

BIODATA

Dr. Payal Jain

w/o Arun Garg
Near Garg Atta Chakki,
Professor Colony,
Opposite Punjabi University,
Patiala.
E-Mail : ap_jain04@yahoo.com
Mb. No.-+918427119600,+919417153808



Educational Qualifications

- Ph.D. (Organic Chemistry), Punjabi University, Patiala.
- M. Sc. (Organic Chemistry), Panjab University, Chandigarh [2008] with (69.85%).
- B. Sc. (Physics, Chemistry, Maths), Punjabi University, Patiala [2006] with (63.87%).
- 10+2 (Physics, Chemistry, Maths), Punjab School Education Board [2003] with (74.67%).

Member

- Life member of the Asian Polymer Association.
- Life member of the Him Science Congress Association.
- Life member of Indian Society of Analytical Scientists

Research Work

Completed Ph. D. research work on the topic entitled “Synthesis and Characterization of Novel Heterocyclic Compounds” under the supervision of Dr. Mohamad Yusuf at Department of Chemistry, Punjabi University Patiala.

Research Publications

1. Synthesis and antimicrobial evaluation of bisthiazolidinones built around aliphatic chains
Mohamad Yusuf and Payal Jain *Asian Journal of Research in Chemistry* **2011**, 4(7), 1103-1108.
2. Synthesis and biological significances of 1,3,4-thiadiazolines and related heterocyclic compounds
Mohamad Yusuf and Payal Jain *Arabian J. Chem.* **2011**, doi: 10.1016/j.arabjc.-2011.02.006.
3. Synthetic and biological studies of pyrazolines and related heterocyclic compounds
Mohamad Yusuf and Payal Jain *Arabian J. Chem.* **2011**, doi:10.1016/j.arabjc.-2011.09.013.
4. Synthesis of some alkoxy based bisthiadiazolines
Mohamad Yusuf and Payal Jain *Arabian J. Chem.* **2012**, 5, 93-98.
5. Synthesis, characterization and antimicrobial studies of new bispyrazolines linked via 3-aryl ring with aliphatic chains
Mohamad Yusuf and Payal Jain *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2012**, 96, 295-304.
6. Synthesis and antimicrobial studies of new thiadiazoline based symmetrical bisheterocyclics
Mohamad Yusuf and Payal Jain *Der Pharma Chemica* **2012**, 4(4):1458-1466.

7. Synthesis and Antimicrobial Studies of New Bis[4,5-dihydro-1-phenyl-5-thienyl-3-(phenyl-4-alkoxy)-1*H*-pyrazole] Derivatives
Mohamad Yusuf and Payal Jain *J. Heterocyclic Chem.* **2012**, doi:10.1002/jhet.1805.
8. New bispyrazoline derivatives built around aliphatic chains: synthesis characterization and antimicrobial studies
Mohamad Yusuf and Payal Jain *J. Chem. Sci.* **2013**, 25(1), 117-127.
9. Synthesis and Antimicrobial studies of New N,N'-[5,5'-{2,2'-(bis-alkoxy)bis(2,1-phenylene)}]bis(4-acetyl-4,5-dihydro-1,3,4-thiadiazole-5,2-diyl)]diacetamide
Mohamad Yusuf, Indu Solanki, and Payal Jain *J. Chem. Sci.* **2012**, 124(3), 703-715.
10. Photoinduced Synthesis of New Diisochromenochromen-4-ones and Their Antimicrobial Activities
Mohamad Yusuf, Indu Solanki and Payal Jain *The Scientific World Journal* **2012**, MS ID 954934, 8.
11. New Bisthiadiazolines: Synthesis, characterization and antimicrobial evaluations
Mohamad Yusuf, Manvinder Kaur, Payal Jain and Indu Solanki *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2012**, 97, 470-478.
12. Photochemical synthesis and antimicrobial studies of new chromen-4-one based vinyl Ethers
Mohamad Yusuf, Indu Solanki, Payal Jain *Arabian Journal of Chemistry* **2013**, doi:10.1016/j.arabjc.2012.12.037.
13. Synthesis, Characterization and Antimicrobial Studies of New Rigid Linker based Bispyrazolines
Mohamad Yusuf, Varsha Samdhian and Payal Jain *J. Heterocyclic Chem.* (Corrected Proof).

