

Prof. Dr. Jamshed Iqbal
(Tamgha-i-Imtiaz, PAS Gold Medal-2017)
Professor Department of Pharmacy
Head Center for Advanced Drug Research
COMSATS University Islamabad, Abbottabad Campus



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🏠 <http://ww3.comsats.edu.pk/faculty/FacultyDetails.aspx?Uid=28728>

🔗 <https://scholar.google.com/citations?user=i1lSo1MAAAAJ&hl=en>

📄 <https://www.researchgate.net/profile/Jamshed-Iqbal-6>

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PROFILE SUMMARY

Head, Center for Advanced Drug Research: Working as Head, Center for Advanced Drug Research since 2013

Head, Life Sciences Service Center (LiScen): Working as Head, Life Sciences Service Center since 2021

Chairman Pharmacy: Worked as Chairman Department of Pharmacy from April 7, 2021 to June 30, 2021, COMSATS University Islamabad, Pakistan

Professor: Working as Professor, Department of Pharmacy, COMSATS University Islamabad, Abbottabad Campus since 2013

CAS International Young Researcher (2009-2010): Worked as International Young Researcher at Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China

Senior Research Associate (2005-2009) : Worked as Senior Research Associate at Pharmaceutical Institute, University of Bonn, Germany.

Research Associate (2001-2005) : Worked as Research Associate at Pharmaceutical Institute, University of Bonn, Germany

Tamgha-i-Imtiaz (2012): Pakistan's highest civilian decorations awarded by President of Pakistan

Gold Medal 2017: Pakistan Academy of Science

Research Productivity Awards: for 2011, 2012, 2013, 2014, 2015, 2016, 2017 & 2018 by COMSATS Institute of Information Technology

Research Productivity Awards: Research Productivity Award for 2013, 2014, 2015, 2016 & 2017 by Pakistan Council for Science and Technology (PCST), Islamabad including category A in 2015, 2016 and 2017.

Most Cited Paper (2006-2009): Most cited paper award from Elsevier Publishers for "Polyoxometalates - a new class of potent ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. Bioorganic & Medicinal Chemistry Letters (2006) 16 (23), 5943-5947

Scholarship: Pakistan 50th Anniversary Fund Scholarship for M.Sc. at University of Strathclyde, Glasgow, UK.

Post Doctorate: DAAD, STIBET fellowship for Postdoc at University of Bonn, Germany
Scholarship: Merit Scholarship (University Grants Commission of Pakistan) for M.Phil. studies at Quaid-i-Azam University, Islamabad.

Travel Grants:

Four Traveling Grants for Italy, Germany and Denmark

Membership: Member of FRSC, RPSGB, DPhG and PSBMB

Editorial Services: Working as Lead Guest Editor, Guest Editor, Editorial Board Member and Editor in several Journals

International and National Reviewer/Evaluator of Projects: Working as Evaluator/Reviewer for Several funding organizations

Reviewer of International Journals: Served as Reviewer for Elsevier, Royal Society of Chemistry, Wiley, American Chemical Society, Science Direct, Bentham Science

Services for University: Member of Board of Studies, Board of Faculty, Academic Council and Editor Newsletter of COMSATS University Islamabad, Abbottabad Campus

Publications: Authored/Co-authored **301 research paper and a book chapter** with accumulative impact factor of **1027.37**.

Conference/Workshops: Attended more than 50 conferences/workshops

Patents: Two patents granted

Funding: Secured several projects of worth 88.881 Million

Supervision: Supervised four Post Doctorate

Supervised 17 PhDs, 21 MS and Co-Supervised 13 MS Scholars

PERSONAL

Date of Birth: April 15, 1973 (Sialkot, Pakistan)
Languages : English, German, Urdu, Punjabi
CNIC: 276374-100795-1

RESEARCH INTERESTS

Medicinal chemistry, Enzyme kinetics, Natural products chemistry, Drug discovery and metabolism, Molecular modeling, Molecular toxicology, Proteomics

EDUCATION

- 2010 : Post Doctorate , **Dalian Institute of Chemical Physics Chinese Academy of Sciences, Dalian, China**
'Microfluidic-based drug screening at molecular level- Enzymatic reaction in pico liter using microdroplets'
- 2009: Post Doctorate , **Pharmaceutical Institute, Germany**
'Development and automatization of capillary electrophoresis-based enzyme assays at nano-scale level for the characterization and screening of NTPDase inhibitors '
- 2005: Ph.D. , **Pharmaceutical Institute, University of Bonn, Germany**
Thesis: Development of capillary electrophoresis-based nucleoside and nucleotide metabolizing enzyme assays " | Advisor: Prof. Dr. Christa E. Müller
- 2001: M.Sc. **Pharmaceutical Analysis, University of Strathclyde, Glasgow, UK**

Thesis: "Identification of RH1 (aziridinyl benzoquinone) degradation products"

1999: M.Phil, ANALYTICAL/INORGANIC CHEMISTRY **Quaid-I-Azam University**, Islamabad, Pakistan

Thesis: "Determination of lead in road side soil, gasoline by AAS and UV-Vis spectrophotometer and development of micro emulsion method for the determination of lead in gasoline"

1996: M.Sc. CHEMISTRY, **Bahauddin Zakriya University**, Multan, Pakistan

Thesis: "Determination of trace metals in sweets by AAS using micro column flow Injection Analysis"

PROFESSIONAL EXPERIENCE

2013 – Present: **Head, Centre for Advanced Drug Research**
COMSATS University, Islamabad, Abbottabad Campus, Abbottabad, Pakistan

2021 – Present: **Head, Life Sciences Service Center**
COMSATS University, Islamabad, Abbottabad Campus, Abbottabad, Pakistan

2013 – Present: **Professor**
Department of Pharmacy, COMSATS University Islamabad, Abbottabad Campus, Abbottabad, Pakistan

2007 - 2013: **Associate Professor**
Department of Pharmacy, COMSATS University Islamabad, Abbottabad Campus, Abbottabad, Pakistan

2009 - 2010: **CAS International Young Researcher**
Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China

2005 - 2009: **Senior Research Associate**
Pharmaceutical Institute, University of Bonn, Germany

2001 - 2005: **Research Associate**
Pharmaceutical Institute, University of Bonn, Germany

1999 - 2007: **Lecturer**
Department of Pharmacy, Islamia University, Bahawalpur, Pakistan

1997 - 1999: **Research Associate**
Central Laboratory for Environmental Analysis (CLEAN), Pakistan Environmental Protection Agency, Islamabad, Pakistan

HONORS AND AWARDS

1. Prestigious Fellow of Royal Society of Chemistry (FRSC) conferred by the Royal Society of Chemistry (RSC), United Kingdom.
2. Pakistan Academy of Sciences Gold Medal for 2017.
3. Tamgha-i-Imtiaz, 2012, Pakistan's highest civilian decorations awarded by president of Pakistan.
4. Research Productivity Award for 2011, 2012, 2013, 2014, 2015, 2016, 2017 & 2018 by COMSATS Institute of Information Technology.
5. Research Productivity Award for 2013, 2014, 2015, 2016 & 2017 by Pakistan Council for Science and Technology (PCST), Islamabad. In 2015 and 2016, the award was in the highest category "A". However, in 2017, Prof. Iqbal won the same award in category "A" having 10.82 score by getting 21st position out of 2896 candidates in various disciplines throughout the Country. Moreover, Prof. Iqbal got 2nd position in Productive Scientists of Pakistan (PSP) out of 2631 Pakistani Scientist in various disciplines among the country.
6. Most Cited Paper 2006-2009 Award from Elsevier Publishers, Christa E. Müller, Jamshed Iqbal, Younis Baqi, Herbert Zimmermann, Anita Röllich, Holger Stephan. "Polyoxometalates - a new class of potent ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. *Bioorganic & Medicinal Chemistry Letters* (2006) 16 (23), 5943-5947
7. Pakistan 50th Anniversary Fund Scholarship for M.Sc. at University of Strathclyde, Glasgow, UK.
8. DAAD, STIBET Scholarship for Postdoc at University of Bonn, Germany.
9. CAS Research Fellowship for International Young Researchers. Research Fellow (2009-2010): Dalian Institute of Chemical Physics, CAS, 457 Zhongshan Road, 116023, Dalian, Chinese Academy of Sciences.
10. International Young Researchers award given by President of Chinese Academy of Sciences, China.
11. Merit Scholarship (University Grants Commission of Pakistan) for M.Phil. studies at Quaid-i-Azam University, Islamabad.
12. Travel grant from GlaxoSmithKline for participation in 8th International Symposium on Adenosine and Adenine Nucleotides. University of Ferrara, Italy, May 24 - 28, 2006.
13. Travel grant from GlaxoSmithKline for Second Joint Italian-German Purine Club Meeting Leipzig, Germany, September 12-15, 2007.
14. Travel grant from GlaxoSmithKline for Microscale bio-separations and methods for systems biology, Berlin, Germany, March 9-13, 2008 (MSB 2008).
15. Travel grant from GlaxoSmithKline for Purines 2008 Meeting 29th June - 2nd July 2008, Copenhagen, Denmark.

