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M. Sc. (Organic Chemistry)**Ph.D (Chemistry).**

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Communication Address

Institute of Pesticide Formulation Technology (IPFT), Sector-20, Udyog Vihar, Opp. Ambiance Mall, on NH-8, Gurugram, Haryana, India.

Academic background**Education:**

- PhD (2023): Awadhesh Pratap Singh University Rewa, M.P (Institute of pesticide Formulation Technology), Gurugram, Haryana, India (*Advisor: Prof. and Principal Dr Neelam Richhariya*)
- MSc (2006): Awadhesh Pratap Singh University Rewa, M.P, India
- BSc (2003): Awadhesh Pratap Singh University Rewa, M.P, India

Professional: more than 15 Years

- 23/Jan/2014 till date: Scientist (Analytical), Institute of Pesticide Formulation Technology (IPFT), Gurugram, India.
- 15/Dec/2011-22/Jan/2014: Research Associate (Chemistry), Institute of Pesticide Formulation Technology (IPFT), Gurugram, India.
- 16/Nov/2009 to 14/Dec/2011: Senior Research Fellow (Chemistry) Central Council for Research in Ayurvedic Sciences (C.C.R.A.S), New Delhi.
- 30/Jul/2008-16/Nov/2009: Research Intern (Chemistry), National Institute of Science Communication and Information Resources, CSIR

Research Interests

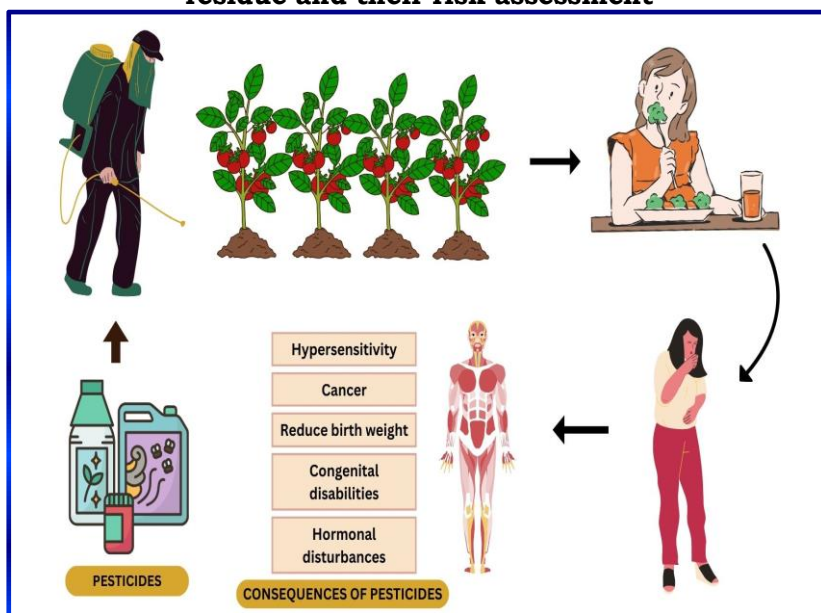
- Development of new analytical methods for determination of pesticides, heavy metals, organic pollutants etc.
- Determination of Chemical Warfare Agents
- Physico-chemical standardization and impurity profiling of new pesticide molecules/formulations
- Physico-chem studies including five batch analysis and pesticide residue analysis as per GLP/NABL
- Working with highly sophisticated instruments like NMR, Prep-LCMS, LC-HRMS, LC-ICPMS, LC-MS/MS, GC-MS/MS, GCMS, HPLC, GC-(ECD/NPD/FPD), UV, FTIR etc for residue, formulation and other characterization study.
- Method development and validation for qualitative and quantitative analysis of pesticides and their formulation (Single/mixed) and technical pesticides using GC,

GC MS, GC MS/MS, HPLC, LC MS/MS, UV and Classical methods.

