

Curriculum vitae

Dr. Dhiraj Kumar

Assistant Professor
Department of Zoology,
Hansraj College,
University of Delhi, India

Educational Qualifications : M.Sc., CSIR-UGC-JRF/NET, Ph.D.

Research and Teaching Experience : 7 years

Areas of Specialization : Insect Biology, Gut Microbiome, & Biomaterials

POSITIONS HELD IN PREMIER INTERNATIONAL & NATIONAL ORGANIZATIONS

- Assistant Professor, Dept. of Zoology, Hansraj College, University of Delhi, India from 7th October, 2022 to till date.
- Dr. D.S. Kothari PDF, SOS in Zoology, Jiwaji University, M.P., India from 2018 to 2021.
- Postdoctoral Fellow, Soochow University, China from 2015 to 2017.
- Assistant Professor, Dept. of Zoology, G.G.V., (A Central University), C.G., India between 2013 to 2015.

CUMULATIVE IMPACT FACTOR CITATION INDICES

- 88+
- Citations : 548
- h-index : 13
- i10-index : 17

PATENTS

- 02 (01 Granted & 1 Filed)

AWARDS & FELLOWSHIPS

- 2009-JRF/SRF by UGC, New Delhi, India
- 2011-CSIR-UGC-JRF/NET in Life Science conducted by CSIR, New Delhi, India
- 2011-Young Scientist Award by International Consortium for Contemporary Biologist
- 2015-Chinese Government Postdoctoral Fellowship, Soochow University, China
- 2015-Postdoctoral Fellowship, IMIDA, Spain (not availed)
- 2016-Outstanding Research Paper Presentation Award, Silk Association of China, China
- 2018-Dr. D.S. Kothari Fellowship, BSR, UGC, New Delhi, India

CONTRIBUTION AS SUPERVISOR

- M.Sc. (01), B.Sc. (02)

INVITED LECTURES

- 03

CONFERENCE, WORKSHOP & SEMINAR

- 23

REFRESHER COURSE

- 01

TRAININGS

- 03

Best Ten Research Papers Published in International Journals

1. Shen Z, Kumar D, Liu X, Yan B, et al. (2021). Metatranscriptomic analysis reveals an imbalance of hepatopancreatic flora of Chinese mitten crab *Eriocheir sinensis* with hepatopancreatic necrosis disease. *Biology*, 10:462. (ISSN 2079-7737)
2. Feng Y, Zhang X, Kumar D, Kuang S, et al. (2021). Transient propagation of BmLV and dysregulation of gene expression in nontarget cells following BmLV infection. *Journal of Asia-Pacific Entomology*, 24:893-902. (ISSN:1226-8615)
3. Kumar D, Sun Z, Cao G, Xue R, et al. (2020). *Bombyx mori* bidensovirus infection alters the intestinal microflora of fifth instar silkworm (*Bombyx mori*) larvae. *Journal of Invertebrate Pathology*, 163:48-63. (ISSN: 0022-2011).
4. Feng Y, Kumar D, Hu X, Zhang Y et al. (2020) Comparative transcriptome analysis of wing discs from *Bombyx mori* and *Bombyx mandarina*. *Journal of Asia Pacific Entomology*, 23:227-235. (ISSN: 1226-8615).
5. Kumar D, Kumari K, Vishvakarma VK, A Jairaj, Kumar D. et al. (2020). Promising inhibitors of main protease of novel corona virus to prevent the spread of COVID-19 using docking and molecular dynamics simulation. *J Biomolecular Structure & Dynamics*, 20:1-15. (ISSN: 1538-0254)
6. Kumar D, Sun Z, Cao G, Xue R, et al. (2019). Study of gut bacterial diversity of *Bombyx mandarina* and *Bombyx mori* through 16S rRNA gene sequencing. *Journal of Asia Pacific Entomology*, 22:522-530.(ISSN:1226-8615)
7. Chen F, Zhu L, Zhang Y, Kumar D, et al. (2018). Clathrin-mediated endocytosis is a candidate entry sorting mechanism for *Bombyx mori* cypovirus. *Scientific Reports*, 8:7268. (ISSN 2045-2322).
8. Zhu L, Hu X, Kumar D, Chen F, et al. (2018). Both ganglioside GM2 and cholesterol in the cell membrane are essential for *Bombyx mori* cypovirus cell entry. *Developmental & Comparative Immunology*. 88:161–168 (ISSN: 0145-305X)
9. Sun Z, Kumar D, Cao G, Zhu L, et al. (2017). Effects of transient high temperature treatment on silkworm, *Bombyx mori* intestinal flora. *Scientific Reports*, 7, 3349. (ISSN 2045-2322).
10. Kumar D and Kumar RV (2015). Impact of Novel Bio-foliar on natural cocoons and silk quality. *Journal of Natural Fibers*, 12(5):419-429. (ISSN: 1544-0478).