RESEARCH PROJECTS

1. Higher Education Commission of Pakistan funded project "Identification and development of P2X selective antagonists derived from natural and synthetic sources and their in-silico studies" amount awarded 0.176 Million for 2019-21.

2. Higher Education Commission of Pakistan funded project “Chemical synthesis and elucidation of biological effects of fat taste receptor analogues” under Peridot Research Program amount awarded 4.9 Million for 2019-22.
3. CUI funded project “In vitro Evaluation of Anti-cancer Effect of Various Ecto-5' - nucleotidase Inhibitors” (Pak Rs 0.3 Million for 2019).
4. CUI funded project “Synthesis, In vitro Evaluation and Molecular Docking Studies of Selective Inhibitors of Human NTPDase3: Role in Type 2 Diabetes.” (Pak Rs 0.3 Million for 2019).
5. CUI funded project “Development of Assays for Dipeptidyl-peptidase 4 Inhibitors as new Antidiabetic Drugs” (Pak Rs 0.3 Million for 2018).
6. CUI funded project “Enzyme Inhibition Studies of α -Amino acids and their Derivatives” (Pak Rs 0.3 Million for 2018).
7. Higher Education Commission of Pakistan funded project “Provision of Grants to Public Sector Universities and Degree Awarding Institutions for Maintenance of Scientific Equipment, HEC” for ‘BMG FLUO Star Omega’. amount awarded 1.0 Million for year 2017.
8. Higher Education Commission of Pakistan funded project “Development of potent and selective modulators of alkaline phosphatases from natural products as well as synthetic derivatives as lead structures” amount awarded 10.7 Million for 2015-17.
9. The Organization for the Prohibition of Chemical Weapons (OPCW) of Netherlands funded project “Synthesis and Development of NPPs inhibitors” amount awarded 1.2 M for the year 2015-17.
10. “DAAD German-Pakistani Research Collaborations project amount received 20 Million for 2014-15.
11. Higher Education Commission of Pakistan funded project “Provision of Grants to Public Sector Universities and Degree Awarding Institutions for Maintenance of Scientific Equipment, HEC” for ‘P/ACE MDQ Capillary Electrophoresis’. amount awarded 0.74 Million for year 2014.
12. “DAAD German-Pakistani Research Collaborations project” amount received 20 Million for 2013-14.
13. CIIT, Islamabad, “Development of new Antidiabetic Drugs amount received 0.2 Million for 2012.
14. CIIT, Islamabad, “Development of drugs for Alzheimer’s Disease Therapy” amount received 0.2 Million for 2011.
15. Higher Education Commission of Pakistan funded project “Cloning and Expression of human enzymes in Escherichia Coli, and development of high-throughput capillary electrophoresis and Microchip based nano scale test system for analysis of inhibitors,, amount awarded 7.065 Million, for 2009-10.
16. COMSTECH-TWAS “Design, synthesis and biochemical evaluation of Ecto-5'-Nucleotidase inhibitors as potential anti-tumour agents” amount received 1.5 Million, for 2010.
17. DAAD German-Pakistani Research Collaborations project with Prof. Dr. Peter Langer, University of Rostock, Germany „Development of Potent and Selective Inhibitors of E-NTPDases“ amount received 20 Million for 2020-2021.

18. Pak-France PERIDOT Research Program with Prof. Naim Khan, Université de Bourgogne, Dijon, France. "CHEMICAL SYNTHESIS AND ELUCIDATION OF BIOLOGICAL EFFECTS OF FAT TASTE RECEPTOR ANALOGUES"

PATENTS

1. Christa E. Müller, Andreas Brunschweiger, Jamshed Iqbal. Ectonucleotidase inhibitors. PCT Int. Appl. 2007, WO 2007135195 A1.
2. Jürgen Schrader, Christa E. Müller, Ali El-Tayeb, Jamshed Iqbal. Preparation of phosphorylated nucleosides a2a receptor agonists. PCT Int. Appl. 2007, WO 2007107598 A1.

INVITED TALKS/CONFERENCE/WORKSHOPS

1. Prof. Dr. Jamshed Iqbal, Keynote Speaker in International Conference on Chemical Sciences, organized by Department of Chemistry Quaid i Azam University, Islamabad, during April 24-26, 2019.
2. Prof. Dr. Jamshed Iqbal, Keynote Speaker in 3rd International Conference on Recent Innovations in Pharmaceutical Sciences (ICRIPS-2019), March 13-14, 2019, Riphah International University, Islamabad, Pakistan.
3. Prof. Dr. Jamshed Iqbal, Keynote Speaker in 1st International Conference on "Advancements in Biotechnology & Biocomputing" organized by Department of Biological Sciences, International Islamic University, Islamabad during 7-9 February, 2019.
4. Prof. Dr. Jamshed Iqbal, Keynote Speaker in 1st Annual Conference on "The Current Usage of Nanotherapeutics & Biodrugs" organized by Department of Biological Sciences, International Islamic University, Islamabad during 12-13 December, 2018.
5. Prof. Dr. Jamshed Iqbal, Invited lecture in International Conference entitled "Purines 2018 International - Basic and translational science on purinergic signaling and its components for a healthy and better world" during 19-22 June, 2018 in Brazil.
6. Prof. Dr. Jamshed Iqbal, Plenary talk in two-day National conference on "Recent Advancements in Pharmaceutical Sciences: Innovative Drug Research for Better Cure" during 7-8 March, 2018, organized by College of Pharmacy, University of Sargodha, Pakistan.
7. Prof. Dr. Jamshed Iqbal, Invited speaker at "3rd International Health Trigon Summit, Inter-Professional Cooperation in Pharmacotherapy" 2018 held during 17-18th April, 2018 organized by The University of Lahore, Pakistan.
8. Prof. Dr. Jamshed Iqbal, Plenary speaker in International Conference on Chemical and Pharmaceutical Sciences: Recent Approaches in Research & Applications, to held on 17-19 January, 2018 at Forman Christian College (A Chartered University) Lahore, Pakistan.
9. Prof. Dr. Jamshed Iqbal, Plenary speaker in 1st International Conference on Advances in Drug Discovery and Development" to held on 3-5 January, 2018 at NARC, Islamabad, Pakistan.
10. Prof. Dr. Jamshed Iqbal, Plenary speaker in 2nd International Conference on Recent Innovations in Pharmaceutical Sciences (ICRIPS-2017), November 15-16, 2017, Riphah International University, Islamabad, Pakistan.
11. Prof. Dr. Jamshed Iqbal, Plenary speaker in three-day international conference on

