



Ms. Prem Lata

Assistant Professor of Zoology

M.Sc. | CSIR-NET Qualified |

Teaching Experience: 8 Years

IGNOU Counsellor

PROFESSIONAL PROFILE

Prem Lata is an Assistant Professor of Zoology with eight years of teaching experience and academic training in Zoology, including M.Sc. and CSIR-NET qualification. Her major academic and research interests include molecular biology, cytogenetics, phylogenetics and insect taxonomy. Her recent research focuses particularly on the molecular phylogeny, genetic divergence and taxonomic understanding of Acrididae grasshoppers from the Western Himalaya. She has contributed research papers and book chapters in the areas of insect phylogenetics, biodiversity conservation, environmental toxicology, immunotoxicogenomics, biomedical waste management and therapeutic applications of honey.

ACADEMIC & RESEARCH SNAPSHOT

Designation	Assistant Professor of Zoology
Academic Qualifications	M.Sc.; CSIR-NET Qualified
Teaching Experience	8 Years
Specialization / Areas of Interest	Molecular Biology; Cytogenetics; Phylogenetics; Insect Taxonomy
Additional Academic Role	IGNOU Counsellor

RESEARCH INTERESTS

Core areas: Molecular Biology • Cytogenetics • Phylogenetics • Insect Taxonomy

Current research emphasis: Mitochondrial-marker-based phylogenetic reconstruction and genetic divergence of Acrididae from the Western Himalaya, with emphasis on COI and 16S rRNA markers.

SELECTED PUBLICATIONS & BOOK CHAPTERS

- Lata, P., Katnoria, N., Hajam, Y.A. and Saini, K. (2025). Phylogenetic delimitation of Western Himalayan band-winged grasshoppers (Oedipodinae) based on molecular insights. *Journal of Entomological Research*, 49(Suppl), 1307–1312.
- Lata, P., Katnoria, N. and Hajam, Y.A. (2025). Phylogenetic reconstruction and genetic divergence of Catantopinae (Acrididae) from western Himalaya using mitochondrial markers. *International Journal of Zoological Investigations*, 11(2), 291–298.
- Gulzar, O., Hajam, Y.A., Bhatti, N. and Lata, P. (2025). Recent development and new opportunities in immunotoxicogenomics. In *Immunotoxicogenomics* (pp. 115–148). Academic Press.

- Katnoria, N., Walia, G.K., Kumar, R., Somal, D.S., Lata, P. and Daroch, N. (2025). Hunting, habitat destruction, and human fun as potential threat to Himalayan diversity. In Biodiversity of the Himalaya (pp. 261–278).
- Lata, P. and Hajam, Y.A. (2025). Biomedical wastes and associated risks. In Biomedical Waste Management (pp. 61–83). Apple Academic Press.
- Lata, P., Hajam, Y.A., Kumar, A. and Kumar, R. (2025). Conservation strategies for threatened faunal diversity of Himachal Pradesh. In Biodiversity of the Himalaya (pp. 101–120). Apple Academic Press.
- Hajam, Y.A. and Lata, P. (2025). Management of biomedical wastes. In Biomedical Waste Management (pp. 85–105). Apple Academic Press.
- Premlata, Kumar, R., Hajam, Y.A. and Giri, A. (2024). Threats, challenges, and conservation strategies of Himalayan faunal biodiversity. In R.C. Sobti (Ed.), Role of Science and Technology for Sustainable Future. Springer, Singapore.
- Lata, P., Hajam, Y.A. and Kumar, R. (2024). Honey as wound dressing and healing agent. In Honey (pp. 127–147). CRC Press.
- Lata, P., Hajam, Y.A. and Singh, S. (2023). Microbial enzymes and their importance in environmental decontamination. In Microbial Bioremediation. Springer, Cham.
- Lata, P., Hajam, Y.A., Kumar, R. and Rai, S. (2023). Endocrine-disrupting activity of xenobiotics in aquatic animals. In Xenobiotics in Aquatic Animals. Springer, Singapore.
- Hajam, Y.A., Lata, P. and Bhat, R.A. (2023). Mechanistic approach of various endocrine toxicants. In Environmental Endocrine Toxicants (pp. 121–143). Apple Academic Press.
- Lata, P. and Hajam, Y.A. (2023). Endocrine toxicants and reproductive health of males and females. In Environmental Endocrine Toxicants (pp. 259–292). Apple Academic Press.
- Hajam, Y.A., Premlata, Rani, R., Sharma, R., Sharma, P. and Kumar, R. (2022). Immunogenetic mechanism driving neurological and neurodegenerative disorders. In Clinical Applications of Immunogenetics (pp. 219–244). Academic Press.

