



School: Natural Resources

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Qualifications: M. Pharm., Ph.D.

Area of Interest/Specialization: Medicinal Chemistry; Drug Design; Natural Products / Pharmaceutical Chemistry

Experience: 21 years

Awards and Honors:

1. Prof. K. A. Thaker Cash Award for best paper published in the journal of the Institution of Chemists (India), Vol 83, 2011, Part 5.
2. Best Researcher Award in the DBT and CSIR Sponsored National Seminar on “Drug Targeting for Therapeutic Benefit” held on 2nd & 3rd February, 2013, organized by Adina College of Pharmacy, Sagar (MP).

Research Projects: 01(Completed)

AICTE, Major Research Project, “Design, synthesis and biological evaluation of some heterocyclic amides/ureas as CCR5 antagonists”, Duration - 3 Years [2006-2009]

Best Peer Reviewed Publication (up-to 10):

1. Vivek Asati, Piyush Ghode, Shalini Bajaj, Sanmati Kumar Jain and Sanjay Kumar Bharti. 3D-QSAR and Molecular Docking Studies on Oxadiazole Substituted Benzimidazole

Derivatives: Validation of Experimental Inhibitory Potencies Towards COX-2. *Curr Comput Aided Drug Des*, 2019;15(4):277-293.

2. Shalini Bajaj, Piyush Ghode, Jagadish Singh, Partha Pratim Roy and Sanmati Kumar Jain*. Quantitative structure–activity relationship and combinatorial design of 1,3,4-oxadiazolebased thymidine phosphorylase inhibitors as potential anti-cancer agents. *Current Science*, 114(10), 2063-2071.
3. P. Ghode and S. K. Jain*. Structural Requirements for some 3-amino-N-substituted-4-(substituted phenyl) Butanamides as Dipeptidyl Peptidase-IV Inhibitors Using 3D-QSAR and Molecular Docking Approaches. *Indian J Pharm Sci*, 79(6), 2017:974-986.
4. Ghode Piyush, Jain Sanmati Kumar*. Ligand Based In-silico Study on Pyridopyrimidinedione Derivatives as Dipeptidyl Peptidase-IV Inhibitors. *Indian J Pharm Edu Res*. 51(4), 2017, 136-143.
5. Naveen Raj, Sanmati K Jain. 3D-QSAR Analysis on Using k-Nearest Neighbor Molecular Field Analysis (kNN-MFA). *Digest Journal of Nanomaterials and Biostructures*. 6(4), 2011, 1811-1821.
6. Ritesh Jain and Sanmati K Jain*. Screening of in vitro cytotoxicity of some medicinal plants used traditionally to treat cancer in Chhattisgarh state, India. *Asian Pacific Journal of Tropical Biomedicine*. 2011, S147-S150.
7. Ritesh Jain, Sanmati K. Jain*. Effect of Buchanania lanzan Spreng. Bark Extract on Cyclophosphamide induced Genotoxicity and Oxidative Stress in Mice. *Asian Pacific Journal of Tropical Medicine*. 5(3), 2012, 187-191.

8. Ritesh Jain, Sanmati K. Jain*. Total Phenolic contents and Antioxidant Activities of some selected Anticancer Medicinal Plants from Chhattisgarh State, India. *Pharmacologyonline* 2. 2011, 755-762.
9. Sanmati K Jain & P Mishra. Preparation and pharmacological evaluation of some 1,3,4-thiadiazole derivatives. *Indian Journal of Chemistry*. 43B, 2004, 184-188.
10. Sanmati K Jain & P Mishra. Synthesis of Some 2-Amino-5-Aryl-1,3,4-Thiadiazoles. *Asian Journal of Chemistry* 12 (4), 2000, 1341-1343.

Recent Books/Book Chapters/Monographs etc.:

1. Sanmati K. Jain* and Pradeep Mishra. Study on Synthesis and Appraisal of Some 2,5-Disubstituted-1,3,4-Thiadiazoles as Diuretic Agents. **New Innovations in Chemistry and Biochemistry Vol. 2**, Chapter 11, pp 100-109 (Print ISBN: 978-93-91882-28-0, eBook ISBN: 978-93-91882-38-9).
2. Sanmati K. Jain*, Piyush Ghode and Achal Mishra. Isatin Derivatives as Human Intestinal Carboxylesterase Inhibitors: An Approach towards 3D-QSAR, Pharmacophore and Molecular Docking. **Current Aspects in Pharmaceutical Research and Development Vol. 2**, Chapter 1, pp 1-21 (Print ISBN: 978-93-5547-055-3, eBook ISBN: 978-93-5547-056-0).
3. Sanmati K. Jain*, Sanjay K. Lanjhiyana, Bharti Ahirwar, Ajay Gupta, B. G. V. S. Jagan and Ioannis S. Vourdoubas. Colon Directed Drug Transport by Way of AZO Prodrugs. **Challenges and Advances in Pharmaceutical Research Vol. 1**, Chapter 4, pp 34-48 (Print ISBN: 978-93-5547-352-3, eBook ISBN: 978-93-5547-356-1).