- “Current Research in Chemical & Pharmaceutical Sciences” January 18-20, 2017, Forman Christian College (A Chartered University) Lahore, Pakistan.
12. Prof. Dr. Jamshed Iqbal, Plenary speaker in 1st Biennial Conference on “New Horizons in Drug Discovery and Pharmaceutical Sciences” December 15, 2016, Abbottabad University of Science and Technology, Abbottabad.
 13. Prof. Dr. Jamshed Iqbal, Invited Speaker in International Symposium on “Modern Strategies in Drug Discovery & Vaccine Design” December 2-3, 2016 at Lahore University of Management Sciences, Lahore.
 14. Prof. Dr. Jamshed Iqbal, 1st International Conference on “Recent Innovations in Pharmaceutical Sciences”, March 3- 5, 2015, Riphah International University, Islamabad, Pakistan.
 15. Prof. Dr. Jamshed Iqbal, International Conference on “Exploring New Avenues In Medicinal Chemistry: Opportunities And Challenges” January 21-23, 2015, Forman Christian College (A Chartered University) Lahore, Pakistan.
 16. Prof. Dr. Jamshed Iqbal, Seminar on “Enzyme Inhibitors as Drug Targeting Challenges and Opportunities” November 28, 2014, Riphah International University, Islamabad, Pakistan.
 17. Dr. Jamshed Iqbal, 14th Asian Symposium On Medicinal Plants, Spices and other Natural Products (ASOMPS), December 9-12, 2013, H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan.
 18. Dr. Jamshed Iqbal, 11th Shokat Khanam Cancer Symposium, November 9-11, 2012, Lahore, Pakistan.
 19. Dr. Jamshed Iqbal, International Scientific Spring (ISS) -2012 at National Centre for Physics, Islamabad from March 5-9, 2012 and Workshop on Nano Technology on March 10, 2012.
 20. Jamshed Iqbal, Rabia Raza, Abdul Matin, Sundas Sarwar, Maria Barsukova-Stuckart, Masooma Ibrahim, Ulrich Kortz. Polyoxometalates as potent and selective inhibitors of alkaline phosphatases with profound anticancer and amoebicidal activities. 11th Shokat Khanam Cancer Symposium, November 9-11, 2012, Lahore, Pakistan.
 21. Rabia Raza, Jamshed Iqbal, Abdul Matin, Sundas Sarwar, Maria Barsukova-Stuckart, Masooma Ibrahim, Ulrich Kortz, Polyoxotungstates as inhibitors of cancer regulating enzymes. 11th Shokat Khanam Cancer Symposium, November 9-11, 2012, Lahore, Pakistan.
 22. Dr. Jamshed Iqbal, 9th International and 21st national Chemistry Conference, March 14-16, 2011, University of Karachi, Karachi, Pakistan.
 23. Dr. Jamshed Iqbal, 9th International and 21th National Chemistry Conference, March 14-16, 2011, Jointly organized by H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences and Department of Chemistry, University of Karachi, Karachi, Pakistan.
 24. Rabia Raza and Jamshed Iqbal, Development of enzyme immobilized micro-assay in capillary electrophoresis for characterization and inhibition studies of alkaline phosphatase. 9th International and 21st national Chemistry Conference, March 14-16th, 2011. University of Karachi, Karachi, Pakistan.

25. Miriam Schlenk, Minka Paskaleva, Jamshed Iqbal, Jürgen Gäb, Michael Gütschow, Christa E. Müller. Benzothiazinones – a new class of potent A1-adenosine receptor antagonists. DPhG-Jahrestagung in Braunschweig, 2010 Germany.
26. Jamshed Iqbal and Christa E. Müller. High-sensitivity capillary electrophoresis for monitoring of ecto- purine nucleoside phosphorylase and ecto-adenosine deaminase reactions by large-volume sample stacking. Asia-Pacific International Symposium on Lab on chip. Shanghai, 2009, China.
27. Sabrina Gollos, Fabian Heisig, Sven Jan Freudenthal, Andrea Behrenswerth, Jamshed Iqbal, Ralf Brune, Markus Sauer, Christa E. Müller. New Fluorescent-Labeled adenosine receptor ligands. Purinergic Receptors: New Frontiers for Novel Therapies, Third Joint Italian-German Purine Club Meeting, July 17-20, 2009 Camerino, Italy.
28. Younis Baqi, Stefanie Weyler, Hillmann, Petra, Umbach, Frank, Jamshed Iqbal, Kaulich, Marko, Christa E Müller. Anthraquinones: combinatorial synthesis and structure-activity relationships as non-nucleotide-derived P2Y2 receptor antagonists. Purines 2008 Meeting June 29 – July 2, 2008, Copenhagen, Denmark.
29. Jamshed Iqbal, Younis Baqi, Stefanie Weyler, Herbert Zimmermann, Christa E. Müller. Anthraquinones: structure-activity relationships as inhibitors of ecto-nucleoside triphosphate diphospho-hydrolases (E-NTPDases). Purines 2008 Meeting June 29 – July 2, 2008, Copenhagen, Denmark.
30. Jamshed Iqbal, Aileen F. Knowles, Christa E. Müller. Ecto-nucleoside triphosphate diphosphohydrolase (NTPDase2) immobilized on a polyacrylamide-coated capillary: on-line monitoring of the enzymatic reaction and screening of inhibitors by capillary. Microscale bioseparations and methods for systems biolog, Berlin, Germany, March 9-13, 2008.
31. Christa E. Müller, Andreas Brunschweiger, Younis Baqi, Sang-Yong Lee, Jamshed Iqbal, Herbert Zimmermann. Development of Ecto-5'-nucleotidase inhibitors as potential new anti-cancer drugs. XXth International Symposium on Medicinal Chemistry EFMC-ISMIC 2008 Vienna, Austria, August 31-September 4, 2008.
32. Andreas Brunschweiger, Jamshed Iqbal, Mercedes N. Munkonda, Sang-Yong Lee, Herbert Zimmermann, Christa E. Müller. Synthesis and characterization of nucleotide mimetics as inhibitors of ecto-5'-nucleotidase and NTPDase1. Deutschen Pharmazeutischen Gesellschaft, Bonn, Germany, October 8-11, 2008.
33. Jamshed Iqbal, Younis Baqi, Stefanie Weyler, Herbert Zimmermann, Christa E. Müller. Anthraquinones: structure-activity relationships as inhibitors of ecto-nucleoside triphosphate diphospho hydrolases (E-NTPDases). Deutschen Pharmazeutischen Gesellschaft, Bonn, Germany, October 8-11, 2008.
34. Younis Baqi, Stefanie Weyler, Hillmann Petra, Frank Umbach, Jamshed Iqbal, Kaulich Marko, Christa E. Müller. Anthraquinones: combinatorial synthesis and structure-activity relationships as non-nucleotide-derived P2Y2 receptor antagonists. Deutschen Pharmazeutischen Gesellschaft, Bonn, Germany, October 8-11, 2008.
35. Anne Lehr, Younis Baqi, Herbert Zimmermann, Jamshed Iqbal, Christa E. Müller. Testing of novel Ar (Alk)ylaminoanthraquinone derivatives as inhibitors of Ecto-5'-nucleotidase. Deutschen Pharmazeutischen Gesellschaft, Bonn, Germany, October 8-11, 2008.
36. Sabrina Gollos, Fabian Heisig, Sven J. Freudenthal, Jamshed Iqbal, Ralf Brune, Markus Sauer, Christa E Müller. A Simple route to new, functionalized Bodipy Derivatives.

Deutschen Pharmazeutischen Gesellschaft, Bonn, Germany, October 8-11, 2008.

