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## Shubham Yadav, Ph.D., Specialist

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Research Scholar link:

<https://www.researchgate.net/profile/Shubham-Yadav-27>

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### Academic background

#### Education:

- PhD (2020): ICAR- Indian Agricultural Research Institute, New Delhi, India (*Advisor: Prof. Neera Singh*)
- MSc (2014): University of Lucknow, Lucknow, India
- BSc (2012): University of Lucknow, Lucknow, India

#### Professional:

- February 2022 to present: Specialist, Institute of Pesticide Formulation Technology (IPFT), Gurugram, India.
  - January 2021 - February 2022: Research Trainee, Analytical & Formulations Department, UPL Limited, Gujarat, India.
  - October 2015 - July 2016: Senior Research Associate, Organic Synthesis Department, Piramal Healthcare Limited, Gujarat, India.
  - July 2014 - October 2015: Research Associate, Organic Synthesis Department, Jubilant Chemsys Limited, Noida, India.
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### Research Interests

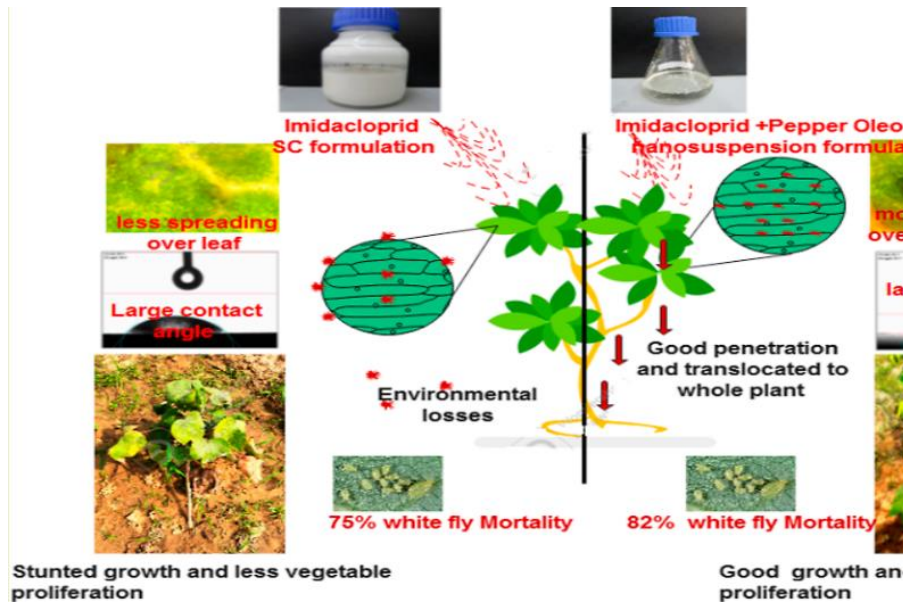
Pesticides play a pivotal role in our life with several advantages as well as disadvantages to environment and human health. Overall, research on pesticides is fundamental to balancing the benefits of pest control with the need to protect human health, the environment, and the economy. Our primary research interests focused on

- Analytical Chemistry
- Pesticide Environmental Chemistry
- Pesticide Residue Analysis
- Pesticide Formulation Analysis
- Organic Synthesis
- GLP (Five Batch Analysis/Impurity Profiling) & NABL (ISO 17025 & 17034)
- Participation in Proficiency Test (PT) Conducted by Organisation for the Prohibition of Chemicals Weapons (OPCW), The Netherland

