

Dr. MEHAK ROHILLA
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Department of Chemistry
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DOB: 27th October 1983



Educational Qualifications

PhD in Chemistry under the Faculty of Science

Department of Chemistry & Center of Advanced studies in Chemistry, Panjab University, Chandigarh, India-160014.

(2014) PhD Thesis- Studies Towards the Synthesis of Ergolines

M.Sc (HS)(Chemistry) - Department of Chemistry & Center of Advanced studies in Chemistry, Panjab University, Chandigarh, India-160014 (2005-2007).

B.Sc (HS)(Chemistry) - Department of Chemistry & Center of Advanced studies in Chemistry, Panjab University, Chandigarh, India-160014 (2002-2005).

Teaching/Research Experience

- 7 July 2013 – till date
Assistant Professor in Department of Chemistry, GGDSD College, Chandigarh, India -160030
Teaching Organic Chemistry at under-graduate and post-graduate level.
- 2011-2013
Teaching Assistantship (Organic Chemistry) in Department of Chemistry, P U Chandigarh, India-160014.
- 2007-2008
Worked as Research and Development Officer in Surya Pharmaceuticals, Panchkula.
- Natural products synthesis

Areas of Interest

Publications

(Journal/Book Chapters)

Journal Publications:

- **Rohilla, M., Sharma, M.,** Phototransformations of 2-Benzylidenindan-1-One Oximes: Synthesis of Indenoquinolines, International Journal of Science and Advance Research in Technology, **2021**, 7, 160-164.
- **Rohilla, M. Sharma, M.,** Oligomerisation of Lysergol, International Journal of Science and Advance Research in Technology, **2021**, 7 (12), 1-3.
- **Rohilla, M., Venugopalan, P.;** Synthesis of 9, 10- Dihydro lysergic Acid, International Journal for Research in Applied Science & Engineering Technology, **2018**, 5, 190-194.
- **Rohilla, M.,** Hydroboration of Agroclavine and Lysergene, Aayushi International Interdisciplinary Research Journal, **2018**, 5, 190-194.
- **Rohilla, M.,** A Facile Synthesis of 8-Hydroxy Lysergine from Lysergol, International Journal of Science and Advance Research in Technology, **2018**, 4, 61-63.

- **Rohilla, M.**, Preparation of Secondary Alcohols from 1-N-benzyl 9,10-dihydrolysergol, International Journal of Science and Advance Research in Technology, **2018**, 4, 11-15.
- **Rohilla, M.**, Synthesis of ergoline derivatives; esterification of lysergol, International journal of Recent Trends in Engineering & Research, **2017**, 3, 172-177.
- **Rohilla, M.**; Goel N.; Singh, T. V.; Venugopalan, P.; Kumar, S. N. V; Tewari, K., Theoretical and Experimental studies on solubility and reactivity behaviour of Lysergol, Elymoclavine and Dihydrolysergol, International Journal of Quantum Chemistry, **2013**, 113, 1427–1435 ISSN 1097-461X.

Books:

- **Organic Chemistry**, BSc Sem I, 2024, Panjab University, Chandigarh by Vohra Publishing House, Chandigarh.
- **Organic Chemistry, Organic Chemistry**, Sem I, 2024, Panjab University, Chandigarh by Vohra Publishing House, Chandigarh.
- **Organic Chemistry**, Sem II, 2024, Panjab University, Chandigarh by Vohra Publishing House, Chandigarh (**In Press**).

Seminars/ Conferences/Symposiums (Paper Presented)

- Delivered a lecture in DBT sponsored online “Instrumental Workshop” on IR, UV Spectroscopy, HPLC and Gas Chromatography organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh (November 27, 2021).
- Presented paper in symposium on Possible funding opportunity in material science, Department of Applied Science, Punjab Engineering College (Deemed to be University), Chandigarh on 6-7th August, 2021.
- Presented a paper titled, ‘Spectral studies for the structural studies of elymoclavine and lysergol derivatives’ at 14th Chandigarh Science Congress "Science and Technology Innovations: Ushering in the era of Make in India", CHASCON-2020 at Panjab University, Chandigarh along with Chandigarh Region Innovation And Knowledge Cluster (Crikc) in online mode (December 17-19 2020).
- Oral presentation in DBT Sponsored Popular Lecture cum Two Day Workshop on “Instrumentation Techniques in Chemistry, 17-18 January 2014, organized by Department of Chemistry, GGDSD College, Sector- 32, Chandigarh.
- Presented paper in Recent Advances in Material Science and Nanotechnology under the Ageis of Star College Scheme of DBT, New Delhi, 1 February, 2014, Organised by Department of Physics, GGDSD College, Sector- 32, Chandigarh.