37. Andreas Brunschweiger, Jamshed Iqbal, Mercedes N. Munkonda, Jean Sévigny, Aileen F. Knowles.; Christa E. Müller. Synthesis and structure-activity relationships of 5'-substituted uridine and adenosine derivatives as Ecto-5'-nucleotidase inhibitors. Second Joint Italian-German Purine Club Meeting, Leipzig, Germany, September 12-15, 2007.
38. Miriam Fast, Jamshed Iqbal, Herbert Zimmermann, Jean Sévigny, Christa E. Müller. Capillary electrophoresis-based nano-scale assays for monitoring ecto-5'-nucleotidase activity and inhibition in preparations of recombinant enzyme and melanoma cell membranes. Second Joint Italian-German Purine Club Meeting Leipzig, Germany, September 12-15, 2007.
39. Jamshed Iqbal, Jean Sévigny, Christa E. Müller. A novel, highly sensitive capillary electrophoresis method for monitoring ecto-nucleotide pyrophosphatases. Second Joint Italian-German Purine Club Meeting Leipzig, Germany, September 12-15, 2007.
40. Christa E. Müller, Jamshed Iqbal, Younas Baqi. Kapillarelektrophorese-Nano-Assays in der Wirkstofftestung. GIT LABOR-FACHZEITSCHRIFT 2006, 10, 897-900.
41. Jamshed Iqbal, 8th International Symposium on Adenosine and Adenine Nucleotides, May 24-28, 2006, University of Ferrara, Italy,
42. Christa E. Müller, Jamshed Iqbal, Younas Baqi. Capillary electrophoresis nano-assays Novel in vitro screening methods in the search for future drugs. Screening - Trends in Drug Discovery 2006, 4, 26-28.
43. Jamshed Iqbal, Herbert Zimmermann, Christa E. Müller. Development of a novel, automated method for the characterization and screening of NTPDase inhibitors by in-capillary enzymatic microreaction. Purinergic Signalling 2006, 2, 170-171.
44. Andreas Brunschweiger, Jamshed Iqbal, Mercedes N. Munkonda, Jean Sévigny, Aileen F. Knowles. Christa E. Müller. Development and structure-activity relationship of ectonucleotidase inhibitors. Purinergic Signalling 2006, 2, 170.
45. Younis Baqi, Jamshed Iqbal, Herbert Zimmermann, Anita Röllich, Holger Stephan, Christa E. Müller. Polyoxometalates – discovery of a new class of ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. 3rd Summer School Medicinal Chemistry at the University of Regensburg. "Medicinal Chemistry: Molecular Recognition – Ligand Receptor Interactions". University of Regensburg, Regensburg, Germany, September 25-27, 2006.
46. Younis Baqi, Jamshed Iqbal, Christa E. Müller. Polyoxometalates - a new class of ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. Graduiertenkolleg 804 Analyse von Zellfunktionen durch kombinatorische Chemie und Biochemie. Bonn-Aachen International Center For Information Technology B-IT. University of Bonn, Bonn, Germany, October 20, 2006.
47. Emmerling, E.; Kraus. W. Iqbal, J.; Müller, C.E.; Röllich, A.; Stephan, H.; Polyoxo- tungstates as potent inhibitors for ecto-nucleotidases. 37th International Conference of Coordination Chemistry. Cape Town, South Africa, 13-18th August 2006.
48. Jamshed Iqbal, Christa E. Müller. Development of a novel, capillary electrophoresis based method for the screening of potential adenosine kinase inhibitors. 14th Camerino-Noordwijkerhout Symposium "Ongoing Progress in the Receptor Chemistry" University of Camerino, Camerino, Italy, September 7-11, 2003.

49. Jamshed Iqbal, "Medicinal Chemistry and Pharmacology of Purinergic Receptors" September 11-13, 2003, University of Camerino, Camerino, Italy.
50. Jamshed Iqbal, 14th Camerino-Noordwijkerhout Symposium "Ongoing Progress in the Receptor Chemistry" September 7-11, 2003, University of Camerino, Camerino, Italy.
51. Jamshed Iqbal, Muhammad Ikram. Determination of lead in road side soil, gasoline by AAS and UV-Vis spectrophotometer and development of micro emulsion method for the determination of lead in gasoline. Quaid-i-Azam University, Islamabad, Pakistan on October 28-30, 1999.
52. Jamshed Iqbal, 4th DAAD follow-up Seminar (Chemistry) April 29-May 01, 1999, Quaid-i-Azam University Islamabad, Pakistan.

CONFERENCES/WORKSHOPS ORGANIZED AS A CHIEF ORGANIZER

1. 6th International Conference on Drug Development – Natural & Synthetic "Current Approaches and Emerging Trends for the Development and Discovery of Drugs" (29-30 November, 2019) organized by Centre for Advanced Drug Research, COMSATS University Islamabad, Abbottabad Campus.
2. The one-day Hands on workshop on "Bioinformatics: Converting knowledge to data" organized by The Centre for Advanced Drug Research (CADR) COMSATS University, Abbottabad Campus on 7th October, 2019.
3. The one-day Hands on workshop on "Pharmacophore Modelling and Virtual Screening" organized by The Centre for Advanced Drug Research (CADR) COMSATS University, Abbottabad Campus on 14th January, 2019.
4. The one-day Hands on workshop on "Pharmacophore Modelling and Virtual Screening" organized by The Centre for Advanced Drug Research (CADR) COMSATS University, Abbottabad Campus on 14th January, 2019.
5. The one-day Hands on workshop on "Computational Methods for Drug Design and Discovery" was organized by the Centre for Advanced Drug Research (CADR) COMSATS University, Abbottabad Campus on 20th November, 2018.
6. 5th International Conference on Drug Development – Natural & Synthetic "Current Approaches and Emerging Trends for the Development and Discovery of Drugs" (28-29 June, 2018) organized by Centre for Advanced Drug Research, COMSATS University Islamabad, Abbottabad Campus.
7. 13th Biennial Conference on "Recent Advances & Challenges in Molecular Biology, Biochemistry and Biotechnology" (25-27 August, 2016) organized by Centre for Advanced Drug Research, COMSATS, Abbottabad.
8. 2nd International Symposium on "Drug Development- Natural & Synthetic" (23-25 August, 2015) organized by Centre for Advanced Drug Research, COMSATS, Abbottabad.
9. DAAD-HEC International Summer School "Challenges in Molecular Medicine and Drug Research" (1-3 September, 2014) organized by Centre for Advanced Drug Research, COMSATS, Abbottabad.
10. Three days Workshop on "DNA Sequencing" (10-12 February, 2014) organized by Centre for Advanced Drug Research, COMSATS, Abbottabad.

11. 1st International Symposium on “Drug Development- Natural & Synthetic” (25-27 August, 2013) organized by Centre for Advanced Drug Research, COMSATS, Abbottabad.

MEMBERSHIP OF SCIENTIFIC ASSOCIATIONS

1. Member of Royal Pharmaceutical Society of Great Britain (RPSGB)
2. Member of German Pharmaceutical Society (DPhG)
3. Member of Pakistan Society for Biochemistry and Molecular Biology (PSBMB)
4. Fellow of The Royal Society of Chemistry (FRSC)

PROFESSIONAL SERVICES

Editorial Services

1. **Lead Guest Editor:** BioMed Research International (Impact Factor 3.411) Thematic Issue “Recent Developments of Carbonic Anhydrase Inhibitors as Potential Drugs”.
<http://www.hindawi.com/journals/bmri/si/812197/cfp/>
2. **Guest Editor:** Mini-Reviews in Medicinal Chemistry (Impact Factor 3.862) Thematic Issue “Ectonucleotidases as Novel Drug Targets: Recent Advances in Therapeutic Applications”.
3. **Editorial Board Member:** Mini-Reviews in Medicinal Chemistry (Impact Factor 3.862)
<https://benthamscience.com/journals/mini-reviews-in-medicinal-chemistry/editorial-board/#top>
4. **Editorial Board Member:** Current Medicinal Chemistry (Impact Factor 4.530)
https://benthamscience.com/journals/current-medicinal-chemistry/editorial-board/#ebm-pic_8
5. **Editor** of COMSATS Newsletter

Services as Reviewer for International Journals

- Elsevier
- Royal Society of Chemistry
- Wiley
- American Chemical Society
- Science Direct
- Bentham Science

Manuscript Reviewed for

- Bioorg. Med. Chem. Lett.
- Bioophysical Journal
- Pharmaceutical Research
- Eur. J. Med. Chem.
- MedChemComm
- Bioorg. Chem.
- Bioorg. Med. Chem.
- Chemical Reviews
- J. Med. Chem.
- Electrophoresis
- Med. Chem.
- Anal. Biochem.

