

Name: **Dr. Vinod Kumar Chauhan**

Date of Birth: **07.06.1988**

Designation: **Assistant Professor**

Date of Joining: **04.01.2021**

Department/Institute/University:

**Department of Zoology.  
Siksha Bhavana (Institute of Science)  
Visva-Bharati (A Central University)  
Santiniketan – 731 235  
Birbhum, West Bengal, INDIA**



Email address: [vinodkumar.chauhan@visva-bharati.ac.in](mailto:vinodkumar.chauhan@visva-bharati.ac.in) / [vkc0706@gmail.com](mailto:vkc0706@gmail.com)

Contact No: +91 7893969230/ 6301538015

### **Areas of Research**

- Insect Molecular biology & Physiology; Integrated pest management
- My laboratory at present focusing on “Development of molecular marker-based technology for early detection of Pébrine disease in *Bombyx mori*”.

### **Ongoing Research Project**

- DST-SERB Start-up grant (SRG/2021/000936; dated: 23/12/2021)

### **Education**

- **Doctor of Philosophy** (August 2012 – January 2018), University of Hyderabad, Hyderabad, Telangana, India  
Thesis: “Larval mid-gut responses against sublethal dosages of Cry toxins in Lepidopteran pest, *Achaea janata*”
- **Master of Sciences** (July 2009 – August 2011), University of Mysore, Mysuru, Karnataka, India
- **Bachelor in Science** (June 2006 - May 2009, Osmania University, Hyderabad, Telangana, India.

### **Additional qualifications**

- Certificate course in Bioinformatics (2011)
- Add-on Course in Cheminformatics in the academic year 2007-2008

### **Academic/ Research experience**

- Joined as Assistant Professor, Visva-Bharati since 04.01.2021-till date
- Post-doctoral Research Associate at University of Hyderabad (01.02.2018-31.12.2020).

### Teaching

- Masters' courses: Genetics and Molecular Biology, Methods in Biology, Immunology, Comparative Endocrinology & Physiology.
- Bachelors' courses: Invertebrates, Immunology, Molecular Biology, Insect vector and diseases, Animal cell Biotechnology.

### Research Guidance

- Ph.D=0
- Masters' dissertation = 4

### Member of Society

- Life Member - Indian Society for Comparative Endocrinology

### Publications

1. Gurmeet Bali, Sanjay Singh, Vinod Chauhan, Neha Joshi, Firdous Bhat, Waseem Malla, Boman Ramanujam, Richa Varshney, Manpreet Bali, and Radhkrishnan Pandit **(2022)**. An insight in proteome profiling of *Tuta absoluta* larvae after entomopathogenic fungal infection. **Scientific Data** (#SDATA-21-01250C)  
\*Accepted for publication
2. Vinod K. Chauhan, Narender K. Dhanias, Vadthya Lokya, Bhoopal Bhuvana chandra, Kollipara Padmasree, Aparna Dutta-Gupta **(2021)**. Midgut aminopeptidase N expression profile in castor semilooper (*Achaea janata*) during sublethal Cry toxin exposure. **Journal of Biosciences**, 46:29, DOI: 10.1007/s12038-021-00148-4 (Impact factor: 1.827)
3. Narender K. Dhanias, Vinod K. Chauhan, Dasari Abhilash, Vivek Thakur, R.K. Chaitanya, Shourya Dutta-Gupta Aparna Dutta-Gupta **(2021)**. Gut-specific arylphorin mediates midgut regenerative response against Cry-induced damage in *Achaea janata*. **Comparative Biochemistry and Physiology - Biochemistry & Molecular Biology**, 255(1):110600 DOI: 10.1016/j.cbpb.2021.110600. (Impact factor: 2.231)
4. Narender K. Dhanias, Vinod K. Chauhan, R.K. Chaitanya and Aparna Dutta-Gupta **(2019)**. RNA-Seq analysis and *de novo* transcriptome assembly of Cry toxin susceptible and tolerant *Achaea janata* larvae. **Scientific Data**, 22;6(1):159. DOI: 10.1038/s41597-019-0160-0. (Impact factor: 6.444)
5. Narender K. Dhanias, Vinod K. Chauhan, R.K. Chaitanya and Aparna Dutta-Gupta **(2019)**. Midgut *de novo* transcriptome analysis and gene expression profiling of *Achaea janata* larvae exposed with *Bacillus thuringiensis* (Bt)-based biopesticide formulation. **Comparative Biochemistry and Physiology - Proteomics and Genomics**, 30(10) DOI: 10.1016/j.cbd.2019.02.005. (Impact factor: 2.231.)
6. Vantaku, Venkatrao, Vinod K. Chauhan, Narender K. Dhanias, Balasubramanian

