

Curriculum Vitae: Dr. Jyoti

1. Personal Information

- **Full Name** : Dr. Jyoti
- **Designation** : Assistant Professor
- **Department/Discipline** : Chemistry
- **Date of Birth** : 21-07-1995
- **Gender** : Female
- **Nationality** : Indian
- **Address for Correspondence** : Department of Chemistry, Gurugram University, Gurugram, Sector-87, Kankrola, PIN-122505
- **Mobile Number** : 7988405309
- **Email ID** : jyoti@gurugramuniversity.ac.in
- **LinkedIn/Research Profile (if any):** linkedin.com/in/jyoti-rasgania-46550b320 or <https://orcid.org/0000-0001-7520-2115>

2. Career Objective: Seeking to contribute to teaching, research, and academic development through innovative methodologies, interdisciplinary collaborations, and student-centered learning.

3. Educational Qualifications

Degree	Year of Passing	Board/University
PhD	2024	Department of Chemistry, Maharshi Dayanand University, Rohtak
(Title: <i>Synthesis of Pharmaceutically Significant Organic Compounds Using Greener Procedures</i>)		
M. Sc. Inorganic Chemistry *Gold Medalist	2018	Department of Chemistry, Indira Gandhi University, Meerpur, Rewari
B. Sc. (Pass Course) (68.8%)	2016	Govt. Girls College, Sec-14, Gurugram, Maharshi Dayanand University, Rohtak
12 th (Non-Medical) (90.2%)	2013	Gyandeep Vidya Mandir, Dulhera Khurd, Bawal (Haryana Board of School Education)
10 th (91.6%)	2011	Govt. High School, Nangal Shahbazpur, Bawal (Haryana Board of School Education)

- ❖ JRF (Dec 2017)
- ❖ GATE (2019)

4. Teaching Experience

- **Total Teaching Experience:** 2 Years

5. Research Experience

- **Areas of Specialization:** Organic Synthesis, Green Methodologies especially Microwave Irradiation and Ultrasonication, Computational Analysis for drug discovery projects.
- **Research Projects Handled:** NA

- **Research Guidance (Ph.D./M.Phil.):** Guiding one Research Scholar at present.

6. Publications

(A) Research Papers in Journals

1. **J. Rasgania**, R. Gavadia, N. Sahu, P. Sharma, N.S. Chauhan, V. Saharan, R. K. Kapoor, K. Jakhar*, Design, synthesis, and exploration of novel triazinoindoles as potent quorum-sensing inhibitors and radical quenchers, *Future Medicinal Chemistry*, 16(5) (2024) 399-416. <https://doi.org/10.4155/fmc-2023-0313>
2. **J. Rasgania**, R. Gavadia, S. Nimesh, L. Loveleen, K. Jakhar*, Design and synthesis of triazole-functionalized isatin hybrids with potent anti-proliferative action against triple-negative breast cancer MDA-MB-231 cell line: A hybrid pharmacophore approach, *Journal of Iranian Chemical Society*, 21 (2024) 429-443. <https://doi.org/10.1007/s13738-023-02936-1>
3. R. Gavadia, **J. Rasgania**, N. Sahu, S. Nimesh, L. Loveleen, S. Mor, K. Jakhar*, Synthesis of indole-linked thiadiazoles and their anticancer action against triple-negative breast cancer, *Chem. Biodiversity.*, (2024) e202302000.
4. R. Gavadia, **J. Rasgania**, N. Sahu, M.V. Basil, V. Chauhan, S. Kumar, S. Mor, D. Singh, K. Jakhar*, Synthesis of indole-functionalized isoniazid conjugates with potent antimycobacterial and antioxidant efficacy, *Future Med. Chem.*, 16(17), 1731–1747 (2024).
5. R. Gavadia, **J. Rasgania**, N. Sahu, M.V. Basil, V. Chauhan, S. Kumar, S. Mor, D. Singh, K. Jakhar, “Design and Synthesis of Isatin-Tagged Isoniazid Conjugates with Cogent Antituberculosis and Radical Quenching Competence: In-vitro and In-silico Evaluations”, *Chem. Biodiversity*, (2024) 21, e202400765.
6. R. Gavadia, **J. Rasgania**, N. Sahu, S. Nimesh, L. Loveleen, S. Mor, D. Singh, K. Jakhar, Indole analogs as potential anti-breast cancer agents: Design, synthesis, in-vitro bioevaluation with DFT, molecular docking and ADMET studies, *J. Indian Chem. Soc.*, 101(11) 2024, 101404.
7. **J. Rasgania**, R. Gavadia, K. Jakhar*, Facile synthesis, pharmacological and *In silico* analysis of succinimide derivatives: An approach towards drug discovery, *Journal of Molecular Structure*, 1274(1) (2023) 134424. <https://doi.org/10.1016/j.molstruc.2022.134424>
8. **J. Rasgania**, R. Gavadia, S. Nimesh, L. Loveleen, S. Mor, D. Singh, K. Jakhar*, Synthesis of isatin-tagged thiadiazoles as anti-breast cancer leads: *In-vitro* and *in-silico* investigations, *Journal of Molecular Structure*, 1294(2) (2023) 136464. <https://doi.org/10.1016/j.molstruc.2023.136464>
9. **J. Rasgania**, R. Gavadia, M. V.-Basil, V. Chauhan, S. Kumar, S. Mor, D. Singh, K. Jakhar*, Design and synthesis of isoniazid-based pyrazolines as potential inhibitors of *Mycobacterium tuberculosis* with promising radical scavenging action: *In-vitro* and *in-silico* evaluations, *Journal of Molecular Structure*, 1295, (2023) 136657. <https://doi.org/10.1016/j.molstruc.2023.136657>
10. R. Gavadia, **J. Rasgania**, M.V. Basil, V. Chauhan, S. Kumar, K. Jakhar*, Synthesis of isoniazid analogs with promising antituberculosis activity and bioavailability: Biological evaluation and computational studies, *J. Mol. Struct.*, 1283 (2023) 135325.
11. **J. Rasgania**, R. Gavadia, R.K. Kapoor, V. Saharan, K. Jakhar*, Facile one-pot synthesis of nicotinamide analogs: biological and computational evaluation, *Asian Journal of Chemistry*, 35(6) (2023) 1463-1472. <http://dx.doi.org/10.14233/ajchem.2023.27878>
12. R. Gavadia, **J. Rasgania**, K. Jakhar*, Synthesis of carboxamides and carbothioamides of phthalimide: Molecular modeling and biological investigation, *Asian J. Chem.*, 34(12) (2022) 3231-3242.

