochemistry and Biophysics, University of Tehran, Iran (2023).	2023
Visiting Professor Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences, Beijing, P.R. China.	2023
Adjunct Professor National Institute of Fundamental Studies Kandy, Sri Lanka	2022

Visiting Professor Institut Teknologi Sepuluh nopember (ITS) Surabaya, Indonesia.	Present
Adjunct Professor Universitas Airlangga Indonesia	Present
Adjunct Professor National Institute of Fundamental Studies Sri Lanka	Present
Visiting Professor T.C.M. Hsopital of Southwest Medical University Luzhou, Sichuan, China	Present
Visiting Professor Guangxi Normal University and State Key Laboratory for Chemistry and Molecular Engineering of Medicine Resources, China.	Present
Visiting Professor National Pharmaceutical Chemistry of Human University of Chinese Medicine, China.	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, Karachi, Pakistan.	22 August 2002- September 2008

Professor H. E. J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan.	April 2000- Present
<i>(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).</i>	
Associate Professor H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan.	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, Karachi, Pakistan.	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 <i>Buxus</i> 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
University of Karachi, Karachi-75270, Pakistan
"Quantitative Analysis of Organic Pollutants in Soil and Rain Water of Karachi City".

Dec. 1981-
Aug. 1983

SPECIAL
DISTINCTIONS
AND SERVICES

- *Highest Number of International Research Publications by any Scientist of Pakistan in the last 10 Years.*
- *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 6 th 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 and 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 Medicinal Chemistry", Vol. 6, Eds. Atta-ur-Rahman, **M. Iqbal Choudhary**, Jizhou Wang, Allen and B. Reitz, Bentham Science Publishers, Amsterdam (2012). The Netherlands
26. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2013). The Netherlands
27. "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
28. "Frontiers in CNS Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2013). The Netherlands
29. "Anti-Angiogenesis Drug Discovery and Development", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. 2, Bentham Science Publishers, Amsterdam (2014). The Netherlands

30. “Anti-Obesity Drug Discovery and Development”, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **2**, Bentham Science Publishers, Amsterdam (2014). The Netherlands
31. “Frontiers in Anti-Cancer Drug Discovery”, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **3**, Bentham Science Publishers, Amsterdam (2014). The Netherlands
32. “Frontiers in Anti-Cancer Drug Discovery”, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **4**, Bentham Science Publishers, Amsterdam (2014). The Netherlands
33. “Frontiers in Anti-Infective Drug Discovery”, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **2**, Bentham Science Publishers, Amsterdam (2014). The Netherlands
34. “Frontiers in Anti-Infective Drug Discovery”, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **3**, Bentham Science Publishers, Amsterdam (2014). The Netherlands
35. “Drug Design & Discovery Alzheimer’s Disease”, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **6**, Bentham Science Publishers, Amsterdam (2014). The Netherlands
36. “Applications of NMR Spectroscopy” Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **1**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
37. “Applications of NMR Spectroscopy” Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **2**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
38. “Frontiers in Anti-Infective Drug Discovery”, Vol. **4**, Eds. Atta-ur-Rahman and **M. I. Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
39. “Frontiers in Anti-Cancer Drug Discovery”, Vol. **5**, Eds. Atta-ur-Rahman and **M. I. Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
40. “Frontiers in Cardiovascular Drug Discovery”, Vol. **2**, Eds. Atta-ur-Rahman and **M. I. Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
41. “Frontiers in Clinical Drug Research - Alzheimer Disorders”, Vol. **3**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
42. “Frontiers in Clinical Drug Research – HIV”, Vol. **1**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
43. “Frontiers in Medicinal Chemistry”, Vol. **7**, Eds. Atta-ur-Rahman, **M. Iqbal Choudhary**, Jizhou Wang, Allen and B. Reitz, Bentham Science Publishers, Amsterdam (2015). The Netherlands
44. “Frontiers in Clinical Drug Research – HIV”, Vol. **2**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
45. “Frontiers in Clinical Drug Research - Alzheimer Disorders”, Vol. **4**, Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
46. “Applications of NMR Spectroscopy”, Vol. **3**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
47. “Anti-Angiogenesis Drug Discovery and Development”, Vol. **3**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2015). The Netherlands