- J. Sep. Sci.
- Biomed Chrom.
- RSC Adv.
- Nutrition Review
- Egyptian Journal of Medical Human Genetics
- Applied Organometallic Chemistry
- Biomedical Chromatography
- Topics in Medicinal Chemistry

NATIONAL/INTERNATIONAL PROJECT EVALUATIONS

- Reviewer for the Higher Education Commission NRPU, USAID, TDF programs
- Reviewer for the Pakistan Science Foundation projects
- Reviewer for HEC Outstanding Research Awards (Book/Papers)
- DAAD Germany, Scholarship evaluation committee member from Pakistan

SERVICES FOR UNIVERSITY

- **Member**, Board of Studies (BOS), COMSATS University Islamabad, Abbottabad Campus
- **Member**, Board of Faculty (BOF), COMSATS University Islamabad, Abbottabad Campus
- **Member**, Member of Board of Advance Studies and Research (BASAR) of COMSATS University Islamabad, Abbottabad Campus

NATIONAL/INTERNATIONAL RESEARCH COLLABORATION

- Centre de Recherche en Rhumatologie et Immunologie, Centre Hospitalier Universitaire de Québec (pavillon CHUL), Québec, QC, Canada; and Département de Microbiologie- infectiologie et d'Immunologie, Faculté de Médecine, Université Laval, Québec, QC, Canada
- School of Pharmacy, Building B 2.1., Room 1.13, Saarland State University, D-66041 Saarbruecken, Germany
- Institut für Chemie, Abteilung Organische Chemie, Universität Rostock Albert-Einstein-Str. 3a, 18059 Rostock
- Department of Life Science Informatics, B-IT, LIMES Program Unit Chemical Biology and Medicinal Chemistry, Rheinische Friedrich-Wilhelms-Universität, Dahlmannstr. 2, D-53113 Bonn, Germany
- Zhang Initiative Research Unit, Advanced Science Institute, RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan.
- Department of Pharmacy, University of Strathclyde, UK
- Dalian Institute of Chemical Pyhsics, CAS, Chinese Academy of Sciences, China.
- University of Bonn, Germany.
- Fraunhofer Institute for Algorithms and Scientific Computing (SCAI) Sankt Augustin, Germany.
- Harvard-Massachusetts Institute of Technology Division of Health Sciences and Technology Cambridge, MA, USA.
- Quaid-I-Azam University, Islamabad, Pakistan.

- HEJ, University of Karachi, Pakistan
- FC University, Lahore, Pakistan
- Government College University, Faisalabad, Pakistan

POST DOCTORATE SUPERVISIONS

- Dr. Sumera Zaib
- Dr. Nabere Ouattara
- Dr. Adewole Ezekiel
- Dr. Guy Sedar Njateng

PH.D. SUPERVISION

S.No.	Name	Enrolled	Thesis Title	Status
1.	Dr. Shahzad Ahmad	2009	Synthesis of Novel Derivatives of Fluorinated Pyridines by Palladium Catalyzed Suzuki-Miyaura and Sonogashira Coupling Reactions	Completed
2.	Dr. Khurram Shoaib	2009	Green Synthesis of Fluorinated Arenes, Benoxazinones and Benzamides	Completed
3.	Dr. Rabia Raza	2009	Development and Validation of Analytical Methods for Screening and Characterization of Enzyme Inhibitors	Completed
4.	Dr. Sumera Zaib	2011	Biological Evaluation of Novel Ionic Liquids and Coordination Complexes	Completed
5.	Dr. Hamid Saeed Shah	2012	Synthesis, Characterization and In vitro Evaluation of Anticancer Potential of Chitosan-coated Polyoxometalates Nanoparticles	Completed
6.	Dr. Azizullah	2013	Development and Evaluation of Self-assembled Stabilized Supramolecular Hydrogels of Polyoxometalates	Completed
7.	Dr. Syeda Abida Ijaz	2013	Identification and Characterization of Pharmacological Inhibitors of Alkaline Phosphatase Isozymes & Nucleotide Pyrophosphatase Isozymes	Completed
8.	Dr. Mobashir Ali Abid	2013	Synthesis, Biological Investigation and Molecular Docking Studies of Oxygen Heterocyclic Derivatives as Monoamine Oxidase Inhibitors	Completed

9.	Dr. Shakeel Shah	2013	Assay Optimization and Identification of New Inhibitors of Acetylcholinesterase (AChE), Butyrylcholinesterase (BChE), and Related Enzymes.	Completed
10.	Ms. Sidra Hassan	2014	In vitro Evaluation of Anti-cancer Effect of Various Ecto-5'-nucleotidase Inhibitors	Thesis Submitted
11.	Faisal Rashid	2014	Synthesis of Acridine and Acridone Based Thiophene-Sulfonamide Hybrids as Anti-Proliferative Agents	Thesis Submitted
12.	Ms Saira Afzal	2015	Synthesis, In vitro evaluation and Molecular Docking Studies of Selective Inhibitors of Human NTPDase 3: Role in Type 2 Diabetes	Thesis Submitted
13.	Mr. Aqeel Imran	2016	Synthesis and Characterization of Selective Inhibitors of Aldose Reductase	Synopsis Approved
14.	Mr. Saif Ullah	2017	Design and Synthesis of Sulphonate derivatives as Potent Inhibitors of ENPP1	Synopsis Submitted
15.	Mr. Qasim Shah	2016	Evaluation of Modulatory Effect of P2X7 Receptor Antagonists in Cancer Cell Survival and Proliferation	Synopsis Approved
16.	Mr. Abid Mahmood	2017	Design, Synthesis and Biological Evaluation of Selective Antagonists for P2X Receptors	Synopsis Submitted
17.	Ms Sehrish Bano	2016	Synthesis and Evaluation of Selective Antagonist of P2Y Receptors	Synopsis Submitted

MS SUPERVISION

S.No.	Name	Year	Thesis Title	Status
1.	Mr. M. Adil Salman Aslam	2009	Characterization and Structure-Activity Relationships of Novel Schiff Base Compounds as Potent Inhibitors of Urease Enzyme	Completed
2.	Mr. Mohamad Siraj Khan	2011	Identification of Novel Serine Protease Inhibitors and Their Implication as a Therapeutic Tool for Various Diseases	Completed
3.	Ms. Javeria Iftikhar	2012	Assay Development and Characterization of Coumarinyl Oxadiazole and Coumarinyl Thiourea as Cholinesterase Inhibitors	Completed

4.	Mr. Jawad Ali Shah	2013	Identification of Novel Derivatives as Potent Inhibitors of Cholinesterases, Their Enzyme Kinetics and Molecular Docking Studies	Completed
5.	Ms. Yildiz Tehseen	2013	Identification and Molecular Modelling Studies of Novel Coumarinyl Thiazoles and Oxadiazole Derivatives as Selective and Potent Inhibitors of Aldehyde Reductase	Completed
6.	Ms. Syeda Mahwish Bakht	2013	Optimization of Continuous Spectrophotometric Assay for Monoamine Oxidase-B, Selective Inhibition and Molecular Modeling Studies	Completed
7.	Ms. Naureen Akbar	2014	In Vitro Evaluation of Cytotoxic Potential and Biological Screening of Novel Metal Complexes	Completed
8.	Ms. Zaib un Nisa	2014	In Vitro and In Silico Screening of Organic compounds against Alkaline Phosphatase and Identification of their Cytotoxic Potential	Completed
9.	Mr. Shafiullah Khan	2014	In Vitro and In Silico Evaluation of Sulphonamide Derivatives as Dual Inhibitors of Carbonic Anhydrase II and 15-Lipoxygenase	Completed
10.	Ms. Sundus Sarwar	2014	Nucleotide Pyrophosphatase Inhibition Studies of Different Fractions of Erythrocyca anomala Seed Extract	Completed
11.	Ms. Nehal Afreen Khan	2014	Glucosidase Inhibition Studies of Different Fractions from Parkia biglibosa Seed Extract	Completed
12.	Mr. Faisal Mukhtar Khan	2015	Exploring the Inhibitory Potential of Thiourea Derivatives as Carbonic Anhydrase II Inhibitors and Determining their Mechanism of Action	Completed
13.	Ms. Hina Irum	2015	Determination of Anticancer Mechanism of Action of Estrone Derivatives	Completed
14.	Mr. Saquib Jalil	2016	Identification and Bio-Evaluation of Nitrogen Containing Heterocyclic Compounds for Monoamine Oxidase and β -amyloid Inhibition Studies	Completed

15.	Ms. Zainab Shafique	2016	Expression and Purification of Carbonic Anhydrase IX and Identification of its Potential Inhibitors	Completed
16.	Ms. Sayyeda Tayyeba Amjad	2016	Carbonic Anhydrase II expression and purification followed by in vitro inhibitor screening	Completed
17.	Mr. Shahid Ullah Khan	2017	Investigation of Anticancer Potential of Different Fractions of Chrozophora tinctoria	Completed
18.	Mr. Mohamad Uzair	2017	Evaluation of Anticancer Effects of Active Fractions of Heliotropium calcareum on Cancer Cell Lines	Completed
19.	Ms. Ayesha Basharat	2017	Synthesis, Identification and Expression Analysis of CD73 Inhibitors in Cervical Cancer	Completed
20.	Mr. Dilawar Hussain	2018	Structure-based Virtual Screening of Beta Secretase Inhibitors and Their In vitro Analysis	Completed
21.	Aniqa Bashir	2021	Synthesis, Characterization and Evaluation of Benzene Sulfonamides as Selective Inhibitors of Carbonic Anhydrase II	Completed