- Senthilkumaran, and Aparna Dutta-Gupta (2019). Validation of reference gene(s) for quantitative gene expression profiling using rice moth, *Corcyra cephalonica* as a model. **Gene Reports**, 2019, 14,25-29. DOI: 10.1016/j.genrep.2018.10.007. (Impact factor: 0.72)
7. Vinod K. Chauhan, Narender K. Dhanias, R. K. Chaitanya, Balasubramanian Senthilkumaran and Aparna Dutta-Gupta (2017). Larval midgut responses to sub-lethal dose of Cry toxin in lepidopteran pest *Achaea janata*. **Frontiers in Physiology**, 8: 662/ DOI: 10.3389/fphys.2017.00662. (Impact factor: 4.566)
  8. Vinod K. Chauhan, Narender K. Dhanias, Pavani Ayinampudi, Chaitanya, R.K, Aparna Dutta-Gupta (2017). Fat body remodelling in *Spodoptera litura* (Lepidoptera: Noctuidae) during post embryonic development. **Entomon**, 42(4), 259-268.
  9. Ningshen, Thurei J., Vinod K. Chauhan, Narender K. Dhanias, and Aparna Dutta- Gupta (2017). Insecticidal effects of hemocoelic delivery of *Bacillus thuringiensis* Cry toxins in *Achaea janata* larvae. **Frontiers in Physiology**, 2017, 8:289, DOI:10.3389/fphys.2017.00289. (Impact factor: 4.566)
  10. Ayinampudi Pavani, R.K. Chaitanya, Vinod K. Chauhan, Anwesha Dasgupta, Aparna Dutta Gupta (2015). Differential oxidative stress responses in castor semilooper, *Achaea Janata*. **Journal of Invertebrate Pathology**, 132, 157-164. DOI: 10.1016/j.jip.2015.10.002. (Impact factor: 2.841)

#### Awards/Honours/Fellowships

- 2017: National Eligibility of Lectureship (UGC/NET) In Life Sciences
- 2014: Senior Research Fellowship (DBT-SRF)
- 2012: Junior Research Fellowship (DBT-JRF)
- 2012: Andhra Pradesh state Eligibility test (APSET-2012) In Life Sciences
- 2012: GATE (Life Sciences)
- 2010: Indian Academy of Sciences (IAS), Bangalore Summer Research Fellowship
- 2009: JNU- CEEB (Biotechnology).
- 2008: Louis Pasteur Research Award For the year 2007-08 for excellence in Microbiology Research from Nizam College, Osmania University, Hyderabad

#### Training/Workshops

- Participated National level hands on workshop on CRISPR-Cas9, held at SRM-DBT Platform for Advanced Life Sciences Technologies, SRM University, Chennai from March 6- 8,2019.
- Participated in DST-SERB School on Chemical Ecology held at National

centre for Biological Sciences (NCBS), TIFR, Bangalore from February 17-28, 2014.

- Attended Genomics training workshop for quantitative PCR and Microarray at School of Life Sciences, University of Hyderabad, Hyderabad from August 27-30, 2012.

### **Conference presentation**

- 6th Asian Lepidoptera Conservation Symposium (17-21 September, 2019), Zoological Survey of India, Kolkata, West Bengal, India
- International conference on entomology (3-5 December, 2016), Punjabi University, Patiala, Punjab, India.
- International Symposium on Comparative endocrinology and Integrative Physiology (August 4-7, 2015), University of Kerala, Thiruvananthapuram, Kerala, India.
- International Conference on Comparative Endocrinology and Physiology. (October 21-23, 2013). RTM University, Nagpur, India.
- 82nd Annual meeting of The Society of Biological Chemists (India) (December 2-5, 2013) at University of Hyderabad, Telangana, India
- 95th Indian Science Congress (3-7, January, 2008) at Andhra University, Visakhapatnam, Andhra Pradesh, India.

### **Resource Personnel**

- Participated as Resource personnel (Molecular Biology) in DST –SERB School in Insect Biology held at University of Hyderabad, Hyderabad (2015), Punjabi University, Patiala (2016), St. Joseph's College Devagiri, Calicut University (2017)

### **Public domain links**

Google Scholar:

<https://scholar.google.com/citations?user=gT3SMrQAAAAJ&hl=en>

Research Gate: <https://www.researchgate.net/profile/Vinod-Chauhan-2>

VIDWAN: <https://vidwan.inflibnet.ac.in/profile/200173>.