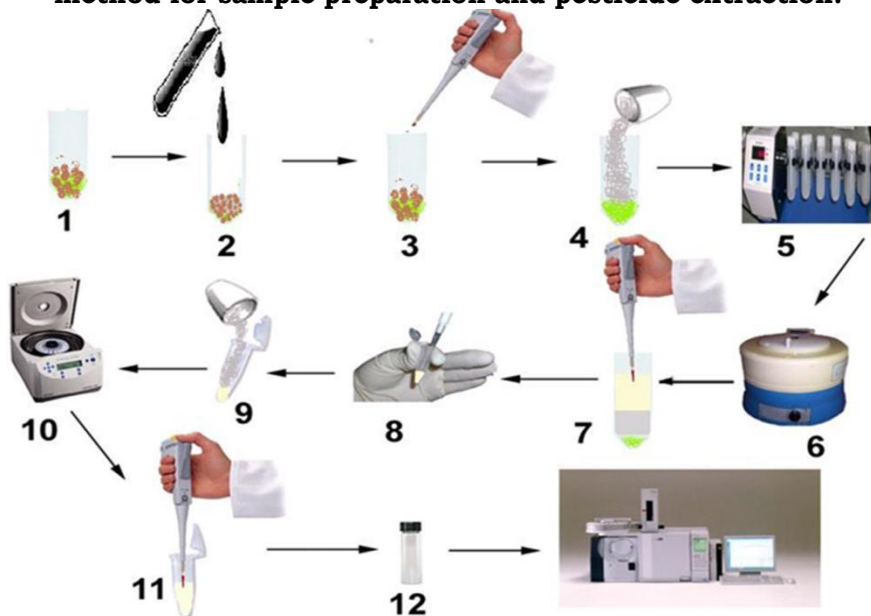
- Multi-pesticide residue analysis from food commodities and environmental samples etc using GC, GC-MS, GC MS/MS and LC MS/MS.
- Characterization with IR, NMR (500MHz.) and UV-Visible Spectrophotometer.
- Heavy metal estimation with LC-ICP-MS.
- Regulatory Requirement as per ISO and GLP
- D.Technical Manager and Study Director in NABL and GLP accredited LAB

Some of the research highlights of our work as follows,

GC-MS/MS and LC-MS/MS methods for the analysis of pesticides residue and their risk assessment



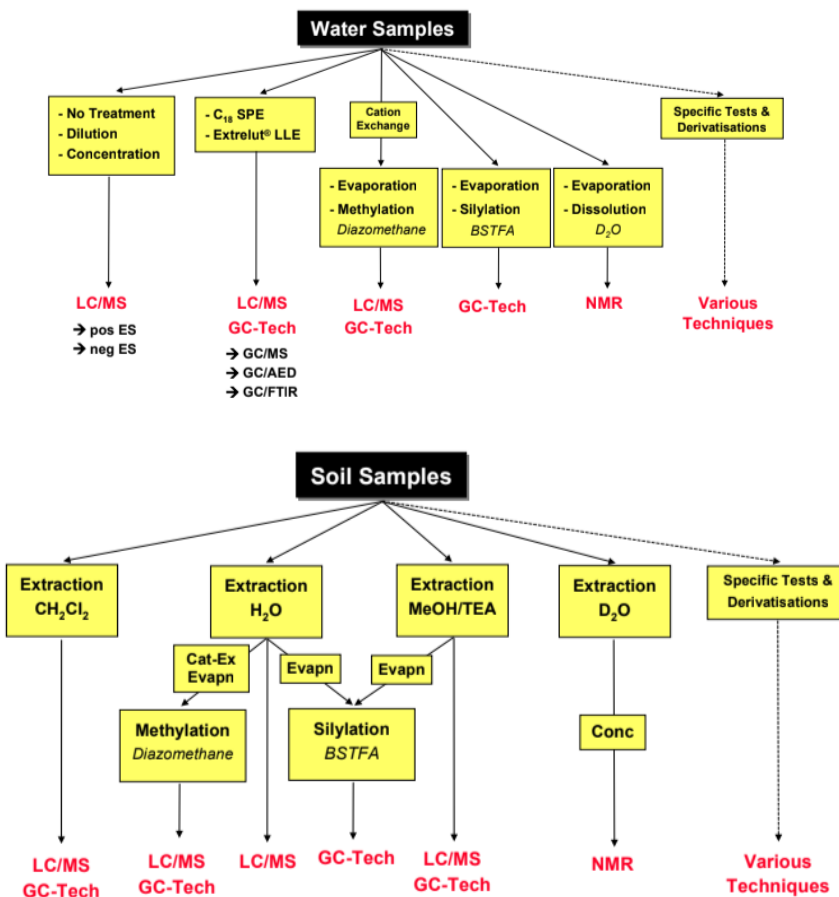
Modified QuEChERS (quick, easy, cheap, effective, rugged and safe) method for sample preparation and pesticide extraction.