MS CO SUPERVISION

S.No.	Name	Year	Thesis Title	Status
1.	Syed Sher Ali Bukhari	2011	Biological Assays: Implication for the Prevention of Diabetic Complications	Completed
2.	Mr. M. Azhar Hayat Nawaz	2011	Phytochemical Investigation and Biological Activities of Chemical Constituents of Oleaferruginea	Completed
3.	Mr. Shoaib Iqbal	2011	Characterization of Potential Anti-Diabetic and Anti-Alzheimer's Compounds using Capillary Electrophoresis based Enzyme Assays	Completed
4.	Ms. Mehwish Humayun	2011	Discovery of new benzene sulphonamide derivatives as potent inhibitors of bovine cytosolic carbonic anhydrase	Completed
5.	Mr. Aqeel Imran	2012	Investigation of New Schiff Base Derivatives as Potential Urease Inhibitors	Completed

6.	Mr. Sarfraz Ahmad	2012	Monitoring of Antidepressant Drugs in Human Plasma by Using Capillary Electrophoresis Technique	Completed
7.	Ms. Saba Abbas	2012	In Vivo Method for Monitoring of Antiepileptic Drugs in Human Plasma Using Capillary Zone Electrophoresis	Completed
8.	Ms Zaitoon Ilyas	2013	Patient knowledge about hypertension and quality of life and acceptance of illness: a comparison between hypertensive patients with and without comorbidities	Completed
9.	Mr. Lateef Ullah	2016	Screening of Breast Cancer patients for some BRCA2 Gene Mutation	Completed
10.	Mr. Shafiq Ur Rahman	2016	Structure-based Virtual Screening of Dipeptidyl Peptidase IV Inhibitors and Their In vitro Analysis	Completed
11.	Ms. Kiran Hamid	2021	Synthesis, Biological Evaluation and Molecular Docking Studies of Adamantane Benzene Sulphonates Derivatives as Nucleotide Pyrophosphatases/Phosphodiesterases (NPP) Inhibitors	Synopsis submitted
12.	Ms. Amina Baatool	2021	Synthesis, Biological Evaluation and Molecular Docking Studies of Novel Benzene Sulphonates Derivatives as Nucleotide Pyrophosphatases/Phosphodiesterases (NPP) Inhibitors	Synopsis submitted
13.	Natasha Anwar	2021	Synthesis and biological evaluation of novel heteroaryl sulphonamides.	Synopsis Submitted

BOOK CHAPTER

1. Sumera Zaib, Jamshed Iqbal. Nanotechnology: Applications, techniques, approaches, & the advancement in toxicology and environmental impact of engineered nanomaterials.

<https://meddocsonline.org/ebook-nanotechnology.html>

PUBLICATIONS

Total Publications=301 Accumulative Impact Factor=1027

Year 2021

1. Farah Jabeen, Zia Ur Rehman, Sajid Shah, Rima D Alharthy, and **Jamshed Iqbal**. Machine Learning-Based Prediction of Inhibitors Interaction with Butyrylcholinesterase for the Treatment of Alzheimer's Disease. *Molecules*. (Submitted)

2. **Jamshed Iqbal**, Claus Jacob and Jean Sévigny. Metalloenzymes: Potential Drug Targets. *Frontiers in pharmacology* 11(2021): 585876. (IF = 5.810)
3. Aamer Saeed; Memoona Javed; Pervaiz Ali Channar; Ghulam Shabir; Arfa tehzeebb ; **Jamshed Iqbal**. Azomethine Clubbed thiazoles as specific alkaline phosphatase (h-TNAP) and human intestinal alkaline phosphatase (h-IAP) Inhibitors: Kinetics and Molecular Docking studies. *Medicinal Chemistry Research*. (Submitted)
4. Aamer Saeed, Shafi Ullah Khan, Maria Saeed, Ghulam Shabir, Abbas Hasan, Rasheed Ahmad Khera, Hesham El-Seedi, Sobia Ahsan Halim, Ahmed Al-Harrasi, **Jamshed Iqbal**. Synthesis of Novel Hybrid Pharmacophore of N-((4-Sulfamoylphenyl) carbamothioyl) alkanamides as Potent Carbonic Anhydrase-II and 15-Lipoxygenase Inhibitors. *International Journal of Biological Macromolecules*. (Submitted)
5. Fatima Muccee, Samina Ejaz, Naheed Riaz, **Jamshed Iqbal**. Molecular and functional analysis of naphthalene-degrading bacteria isolated from the effluents of indigenous tanneries. *Journal of Basic Microbiology* (2021): 627-641. (IF = 2.281)
6. Noor Uddin, Faisal Rashid, Ali Haider, Syed Ahmed Tirmizi, Ahmad Raheel, Muhammad Imran, Sumera Zaib, Paula L. Diaconescu, **Jamshed Iqbal**, Saqib Ali. Triorganotin (IV) carboxylates as potential anticancer agents: Their synthesis, physiochemical characterization, and cytotoxic activity against HeLa and MCF 7 cancer cells. *Applied Organometallic Chemistry* 35 (4) (2021): e6165. (IF = 4.105)
7. Faisal Rashid, Noor Uddin, Saqib Ali, Ali Haider, Syed Ahmad Tirmizi, Paula L. Diaconescu, and **Jamshed Iqbal**. New triorganotin (iv) compounds with aromatic carboxylate ligands: synthesis and evaluation of the pro-apoptotic mechanism. *RSC Advances* 11(8), (2021): 4499-4514. (IF = 3.361)
8. Aamer Saeed, Syeda Abida Ejaz, Anwar Ul-Hamid, Hesham R. El-Seedi, and **Jamshed Iqbal**. Synthesis of and Molecular Docking Studies of Azomethine-Tethered Sulfonamides as Carbonic Anhydrase II & 15-Lipoxygenase Inhibitors. *Journal of Molecular Structure* (2021): 130821. (IF = 3.196)
9. Saghir Abbas, Faisal Rashid, Emine Ulker, Sumera Zaib, Khurshid Ayub, Sana Ullah, Muhammad Arif Nadeem, Sammer Yousuf, Ralf Ludwig, Saqib Ali, **Jamshed Iqbal**. Anticancer evaluation of a manganese complex on HeLa and MCF-7 cancer cells: design, deterministic solvothermal synthesis approach, Hirshfeld analysis, DNA binding, intracellular reactive oxygen species production, electrochemical characterization and density functional theory. *Journal of Biomolecular Structure and Dynamics* 39, no. 3 (2021): 1068-1081.
10. Muhammad Tariq Shehzad, Ajmal Khan, Sobia Ahsan Halim, Abdul Hameed, Aqeel Imran, **Jamshed Iqbal**, Aziz Ullah, Asnuzilawati Asari, Samra Khan, Zahid Shafiq & Ahmed Al-Harrasi .Synthesis of indole substituted thiosemicarbazones as an aldose reductase inhibitor: an in vitro, selectivity and in silico study. *Future Medicinal Chemistry*, 13 (14), (2021): 1185-1201. (IF = 3.808)
11. Shahid Ullah Khan, Faisal Rashid, Hamid Saeed Shah, **Jamshed Iqbal**. Pharmacological evaluation of polar extract of *Chrozophora tinctoria* in human breast cancer and cervical cancer cells for effective treatment of cancer in Female population of developing countries. *Current Nutraceuticals*. (Accepted) (IF = NA)
12. Mohammad Uzair, Faisal Rashid, Hamid Saeed Shah, **Jamshed Iqbal**. Exploring cytotoxic and antioxidant properties of *Heliotropium calcaureum* in polar and non-polar extracts. *Current Nutraceuticals*. (Accepted) (IF = NA)