48. "Recent Advances in Medicinal Chemistry", Vol. **1**, Eds. Atta-ur-Rahman, **M. Iqbal Choudhary** and G. Perry, Bentham Science Publishers, Amsterdam (2015). The Netherlands
49. "Solving Problems with NMR Spectroscopy" Eds. Atta-ur-Rahman, **M. Iqbal Choudhary** and Atia-tul-Wahab, Vol. **2**, Academic Press (2015). USA
50. "Drug Design and Discovery in Alzheimer's Disease", Vol. **1**, Eds. Atta-ur-Rahman, **M. Iqbal Choudhary** and G. Perry, Bentham Science Publishers, Amsterdam (2015). The Netherlands
51. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **6**, Bentham Science Publishers, Amsterdam (2015). The Netherlands
52. "Recent Advances in Medicinal Chemistry", Vol. **2**, Eds. Atta-ur-Rahman, **M. Iqbal Choudhary** and G. Perry, Bentham Science Publishers, Amsterdam (2015). The Netherlands
53. "Applications of NMR Spectroscopy", Vol. **4**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2016). The Netherlands
54. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **7**, Bentham Science Publishers, Amsterdam (2016). The Netherlands
55. "Applications of NMR Spectroscopy", Vol. **5**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2016). The Netherlands
56. "Frontiers in Medicinal Chemistry", Vol. **8**, Eds. Atta-ur-Rahman, **M. Iqbal Choudhary**, Jizhou Wang and Allen B. Reitz, Bentham Science Publishers, Amsterdam (2016). The Netherlands
57. "Frontiers in Medicinal Chemistry", Vol. **9**, Eds. Atta-ur-Rahman, **M. Iqbal Choudhary**, Jizhou Wang and Allen B. Reitz, Bentham Science Publishers, Amsterdam (2016). The Netherlands
58. "Frontiers in Cardiovascular Drug Discovery", Vol. **3**, Eds. Atta-ur-Rahman and **M. I. Choudhary**, Bentham Science Publishers, Amsterdam (2016). The Netherlands
59. "Anti-Angiogenesis Drug Discovery and Development", Vol. **4**, Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Bentham Science Publishers, Amsterdam (2016). The Netherlands
60. "Frontiers in Drug Design and Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **7**, Bentham Science Publishers, Amsterdam (2016). The Netherlands
61. "Applications of NMR Spectroscopy", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **6**, Bentham Science Publishers, Amsterdam (2017). The Netherlands
62. "Frontiers in Anti-Infective Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **5**, Bentham Science Publishers, Amsterdam (2017). The Netherlands
63. "Frontiers in Anti-Cancer Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **8**, Bentham Science Publishers, Amsterdam (2017). The Netherlands
64. "Frontiers in Anti-Infective Drug Discovery", Eds. Atta-ur-Rahman and **M. Iqbal Choudhary**, Vol. **6**, Bentham Science Publishers, Amsterdam (2017). The Netherlands
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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 (Co-supervisor)	1994	Phytochemical Investigations on the Constituents of <i>Buxus papillosa</i> and Related Medicinal Plants
2.	Dr. Attar Ata	1995	Phytochemical and Structural Studies on the Chemical Constituents of <i>Buxus hildebrandtii</i> and <i>B. sempervirens</i>
3.	Dr. Farzana Akhtar	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	1998	Isolation of Antiepileptic Constituents and Biotransformation of Bioactive Natural Products from some Medicinally Important Plants of Pakistan
5.	Dr. Muhammad Yusuf	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	1999	Phytochemical Studies on <i>Sarcococca</i> Species and Related Medicinal Plants
7.	Dr. Dur-e-Shahwar	1999	Isolation and Structural Studies on the Withanolidal Constituents of <i>Withania coagulans</i>
8.	Dr. Mufti Asif Ullah	1999	Production and use of Tailor-made Biological Catalysts
9.	Dr. Mohsin Raza (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	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 (Co-supervisor)	2001	Isolation and Identification of the Chemical Constituents of <i>Sarcococca saligna</i>

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| 19. | Dr. Sadia Sultan | 2005 | Studies on the Structural Modifications of the Steroids and Related Compounds by Microorganisms |
| 20. | Dr. Humaira Yasmeen Gondal | 2005 | Isolation and Biotransformation of Bioactive Compounds from Medicinal Plants |
| 21. | Dr. Aziz Uddin | 2005 | Phytochemical Studies on <i>Murraya paniculata</i> and Related Medicinal Plants of Pakistan and Microbial Transformation of Bioactive Compounds |
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| 25. | Dr. Ahmad Abbas Khan | 2006 | Phytochemical and Biological Studies on the Constituents of <i>Isodon rugosus</i> and Chemotaxonomic Studies on Indian Celery Seeds (<i>Seseli diffusum</i>) |