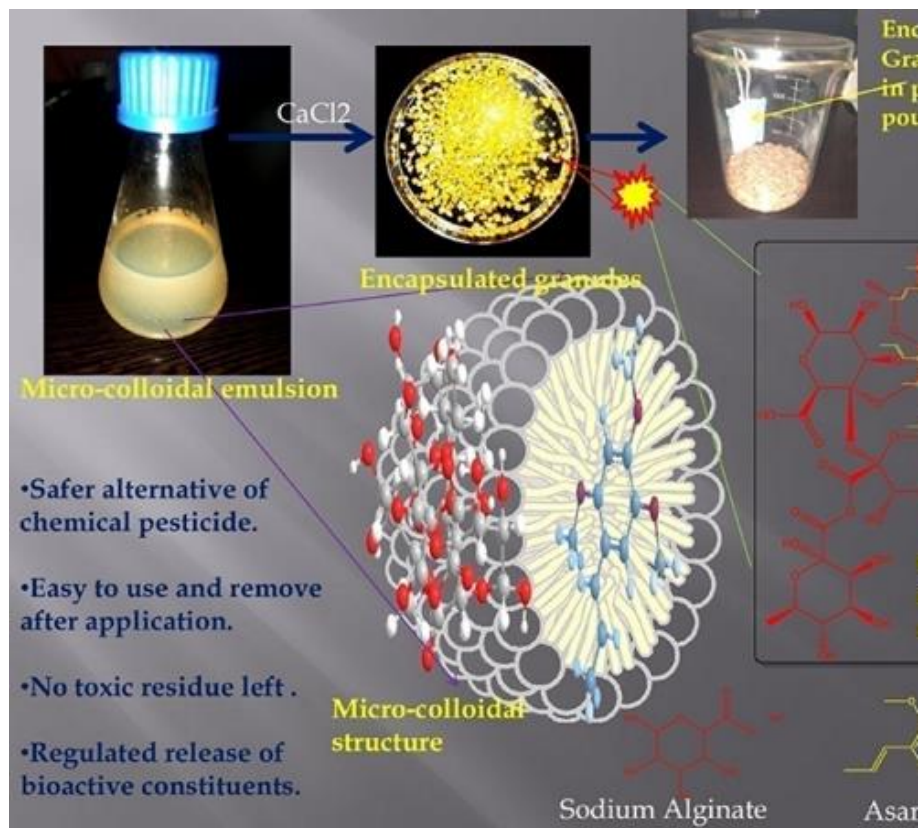
Some of the research highlights of our work as follows,

**Environmentally Benign Design of Renewable  
Oleoresin Bioenergized Imidacloprid Nanohydrocolloids for  
Improved Activity, Lower Toxicity, and Agroecological  
Sustainability**

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### Biofabrication of Microbeads Infused with *Acorus calamus* Oil and Eucalyptus Extract for Sustainable Stored Grain Pest Management



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- Selected publication**
- **Shubham Yadav**, Neera Singh. Increased sorption of atrazine and fipronil in the sugarcane trash ash–mixed soils of Northern India. **Journal of Soil Science and Plant Nutrition**, 2021, 21(2): 1263-76. (IF: 3.9).
  - **Shubham Yadav**, Tirthanker Banerjee, Neera Singh. Leaching behaviour of atrazine and fipronil in sugarcane trash ash mixed soils. **International Journal of Environmental Analytical Chemistry**, 2021, 103(19): 7494-7504. (IF: 2.6).
  - **Shubham Yadav**, Neera Singh. Sugarcane trash ash: A low cost adsorbent for atrazine and fipronil removal from water. **Indian Journal of Chemical Technology**, 2020, 27(4): 319-25. (IF: 0.5).
  - **Shubham Yadav**, Shiv Ram Singh, Lal Bahadur, Usha Kumari, Tirthanker Banerjee, Suman Gupta, Neera Singh. Sugarcane trash ash affects degradation and bio-availability of pesticides in soils. **Sugar Tech**, 2023, 25(1): 77-85. (IF: 1.9).
  - **Shubham Yadav**, Samsul Alam, Ajin S. Anil, Lalitesh K. Thakur. Development and single laboratory validation of ultra-fast LC method for quantification of bispyribac-sodium and difenthiuronin in bispyribac sodium SC and difenthiuron WP formulations. **Agriculture Association of Textile Chemical and Critical Reviews Journal**, 2023, 11(3): 351-57. (IF: 0.78)

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**Awards / Honours  
/ Affiliations**

- ICAR-IARI Senior Research Fellowship (SRF) for Pursuing Ph.D. in the year 2016
  - Qualified ICAR-UGC NET Examination-2017
  - Qualified ICAR Junior Research Fellowship (JRF)-2012
  - Gold Medal for Securing Second Highest Mark in B.Sc. Degree
  - 1<sup>ST</sup> Rank ICAR-IARI Campus Selection Conducted by UPL Limited in the year 2021
  - 1<sup>ST</sup> Rank Lucknow University Campus Selection Conducted by Jubilant Chemsys Limited-2014
  - Qualified ICAR-Agricultural Research Scientist (ARS) Examination-2016
  - 1<sup>ST</sup> Prize in Hindi Essay Writing Competition-2022
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