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## **Dr. Deepak Kumar Jaiswal, Ph.D., Specialist (Bioscience)**

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### **Academic background**

#### **Education:**

- Ph.D in Entomology and Agricultural Zoology (2019): Banaras Hindu University, Varanasi (U.P.)  
(Advisor: Prof. S.V.S Raju)
- M.Sc. (Ag.) in Entomology and Agricultural Zoology (2011): Banaras Hindu University, Varanasi (U.P.)  
(Advisor: Prof. Janaradan Singh)
- B.Sc. in Agriculture (2009): UPAC, Varanasi (U.P.)

#### **Professional:**

- February 2022 to present: Specialist (Bioscience) Institute of Pesticide Formulation Technology (IPFT), Gurugram, India.
- November 2018 – Jan, 2022: Assistant Professor cum Junior Scientist in Department of Agricultural Entomology, Birsa Agricultural University, Ranchi, Jharkhand.

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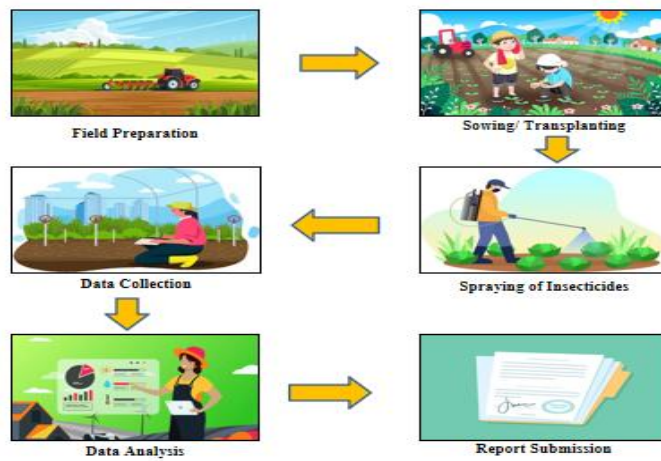
### **Research Interests**

Bioscience is a specific field of science that combines the knowledge of physical, chemical, and biological sciences to better understand and analyse living organisms. Through Bioefficacy and Bioassay studies, it is easy to analyse and interpret data and identify patterns in the bio-evaluation of agrochemicals and their phytotoxic behaviour on plants/crops. The major thrust is to evaluate the different pesticide formulations developed by this institute for their commercial viability, as in house services and sponsor's studies, through well-equipped bio-assay laboratory, green house/glass house and experimental field trials. Our primary research interests focused on

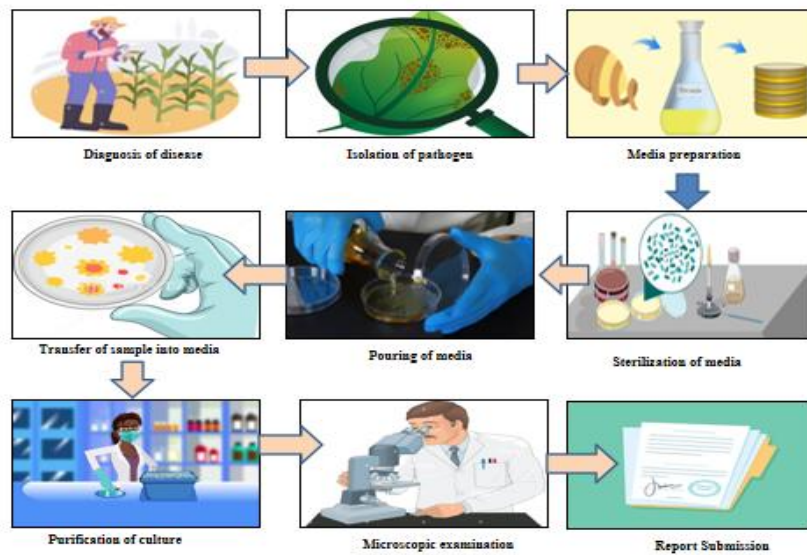
- Bioassay studies of pesticides through laboratory trials
- Bioefficacy studies of different pesticides formulations through field trials.
- Phytotoxicity and Phytotoxicity studies
- Compatibility studies of pesticides
- Effect of pesticides on natural enemies
- Pesticide persistence and residue studies.
- Consultancy services for integrated pest management practices in major economic crops.
- Extension activities in collaboration with KVK's/ Farmer's workshop to agrarian society and students regarding organic and sustainable farming.