Training Attended

1. Two-Week Refresher Course in “Life Sciences” organized by Ramanujan College, University of Delhi from 01-15th September, 2021.
2. Faculty Development Programme on “Entrepreneurship” organized by Jiwaji University in Association with Dept. of Science & Technology, Govt. of India, New Delhi from 26th March to 15th April, 2021.
3. Research training on “Molecular Tools and Techniques” organized by SBBMS, Soochow University, China between 15th March to 14th April, 2015.
4. Training on “Animal Cell Culture” by CIF, Jiwaji University, Madhya Pradesh from 10th to 24th June, 2019.
5. Training on “Applications of Remote Sensing and GIS in Natural Resources Management” held between 14th to 18th December, 2009 organized by RSAC, U.P., Lucknow and DST, Govt. of Uttar Pradesh.

List of Invited Lectures

1. Kumar D (2021). Recent Technologies in Sericulture. “Technologies based entrepreneurship development programme” organized by Jiwaji University, Gwalior held between 05th July-23rd Aug, 2021.
2. Kumar D (2021). Silkworm role in modern biology. Workshop “*Research Methodology for Life Science*” organized by Dept. of Zoology, D.D.U. Gorakhpur University, Gorakhpur held between 23rd-29th June, 2021.

List of Conference, Seminar, Workshop and Symposia:

1. International Webinar on 'Role of Host Immune System in Development of COVID-19' organized by Bundelkhand University, Uttar Pradesh on 11th May 2020.
2. International Webinar on Exploring and understanding of Covid-19" organized by CSJMU, Kanpur on 2nd May, 2020.
3. "IPR Management in Universities" organized by Mizoram University, India on 16th September, 2020.
4. Participated in International Webinar Series on "Covid-19 Outbreaks" organized by Jiwaji University, Gwalior from 15th-17th May 2020.
5. National Conference on Role of Ethno-medicine in Health Science conducted by ITM University, Gwalior between 29th -30th April, 2019.
6. International Conference on Breakthrough & Human Health, STOX, 27-29 December, 2019.
7. 2nd Hands-on "Workshop on Laser Confocal Microscopy" organized by SOS Zoology, Jiwaji University, Gwalior from 15th-17th Nov, 2018.
8. National workshop on wild silkworm seed production conducted by BSSO, CSB, Bilaspur on 17th Jan 2017.
9. International Conference on "Green Chemistry in Environment Sustainability and Chemical Education", India organized by University of Delhi, India between 17th -18th Nov, 2016.
10. The 9th International Silk Conference China organized by Guangxi University of Science and Technology, China held between 8th-10th Sep, 2016.
11. 4th International Conference on "Life Science and Agricultural Research" by International Consortium of Contemporary Biologist, India between 27th -29th Dec, 2011 at CPRI, Patna.
12. National conference on "Seribiotechnology" organized by Sri Padmavathi Mahila Vishwa Vidyalaya, Tirupati, Andhra Pradesh held between 27th -30th Aug, 2008.
13. National workshop on "Molecular Updates in Biological Science" organized by Dept. of Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur on 25th Jan, 2014.
14. National workshop on "Alternatives to Use of Animal Sacrifice in Life Science Education for Teachers" organized by GGV, C.G. between 24th-25th Aug, 2013.
15. "XIVth Science Congress" conducted by All India Peoples Science Network, Kozhikode between 25th-28th Feb, 2013.
16. Placement and employment in Indian Patent office and Hands on training for patenting the research work by B.B. Ambedkar University, Uttar Pradesh held on 18th March, 2013.
17. Research Methodology and Art of Scientific Paper Writing" organized by Dept. of Medicine & Delhi Medical Council, Delhi on 9th Oct, 2011
18. Climate Change" organized by Tata Institute of Social Sciences, Mumbai and Bharat Gyan Vigyan Samiti held between 16th-19th June, 2011.
19. 7th "Annual Conference of Association of Medical Microbiologists" held at S.G.P.G.I., Uttar Pradesh between 5th -6th Feb, 2011.
20. One Day Training cum Workshop on "Bioinformatics for Beginners" held on organized by Green Earth Research Foundation on 4th April, 2010.
21. National Workshop on "Global Climate Change and Sustainable Environment" (GCCSE-08) held at B.B. Ambedkar Central University, Uttar Pradesh from 4th-5th March 2008.
22. workshop on "Census 2001 Data Results" organized by Directorate of Census Operation, Uttar Pradesh at B. B. Ambedkar University, Uttar Pradesh from 14th-18th December 2008.
23. 93rd Indian Science Congress held at Archya N.G. Ranga Agricultural University, Hyderabad, 3rd-7th January, 2006.

Membership of Scientific Bodies

1. Member, Association of Ayurveda Academy, CIC, UK
2. Senior member, Asia Pacific Chemical, Biological and Environmental Engineering Society, Hong Kong
3. Life member, International Consortium of Contemporary Biologist
4. Life member, Scientific and Technical Research Association (STRA)
5. Member, International Society of Zoological Science, China