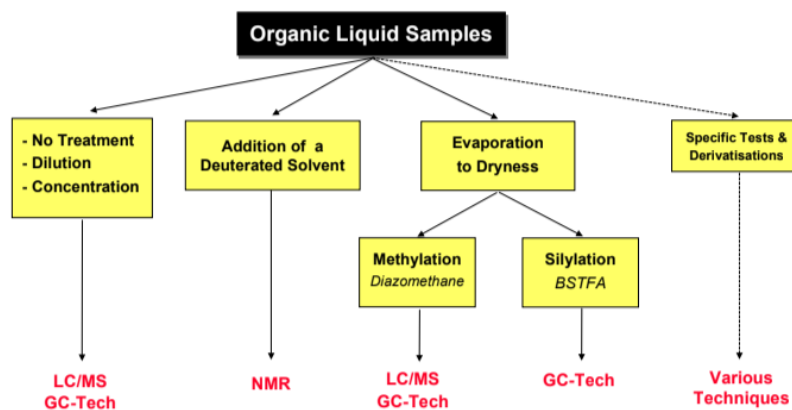


Handling High end Instrument for Analytical Testing and R&D Purpose



Sample Preparation and Analysis of CWC and other chemicals





Selected publications

- **Sudeep Mishra**, Mukesh K Singh, Mahesh K Saini, Samsul Alam, Lalitesh K Thakur, Irani Mukherjee and Jitendra Kumar, (2023). Temporal Assessment of Crop Protection Agents in Water Bodies of Haryana Districts, *Bhartiya Krishi Anusandhan Patrika*, Vol. 38 (3), page 250-266.
- **Sudeep Mishra**, Vikash, Mukesh K Singh, Mahesh K Saini, Shubham Bansal, Vineet K Pandey, Ajay Singh, Samsul Alam, Irani Mukherjee, Lalitesh K Thakur and Jitendra Kumar, (2023). Dissipation of Azoxystrobin 23% SC residue in/on chilli fruits and soil, *Agricultural Research Journal* . 60(1), 74-79.
- **Sudeep Mishra**, Samsul Alam, Vineet, K Pandey, Shubham Bansal, Vikash, Mansi Singh, and Lalitesh K Thakur, (2022). Dissipation of Lambda-cyhalothrin 5% EC on Brinjal Fruit Grown in Gurugram, Haryana, *Bhartiya Krishi Anusandhan Patrika*, 37 (4), 343-349.
- **Sudeep Mishra**, Mahesh Kumar Saini, Mukesh Kumar Singh, Samsul Alam, Lalitesh Kumar Thakur & Jitendra Kumar, (2022). Monitoring of pesticide residues in soil samples from agricultural field of Haryana, India, *International Research Journal of Agricultural Sciences and Veterinary Medicine*, 10 (2), 1-7.
- **Sudeep Mishra**, Mahesh Kumar Saini, Mukesh Kumar Singh, Samsul Alam, Lalitesh Kumar Thakur & Jitendra Kumar, (2022). Residual Contamination of Pesticides in Irrigation Water of Some of the Districts of Haryana, India, *International Research Journal of Agricultural Sciences and Veterinary Medicine*, 10 (1), 1-7.
- **Sudeep Mishra**, Samsul Alam, Mahesh Kumar Saini, Mukesh Kumar Singh, Akriti Agarwal and Lalitesh Kumar Thakur, (2021). Persistence behaviour of fipronil on grapes, *Agricultural Research Journal*, 58 (2) : 340-343.
- **Sudeep Mishra**, Neelam Richhariya, Rachana Rani, Lalitesh K. Thakur, Vikash, Vineet Kumar Pandey and Shubham Bansal, (2021). Uncertainty of Measurement During Estimation of 28 Pesticides Residue Present in bottle guard, *World Journal of Pharmaceutical Research* . , Vol-10(6), 1164-1176.
- **Sudeep Mishra**, Mukesh K. Singh, Mahesh K. Saini, Mangesh A. Pande, Vinod D. Doetale, Samsul Alam, Vivek Ahluwalia, B. S. Sherawat, Lalitesh K. Thakur,

