

RESUME

NAME: DR. DIPAK KUMAR HAZRA

DESIGNATION: ASSISTANT PROFESSOR (STAGE-II)



CONTACTS:

1. OFFICIAL ADDRESS FOR CORRESPONDENCE:

AINP on Pesticide
Residue Laboratory,
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Directorate of Research,
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2. PHONE : **Mobile:** 8159024819

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3.EMAIL : **Institutional:** hazra.dipak.kr@bckv.edu.in

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4.ORCID ID: <https://orcid.org/0000-0002-9566-3557>

5.GOOGLE SCHOLAR PROFILE: <https://g.co/kgs/uBj4kXd>

6.RESEARCHGATE PROFILE: <https://www.researchgate.net/profile/Dipak-Hazra>

7.DATE OF BIRTH: 12/05/1981

8.DATE OF JOINING TO THE UNIVERSITY: 06/06/2014

9. ACADEMIC PROFILE:

| LEVEL | NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT | INSTITUTE | YEAR OF PASSING |
|------------|--|---------------|-----------------|
| DOCTORAL | Ph.D. (Agricultural Chemicals) | B.C.K.V. | 2010 |
| MASTER'S | M.Sc. (Agricultural Chemicals) | B.C.K.V. | 2004 |
| BACHELOR'S | B.Sc. (Agriculture) | Visva-Bharati | 2002 |

10. EMPLOYMENT HISTORY:

| POSITION | ORGANIZATION | PERIOD | |
|-----------------------|--------------|-------------|------------|
| | | From (Date) | To (Date) |
| Assistant Professor | B.C.K.V. | 06.06.2014 | Till Date |
| Scientist-Formulation | I.P.F.T. | 30.03.2007 | 05.06.2014 |

11. ADMINISTRATIVE POST(S)/ RESPONSIBILITY(IES) (IF ANY)

| SL. NO. | NAME OF THE POST(S)/ RESPONSIBILITY(IES) | PERIOD | |
|---------|--|-------------|-----------|
| | | From (Date) | To (Date) |
| 1. | Provost | 09.02.2022 | Till Date |

12. AREA OF RESEARCH :

- Method development for pesticide residue analysis
- Formulation development of synthetic as well as biopesticides
- Characterization, bio-efficacy, management of agrochemicals
- Agrochemicals awareness campaign for the farmers
- NABL accreditation procedure

13. COURSES ASSOCIATED WITH:

| LEVEL | COURSE NO. | COURSE TITLE | CREDIT |
|---------------|------------|---|--------------------|
| UNDERGRADUATE | ELP 451 | Production of Bio-Agents and Botanical Pesticides | 0+20 Credit hrs |
| POST GRADUATE | AC 505 | Agrochemical Regulation, Quality Control and Management | 2+0 |
| | AC 507 | Agrochemicals for Disease Management | 2+1 |
| Ph.D. | AC 601 | Agrochemical Formulation Technology | 2+2 |

14. NUMBER OF STUDENTS SUPERVISED:

Master's: 03 **Doctoral:** 01

15. RESOURCE PERSON FOR OTHER INSTITUTES (involvement in teaching or working as member of academic/ research bodies of other organizations, if any)

- Research Advisor, IIIT, Kalyani
- Provided expert opinion to KRISHNA & SAURASTRI ASSOCIATES LLP, Mumbai for two patent related issues in 2018
- Provided expert opinion to NATCO PHARMA LTD for two patent related issues in 2023

16. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

- Society of Pesticide Science India (SPS India)
- Crop and Weed Science Society (CWSS)
- Society for Fertilizers and Environment (SFE)

17. PROJECT ACTIVITIES

| SL. NO. | TITLE OF THE PROJECT | FUNDING AGENCY | ONGOING/ COMPLETED | PI/ Co-PI |
|---------|--|--|--------------------|-----------|
| 1. | Monthly Monitoring of Recipient Drains of Grossly Polluting Industries/Industrial Clusters | Central Pollution Control Board, Ministry of Environment, Forests & Climate Change, Govt. of India | Completed | PI |
| 2. | Dissipation/Residue Studies of Monocrotophos 36% SL in Okra, Brinjal, Chilli and Onion | UPL Limited | Completed | PI |
| 3. | Evaluation of Residues/Dissipation of Flubendiamide 240+ Thiacloprid 240 SC in Tea | Bayer CropScience Ltd, | Completed | PI |
| 4. | Residue Analysis of Diafenthiuron 50% WP in Cabbage | Crystal Crop Protection Pvt. Ltd. | Completed | PI |
| 5. | Residue Analysis of Metribuzin 70% WP on Soybean and Wheat | Crystal Crop Protection Pvt. Ltd | Completed | PI |