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| 26. | Dr. Sammer Yousuf | 2007 | Isolation, Structure Elucidation and Biotransformation Studies of Secondary Metabolites from <i>Withania somnifera</i> and Related Plants |
| 27. | Dr. Salma Shahnaz | 2007 | Phytochemical Studies on the Steroidal and Constituents of <i>Buxus hyrcana</i> and <i>Juniperus communis</i> |
| 28. | Dr. Zafar Ali Siddiqui | 2007 | Biotransformational Studies on Bioactive Secondary Metabolites of Plant Origin |
| 29. | Dr. Muhammad Atif | 2007 | Structural Modifications of Bioactive Compounds by Microorganisms and the Isolation of Secondary Metabolites from Fungi |
| 30. | Dr. Afshan Begum | 2007 | Isolation and Structural Studies on Phytochemicals Active in Various Biological Assays. |
| 31. | Dr. Muhammad Arif Lodhi | 2007 | Studies on New Natural and Synthetic Inhibitors of Urease |
| 32. | Dr. Shams-un-Nahar Khan | 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 | 2008 | Assessment of the Efficacy of Natural Products on Lipidemias, Hypercholesterolemia and Related Metabolic and Hormonal Abnormalities. |
| 34. | Dr. Saima Jalil | 2008 | Evaluation of Anti-Inflammatory Effects of Natural and Synthetic Compounds. |
| 35. | Dr. Shamsher Ali | 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 | 2009 | Studies on Antioxidant and Antiobesity Bioactive Compounds from Medicinal Plants of Pakistan and of Synthetic Origin |
| 37. | Dr. Saleem Jan | 2009 | Isolation and Structure Elucidation of Bioactive Metabolites from <i>Astragalus bicuspis</i> |
| 38. | Dr. Sumaira Hareem | 2009 | Isolation, Structural and Biotransformation Studies on Secondary Metabolites from <i>Iris loczyi</i> and Related Medicinal Plants |
| 39. | Dr. Khalid Parvez | 2009 | Studies on the Bioactive Chemical Constituents of <i>Sophora alopecuroides</i> and Solid-Phase Synthesis of Carbohydrates |

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| 40. | Dr. Achyut Adhikari | 2010 | Bioprospecting Studies on <i>Sarcococca coriacea</i> (HOOK. F.) of Nepalese Origin |
| 41. | Dr. Sajjan Lal Shyaula (Shrestha) | 2010 | Isolation and Structure Elucidation of Bioactive Compounds from <i>Osyris wightiana</i> |
| 42. | Dr. Naik Tamkeen Khan | 2010 | Biotransformation of Enzyme Inhibitors and other Bioactive Compounds |
| 43. | Dr. Hina Siddiqui | 2010 | Studies on Antioxidant Properties of Chemical Constituents and Synthesis of Sultam Libraries as Novel Potential Therapeutic Agents |
| 44. | Dr. Ghulam Abbas | 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 |
| 45. | Dr. Sajjad Ali | 2010 | Discovery of Antioxidants from Natural and Synthetic Sources and Study of their Effect on the Onset of the Diabetes in Model Rats |
| 46. | Dr. Sofia Khaliq Alvi | 2010 | Black Carbon in Ambient Air Karachi: Implications to Regional Climate and Air Quality |
| 47. | Dr. Juveria Siddiqui | 2011 | Evaluation of the Antioxidant Constituents of Plant-Based Food in Pakistan |
| 48. | Dr. Nadira Naheed | 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 | 2011 | Studies on Anticancer Agents and other Bioactive Compounds of Dietary Origin |
| 50. | Dr. Shahab Alam | 2012 | Isolation of Bioactive Natural Products from <i>Lonicera nummularifolia</i> , and Related Medicinal Plants and Combinatorial Synthesis of Natural Product Libraries |
| 51. | Dr. Marium Bibi | 2012 | Biotransformation of Bioactive Steroids and Terpenes and Study of Factors Responsible of Selected Transformation |
| 52. | Dr. Salman Zafar | 2012 | Study of Biotransformation of Most Common Drugs by Microbial and Plant Cell Cultures |
| 53. | Dr. Saima Maher | 2012 | Isolation and Structural Studies on Bioactive Constituents of <i>Viscum album</i> and <i>Withania coagulans</i> |
| 54. | Dr. Rida Ahmed | 2012 | Fast Dereliction and Standardization Studies on Some Medicinal Plants of Pakistan. |

