Name: **Dr. Vinod Kumar Chauhan** Designation: **Assistant Professor** Department/Institute/University:

Department of Zoology.
Siksha Bhavana (Institute of Science)
Visva-Bharati (A Central University)
Santiniketan – 731 235
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VIDWAN: https://vidwan.inflibnet.ac.in/profile/200173.

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 (PG): Genetics and Molecular Biology, Immunology,
 Methods in Biology, Comparative Endocrinology and Animal Physiology
- Bachelors' courses (UG): Invertebrates zoology, Immunology, Molecular Biology, Insect vector and diseases, Animal cell Biotechnology
- Skill Enhancement courses (UG): Sericulture and Apiculture; Instrumentation and Laboratory techniques.
- Multidisciplinary courses (UG): Applied Zoology
- Ph.D coursework: Research Methodology

Areas of Research

- Insect Molecular Biology and Physiology
- Integrated Pest Management
- Invertebrate Pathology
- Insect genomics and proteomics
- Ameliorative effects of Insect by-products in non-communicable diseases (NCDs).

Research Guidance

- Ph.D=2 (Ongoing)
- Masters' dissertation = 13

Research Project

(List of projects implemented/being implemented)

Project Title	Funding Agency	Duration	Sanction Cost	Role	Status
	Agency		Cost		
Identification and	SERB, Govt. of	2021-23	Rs (₹)-	PI	Completed
Characterization of molecular	India (start-up	(24 months)	28,71,000/-		
marker(s) for early detection of	grant project)				
pebrine disease in <i>Bombyx mori</i>					
Identification and	DDHR-GIA	2023-26	Rs (₹)-	Co-PI	Ongoing
Characterization of		(36 months)	45,05,280/-		
thermoplastic-degrading					
enzymes from the stored grain					
pest, Corcyra cephalonica					

Publications

(List of papers published in SCI Journals, in year wise descending order)

Sl.	Title and Year of Publication	Name of Journal	Link to the article
No			
01	Transcriptomic analysis of <i>Bombyx mori</i> in its early larval stage (2 nd instar) of development upon <i>Nosema bombycis</i> transovarial infection. (2024)	Journal of Invertebrate Pathology I.F: 2.4	https://doi.org/10.1016 /j.jip.2024.108157
02	An insight in proteome profiling of <i>Tuta absoluta</i> larvae after entomopathogenic fungal infection. (2022)	Scientific Data I.F: 6.9	https://doi.org/10.1038 /s41597-022-01593-y
03	Gut-specific arylphorin mediates midgut regenerative response against Cry-induced damage in <i>Achaea janata</i> . (2021)	Comparative Biochemistry and Physiology – Biochemistry & Molecular Biology I.F: 1.8	https://doi.org/10.1016 /j.cbpb.2021.110600

04	Mid-gut aminopeptidase N expression profile in Castor semilooper (<i>Achaea janata</i>) during sublethal Cry toxin exposure.(2021)	Journal of Biosciences I.F: 2.1	DOI: 10.1007/s12038- 021-00148-4
05	RNA-Seq analysis and <i>de novo</i> transcriptome assembly of Cry toxin susceptible and tolerant <i>Achaea janata</i> larvae (2019)	Scientific Data I.F: 6.9	https://doi.org/10.1038 /s41597-019-0160-0
06	Midgut de novo transcriptome analysis and gene expression profiling of <i>Achaea janata</i> larvae exposed with <i>Bacillus thuringiensis</i> (Bt)-based biopesticide formulation. (2019)	Comparative Biochemistry and Physiology- Part-D (Genomics & Proteomics) I.F: 2.4	doi:10.1016/j.cbd.2019. 02.005.
07	Validation of reference gene(s) for quantitative gene expression profiling using rice moth, <i>Corcyra cephalonica</i> as a model (2019)	Gene Reports I.F: 1.0	https://doi.org/10.1016 /j.genrep.2018.10.007
08	Fat body remodelling in <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) during post embryonic development (2017)	Entomon NAAS rating: 5.24	https://entomon.in/in dex.php/Entomon/arti cle/view/325
09	Larval Mid-Gut Responsesto Sub-Lethal Dose of CryToxin in Lepidopteran Pest, Achaea janata (2017)	Frontiers in Physiology (Invertebrate physiology) I.F:3.4	DOI:10.3389/fphys.201 7.00662
10	Insecticidal effects of hemocoelic delivery of <i>Bacillus thuringiensis</i> Cry toxins in <i>Achaea janata</i> larvae. (2017)	Frontiers in Physiology (Invertebrate physiology) I.F:3.4	DOI:10.3389/fphys.201 7.00289
11	Differential oxidative stress responses in castor semilooper, <i>Achaea janata</i> . (2015)	Journal of Invertebrate Pathology I.F: 2.4	https://doi.org/10.1016 /j.jip.2015.10.002
Sl. No	Chapter Title	Book Title	Publisher and ISBN
01	Insect resistance towards <i>Bacillus</i> thuringiensis toxins (2023)	Recent trends in Insect pest Management (Vol:10)	Akinik publications ISBN: 978-93-5570- 909-7
02	Bacillus thuringiensis (Bt) toxin and their mode of action in agricultural pest as potential biopesticides (2023)	Advances in Agricultural Entomology (Vol:23)	Akinik publications ISBN: 978-93-5570- 711-6

Public domain links

Google Scholar:

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

Research Gate:

https://www.researchgate.net/profile/Vinod-Chauhan-2

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 center for Biological Sciences (NCBS), TIFR, Bangalore from February 17-28, 2014.
- Attended Genomics training workshop for quantitative PCR and Microarray at Schoolof Life Sciences, University of Hyderabad, Hyderabad from August 27-30, 2012.

Conference presentation (Invited/oral/poster)

- National Seminar on Recent Advances in Animal Scienc(7-8 th, March, 2024) haled at Department of Zoology, Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan.
- 6th Asian Lepidoptera Conservation Symposium (17-21 September, 2019),
 ZoologicalSurvey 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, Thiruvanathapuram, Kerala, India.
- International Conference on Comparative Endocrinology and Physiology. (October21-23, 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)

Member of Society

• Life Member - Indian Society for Comparative Endocrinology

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