

Name : Dr. Venkatesh Kumar R.
Designation : Associate Professor
Department : Zoology
School : Life Sciences
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Education Qualification

	Organization	Year of Award
Undergraduate	Bangalore University	1994-95
Post-graduation	Bangalore University	1996-97
Ph.D.	Bangalore University	2003
Post-Doctoral Training	-	-

Professional Experience (In Years)

Teaching Experience: 15 Years
Research Experience: 16 Years

Areas of Research (Maximum Five Bullet Points)

- * Sericulture
- * Natural Product Research
- * Entomology

Research/Consultancy Grants

Title of Projects	Funding Agency	Duration (Specific Dates)	Total grant	Role (PI/CO-PI)
Management of mulberry diseases through endophytes of mulberry	DST-SERB, New Delhi	4 years (01.04.2016 to 31.03.2020)	Rs. 23.28.000 /-	P.I.
Studies on forewarning of mulberry & non-mulberry pests through foldscope	DBT, New Delhi.	18 Months (01.04.2008 to 31.09.2019)	Rs. 8.00.000 /-	P.I.

Publications

International
1. Mahendera Kumar Meena, Durgesh Kumar, Kamlesh Kumari, Nagendera Kumar Kaushik, Ramappa Venkatesh Kumar , Indra Bahadur, Lata Vodwal, Prashant Singh (2021). Promising inhibitors of nsp2 of CHIKV using molecular docking and temperature-dependent molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 1-9 doi.org/10.1080/07391102.2021.1873863

2. Umesh Kumar, Supriya Sharma, Manjunath Durgappa, Nikhil Gupta, Ritu Raj, Alok Kumar, Prabhat Narayan Sharma, VP Krishna, **R Venkatesh Kumar**, Anupam Guleria, Vivek Anand Saraswat, Gaurav Pande, Dinesh Kumar(2020) Serum metabolic disturbances associated with acute-on-chronic liver failure in patients with underlying alcoholic liver diseases: An elaborative NMR-based metabolomics study. *Journal of Pharmacy and Bioallied Sciences*-333_20
3. **R Venkatesh Kumar**, Devika Srivastava, Umesh Kumar, Mukesh Kumar, Prashant Singh (2020). Bioprospecting of Omega 3 Fatty Acid from Silkworm Pupal Oil: From Molecular Mechanism to Biological Activities.*Journal of Biologically Active Products from Nature*-10(6) 495-506 (Taylor & Francis) doi.org/10.1080/22311866.2020.1862704
4. **Venkatesh Kumar R**, Srivastava Devika, Vandana Singh, Umesh Kumar, Vijay Kumar Vishvakarma, Prashant Singh, Dinesh Kumar, Rajesh Kumar(2020). Characterization, biological evaluation and molecular docking of mulberry fruit pectin. *Scientific Reports (Nature Publisher Group)* (2020) 10:21789 | <https://doi.org/10.1038/s41598-020-78086-8>
5. Durgesh Kumar, Kamlesh Kumari, Abhilash Jayaraj, Vinod Kumar, Ramappa Venkatesh Kumar, Sujata K. Dass, Ramesh Chandra, and Prashant Singh. (2020). Understanding the binding affinity of nospapines with protease of SARS-CoV-2 for COVID-19 using MD simulations at different temperatures. *Journal of Biomolecular Structure and Dynamics*, 1-14
6. Durgesh Kumar, Kamlesh Kumari , Vijay Kumar Vishvakarma, Abhilash Jayaraj , Dhiraj Kumar , **Venkatesh Kumar Ramappa** , Rajan Patel , Vinod Kumar , Sujata K. Dass , Ramesh Chandra and Prashant Singh. (2020). Promising inhibitors of main protease of novel corona virus to prevent the spread of COVID-19 using docking and molecular dynamics simulation. *Journal of Biomolecular Structure and Dynamics*, 1-16
7. Durgesh Kumar, Prashant Singh, Abhilash Jayaraj, Vinod Kumar, Kamlesh Kumari, Ramesh Chandra, **Venkatesh Kumar Ramappa**. (2020). Selective Docking of Pyranooxazoles Against nsP2 of CHIKV eluted through Isothermally and Non-Isothermally MD simulations. *Chemistry Select*, 5 (14), 4210-4220.
8. **Venkatesh Kumar Ramappa**, Devika Srivastava, Prashanth Singh, Umesh Kumar, Vandana Singh. (2020). Mulberry 1-deoxynojirimycin (DNJ): an exemplary compound for therapeutics. *The Journal of Horticultural Science and Biotechnology*, 1-8
9. **Venkatesh Kumar Ramappa**, Devika Srivastava, Prashant Singh, Umesh Kumar, Dinesh Kumar, Sunil Babu Gosipatala, Sudipta Saha, Dhiraj Kumar, Ritu Raj. (2020). Mulberries: A Promising Fruit for Phytochemicals, Nutraceuticals, and Biological Activities. *International Journal of Fruit Science*, 1-26.
10. Umesh Kumar, Avinash Jain, Anupam Guleria, **Venkatesh Kumar**, Durga P Misra, Ruchika Goel, Debashish Danda, Ramnath Misra, Dinesh Kumar. (2020). *Journal of*