CONFERENCE PRESENTATIONS, CONFERENCES & WORKSHOPS

Category	Details
Poster Presentation	“Survey of Grasshoppers of Himachal Pradesh (Orthoptera: Acrididae)” — National Conference on Role of Science and Technology in Environment Conservation and Sustainable Development, Himachal Pradesh University, in collaboration with NITI Aayog and DEST–H.P., 23–24 September 2022.
Conference	International Conference on Emerging Scenario of Science, Technology and Innovation-2023, Career Point University, Hamirpur, 24–25 February 2023.
Hands-on Workshop	Adoption of Smart Agro-Technologies 2023, Career Point University, Hamirpur, in collaboration with NIT Hamirpur & HM Group, 18–19 February 2023.
E-Workshop	Basics of Bioinformatics, Biosristhi, 6–8 December 2023.
E-Workshop	Data Analysis with SPSS, Commacad, 9–10 December 2023.
E-Workshop	Bibliometric Analysis using R-Studio and VOSviewer, Commacad, 17 December 2023.

Category	Details
Conference	National Conference on Youth Agripreneurship and Startups (YASU-2023), Career Point University, Hamirpur, 2–3 August 2023.
Conference	National Conference on Frontiers in Chemical & Biological Sciences (FABS-2024), Central University of Himachal Pradesh, Shahpur, 29–30 May 2024.
Conference	National Conference on Empowering Sustainability: Bridging Science, Technology and Climate Resilience (ESBSTCR-2024), Sant Baba Bhag Singh University, Jalandhar, 17–19 January 2024.
Oral Presentation	“Molecular analysis of mtDNA gene for the species of family Acrididae from western Himalaya” — International Conference on The Role of Technology to Combat the Triad in Crises: Biodiversity Loss, Climate Change and a Sustainable Future, Govt. Degree College Dharampur, Mandi, 24–25 October 2024.
Oral Presentation	“Phylogenetic analysis of sub-family Catantopinae (Orthoptera: Acridoidea) on the basis of mitochondrial genes COI & 16S rRNA” — International Conference on Emerging Trends and Innovation in Basic Science (ETIBS-2024), Career Point University, Hamirpur, 22–23 November 2024.
Presentation	“Divergence & Significance of mtDNA COI gene Hieroglyphus spp. (Orthoptera: Acrididae)” — International Conference on Environmental, Sustainable Development and Disaster Management: Pathway to a Greener and Safer Future, Govt. Degree College Sujampur, Hamirpur, 11–12 September 2025.
Presentation	“Phylogenetic reconstruction and genetic divergence of Catantopinae (Acrididae) from western Himalayas using mitochondrial marker” — International Conference on Climate Change and Global Water Scarcity: Threats, Challenges and Sustainable Solutions, Govt. Degree College Dharampur, Mandi, 26–27 September 2025.

ACADEMIC PROFILE HIGHLIGHTS

- Eight years of teaching experience in Zoology.
- CSIR-NET qualified with doctoral-level research training.
- Research expertise spanning molecular biology, cytogenetics, phylogenetics and insect taxonomy.
- Active research contributions on Western Himalayan Acrididae using molecular markers.
- Author/co-author of peer-reviewed research papers and chapters with Academic Press, Springer, CRC Press and Apple Academic Press.
- Regular participant and presenter at national and international conferences, with additional training in bioinformatics, SPSS and bibliometric analysis.
- Serving as an IGNOU Counsellor.