(C) Conference Papers: NA

7. Research Projects / Grants: NA

8. Conferences / FDPs / Workshops Attended

- Attended two-day **International Conference** on *Emerging Trends in Functional Materials in Science* organized by Department of Chemistry, **Maharshi Dayanand University, Rohtak** on 21-22 Nov 2024.
- Received ***Best Presentation award in National Conference** on Recent Trends in Material and Life Sciences (RTMLS-2023) organized by the Department of Chemistry, **Maharshi Dayanand University, Rohtak**, Haryana, India held on 29th September, 2023.
- Participated in **International Conference** on Biotechnology and Human Welfare: Vision 2030 and Beyond (ICBHW-2023) organized by Department of Biotechnology, **Chaudhary Devi Lal University, Sirsa**, Haryana, India held from 3-4th March, 2023.
- Participated in **TEQIP-III Sponsored International Conference** on Technical Transformation and preparedness in the Post COVID World organized by the Department of Chemistry, **Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat**, India held from 22-23th March, 2021.
- Participated in **UGC-Sponsored 3rd International Conference** on Innovations in Biosciences and Technology (NCIBT-2020) organized by **Multani Mal Motilal College, Patiala** on 7th March, 2021.
- Participated in “**1st International Conference of ISCA-Rohtak Chapter**” Science and Technology: Rural Development organized by the Department of Chemistry, **Maharshi Dayanand University, Rohtak**, Haryana, India held from 4-5th March, 2020.
- Participated in **National Conference** on Bridging the Academic Industry Gap: Challenges and Opportunities in New Decade organized by the **Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak**, Haryana, India held on 6th March, 2020.

Faculty Induction Programme attended

- Participated in **faculty induction programme** “133rd faculty induction programme” organized by **MMTTC Panjab University, Chandigarh** from 01-05-2025 to 28-05-2025.

Workshops & Webinar Attended

- Attended workshop on “Publishing in Academic Journals: An Author Workshop” jointly organized by Vivekanand Library, Department of Library & Information Science, Maharshi Dayanand University, Rohtak and Taylor & Francis Group on 16th September, 2019.
- Attended workshop on “International Workshop on Patent Filing” organized by Intellectual Property Right (IPR) cell, Maharshi Dayanand University, Rohtak on 24th-25th January, 2020.
- Attended the Vivekanand Library Webinar Series-I on “Teaching, Learning and Research Support Services for Quality Enhancement” organized by Vivekanand Library, M.D. University, Rohtak from 20-24th July, 2020.
- Attended Two Day e-Workshop on “Synopsis Writing” organized by Institute of Management Studies and Research, M.D. University, Rohtak on 23-24th October, 2020.
- Attended One Week National e-Workshop on Hands-On Training & Practices in Computational Chemistry [NWTP-CC2020] organized by the Department of Chemistry, J.C. Bose University of Science and Technology, YMCA, Faridabad on 23-27th November, 2020.

- Attended One Week Online Workshop on Research Methodology for Physical Sciences and Engineering, organized by Chaudhry Ranbir Singh Institute of Social Sciences and Economic changes & Faculty of Physical Sciences and Faculty of Engineering and Technology from 01-05th March, 2021.

9. Awards & Achievements: NA

10. Skills:

- Synthesis of pharmaceutically active scaffolds via Greener Routes
- Spectroscopic Characterization Techniques
- Drug Discovery and In-silico Analysis
- Curriculum Development and Teaching
- MS Office, ChemDraw, Origin and Scientific Software Tools
- Teamwork and Academic Coordination
- Cultural activities