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| 55. | Dr. Humaira Jahan | 2012 | Inhibition of the Molecular Mechanism of Diabetes by Natural and Synthetic Antiglycation Agents. |
| 56. | Dr. Ala Uddin
(Co-supervisor) | 2012 | Phytochemistry and Bioactivity of <i>Maytenus royleanus</i> and <i>Ficus Faveolata</i> |
| 57. | Dr. Saima Rasheed | 2013 | Study of the Antiglycation Agents of Natural and Synthetic Origin |
| 58. | Dr. Humera Waheed
(Co-supervisor) | 2013 | Study of Hemoglobin Protein from Leaf-Nosed Viper (<i>Eristicophis macmahonii</i>) and Sindh Krait (<i>Bungarus sindanus sindanus</i>) and the Protein Translocation Complex from <i>Escherichia coli</i> |
| 59. | Dr. Ajmal Khan | 2013 | Identification and Biochemical Studies on the Inhibitors of Ureases |
| 60. | Dr. Kourosh Dalvandi | 2013 | <i>In vitro</i> Studies on the Inhibition of Beta Amyloid Deposition and of Cholinesterase Function by Natural and Synthetic Anti-Alzheimer Compounds |
| 61. | Dr. Shumaila Tasneem | 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
(Co-supervisor) | 2013 | Screening and Structure Activity Relationship Studies on Inhibitors of α -Chymotrypsin and Glycogen Synthase Kinase-3 |
| 63. | Dr. Shehnaz Perveen
(Co-supervisor) | 2014 | Studies on the Chemical Constituents of <i>Buxus species</i> |
| 64. | Dr. Amjad Hussain | 2014 | Metabolomic Studies on Bioactive Compounds from <i>Salvia leriifolia</i> Benth |
| 65. | Dr. Munazza Raza Mirza | 2014 | Novel Bioanalytical Tools for Highly Selective Enrichment of Phosphopeptides |
| 66. | Dr. Muhammad Saleem | 2015 | Identification, Biochemical and Mechanistic Studies on the Inhibitors of Carbonic Anhydrase-II and Other Enzymes |
| 67. | Dr. Saba Farooq
(Co-supervisor) | 2015 | Study of Possible Reversal Resistance in some Resistant Disease-Causing Multiple Drug Research Bacteria by Natural Product and Other Biotechnological Tools |

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| 68. | Dr. Nusrat Hussain | 2015 | Phytochemical Investigation on <i>Lyonia ovalifoli</i> and Related Medicinal Plants, and Strcutural Transformation of Some Bioactive Natural Products |
| 69. | Dr. Saira Bano | 2015 | Synthesis of Libraries of Potential Anti-Inflammatory Compounds by Biotransformational Techniques |
| 70. | Dr. Mujeeb-ur-Rehman | 2015 | Phytochemical and Bioassay Studies on <i>Adiantum venustum</i> (A Fern) and <i>Reboulia hemisphaerica</i> (A Liverwort) |
| 71. | Dr. Malik Shoaib Ahmad | 2015 | Biotransformation of Steroids, diterpene and Polyketide, and Study of Their Biological Activities |
| 72. | Dr. Shahida Perveen | 2016 | Studies on Hepatoprotective Effects of Synthetic Compounds and Secondary Metabolites of Medicinal Plants by Using Antioxidant and Relevant Bioassays |
| 73. | Dr. Humaira Zafar | 2016 | Study on the Inhibition of Oxidative Enzyme (Xanthine oxidase) as a Tool to Prevent Oxidative Stress and Related Diseases |
| 74. | Ms. Fauzia
(Co-supervisor) | 2016 | Evaluation of the Anti-Kidney Stone (Anti-urolithiasis) Activity of Natural Products, and Study of their Mechanism of Action |
| 75. | Dr. Sumaira Javaid | 2016 | Screening of Chemical Compounds (Secondary Metabolites and Heterocyclic Synthetic Compounds) for heir Anti-angiogenic, Anti-oxidant, and CNS Myelin Repair Activities |
| 76. | Dr. Salman Ahmed Khan | 2017 | Modulation of Proliferation and Apoptosis Biomarkers in Oral and other Cancers |
| 77. | Dr. Mohammad Yasin Mahmood
Mohammad | 2017 | Biotransformational Studies on Bioactive Steroidal and Terpenoidal Compounds |
| 78. | Dr. Shabbir Hussain | 2017 | Phytochemical Studies on Steroidal Lactones and Alkaloids of <i>Withania somnifera</i> , and <i>Buxus hyrcana</i> |
| 79. | Dr. Areeba Anwar | 2017 | Flavonoids: Potential Modulators of Oncogenes Expression involved in the Signaling Pathways of Colorectal Carcinoma Cells. |
| 80. | Mr. Zahid Hussain | 2017 | Biotransformational Studies of Steroids and their Biological Activities |