(2021). Evaluation of Pesticide Residues in Vegetables from the Eight Districts of Haryana State (Northern India), International Journal of Agricultural Sciences and Veterinary Medicine, Vol(9), 28.

- **Sudeep Mishra**, Mahesh K Saini, Mukesh K Singh, Samsul Alam, Lalitesh K Thakur, Jitendra Kumar, (2021). Residual and health risk assessment of pesticides in commonly consumed vegetables of Panipat, Haryana, India, International Journal of Pharm Tech Research, 14(1), 74-89. SCI-0.36
- **Sudeep Mishra**, Akriti Agarwal, Neelam Richhariya, Lalitesh K. Thakur and Rachana Rani, (2019). Uncertainty of Measurement During Estimation of 23 Organophosphorus Pesticides Residue Present in Bottle Gourd, Journal of Forensic Chemistry and Toxicology, 5(2), 131-136.CIF-4.1
- **Sudeep Mishra**, Mukesh K Singh, Mahesh K Saini, Vikash, Samsul Alam, B S Schrawat and Lalitesh K Thakur 2019 Pesticide Residues in Vegetable, Soil and Water Samples Collected from Some Districts of Haryana. Agriculture Research Journal, 56 (2), 261-266. NAAS- 4.78
- **Sudeep Mishra**, Akriti Agarwal, Neelam Richhariya, Lalitesh K. Thakur and Rachana Rani 2019 Monitoring of pesticides residue in commonly consumed green vegetables of various Tehsils of Satna District, Madhya Pradesh (India) Agriculture Research Journal, 56(1), 56-63.NAAS-4.78

**Awards / Honours /
Affiliations**

- Best poster award at IUPAC Conference held at NAAS Complex New DELHI on April-2016.
 - Won consolation prize Camelin ink hand writing competition held on 16/09/1995 in Satna M.P conducted by Camelin ink Mumbai.
 - II and III Prizes in Hindi Nibandh Pratiyogita at NARAKAS; Bagmani Board Gurgaon during 30th Jan 2017. BSNL Gurgaon during Hindi Diwas Nibandh Pratiyogita 2015.
 - Ist prize in Hindi Essay writing at CCRAS, New Delhi during 2010, 2011, and IPFT during 2014, 2015, 2017, 2018, 2023
 - GATE SCORE CARD, 2011,2012,2013
 - Indian Pharmacopea Commission exam for the post of Scientific Officer
 - Samvida Sala Shiksha Parisha Warg-yek (PGT) VYAPAM Bhopal M.P in 2008
 - SSC Examination
 - Aligarh Muslim University, Research Eligibility Test.
 - Indraprastha University, Research Eligibility Test
 - Research Eligibility Test for U.P Universities
 - Research Eligibility test for Gautam Buddha Univ. Greater Noida
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