13. Pervaiz A Channar, sidra Hassan, Fouzia Parveen, Sehrish Bano, Aamer Saeed, Pervez A Mahesar, Salman uz Zaman, Rasheed A Khera, Abbas Hassan, [Jamshed Iqbal](#). Appraisal of Novel Azomethine-Thioxoimidazolidinone conjugates as ecto-5'-nucleotidase inhibitors: Synthesis and Molecular Docking and DFT Studies. Applied Biochemistry and Biotechnology. (Submitted)
14. Samina Ejaz, Naheed Riaz and [Jamshed Iqbal](#). Molecular and functional analysis of naphthalene degrading bacteria isolated from the effluents of indigenous tanneries. Journal of Basic Microbiology. (Accepted) (IF = 2.281)
15. Zaman Ashraf, Saira Afzal, [Jamshed Iqbal](#). Synthesis, characterization and biological evaluation of thiadiazole amide derivatives as nucleoside triphosphate diphosphohydrolases (NTPDases) inhibitors. Bioorganic Chemistry (Major Revision)
16. Shabir, Ghulam; Arif, Mubeen; Ejaz, Syeda ; Saeed, Aamer; Khan, Shafi ; Lecka, Joanna ; Sévigny, Jean ; [Jamshed Iqbal](#). Diacylhydrazine Derivatives of 2-(5-(pyridin-3-yl)-2H-tetrazol-2-yl)acetohydrazide and 2-(5-(pyridin-4-yl)-2H-tetrazol-2-yl)acetohydrazide as Potential Inhibitors of Nucleotide Pyrophosphatase. Chemical Papers (Submitted)
17. Syeda Uroos Qazi; Abdul Hameed; Saquib Jalil; [Jamshed Iqbal](#); Agha Zeeshan Mirza, Asia Naz. Semicarbazones, thiosemicarbazone and pyrazole analogues as monoamine oxidase inhibitors: Synthesis, characterization, biological evaluation, molecular docking, and kinetic studies. Bioorganic Chemistry (accepted) (IF = 5.275)
18. Gabriel Oluwabunmi Anyanwu. [Jamshed Iqbal](#); Shafi U. Khan; Syafiq A. Z. Abidin; Bridget E. Iorliam; Uju D. Ejike; Sumera Zaib; Khalid Rauf; Chukwu E. Onyeneke. In vitro and in vivo Antiobesity Effects of Fractions from Alstonia boonei De Wild Stem Bark. Bioorganic Chemistry (Submitted)
19. Amna Murtaza, Saira Afzal, Gohar Zaman, Aamer Saeed, Julie Pelletier, Jean Sévigny, [Jamshed Iqbal](#), Abbas Hassan. Divergent Synthesis and Elaboration of Structure Activity Relationship for Quinoline Derivatives as Highly Selective NTPDase Inhibitor. Bioorganic Chemistry (Accepted) IF = 5.275
20. [Jamshed Iqbal](#), Dilawar Hussain, Abdul Hameed, Khurram Shoaib. Exploring Aminoquinazolinone Based Compounds as BACE1 Inhibitors for Alzheimer's Disease. Bioorganic Chemistry (Rejected)
21. Abid Mahmood, Noman Javid, Muhammad Zia-ur-Rehman, Rubina Munir, Syed Jawad Ali Shah, Lubna Noreen, Tayyaba Allamgir Sindhu, [Jamshed Iqbal](#). P2X Receptors Antagonists: A promising way for treatment of pain and Inflammation. Synthesis of Sulphonamide tethered (hetero)aryl ethylidenes as potential inhibitors of P2X Receptors. ACS Omega, Accepted (IF = 3.512)
22. Aamer Saeed, Syeda Abida Ejaz; Anwar Ul-Hamid; Hesham R. El-Seedi, [Jamshed Iqbal](#). Synthesis of and Molecular Docking Studies of Azomethine- Tethered Sulfonamides as Carbonic Anhydrase II & 15-Lipoxygenase Inhibitors. Journal of Molecular Structure. IF = 3.196
23. Bano, Sehrish ; Shabir, Ghulam ; Saeed, Aamer ; Ul-Hamid, Anwar; [Iqbal, Jamshed](#). Synthesis, Characterization and Biological Evaluation of Indo-methacin Derived Thioureas as Purinergic (P2Y1, P2Y2, P2Y4, and P2Y6) Receptor Antagonists. Bioorganic Chemistry. (accepted) (IF = 5.275)
24. Bilal Ahmad Khan, Saquib Jalil, Syeda Shamila Hamdani, Amara Farooq, Moiezza Hassan, Khalil Ahmad, Ehsan Ullah Mughal, [Jamshed Iqbal](#). Synthesis of Densely Sub-

- stituted Piperidines Functionalized as In-vitro Monoamine Oxidase Inhibitors, and Structural Determinants of MAO-A and MAO-B Selectivity. *ChemistrySelect* (Submitted)
25. Maria Saleem Khan, Muhammad Asif Nawaz, Saqib Jalil, Abdul Hameed, Asnuzilawati Asari, Habsah Mohamad, Atta Ur Rehman, **Jamshed Iqbal**, and Mariya al-Rashida. Deep Eutectic Solvent Mediated Synthesis of 3,4-Dihydropyrimidin-2(1H)-Ones and Evaluation of Biological Activities Targeting Neurodegenerative Disorders. *Bioorganic Chemistry* (accepted) (IF = 5.275)
 26. Saira Afzal, Mariya al-Rashida, Abdul Hameed, Julie Pelletier, Jean Sévigny, Jamshed Iqbal. Synthesis, In-vitro Evaluation and Molecular Docking Studies of Oxindolin Phenylhydrazine Carboxamides as Potent and Selective Inhibitors of Ectonucleoside Triphosphate Diphosphohydrolase (NTPDase). *Bioorganic Chemistry*. (IF = 5.275)
 27. Pervaiz Ali Channar, Aamer Saeed, Saira Afzal, Dilawar Hussain, Markus Kalesse, Syeda Aaliya Shehzadi, Jamshed Iqbal. Hydrazine clubbed 1,3-thiazoles as potent urease inhibitors: design, synthesis and molecular docking studies. *Molecular Diversity* (2021) 25:787–799. (IF = 2.943)
 28. Saifullah Afridi, Musarrat Adnan, Muhammad Waqar Hameed, Abdul Wajid Khalil, Zafar Iqbal, Daniel C Hoessli, Muhammad Shahid, Shafi Ullah Khan, **Jamshed Iqbal**, Xiaoming Zhang, Zhiyuan Wu. Small organic molecules accelerate the expansion of regulatory T cells. *Bioorganic Chemistry*, 111 (2021) 104908. (IF = 5.275)
 29. Aqeel Imran, Muhammad Tariq Shehzad, Tahaal Adhami, Khondaker Miraz Rahman, Dilawar Hussain, Rima D.Alharthy, Zahid Shafiq, **Jamshed Iqbal**. Development of coumarin-thiosemicarbazone hybrids as aldose reductase inhibitors: Biological assays, molecular docking, simulation studies and ADME evaluation. *Bioorganic Chemistry*, (2021), 115, 105164. (IF = 5.275).
 30. Malik, Arif; Jabbar, Uzma; waquar, Sulayman; Naz, Anam; Awan, Faryal; Khan, Muhammad; Jafar, Tassadaq ; Kalsoom, Aasia; Khwaja, Ali; Hassan, Mubashar ; zaib, Sumera;**Iqbal, Jamshed**; Zahid, Ayesha; Marvi, Marvi; Iqbal, Javeid; Rasool, Rabia; Wang, Hend; Wei, Dong-Qing. Neuroprotective role of Epigallocatechin-3-Gallate, Albeginin and Melanoxetin in Alzheimer’s Disease. *ACS Chemical Neuroscience*. (Submitted)
 31. Muhammad Tariq Shehzad, Abdul Hameed, Aqeel Imran, Mariya al-Rashida, Mariam Bibi, Maliha Uroos, Asnuzilawati Asari, Shafia Iftikhar, Habsah Mohamad, Muhammad Nawaz Tahir, Zahid Shafiq, **Jamshed Iqbal**. Exploring Synthetic and Therapeutic Prospects of New Thiazoline Derivatives as Aldose Reductase (ALR2) Inhibitors. *RSC Advances*, 2021, 11, 17259 – 17282. (IF = 3.361)
 32. Faisal Rashid, Abida Ashraf, Zahid Shafiq, Muhammad Yaqub and **Jamshed Iqbal**. Anti-proliferative, Cytotoxic and Pro-apoptotic Effect of Pyridine and Naphthyridine Derivatives of Pyrazoles against Cervical and Breast Cancer Cells. *Medicinal Chemistry*. (Submitted)
 33. Wajeeha Rani; Farhana Maqbool; Zulfiqar Ahmed Bhatti; **Jamshed Iqbal**; Muhammad Faisal Siddiqui; Sidra pervez; Umm-e- Kalsoom; Ibrar Khan; Faiza Nawaz. Antibacterial and anticancer efficacy of different parts of Pistacia integerrima plant extracts. *Applied Nanoscience*. 2021. (IF = 3.674)
 34. Saif Ullah, Mohammed I. El-Gamal, Randa El-Gamal, Julie Pelletier, Jean Sévigny,