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| 81. | Dr. Sharmeen Fayyaz | 2018 | Study of Inhibition of Carbonic Anhydrase II and Dpp-IV as Possible Targets of Drug Discovery |
| 82. | Dr. Syeda Asma Naqvi | 2018 | Identification of Therapeutically Important Molecules Against Breast Cancer Cells |
| 83. | Dr. Amtul Sami | 2017 | Study on the Natural Products and Other Related Compounds Active Against Bacteria Associated |
| 84. | Dr. Raheeda Swaleh | 2018 | Isolation and Structure Elucidation of Chemical Compounds from <i>Garcinia polyantha</i> , and Microbial Transformations of Some Medicinally Important Compounds |
| 85. | Dr. Rabia Farooq | 2018 | Exploiting the Biotransformation Techniques for the Designing and Synthesis of New Anti-malarial and other Bioactive Compound. |
| 86. | Dr. Sajid Ali | 2018 | Evaluation of the Effects of Natural and Synthetic Compounds in Cytokine-induced Apoptosis in Pancreatic Beta Cells. |
| 87. | Dr. Fernaz Mumtaz | 2018 | Studies on Natural Products Active Against Urease-Mediated, and Common Viral Diseases. |
| 88. | Dr. Arsalan Nizamani | 2019 | Studies on Glycation Sites and Inhibition of Glycation of Proteins Related to Diabetic Complications |
| 89. | Dr. Muniza Shaikh | 2019 | Inhibitors of Advanced Glycation End Products (AGEs) and Study of their Mechanism of Action |
| 90. | Dr. Qurat-ul-Ain | 2019 | Study of the Effect of Antioxidants on Oxidative Stress in Molecular and Cellular Models |
| 91. | Dr. Abdul Wajid | 2019 | Isolation, Screening and Characterization of Bioactive Metabolite(s) from Diverse Microbial Sources and Biotransformation of Bioactive Compounds |
| 92. | Dr. Rehan Imad | 2019 | Study of Apoptotic Effects of Anti-Cancerous Compounds on MCF-7 and MDA-MB-231 Breast Cancer Cell Lines |
| 93. | Dr. Meshal Nazeer | 2019 | Structural and Functional Studies on Proteins and Peptides of <i>Cuminumcyminum</i> and Other Spices |
| 94. | Dr. Muhammad Arsalan Bashir
(Co-supervisor) | 2019 | Design and Synthesis of New Anti-Bacterial Agents Multidrug Resistant <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> |

95.	Dr. Dur-e-Shahwar (Co-supervisor)	2019	Structural and Functional Studies on Proteins and Peptides Isolated from Multidrug-resistance (MDR) Bacteria by using Multi-Dimensional NMR and Bioassay Techniques
96.	Dr. Shazia Iqbal (Co-supervisor)	2019	Synthesis of Novel Indole, Carbazole Linked Triazole and Acyl Sultam Compounds and Their Biological Activity Evaluation in Molecular and Cellular Models
97.	Dr. Farhana Batool (Co-supervisor)	2021	Synthesis and Biological Activities of Novel Analogues of Metronidazole and Related Heterocyclic Compounds
98.	Dr. Mahwish Siddiqui	2021	Biotransformation of Anabolic, Anti-Cancer and Anti-Epileptic Drugs, and Biological Activity Evaluation of their Resultant Transformed Products
99.	Dr. Nuzhat Shehla	2021	Identification, and Biological Evaluation of Terpenoids, and Lignans from <i>Kadsura heteroclita</i> (Roxb.) Craib., and Stilbenoids from <i>Vitis vinifera</i> L.
100.	Dr. Majid Khan	2021	Identification and Study of Mechanism of Action of Inhibitors of Urease's of Diverse Origins
101.	Dr. Ambreen Aziz	2022	Biotransformation Studies of Steroidal and other Drugs, and Bioactivity Evaluation of Resulting Metabolites
102.	Dr. Muhammad Aamer (Co-supervisor)	2023	Phytochemical Studies on <i>Lanena acida</i> A. Rich. and Microbial Transformation of Selected Steroids and Evaluation of their Biological Activities

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

1.	Mr. Abdul Jabbar	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	2006	Synthesis of Novel Derivative of Bioactive Supftances by Microbial Transformation
3.	Mr. Muhammad Nasir	2008	Structural Modification of Bioactive Natural Products by Fungi
4.	Ms. Sadia Khan	2010	Studies on Natural Products Active against Malarial Parasites by using <i>in vivo</i> and <i>in vitro</i> Bioassay Methods

