Name: Ruhi Mehta

Designation: Assistant Professor

Specialization: Organic Chemistry

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Education:

M.Sc. Chemistry (2011, Multani Mal Modi College, Patiala)

Ph.D. (**Submitted-September 2020**, Thapar Institute of Engineering and Technology, Patiala)

Title of Ph. D Thesis: "Synthesis and Evaluation of Chromo-Fluorescent Properties of a New Class of Aza/Substituted Acenes"

Professional Experience:

Department of Chemistry, M.M. Modi College, Patiala, India (August 2021-December 2014)

Department of Chemistry, M.M. Modi College, Patiala, India (since 1 February 2021)

Teaching Interests:

- Organic Chemistry
- Spectroscopic techniques and applications

Research Interest: Analytical Chemistry, Chromo-fluorescent sensors and applications for real-time sampling, Organic synthesis, Molecular logic gates, circuits and devices.

Publications

- **Ruhi Mehta** and Vijay Luxami*, "Rhodamine-anthraquinone based dyad for rapid and selective sensing of Al^{3+} with potential application for real-time sampling and molecular logic circuits." *Inorg. Chem. Commun*.,**2020**, 115, 107863
- **Ruhi Mehta**, Pawandeep Kaur, Diptiman Choudhary, Kamaldeep Paul and Vijay Luxami*, "Al^{3+} induced hydrolysis of rhodamine-based Schiff-base: Applications in cell imaging and ensemble as CN^- sensor in 100 % aqueous medium" *J. Photochem. Photobiol. A: Chem*., **2019**, 380, 111851

- **Ruhi Mehta**, Vijay Luxami*, "A novel 'on-off' rhodamine derivative for colorimetric and sensitive detection of CN^- and its application as encoder, decoder and molecular keypad lock" *ChemistrySelect*, **2020**, 5, 13429-13438
- **Ruhi Mehta**, Kamaldeep Paul, Vijay Luxami*, "1-Oxo-1H-phenalene-2, 3-dicarbonitrile Based Sensor for Selective Detection of Cyanide ions in Industrial Waste"*J. Mol. Struct*., **2021**, 1234, 130077

Conferences/Workshops/Seminars Attended:

- Presented poster on "Rhodamine-based Schiff-base for selective and sequential detection of Al^{3+} and CN^- ions" in 10th National conference on Chemical and Environmental Sciences: Innovations and Advances-2018, Punjabi University, Patiala.
- Presented poster on "Rhodamine-anthraquinone dyad for selective detection of Al^{3+} ions at7.04" in National Conference on Futuristic Aspects in Chemical Science and Technology, Punjab University, Chandigarh (2018).
- Participated in 10th National Conference on "Chemicals and Environmental Sciences: Innovations and Advances-2018", Thapar Institute of Engineering and Technology, Patiala.
- Participated in National Science Day Celebration-2017, Thapar University, Patiala
- Participated in National Science Day Celebration-2016, Thapar University, Patiala
- Attended National seminar on "New Vistas in Chemical Sciences", Panjab University, Chandigarh (2014)
- Attended 6th National Conference on "Recent Advances In Chemical and Environmental Sciences-RACES-2013",Multani Mal Modi College, Patiala
- Attended workshop on Employability skill organized by Academy of Learning Techniques & Training 2011-12, Punjab College of Education, Raipur, Bahadugarh, Patiala.
- Attended 2nd Annual National Conference on "Recent Advances In Chemical and Environmental Sciences-RACES-2010",Multani Mal Modi College, Patiala
- Attended 3rd National Conference on "Recent Advances In Chemical and Environmental Sciences-RACES-2011",Multani Mal Modi College, Patiala