18. CAPACITY BUILDING/FACULTY DEVELOPMENTPROGRAMME**A. ORGANIZED**

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|--|-----------------------|---|---------|
| 1. | Induction Training programme on pesticide residue analysis | 19.01.2015-20.03.2015 | Project Coordinating Cell, Pesticide Residue Laboratory, All India Network Project on Pesticide Residues, BCKV, Kalyani | Trainer |

B. ATTENDED

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|--|-------------------------|---|-------------|
| 1. | Refresher Training Programme on Pesticide Residue Analysis | 18th-22nd November 2014 | Project Coordinating Cell, Pesticide Residue Laboratory, All India Network Project on Pesticide Residues, IARI, New Delhi | Participant |
| 2. | Basic Techniques of Pesticide Formulations | February 15-21, 2016 | Institute of Pesticide Formulation Technology, Gurgaon, Haryana | Participant |
| 3. | Bioprospecting of Natural Resources for the Production of Biopesticide | March 15-19, 2021 | NAE, ICAR, New Delhi | Participant |

19. SEMINAR/ SYMPOSIUM/ WORKSHOP etc**A. ORGANIZED**

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|---|--|---------------------|-----------------|
| 1. | XV th Group Meeting of AINP on Agril Acarology | 10 th to 12 th December 2018 | FACC, BCKV, Kalyani | Hall Management |

B. ATTENDED

| SL. NO. | NAME OF THE PROGRAMME | DURATION | PLACE | ROLE |
|---------|--|----------------------------|---|-----------------------|
| 1. | 9 th Annual Workshop of Monitoring of Pesticide Residues at National Level (MPRNL). | 28 th May, 2015 | Kerala Agriculture University, Vellayani | Participant Scientist |
| 2. | 23 rd Annual Workshop of AINP on Pesticide Residues | 29 th May, 2015 | Kerala Agriculture University, Vellayani. | Participant Scientist |
| 3. | 4 th Congress on Insect Science “ Entomology for Sustainable | April 16-17, 2015 | Punjab Agricultural University, | Participant |

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| | Agriculture” | | Ludhiana. | |
| 4. | 10 th Annual Workshop of Monitoring of Pesticide Residues at National Level (MPRNL) | 25 th May, 2016 | Punjab Agriculture University, Ludhiana. | Participant Scientist |
| 5. | 24 th Annual Workshop AINP on Pesticide Residues | 26-27 th May, 2016 | Punjab Agriculture University, Ludhiana. | Participant Scientist |
| 6. | 3 rd International IUPAC Conference on APCHNE: New Chemistries for Phytomedicines and Crop Protection Chemicals | 6-9 April, 2016 | IARI, New Delhi | Poster Presenter |
| 7. | 1st Regional Science and Technology Congress, 2016, Presidency Division, West Bengal | 13-14th November, 2016. | NITTTR, Kolkata | Oral Presenter |
| 8. | International Symposium on “Eco – Efficiency in Agriculture & Allied Research (EEAAR 17)” | January 20-23, 2017. | Farmers’ Academy & Convention Centre (FACC), BCKV, Kalyani, Nadia, West Bengal, India | Poster Presenter |
| 9. | 11 th Annual Workshop of Monitoring of Pesticide Residues at National Level (MPRNL) | 22 nd September, 2017 | Anand Agricultural University, Anand. | Participant Scientist |
| 10. | 25 th Annual Workshop AINP on Pesticide Residues | 14-15 th July, 2017 | Sher-e- Kashmir University of Agricultural Science & Technology, Srinagar | Participant Scientist |
| 11. | 12 th Annual Workshop of Monitoring of Pesticide Residues at National Level (MPRNL) | July 12, 2018 | National Institute of Plant Health Management (NIPHM), Hyderabad | Participant Scientist |
| 12. | 26 th Annual Workshop of AINP on Pesticide Residues | 13th July, 2018 | Professor Jayashankar Telangana State Agricultural University (JTSAU), Hyderabad. | Participant Scientist |
| 13. | 27 th Annual Workshop of AINP on Pesticide Residues | 3 rd August, 2019 | KAU, Vellayni. | Participant Scientist |
| 14. | 13 th Annual Workshop of Monitoring of Pesticide Residues at National Level (MPRNL) | 2 nd August, 2019 | KAU, Vellayni. | Participant Scientist |
| 15. | Agriskills for Convergence in Research, Industry & Livelihood (ACRIL) | 28 th November-1 st December-2019 | Crop and Weed Science Society (CWSS), Bidhan Chandra Krishi Viswavidyalaya (BCKV) | Poster Presenter |
| 16. | 4th Regional Science & Technology Congress, 2019 | December 23–24, 2019 | Maulana Abul Kalam Azad University of Technology, nor the Department of Science & Technology and Biotechnology, | Oral Presenter |