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| 5. | Ms. Samreen | 2011 | Study of Leishmanicidal Compounds from Medical Plants |
| 6. | Mr. Meher Ali | 2011 | Chemical and Bioassay Screening Studies on Lichens of Pakistani Origin |
| 7. | Ms. Iman Omar | 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 | 2012 | Chemical Investigation of <i>Aconitum</i> and Delphinium Species and Studies of their Anticonvulsant Properties. |
| 9. | Ms. Rabia Hameed
(Co-supervisor) | 2012 | Characterization and Biological Activity of the Derivatives of the Isolated Constituents From <i>Hartimannia resea</i> |
| 10. | Mr. Abdul Wajid Khan
(Co-supervisor) | 2012 | Phytochemical Studies on <i>Aerva javanica</i> |
| 11. | Ms. Shaista Parveen
(Co-supervisor) | 2012 | Phytochemical Studes on <i>Fagonia cretica</i> |
| 12. | Ms. Afsheen Raees
(Co-supervisor) | 2013 | Changes in Lipid Profile and Oxidative Stress Ring Experimental Hyperlipidemia |
| 13. | Ms. Nasreen Begum | 2013 | Phytochemical Studies and Bioassay Evaluation of <i>Ipomoea carnea</i> . |
| 14. | Ms. Syeda Tahira Hasan | 2013 | Effect of Curcumin and other Dietary Antioxidants on Cardiovascular Disease |
| 15. | Ms. Salima Lalani
(Co-supervisor) | 2013 | Studies on Mechanism of Action of α -Glucosidase Inhibitors |
| 16. | Mr. Shahid Ali Khan | 2014 | Isolation, Characterization and Bioactivity Evaluation of the Chemical Constituents of <i>Conyza canaderisis</i> and <i>Withaania coaguelans</i> |
| 17. | Ms. Syeda Tatheer Fatima | 2014 | Discovery of New Antibiotics Against MDR Bacteria |
| 18. | Ms. Ayesha Sarah
(Co-supervisor) | 2014 | Application of Biochemical Saturation Transfer Difference and Other NMR Techniques for the Discovery of High Affinity Urease Inhibitors |
| 19. | Ms. Anum Jabeen Mughal | 2016 | Hstablishment and Characterization of Human Breast Cancer Cell Line of Pakistani Origin |
| 20. | Ms. Kulsoom Javaid | 2016 | Identification and Mechanistic Studies on Inhibitors of α -Glucosidase Enzymes from Various Sources |

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| 21. | Ms. Fiza Arshad | 2017 | Studies of Inhibitors of Carbonic Anhydrase-II and Phosphodiesterase-I Enzymes their Mechanism of Action. |
| 22. | Ms. Faiza Qayyum | 2017 | Exploration of Inhibitors of Glycation of Proteins |
| 23. | Mr. Majid Khan | 2017 | Identification of Ureas Inhibitors, and Study of their Effect on the Growth of Ureolytic Bacteria Responsible for Urolithiasis |
| 24. | Mr. Muhammad Danish Sharif | 2017 | Discovery of Tyrosinase Inhibitors, and Study of their Mechanism of Action |
| 25. | Ms. Nimra Naveed Shaikh | 2017 | Study of Molecular Structures and Drug Ability Potential of New Inhibitors of beta Glucuronidase Enzyme |
| 26. | Mehwish Siddiqui | 2017 | Biotransformational Studies on Anti-Epileptic, Anabolic, and Neuroactive Compounds. |
| 27. | Ms. Zunaira Khan | 2017 | Studies on Medicinal Plants, Natural Products and Synthetic Compounds as Antioxidants and Hepatoprotective Agents |
| 28. | Ms. Nuzhat Shehla | 2018 | Phytochemical and Biological Studies of <i>Lallemantia royleana</i> Benth, and <i>Kadsura hateroclitia</i> (Roxb.) Craib |
| 29. | Ms. Ambreen Aziz | 2018 | Synthesis of Libraries of Bioactive Compounds by Microbial Transformation Techniques |
| 30. | Ms. Anum Ikhtikhar Malik | 2018 | Identification of Novel Pancreatic Lipase Inhibitors for Anti-obesity Activity. |
| 31. | Ms. Mahwish Ashraf | 2018 | <i>In Vitro</i> Studies on Dual Inhibitor of Protein Glycation and Reactive Oxygen Species |
| 32. | Ms. Hafsa Arshad
(Co-supervisor) | 2018 | Phytochemical and Bioassay Studies on <i>Rhamnus persica</i> |
| 33. | Ms. Faisal Shahid | 2018 | Structural Functional and Inhibition Studies on Therapeutically Important Proteins of <i>Staphylococcus aureus</i> <i>Salmonella thphimurium</i> and other Pathogenic Bacteria |
| 34. | Mr. Shezaib Siddiqui
(Co-supervisor) | 2018 | Expression, Purification and Inhibition Studies on Proteins from Methicillin Resistant <i>Staphylococcus aureus</i> , and <i>Escherichia coli</i> |
| 35. | Mr. Faryal Ashraf
(Co-supervisor) | 2018 | Studies on Therapeutically Important Proteins of Vancomycin-resistant <i>Staphylococcus aureus</i> . |
| 36. | Ms. Shabana Khaskheli | 2018 | Biotransformation of Terpenes and Terpenoids and Other Bioactive Compounds |