- Hanan S. Anbar, **Jamshed Iqbal**. Synthesis, biological evaluation, and docking studies of novel pyrrolo[2,3-b]pyridine derivatives as both ectonucleotide pyrophosphatase / phosphodiesterase inhibitors and antiproliferative agents. *European Journal of Medicinal Chemistry*, 2021 5;217:113339. (IF = 6.514)
35. Imtiaz Khan, Sumera Zaib, Mohsin Javed, Faisal Rashid, Muzaffar Iqbal, Aliya Ibrar, **Jamshed Iqbal**. Antiproliferative and pro-apoptotic effects of thiazolo[3,2-b][1,2,4]triazoles in breast and cervical cancer cells. *Anti-Cancer Agents in Medicinal Chemistry*. (IF = 2.505)
 36. Faisal Rashid, Noor Uddin, Saqib Ali, Ali Haider, Syed Ahmad Tirmizi, Paula L. Diaconescu, **Jamshed Iqbal**. New Triorganotin(IV) Compounds with Aromatic Carboxylate Ligands: Synthesis and Evaluation of Pro-apoptotic Mechanism. *RSC Advances* 11(2021): 4499-4514. (IF = 3.361)
 37. Mohsinul Mulk Bacha, Humaira Nadeem, Sumera Zaib, Sadia Sarwar, Aqeel Imran, Shafiq Ur Rahman, Hafiz Saqib Ali, Muazzam Arif, **Jamshed Iqbal**. Rhodanine-3-acetamide derivatives as aldose and aldehyde reductase inhibitors to treat diabetic complications: synthesis, biological evaluation, molecular docking and simulation studies. *BMC Chemistry* 2021 27;15(1): 28. (IF= 2.610)
 38. Muhammad A. Yameen, Amir Zeb , Raza E. Mustafa , Sana Mushtaq, Nargis Aman, Muhammad Samie, Khizar H. Shah and **Jamshed Iqbal**. Synthesis and Biological Evaluation of Amoxicillin Loaded Hybrid Material Composite Spheres against Methicillin-Resistant Staphylococcus aureus. *Current Pharmaceutical Biotechnology*, 2021, 22, 678-688. (IF = 2.837)
 39. Faisal Rashid, Sumera Zaib, Aliya Ibrar, Syeda Abida Ejaz, Aamer Saeed, **Jamshed Iqbal**, Imtiaz Khan. New hybrid scaffolds based on carbazole-chalcones as potent anticancer agents. *Anti-Cancer Agents in Medicinal Chemistry*. 21(9), (2021): 1082-1091. (IF = 2.505)

Year 2020

40. Afshan Kanwal, Saif Ullah, Matloob Ahmad, Julie Pelletier, Sana Aslam, Sadia Sultan, Jean Sévigny, Mazhar Iqbal, **Jamshed Iqbal**. Synthesis and Nucleotide Pyrophosphatase/phosphodiesterase Inhibition Studies of Carbohydrazides Based on Benzimidazole – Benzothiazine Skeleton. *ChemistrySelect* (2020) 5(45):14399-14407. (IF = 2.109)
41. Pervaiz Ali Channar, Aamer Saeed, Ali Bahadur, Fayaz Ali Larik, Abbas Khan, Dong-Qing Wei, **Jamshed Iqbal**. Synthesis, biological evaluation and molecular dynamic of carbothioamides derivatives as carbonic anhydrase II and 15-Lipoxygenase inhibitors. *Journal of Biomolecular Structure & Dynamics*. Submitted
42. Mubo Sonibare, Isimot Temitope Arowona, **Jamshed Iqbal**. Inhibition of D – amino acid oxidase by Chromatographic Fractions and Flavonoid glucoside isolated from *Philenoptera cyanescens* Leaves: An in vitro antipsychotic fluorimetric assay. *European Journal of Integrative Medicine*. Submitted
43. Saira Afzal, Mariya al-Rashida, Abdul Hameed, Julie Pelletier, Jean Sévigny, **Jamshed Iqbal**. Functionalized oxoindolin hydrazine carbothioamide derivatives as highly potent inhibitors of nucleoside triphosphate diphosphohydrolases (NTPDases). *Frontiers in pharmacology* 11(2020): 585876. (IF = 5.810)
44. Nazir, Abdul; Fatima, Nighat; ur-Rehman, Shamus; Muhammad, Syed; Shahzadi, Irum; Yameen, Muhammad; **Iqbal, Jamshed**; Mannan, Abdul; Khan, Shafi Ullah;

- Htar, Thet. Phytochemical, biological and In-silico evaluation of *Torilis leptophylla* and *Sonchus arvensis*. *The Biological Bulletin*. (Submitted)
45. Sundus Khawaja, Abdul Rehman Khan, Fazli Rabbi Awan, [Jamshed Iqbal](#). Obesity related lung complications and a possible phytochemical therapeutic solution. *Journal of the Pakistan Medical Association* 70(2020) 1616-1619. (IF = 0.781)
 46. Hanan S. Anbar, Randa El-Gamal, Saif Ullah, Seyed-Omar Zarai, Mariya al-Rashida, Sumera Zaib, Julie Pelletier, Jean Sévigny, [Jamshed Iqbal](#), Mohammed I. El-Gamal. Evaluation of sulfonate and sulfamate derivatives possessing benzofuran or benzothioephene nucleus as inhibitors of nucleotide pyrophosphatases/ phosphodiesterases and anticancer agents. *Bioorganic Chemistry* 104(2020) 104305. (IF = 5.275)
 47. Hamid Saeed Shah, [Jamshed Iqbal](#). Synthesis and characterization of α -mangostin loaded nanosized vesicular system for improved diabetes therapy: An in vitro, in vivo and in silico approach. *Journal of Liposome Research*. (Submitted)
 48. Deedar Ali, Mariya al-Rashida, Tayyaba A. Sindhu, Muhammad M. Naseer, Muhammad . Shah, [Jamshed Iqbal](#) and Abdul Hameed. Exploring Transition Metal Fluoride Based Solid Support Catalyst for Synthesis of Sulfonamides, Indoles, 1H-Tetrazoles and 1,4-Dihydropyridines. *ChemistrySelect*. (Submitted)
 49. Asma Mukhtar, Shazia Shah, Kanwal, Khalid Mohammed Khan, Shahid Ullah Khan, Dilawar Hussain, [Jamshed Iqbal](#), Shahnaz Parveen, Muhammad Taha, Shafqat Hussain, Ayaz Anwar, and Naveed Ahmed Khan. Synthesis of chalcones as potential α -glucosidase inhibitor, in vitro and in silico studies. *Molecules* (Accepted) IF= 4.411
 50. Lateef Ullah, Hameed Y, Samina Ejaz, Raashid A, Ejaz, SA, Inam Ullah, Jamshed Iqbal. Detection of novel infiltrating ductal carcinoma associated BRCA2 mutations which alter the DNA binding ability of BRCA2 protein. *Journal of Cancer Research and Therapeutics* 16(2020) 1402. (IF = 1.805)
 51. Saghir Abbas, Sumera Zaib, Saqib Ali and [Jamshed Iqbal](#). 15-LOX Inhibitors: Biochemical Evaluation of Flurbiprofen and its Derivatives. *Life and Science* 1(2020) 6-6.
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