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| | | | Government of West Bengal | |
| 17. | 28th Annual Workshop of AINP on Pesticide Residues | 22 nd July, 2020 | Webinar | Participant Scientist |
| 18. | Get-Set-Go: GC- Method Development | 9 th , 11 th and 15 th the December 2020 | Webinar series | Participant |
| 19. | 29th Annual Workshop of AINP on Pesticide Residues | 19 th July, 2021 | Webinar. | Participant Scientist |
| 20. | 14 th Annual Workshop of Monitoring of Pesticide Residues at National Level (MPRNL) | 18 th February, 2022 | Webinar. | Participant Scientist |
| 21. | Data management tools for researchers | 13 th July 2021 | Webinar. | Participant |
| 22. | RSC-IISER Desktop seminar with chemcomm | 6 th August 2021 | Webinar. | Participant |
| 23. | What is buzzing in the food world of honey | 28 th January 2022 | Webinar. | Participant |
| 24. | Shimadzu UFMS: Fast and Reliable Solution for Residual Pesticide Analysis | 14 th July 2021 | Webinar. | Participant |
| 25. | Free webinar: Encapsulation-A novel preservation technique | 17 th June, 2021 | Webinar. | Participant |
| 26. | High throughput sample preparation and analyses for trace residues in complex matrices | 19 th July 2022 | Webinar | Participant |
| 27. | Advances in Multifunctional Nanomaterials | 5-6 th May 2022 | Webinar | Participant |
| 28. | 15 th Annual Workshop of Monitoring of Pesticide Residues at National Level (MPRNL) | 23 rd February, 2023 | Webinar | Participant Scientist |
| 29. | Application of Nanotechnologies in Agriculture | 20 th January, 2023 | Agricultural Training Centre, Ramakrishna Mission Ashrama, Narendrapur along with SAMETI-West Bengal | Invited Speaker |
| 30. | 31st Annual Review Workshop of AINP on Pesticide Residues | October 9-11, 2023 | Sher-e-Kashmir University of Agricultural Sciences & Technology - Kashmir, Srinagar | Participant Scientist |

20. PATENTS/ HONOURS/ AWARDS/ RECOGNITION:

- **Patent Granted:** 01
- **Patent Application Filed:** 05
- Director's Awards-2011 (Director's Best Performance Award)

21. PUBLICATIONS


A. BOOK CHAPTERS (Best 10)

1. Botanical Based Pesticide Formulations in Women, Technology and Development, Padma Vasudeven, Satyawati Sharma, V.P. Sharma and Monica Verma (eds.), Narosa Publishing House (ISBN No. 978-8487-449-5)
2. Mondal, P.; Laishram, R.; Sarkar, P.; Kumar, R.; Karmakar, R.; Hazra, D.K.; Banerjee, K.; Pal, K.; Choudhury, A. Plant essential oil-based nanoemulsions: A novel asset in the crop protection arsenal. In *Agricultural Nanobiotechnology, Biogenic Nanoparticles, Nanofertilizers and Nanoscale Biocontrol Agents*; Ghosh, S., Thongmee, S., Kumar, A., Eds.; Woodhead Publishing Series in Food Science, Technology and Nutrition; Woodhead Publishing: Sawston, UK, 2022; pp. 325–353.