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| 37. | Ms. Sheeba Wajid | 2018 | Cholinesterase Inhibition by Natural and Synthetic Compounds |
| 38. | Mr. Muhammad Altaf | 2018 | Identification of Thymidine Phosphorylase Inhibitors, and Study of Their Mechanism of Action |
| 39. | Mr. Ghulam Farooq | 2018 | Phytochemical and Bioassay Studies on <i>Glycyrrhiza</i> Species |
| 40. | Ms. Saira Javed | 2019 | Study of the Biotransformation of Steroidal Drugs, and Bioactivity Evaluation of Transformed Products |
| 41. | Mr. Muhammad Aamir | 2019 | Phytochemical and Biological Studies on <i>Conyza canadensis</i> |
| 42. | Ms. Asia | 2019 | Synthesis of Vindoline Derivatives and Evaluation of their Biological Activities |
| 43. | Mr. Shamsher Ali | 2019 | Synthesis of Vindoline Derivatives and Evaluation of their Biological Activities |
| 44. | Mr. Saeed Ullah
(Co-supervisor) | 2019 | Identification of Inhibitors of the Key Metabolic Enzymes α -Glucosidase and Lipase |
| 45. | Ms. Aneela Fayaz | 2019 | Aromatic C-H Activation in Polyphenolic Natural Products and Model Compounds by Wather Catalysis |
| 46. | Ms. Saima Hasan Mari | 2019 | Investigation of Hydrogen Atomic Positions in Intramolecular Hydrogen Bonds of Natural Products and their Derivatives Through the Synergy of NMR with X-Ray and Neutron Diffraction Method |
| 47. | Mr. Khair Ullah | 2019 | Investigation of New Prolyl Endopeptidase Inhibitors, and Study of their Inhibitory Mechanism |
| 48. | Ms. Hassan Ali | 2019 | Phytochemical and Biological Studies on <i>Parrotia persica</i> |
| 49. | Ms. Mariam Ashfaq | 2019 | Study of Effects of Oncogene Modulators and their Mechanism of Action at Molecular and Genetic Level in Non-small Cell Lung Carcinoma |
| 50. | Ms. Anum Anwar | 2019 | Discovery of Protein Glycation Inhibitors and Study of their Effect on Protein Cross-linking |
| 51. | Ms. Hareem Siraj | 2019 | Discovery of Antibiofilm Compounds against Gram-negative Bacteria |
| 52. | Ms. Faiza Nadeem | 2019 | Discovery of Novel Antibiofilm Agents against <i>Candida parapsilosis</i> |
| 53. | Mr. Shoukat Wali | 2020 | Identification of the Compounds Active against <i>Candida glabrata</i> , and <i>Candida albicans</i> and Study of their Structure-Activity Relationship |

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| 54. | Mr. Aziz-ur-Rehman | 2020 | Study of Natural and Synthetic Compounds to Prevent Bone Fragility <i>In Vitro and In Vivo</i> |
| 55. | Ms. Sana Fatima Ansari
(Co-supervisor) | 2020 | Investigation of the Molecular basis of H ₂ O-DMSO-Natural Products Eutectic Mixtures by using NMR Spectroscopy and DFT Calculations |
| 56. | Mr. Muhammad Atif | 2020 | <i>In-Silico</i> , Biochemical, and NMR-Based Analysis of New Fucosyltransferase 2 Inhibitors |
| 57. | Ms. Anam Alam | 2021 | Identification of Compounds Active Against Breast Cancer Cells <i>In Vitro</i> and Studies on their Mechanisms of Action |
| 58. | Ms. Farzeen Ghazal | 2021 | Study of Natural Products and their Derivatives Against <i>Klebsiella pneumonia</i> and <i>Streptococcus pneumoniae</i> |
| 59. | Mr. Hafiz Nadeem Khan | 2022 | Study of Antilycation and Antioxidant Constituents of <i>Illicium verum</i> and Related Medicinal Plants |
| 60. | Ms. Afshan Gul | 2021 | Identification of New Xanthine Oxidase Inhibitors, and Study of Their Inhibitory Mechanism by NMR-Based and <i>In Silico</i> Methods |
| 61. | Ms. Habiba | 2022 | Isolation of Biologically Active Constituents from <i>Delphinium Semibarbatum</i> and <i>Iris Loczyi</i> and Separation and Analysis of their Chemical constituents by Using LC-MS/MS. |
| 62. | Ms. Rabia Ali | 2022 | Bioprospecting of <i>Punica granatum</i> L. and <i>Berberis parkeriana</i> Schneid. |
| 63. | Mr. Rabbia Anis | 2022 | Identification of New Aromatase Inhibitors Using NMR as a Key Tool |
| 64. | Ms. Humaira Siddiqui
(Co-supervisor) | 2022 | Expression, Functional, and Preliminary NMR Structural Studies of Vanomycin-Resistant <i>Staphylococcus aureus</i> Proteins |
| 65. | Ms. Aerab Abdul Karim | 2023 | Biotransformation and Chemical Derivatization of Bioactive Compounds and Study of their Biological Activities, and Stereochemistry |
| 66. | Mr. Asmat Ullah
(Co-supervisor) | 2023 | Solution NMR Studies of Transcriptional Regulator, and Hypothetical Proteins from <i>Staphylococcus aureus</i> and Non-Structural Protein from <i>DENV</i> |
| 67. | Mr. Muhammad Awais
(Co-supervisor) | 2023 | Identification of New α -1-6-Fucosyltransferase Inhibitors VIA STD-NMR, <i>In Silico</i> , and Biochemical Studies |
| 68. | Mr. Hafiz Muhammad Bilal | 2023 | Discovery of Chemical Compounds Active Against Biofilm Forming Strains of <i>Staphylococcus aureus</i> , and Study of their Mechanism of Action |