Abstracts published in National/International Conferences

1. Photo Induced type II H-abstractions in some Alkoxy Substituted Chromones
R. Kumar, Payal Jain and Mohamad Yusuf
Ist Annual conference on Recent Advances in Chemical and Environmental Sciences (January 16-17, 2009), S. No. 59, pp. 63, Multani Mal College, Patiala).
2. Photochemical H- abstraction of some 2- phenyl -3-Allyloxy Bischromones
Rupesh Kumar, Payal Jain, Mamta Rani and Mohamad Yusuf
National Seminar on Recent Trends in Chemistry (January 21- 22, 2009), Deptt. of Chemistry, Punjabi University, Patiala.
3. Photochemical selective dealkylation of some 1,4-bisalkoxy-Anthraquinone
Salman Ahmad Khan, Payal Jain, Rupesh Kumar, Mamta Rani and Mohamad Yusuf
National Seminar on Recent Trends in Chemistry (January 21-22, 2009), PS-20, pp. 22, Deptt. of Chemistry, Punjabi University, Patiala.
4. Synthesis and Characterization studies of Some bisthiadiazoline
Mohamad Yusuf, Mamta Rani, Payal Jain, Mamta Kaushal and Diwan Singh
National Symposium on Emerging Trends in Chemistry (NSETC 10) Feb.15-16, 2010
Department of Chemistry, Punjabi University, Patiala.
5. Synthesis and Characterization studies of some bispyrazoline derivatives
Mohamad Yusuf, Mamta Rani, Payal Jain, Mamta Kaushal and Diwan Singh
National Symposium on Emerging Trends in Chemistry (NSETC 10) Feb. 15-16, 2010,
Department of Chemistry, Punjabi University, Patiala.
6. Synthetic studies of Some Bischromones
Mohamad Yusuf, Mamta Rani, Payal Jain, Mamta Kaushal and Diwan Singh
National Symposium on Emerging Trends in Chemistry (NSETC 10) Feb. 15-16,

2010. Department of Chemistry, Punjabi University, Patiala.
7. Photolytic Reactions of some Bischromones
Mohamad Yusuf, Mamta Rani, Payal Jain, Mamta Kaushal and Diwan Singh
National Symposium on Emerging Trends in Chemistry (NSETC 10) Feb. 15-16, 2010. Department of Chemistry, Punjabi University, Patiala.
 8. Synthesis and Photochemical studies of some 3-cyclobutylmethoxy-chromones
Mohamad Yusuf, Rupesh Kumar, Mamta Rani, Payal Jain, Mamta Kaushal and Diwan Singh
National Symposium on Recent Trends in Chemical Sciences Feb. 24, 25, 2010, Department of Chemistry, Aligarh Muslim University, Aligarh.
 9. Synthesis, Characterization and Antimicrobial studies of Some 1,3,4-bisthiadiazolines.
Mohamad Yusuf, Indu and Payal Jain
Prof. Ram Chand Paul International Conference on Emerging Trends in Chemistry Feb. 11-12, 2011, Department of Chemistry, Panjab University, Chandigarh.
 10. Synthetic studies of some bispyrazolines linked via 5-aryl Ring
Mohamad Yusuf and Payal Jain
Recent Advances in Chemistry and their impact on Environment (NSRACE-2011) Feb. 15-16, 2011. Department of Chemistry, Punjabi University, Patiala.
 11. Synthetic Studies of some Bisthiazolidinone
Mohamad Yusuf and Payal Jain
Recent Advances in Chemistry and their impact on Environment (NSRACE-2011) Feb. 15-16, 2011. Department of Chemistry, Punjabi University, Patiala.
 12. Synthesis and antimicrobial activity of some thioamide based pyrazoline derivatives
Mohamad Yusuf and Payal Jain
Recent Advances in Chemical and Environmental Sciences (RACES-2011), Feb. 28-March 1, 2011, Multani Mal Modi College, Patiala.
 13. Studies on the synthesis and Characterization of some bisthiadiazolines
Mohamad Yusuf and Payal Jain
Recent Advances in Chemical and Environmental Sciences (RACES-2011), Feb. 28-March 1, 2011, Multani Mal Modi College, Patiala.
 14. Synthesis and Photocyclization of Some Diphenyl Based Bischromones
Mohamad Yusuf, Indu, Payal Jain
International Conference on Chemistry Frontiers and Challenges 5-6 March, 2011, Department of Chemistry, Aligarh Muslim University Aligarh.
 15. Synthesis of Some bis-pyridinecarbonitrile derivatives
Mohamad Yusuf, Payal Jain, Indu
National Conference on Chemistry in Our Lives (NCCOL-2011), 29th March, 2011, Department of Chemistry, Arya Post Graduate College, Panipat.
 16. Synthesis and Antimicrobial studies of new bis(1,3-diphenyl-5-thienyl-pyrazoline) derivatives
Mohamad Yusuf and Payal Jain
6th National Conference on Thermodynamics of Chemical and Biological Systems, November 2-4, 2011. Department of Chemistry, Maharshi Dayanand University, Rohtak (India).
 17. Bis[1,3-diphenyl-4,5-dihydro-1H-5(4,-alkoxyphenyl)-pyrazole] derivatives:
Synthesis, Characterization and Antimicrobial Studies
Mohamad Yusuf, Varsha Samdhian, Payal Jain, Indu and Manvinder Kaur
International Conference on Innovations in Chemistry For Sustainable Development (ICSD-2011), Department of Chemistry, Punjab University, Chandigarh held on dated December 01-03, 2011.