Some of the research highlights of our work as follows,

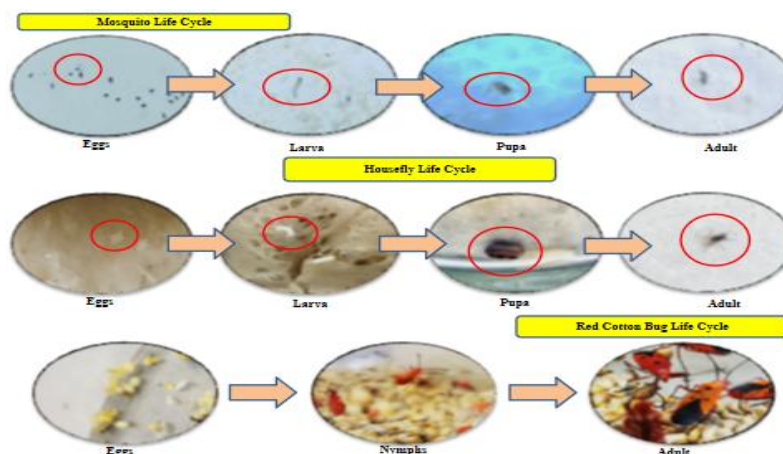
### **Bioefficacy, Phytotoxicity and impact on natural enemy study flowchart for agrochemicals**



### **Bioassay and plant pathological studies for any pesticides**



## Maintenance of Nucleus culture of Mosquito, Housefly and Red Cotton bug for laboratory studies



### Selected publications

- **Deepak Kumar Jaiswal**, Jitendra Kumar, Giriraj Char and Sanjay Kumar. Enhancement of bio-efficacy of insecticides on spray tank mixing with Wetcit surfactant on chilli crop. **Journal of Eco-friendly Agriculture**. 2023;18(2): 310-313. (NAAS: 5.36 )
- Singh, Deo Narayan; Bohra, Jitendra Singh; Dubey, Tej Pratap; Shivahare, Pushp Raj; Singh, Ram Kumar; Singh, Tejbal; **Jaiswal, Deepak Kumar**. Common Foods for Boosting Human Immunity: A Review. **Food Science & Nutrition**. 2023;00:1–14.(IF: 3.553 )
- **Deepak Kumar Jaiswal**, S.V.S. Raju, Dinesh Kumar and Kamal Ravi Sharma. Studies on life history and host preference of pulse beetle, *Callosobruchus chinensis* (L.) on different pulses. **Journal of Entomological Research**.2019; 43(2): 159-164. (NAAS: 5.63)
- **Deepak Kumar Jaiswal**, SVS Raju, Dharendra Kumar Singh and Vaibhav Singh. Evaluation of some seed protectants against pulse beetle, *Callosobruchus chinensis* (L.) in stored chickpea seeds under laboratory conditions. **The Pharma Innovation Journal**.2019;8(3): 188-192. (NAAS: 5.23)
- Komal Singh, Ebenezer Jeyakumar, J.P. Singh and **Deepak Kumar Jaiswal**. Combined Effect of *Pseudomonas aeruginosa* MCCB 0035 with NPK on Growth and Yield Attributes of Cabbage (*Brassica oleracea* L. var. capitata). **Biological Forum – An International Journal**. 2022;14(3): 1252-1258. (NAAS: 4.96 )

### Awards / Honours / Affiliations

- UGC Research Fellowship from Banaras Hindu University, Varanasi for pursuing Ph.D. programme.
- Rajiv Gandhi National Fellowship (UGC) JRF and SRF Fellowship for pursuing Ph.D. programme.
- Certificate of Excellence in peer-reviewing of "Uttar Pradesh Journal of Zoology".
- Certificate of Editorial Board Membership for American

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Journal of Entomology (AJE).

- Scientist Associate Award in Society for Scientific Development in Agriculture and Technology, Meerut, U.P. (India).
  - Conferred with several oral/poster and best paper awards in various seminar/symposium/conferences.
  - Received several institutional awards for multiple activities.
  - Gold medal in undergraduate program.
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