22. RESEARCH PAPERS (Best 10)

| Sl. No. | Full Reference | Year | NAAS Rating | ISSN |
|---------|--|------|-------------|-----------|
| 1 | Iqbal, N., Sharma, R., Hazra, D.K., Dubey, S., Kumar, N., Agrawal, A., & Kumar, J. (2021). Successful utilization of waste cooking oil in Neem oil based fungicide formulation as an economic and eco-friendly green solvent for sustainable waste management. <i>Journal of Cleaner Production</i> , 288, 125631. | 2021 | 17.10 | 0959-6526 |
| 2 | Smriti Kala, Amrish Agarwal, Krishna Kant, B.K. Mishra, Nisha Sogan, Natish Kumar, Chetan K.D. Jawle, Dipak Kumar Hazra, Jitendra Kumar (2023) An environmentally benign oil dispersion/phytoextract system for improved retention upon foliage and control of aphids in spice crops <i>Journal of Cleaner Production</i> 414 (2023) 137449 https://doi.org/10.1016/j.jclepro.2023.137449 | 2023 | 17.10 | 0959-6526 |
| 3 | Nusrat Iqbal, Selvamuthukumaran Thirunavukkarasu, Rama Krishna, Dipak Kumar Hazra, Chetan Jawale, Shubham Yadav, Samsul Alam, Sabyasachi Ghosh, Amrish Agrawal, and Jitendra Kumar Environmentally Benign Design of Renewable Oleoresin-Bioenergized Imidacloprid Nanohydrocolloids for Improved Activity, Lower Toxicity, and Agroecological Sustainability; <i>ACS Sustainable Chem. Eng.</i> 2023, 11, 42, 15480–15491 https://doi.org/10.1021/acssuschemeng.3c05105 | 2023 | 14.4 | 2168-0485 |
| 4 | Nusrat Iqbal, Dipak Kumar Hazra, Alope Purkait, Amrish Agrawal, Mahesh Kumar Saini, and Jitendra Kumar (2023) Eco-Oriented Formulation and Stabilization of Oil-Colloidal Bidelivery Systems Based on GC-MS/MS-Profiled Phytochemicals from Wild Tomato for Long-Term Retention and Penetration on Applied Surfaces for Effective Crop Protection, <i>Journal of Agricultural and Food Chemistry</i> 2023 71 (8), 3719-3731 DOI: 10.1021/acs.jafc.2c08612 | 2023 | 12.10 | 0021-8561 |
| 5 | Alope Purkait, Dipak Kumar Hazra, Ramen Kole, Swagata Mandal, Sudip Bhattacharya, and Rajib | 2024 | 12.10 | 0021-8561 |

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| | Karmakar; (2024) Harnessing the Carrier Solvent Complexity of Crop Biostimulant Liquid Formulations Using Locally Available Transesterified Waste Cooking Oil: Economic Recycling, Solvent Performance, and Bioefficacy Evaluation <i>Journal of Agricultural and Food Chemistry</i> 2024 72 (2), 1017-1024; DOI: 10.1021/acs.jafc.3c06167 | | | |
| 6 | Iqbal N, Hazra DK, Purkait A, Agrawal A, Kumar J. Bioengineering of neem nano-formulation with adjuvant for better adhesion over applied surface to give long term insect control. <i>Colloids Surf B Biointerfaces</i> . 2022 Jan;209(Pt 2):112176. doi: 10.1016/j.colsurfb.2021.112176 | 2022 | 11.80 | 0927-7765 |
| 7 | Bhattacharyya S, Poi R, Mandal S, Baskey Sen M, Hazra DK, Saha S, Karmakar R. Method development, validation, monitoring, seasonal effect and risk assessment of multiclass multi pesticide residues in surface and ground water of new alluvial zone in eastern India. <i>Environ Sci Pollut Res Int</i> . 2022 Mar;29(12):17174-17187. doi: 10.1007/s11356-021-16959-9 | 2022 | 11.80 | 0944-1344 |
| 8. | N Sanyal, D Hazra, R Pal, AK Somchaudhury, A Chowdhury Imidacloprid in processed tea and tea liquor <i>Journal of Zhejiang University Science B</i> 7, 619-622 | 2006 | 11.10 | 1673-1581 |
| 9 | Sudip Bhattacharyya , Rajlakshmi Poi, Moni Baskey Sen , Dipak Kumar Hazra, Rajarshi Ghosh, Swagata Mandal, Rajib Karmakar (2022) Establishment of modified QuEChERS-GC-MS-LC-MS/MS method for simultaneous screening of multi-class multi-pesticide residues in betelvine and consumer risk assessment; <i>Microchemical Journal</i> 179 (107444), 1-9 https://doi.org/10.1016/j.microc.2022.107444 | 2022 | 10.8 | 0026-265X |
| 10 | Swagata Mandal , Rajlakshmi Poi , Dipak Kumar Hazra , Sudip Bhattacharyya, Hemanta Banerjee , Rajib Karmakar (2022) Assessment of variable agroclimatic impact on dissipation kinetics of ready-mix fungicide formulation in green chili for harmonization of food safety <i>Journal of Food Composition and Analysis</i> 110, 104541 https://doi.org/10.1016/j.jfca.2022.104541 | 2022 | 10.30 | 0889-1575 |

 Hazra
02.05.2024