18. Photochemical Synthesis and Biological Studies of Novel phenyl/thienyl/furyl fused Bis-pyronepyranes
Mohamad Yusuf, Indu, Payal Jain, Manvinder Kaur and Varsha Samdhian
4th National Seminar on Chemistry: An Inter Disciplinary Science Feb. 15-16, 2012, Department of Chemistry, Punjabi University, Patiala.
19. Synthetic and Antimicrobial studies of new alkyl based bithiadiazolines
Mohamad Yusuf, Manvinder Kaur, Payal Jain, Indu and Varsha Samdhian
4th National Seminar on Chemistry: An Inter Disciplinary Science Feb. 15-16, 2012, Department of Chemistry, Punjabi University, Patiala.
20. Synthesis of new Bis(pyrazolines) and their Biological Evaluations
Mohamad Yusuf, Payal Jain, Indu, Manvinder Kaur and Varsha Samdhian
4th National Seminar on Chemistry: An Inter Disciplinary Science Feb. 15-16, 2012, Department of Chemistry, Punjabi University, Patiala.
21. Synthesis, Characterization and Biological Studies of new rigid spacer based bis-dihydropyrazoles
Mohamad Yusuf, Varsha Samdhian, Payal Jain, Indu and Manvinder Kaur,
4th National Seminar on Chemistry: An Inter Disciplinary Science Feb. 15-16, 2012, Department of Chemistry, Punjabi University, Patiala.
22. Pyrazoline based Symmetrical bisheterocyclic Compounds: Synthesis and Antimicrobial Studies
Mohamad Yusuf and Payal Jain
Chemical Constellation Cheminar-2012: Chemistry For Sustainable Development and Innovations September-10-12, 2012, Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar.
23. Synthesis and Antimicrobial Studies of New Furanyl Based Bispyrazolines
Mohamad Yusuf, Payal Jain, Indu Solanki and Manvinder Kaur
National Conference on Global Challenges: New Frontiers in Chemical Sciences, Department of Chemistry, Kurukshetra University, Kurukshetra on dated September 22-23, 2012.

National/International Conferences Attended

1. National Seminar on Recent Advancement and Developments in Chemical Sciences, **Department of Chemistry, DAV College, Abohar** held on dated 7-8, Jan., 2008.
2. National Seminar on Recent Trends in Chemistry, **Department of Chemistry, Punjabi University, Patiala** held on dated Jan., 21-22, 2009.
3. National Seminar on Recent Advances in Chemical and Environmental Sciences, **Department of Chemistry, Multani Mal Modi College, Patiala** held on dated January 16-17, 2009.
4. National Symposium on Emerging Trends in Chemistry, **Department of Chemistry, Punjabi University, Patiala** held on dated Feb.15-16, 2010.
5. Prof. Ram Chand Paul International Conference on Emerging Trends in Chemistry **Department of Chemistry, Panjab University, Chandigarh** held on Feb. 11-12, 2011.
6. National Seminar on Recent Advances in Chemistry and their impact on Environment, **Department of Chemistry, Punjabi University, Patiala** held on dated Feb. 15-16, 2011.
7. National Seminar on Recent Advances in Chemical and Environmental Sciences, **Department of Chemistry, Multani Mal Modi College, Patiala** held on dated Feb. 28-March 01, 2011.

8. National Chemical Constellation Cheminar, **Department of Chemistry Dr. B R. Ambedkar National Institute of Technology, Jalandhar** held on dated August 20-21, 2011.
9. 6th National Conference on Thermodynamics of Chemical and Biological Systems, **Department of Chemistry, Maharshi Dayanand University, Rohtak** held on dated November 2-4, 2011.
10. International Conference on Innovations in Chemistry for Sustainable Development (ICSD-2011), **Department of Chemistry, Punjab University, Chandigarh** held on dated December 01-03, 2011.
11. National Conference on Recent Advances in Chemistry and their impact on Environment, **Department of Chemistry, Arya (P. G.) College, Panipat** held on dated Feb. 4-5, 2012.
12. 4th National Seminar on Chemistry: An Inter Disciplinary Science, **Department of Chemistry, Punjabi University, Patiala** held on dated February 15-16, 2012.
13. National Seminar on Recent Advances in Chemical and Environmental Sciences, **Department of Chemistry, Multani Mal Modi College, Patiala** held on dated (March 3, 2012)
14. National Conference on Global Challenges: New Frontiers in Chemical Sciences, **Department of Chemistry, Kurukshetra University, Kurukshetra** on dated September 22-23, 2012.
15. 5th National Seminar on New Frontiers in Chemistry, **Department of Chemistry, Punjabi University, Patiala** held on dated Feb.15-16, 2013.
16. 1st International Conference on Recent Advances in Chemical Sciences, **Department of Chemistry, Arya (P. G.) College, Panipat** held on dated Feb. 24-26, 2013.
17. National Conference on Interdisciplinary Approach in Science in Emerging Scenario **Department of Chemistry, Vaish College, Bhiwani** on dated March 16, 2013.

(Dr. Payal Jain)

Place: Patiala