- Presented poster entitled “*Spectral analysis for the structural studies of Lysergol and Elymoclavine*” in International Conference on Interdisciplinary Areas with Chemical Sciences (ICIACS 2013) 30 October- 1 November 2013, Organized by Department of Chemistry & Center of Advanced studies in Chemistry, Panjab University, Chandigarh.
- Presentation poster entitled “Attempts for the oxidation of Lysergol” in Professor Ram Chand Paul National Symposium on New Developments in Chemical Sciences 23-24 February, 2013, Organized by Department of Chemistry & Center of Advanced studies in Chemistry, Panjab University, Chandigarh.
- Presented poster entitled “Studies Towards the Synthesis of Lysergol” in Professor Ram Chand Paul International Conference on Emerging Trends February 11- 12, 2011, Organized by Department of Chemistry & Center of Advanced studies in Chemistry, Panjab University, Chandigarh.
- Presented poster entitled “Oxidative Degradation of Lysergol ” in 5th Chandigarh Science Congress, 26- 28 February 2011 (CHASCON – 2011) , Organized by Panjab University, Chandigarh.
- Presented paper in Symposium on Magnetic Resonance in Pharmaceuticals and 17th Conference of “National Magnetic Resonance Society (NMRS 2011)” held during March 1-4, 2011 at Guru Nanak Dev University, Amritsar.
- Presented poster entitled “Studies Towards the Synthesis of Ergolines” in Professor Ram Chand Paul VI National Annual Symposium (RCPNAS- 2010) Emerging Areas in Chemical Sciences March 5-6, 2010, Organized by Department of Chemistry & Center of Advanced studies in Chemistry, Panjab University, Chandigarh.
- Presented paper (oral) entitled “Studies Towards the Synthesis of Ergolines” in Symposium on Natural Products in Health and Diseases Biochemical & Molecular Mechanisms, March 5-6, 2010, Organized by Department of Biochemistry, Panjab University, Chandigarh.
- Participated in CHASCON – 2009, 3rd Chandigarh Science Congress, 26- 28 February 2009, Organized by Panjab University, Chandigarh.
- Presented paper (oral), Organic Chemistry Section in Indian Council of Chemists XXIX Annual Conference, 19th - 21st December, 2010.
- Presented paper entitled “Synthesis of Ergolines” in 4th Chandigarh Science Congress (CHASCON – 2010), 19- 20 March 2010, Organized by Panjab University, Chandigarh.
- Presented paper in CHASCON – 2009, 3rd Chandigarh Science Congress, 26- 28 February 2009, Organized by Panjab University, Chandigarh.

**Refresher
Courses/Workshops/Training
Programmes**

- Workshop on Instrumentation techniques in Chemistry (FTIR and UV) on 24th December 2020 organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh
- Workshop on Instrumentation Techniques in Chemistry (HPLC, GC, IR, UV-VISIBLE SPECTROPHOTOMETER) on 21st September 2019 organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh
- Workshop on Waste Water Treatment : Approaches, Management and Capacity building from 3rd to 5th July 2019 organised by

Panjab University, Chandigarh, India and University of Hull, Hull, UK at SAIF, Panjab University, Chandigarh, India

- Workshop on Instrumentation Techniques in Chemistry (HPLC, GC, IR, UV-VISIBLE SPECTROPHOTOMETER) on 14th March 2019 organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh
- Workshop on Indian Research Information Network System (IRINS) on 1st December 2018 organised by Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh under the capacity building program of RUSA, U.T. Administration, Chandigarh
- Popular lecture cum two-day workshop on the topic Instrumentation Techniques in Chemistry from 17th to 18th January 2014 at Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh.

FDP

- Delivered a lecture in DBT sponsored online “Instrumental Workshop” on IR, UV Spectroscopy, HPLC and Gas Chromatography organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh (November 27, 2021).
- Participated in one day Faculty development program on “NAAC awareness and revised Accreditation Program” organized by Mother Theresa College of Engineering and Technology, Telangana on 31st January 2022.
- Participated in six days Faculty development program on “Applied Chemistry: A catalyst for scientific transformation” organized by Lavoisier’s association, Department of Chemistry, faculty of Science, SGT University, Gurugram, New Delhi, 23-28th August, 2021.
- Participated in six days Faculty development program on “Effective teaching and research skills in science and engineering” organized by Regional college for Education Research and Technology on 6-10th December, 2021.
- Participated in five days Faculty development program on “Emerging trends in nano technology” organized by Vishnu Institute of Technology, Bhimavaram, Andhra Pradesh, on 9-13th November, 2021.
- Delivered a lecture on IR Spectroscopic techniques in DBT sponsored online “Instrumental Workshop” on IR, UV Spectroscopy, HPLC and Gas Chromatography organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh, 2023.
- Delivered a lecture on UV spectroscopic technique in DBT sponsored online “Instrumental Workshop” on IR, UV Spectroscopy, HPLC and Gas Chromatography organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh (November 27, 2022).
- Delivered a lecture in DBT sponsored online “Instrumental Workshop” on IR, UV Spectroscopy, HPLC and Gas Chromatography organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh (November 27, 2021).
- Delivered lecture in ‘Popular Lecture Series’ organised by

Invited Talks

Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, sector-32, Chandigarh (August 14, 2019).

- Delivered lecture in ‘Popular Lecture Series’ organised by Resonance Club of the Department of Chemistry, Goswami Ganesh Dutta Sanatan Dharma College, Sector-32, Chandigarh (February 26, 2019).

Dr. Mehak Rohilla