4. Sanmati K. Jain*, Vikash Kumar, Piyush Ghode, Ajay K. Gupta, Sanjay K. Lanjhiyana and B. G. V. S. Jagan. Imidazo [2, 1-b][1,3,4] Thiadiazoles as Murine Leukemia Cell Inhibitors: Quantitative Structure Activity Relationship (Qsar) Study. **New Innovations in Chemistry and Biochemistry Vol. 7**, Chapter 3, pp26-36 (Print ISBN: 978-93-5547-477-3, eBook ISBN: 978-93-5547-478-0).
5. S. K. Lanjhiyana*, Sanmati K. Jain and Sweety Lanjhiyana. Assessment of Polysaccharides for Development of Pharmaceutical Drug Delivery Systems. **New Innovations in Chemistry and Biochemistry Vol. 7**, Chapter 5, pp 47-54 (Print ISBN: 978-93-5547-477-3, eBook ISBN: 978-93-5547-478-0).
6. S. K. Lanjhiyana*, Sanmati K. Jain, SweetyLanjhiyana, BhartiAhirwar and A. C. Rana. Role of Polysaccharides in Advancement of Pharmaceutical Sustained and Controlled Release Dosage Forms. **Current Aspects in Pharmaceutical Research and Development Vol. 9**, Chapter 1, pp 1-8 (Print ISBN: 978-93-5547-141-3, eBook ISBN: 978-93-5547-149-9)
7. Sanmati K. Jain* , Sanjay K. Lanjhiyana, Ajay Gupta, B. G. V. S. Jagan and Sunil Sahu. QSAR Investigation on 3,5-diaryl-4,5-dihydro-1Hpyrazole-1-carbothioamides as EGFR Kinase Inhibitors. **Challenges and Advances in Pharmaceutical Research (Accepted)**.

Research Supervision:

i) Ph. D. awarded: 02

1. Shri Ritesh Jain, "STUDY OF ANTIOXIDANT AND ANTICANCER ACTIVITY OF SOME TRADITIONAL MEDICINAL PLANTS FROM CHHATTISGARH STATE", Pharmacy / Natural Resources, GGV, Bilaspur (CG) [2014].

2. Shri Navin Ramprasad Raj, “DESIGN, SYNTHESIS AND EVALUATION OF (SUBSTITUTED) 2-PHENYL BENZIMIDAZOLE DERIVATIVES AS POTENT ANTI ALLERGIC COMPOUNDS”, Pharmacy / Natural Resources, GGV, Bilaspur (CG) [2015].

ii) **Ph.D. Thesis Submitted:** 01

iii) **Ph.D. Registered:** 01 [ICMR Fellowship]

iv) **M. Pharm. (Dissertation Thesis):** 25

v) **B. Pharm. (Project Report):** 48

Administrative Responsibilities:

As a member of Board of Studies, Discipline Committee, Examination Committee, HOD, Assistant Centre Superintendent, Centre Superintendent, Sessional Examination Committee, etc.

Additional Information:

I. Qualified GATE with All India Rank 29.

II. Received JRF & SRF of UGC, New Delhi during Ph.D.

III. Membership in Professional bodies:

1 Life member of Indian Pharmaceutical Association (IPA), Mumbai (MS).

2 Life member of Association of Pharmaceutical Teachers of India (APTI), Bangalore (Karnataka).

3 Life member of Society of Pharmaceutical Education and Research (SPER), Gwalior (MP).

IV. Research presentations in Seminar/ Conference: 21

V. Invited Lectures / Chairperson at National or International

Conference/Seminars/Workshop/Refresher Course:

S. No.	Seminar/ Conference/Workshop/Refresher Course
1	Lecture delivered on “2D-QSAR Analysis on some N-alkyl-[1-(3,3-diphenyl propyl)piperidin-4-yl]-2-aryl acetamides as CCR5 receptor modulators” held between 12 th -13 th April, 2007 conducted by Select Biosciences, at Hyderabad (AP) [MedChemIndia, 2007].
2	Participated & delivered a talk in three days’ workshop on Research Methodology in Sciences: Managing Quality in Research and Identification of Thrust Areas held between 29 th Sept. 2007 to 1 st October, 2007 conducted by Deptt. of Pure and Applied Physics, GGV, Bilaspur (CG).
3	Lecture delivered on “Drug Interaction & Prodrug Approach” in Refresher course for Pharmacist organized by SECL, Bilaspur (CG).
4	Chairperson of a scientific session in 2 nd International Conference “Frontiers in Pharmaceutical Sciences and Research” held on 23 rd and 24 th September, 2017, organized by Columbia Institute of Pharmacy, Raipur (CG).
5	Chairperson in National Seminar “Ethnomedicines-A Source of Complementary and Alternative Medicines for Navigating the Future in Therapeutics” held on 23 rd February, 2018, organized by School of Pharmacy, Chouksey Group of Colleges, Bilaspur (CG).
6	Delivered a talk in two day PCI Sponsored International conference on “New Horizon of Health Science” held on 4 th -5 th March, 2020 conducted by School of Pharmacy, Chouksey Group of Colleges, Bilaspur (CG).

VI. Research papers / Review article published (Total) – 69.

