RESUME

NAME: DR. DIPAK KUMAR HAZRA
DESIGNATION: ASSISTANT PROFESSOR (STAGE-II)

CONTACTS:

1. **OFFICIAL ADDRESS FOR CORRESPONDENCE:**

AINP on Pesticide Residues & Contaminants,
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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

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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)/ RESPONSIBILIY(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, validation and residue analysis (quantitatively & qualitatively) of pesticides in different matrices like crop, soil, water etc.
- Photochemistry and degradation of different chemicals in different environments.
- Working essentially on projects sponsored by Pesticide Industries (national & international).

- Development of environmentally safe & user-friendly pesticide formulation (WG, SC, ME, EW, CS etc.).
- Development of tailor-made formulations of specific pesticides as per requirements.
- Development of controlled release formulations through micro & nano-encapsulation technologies.
- Testing of different physic-chemical parameters of pesticide formulations according to BIS norms
- Establishing, implementing and maintaining quality system in accordance with ISO/IEC 17025:2017.

13. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
Undergraduate	ELP 451	Production of 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. 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

16. CAPACITY BUILDING/FACULTY DEVELOPMENTPROGRAMME ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1.	Induction Training	19.01.2015-	AINP on Pesticide Residues,	Trainer

	programme on pesticide residue analysis	20.03.2015	BCKV, Kalyani	

17. SEMINAR/ SYMPOSIUM/ WORKSHOP ORGANIZED

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

18. PATENTS/ HONOURS/ AWARDS/ RECOGNITION:

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

19. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY

NA

20. PUBLICATIONS

BOOKS

NA

RESEARCH PAPERS (Best 10)

1. Aloke Purkait, **Dipak Kumar Hazra**, Ramen Kole, Swagata Mandal, Sudip Bhattacharrya, and Rajib 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 *Journal of Agricultural and Food Chemistry* 2024 *72* (2), 1017-1024; DOI: 10.1021/acs.jafc.3c06167

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 Journal of Cleaner Production 414 (2023) 137449 https://doi.org/10.1016/j.jclepro.2023.137449

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; ACS Sustainable Chem. Eng. 2023, 11, 42, 15480–15491 https://doi.org/10.1021/acssuschemeng.3c05105

4. Nusrat Iqbal, **Dipak Kumar Hazra**, Aloke Purkait, Amrish Agrawal, Mahesh Kumar Saini, and Jitendra Kumar (2023) Eco-Oriented Formulation and Stabilization of Oil–Colloidal Biodelivery Systems Based on GC-MS/MS-Profiled Phytochemicals from Wild Tomato for Long-Term Retention and Penetration on Applied Surfaces for Effective Crop Protection, *Journal of Agricultural and Food Chemistry* 2023 *71* (8), 3719-3731 DOI: 10.1021/acs.jafc.2c08612

5. 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. Colloids Surf B Biointerfaces. 2022 Jan;209(Pt 2):112176. doi: 10.1016/j.colsurfb.2021.112176

6. 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. Environ Sci Pollut Res Int. 2022 Mar;29(12):17174-17187. doi: 10.1007/s11356-021-16959-9

7. 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; Microchemical Journal 179 (107444), 1-9 https://doi.org/10.1016/j.microc.2022.107444

8. 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 Journal of Food Composition and Analysis 110, 104541 https://doi.org/10.1016/j.jfca.2022.104541

9. 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. Journal of Cleaner Production, 288, 125631.

10. N Sanyal, **D Hazra**, R Pal, AK Somchaudhury, A Chowdhury Imidacloprid in processed tea and tea liquor, Journal of Zhejiang University Science B 7, 619-622