69. Ms. Sumaira Hamid 2023 Discovery and Study of the Mechanism Action of Resistance Reversal Agents Against Methicillin-Resistant *Staphylococcus aureus* (MRSA).
70. Ms. Hira Naz 2024 Medicinal Plant Extracts and Phytochemicals as Inhibitors of Kidney Stones - Biochemical and Molecular Studies.

G. RESEARCH PUBLICATIONS

(Total Impact Factor 2,725 Total Citation 42,180, h-Index 84)

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 , <i>Z. Naturforsch.</i> , 39b , 1292-1293 (1984).	Walter de Gruyter
2.	Nigellimine- <i>N</i> -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, <i>Heterocycles</i> , 23 , 953-955 (1985).	Elsevier
3.	NMR and Mass Spectroscopic Studies on Catharine, Atta-ur-Rahman, I. Ali and M. I. Choudhary , <i>Z. Naturforsch.</i> , 40b , 543-545 (1985).	Walter de Gruyter
4.	The Isolation and Structure of Buxaquamarine- a New Steroidal Alkaloid from <i>Buxus papilosa</i> , Atta-ur-Rahman, M. I. Choudhary and M. Nisa, <i>Heterocycles</i> , 23 , 1951-1954 (1985).	Elsevier
5.	Isolation and ¹³ C-NMR Studies on Cathovaline- an Alkaloid from the Leaves of <i>Catharanthus roseus</i> , Atta-ur-Rahman, I. Ali and M. I. Choudhary , <i>Planta Medica.</i> , 51 , 447-448 (1985).	Thieme Medical Publishers
6.	Cyclobuxoviricine- a Steroidal Alkaloid from <i>Buxus papilosa</i> , Atta-ur-Rahman, M. I. Choudhary and M. Nisa, <i>Phytochemistry</i> , 24 , 3082-3083 (1985).	Elsevier
7.	Alkaloids from the Leaves of <i>Buxus papilosa</i> , Atta-ur-Rahman, M. I. Choudhary , I. Ali and Habib-ur-Rehman, <i>J. Nat. Prod.</i> , 49 , 106-110 (1986).	ACS Publications
8.	30-Acetoxy- <i>N</i> ^a -Benzoylbuxidienine- a New Alkaloid from the Leaves of <i>Buxus papilosa</i> , Atta-ur-Rahman and M. I. Choudhary , <i>J. Chem. Soc., Perkin Trans.</i> , I , 919-921 (1986).	The Royal Society of Chemistry
9.	Bannucine- a New Dihydroindole Alkaloid from <i>Catharanthus roseus</i> (L) G. Don, Atta-ur-Rahman, I. Ali and M. I. Choudhary , <i>J. Chem. Soc., Perkin Trans.</i> , I , 923-926 (1986).	The Royal Society of Chemistry
10.	Five New Steroidal Alkaloids from <i>Buxus papilosa</i> , Some Relationship between Structures and Specific Rotations, M. I. Choudhary , Atta-ur-Rahman, A. J. Freyer and M. Shamma, <i>Tetrahedron</i> , 42 , 5747-5752 (1986).	Elsevier
11.	New Alkaloids from <i>Buxus papilosa</i> , M. I. Choudhary , Atta-ur-Rahman, A.J. Freyer and M. Shamma, <i>J. Nat. Prod.</i> , 50 , 84-88 (1987).	ACS Publications

12.	<i>N</i> -Benzoyl-16-acetylcyclohexobuxidine: a New Alkaloid from the Leaves of <i>Buxus papillosa</i> , Atta-ur-Rahman, M. I. Choudhary and M. Nisa, <i>Planta Medica</i> , 53 , 75-77 (1987).	Thieme Medical Publishers
13.	<i>N</i> -Formylcyclohexobuxeine- a New Alkaloid from the Leaves of <i>Buxus papillosa</i> , Atta-ur-Rahman, M. Alam, M. I. Choudhary and S. Firdous, <i>Planta Medica</i> , 53 , 496-497 (1987).	Thieme Medical Publishers
14.	Papillamidine- a New Steroidal Alkaloid from the Leaves of <i>Buxus papillosa</i> , Atta-ur-Rahman, M. Alam, G. Ahmed and M. I. Choudhary , <i>Heterocycles</i> , 27 , 89-92 (1988).	Elsevier
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