11. Vimal Maurya, Pranesh Kumar, Sreemoyee Chakraborti, Ashok K Singh, Archana S Bhadauria, Umesh Kumar, Dinesh Kumar, Arnab Pramanik, Biswajit Saha, **Venkatesh Kumar R.**, Sunil Babu Gosipatala, Boley Bhattachariya, Biswanath Maity, Sudipta Saha. (2019). Zolmitriptan attenuates hepatocellular carcinoma via activation of caspase mediated apoptosis. *Chemico-biological interactions*, 308, 120-129.
12. **Ramappa Venkatesh Kumar**, Raghwendra Pratap Singh, Priyamvada Mishra. (2019). Endophytes as emphatic communication barriers of quorum sensing in Gram-positive and Gram-negative bacteria—a review. *Environmental Sustainability*, 2 (4), 455-468.
13. Brijesh Ranjan, Pranab Lal Pakrasi and **Venkatesh Kumar R.** (2018). Antioxidant and anti-diabetic potential of MR-1 mulberry variety. *International Journal of Pharmacy and Biological Sciences* 8(4) 904-914, ISSN: 2230-7605.
14. **Venkatesh Kumar R.** Shaurabh Pandey and Anurag Rawat (2018). The International journal of recent scientific research article title: Effect of Tannery sludge on gut region of earthworm, *Eisenia foetida*. *Int J Recent Sci Res* 9(4) , 26154-26158
15. **Venkatesh Kumar R.**, Brijesh Ranjan, Randhir Kumar, Neeraj Verma, Swati Mittal, Pranab Lal Pakrasi (2017). Evaluation of the Antidiabetic Properties of S-1708 Mulberry Variety. *Pharmacognosy Magazine* 13 (50), 280-288
16. N. More A. Verma, S. Singh, N. Dhusia, R.N. Bhargava, R. Kumar, R. Gautam, Islamuddin, **K.R. Venkatesh** (2017). Qualitative Determination of Virgin and Recycled Plastic Used for Drinking and Storing Foodstuff: An Analytical Study Using SEM/EDX. *International Journal of Health Sciences and Research*, 7(3), 275-283
17. Param Dev, **Venkatesh Kumar Ramappa**, Ram Gopal and Sangeeta (2017) Analysis of Chemical Composition of Mulberry Silkworm Pupal Oil with Fourier Transform Infrared Spectroscopy (FTIR), Gas Chromatography/Mass Spectrometry (GC/MS) and its Antimicrobial Property. *Asian Journal of Agricultural Research* 11(4) pp 108-115, ISSN: 1819-1894.
18. Anjali Verma, Ram Naresh Bharagava, **Venkatesh Kumar R.**, Ashima Singh, Namita Dhusia, Nandkishor More (2016). Role of macrophytes in heavy metal removal through rhizo-filtration in aquatic ecosystem. *European Journal of Biotechnology and Bioscience*. Vol.4; PP15-20, ISSN: 2321-9122
19. Saji Samuel, Abhishek Desai, R Raghubir and **Venkatesh Kumar R.** (2016). Anti-Oxidant activity of various leaf extracts of mulberry species in rotenone induced

oxidative stress model of rat. Journal of Chemical and Pharmaceutical Sciences. Vol.9, PP.2732-2736 ISSN: 0974-2115

20. Pranab Lal Pakrasi and **Venkatesh Kumar R.**, Brijesh Ranjan, Randhir Kumar , Neeraj Verma , Swati Mittal (2016). Evaluation of antioxidant activity, phytochemical constituents and Anti-diabetic properties of C763 mulberry leaves. Journal of Biological Sciences and Medicine 2 (4), 1-12
21. Seema Chauhan, Uma Devi, **Venkatesh R. Kumar**, Vikas Kumar, Firoz Anwar and Gaurav Kaithwas, (2015). Dual inhibition of arachidonic acid pathway by mulberry leaf Extract, *Inflammopharmacology*,23(1):65-70
22. **Venkatesh Kumar R.**, Chhatrapal Gautam, Shobha N, Rohith L Shankar,(2015). Use of mulberry leaves as supplementary food in cow and goat to improve milk production. International Journal of Applied Research 1(13): 81-84
23. Dhiraj Kumar and R. **Venkatesh Kumar R.** (2015). Impact of Novel Bio-Foliar on Natural Cocoons and Silk Quality, *Journal of Natural Fibers*, 12:419–429
24. Shankar S and Shanker U, **Ramappa Venkatesh Kumar**, Dev P (2015). Analysis of Chemical Compounds in Different Mulberry and Non Mulberry Silkworm Pupae Powder by FTIR and EDX. *Chemical sciences Journal* 6 (3), 1-7
25. N. A. Vvry Wouatsa, Laxminarain Misra, and **R. Venkatesh Kumar** (2014). Antibacterial Activity of Essential Oils, *Ocimum canum* and *Xylopiya aethiopica*, *Journal of Food Science*, 79(5):M972-7
26. Dhiraj Kumar Ram Pher and **Venkatesh Kumar R.**, (2014). Varietal influence of mulberry on Silkworm, *Bombyx mori* L. growth and development. *International Journal of Advance Research*, Volume 2, Issue 3, 921-927
27. Dhiraj Kumar and **R. Venkatesh Kumar**, (2014). Efficacy of bio-foliar spray on growth and biochemical parameters of different mulberry varieties. *Online journal of Biological Sciences*, 14(1): 64-69.
28. Sunil G Babu, Abhishek Pandeya, Neelam Verma, Nikita Shukla, **R Dr. Venkatesh Kumar R.**, Sangeeta Saxena (2014) “Role of HCMV miR-UL70=3p and miR-UL148D in overcoming the cellular apoptosis” *Molecular and cellular biochemistry*, vol.393:89-988.
29. Brijesh Ranjan and Yashwant Kumar, **Venkatesh Kumar R.**, Nandkishore More, Sushila Kannougia, Param Dev (2014). Chromium Accumulation by *Eisenia foetida* in Modified Vermicompost Supplemented with Tannery Sludge. *Journal of Agroecology and Natural Resource Management (JANRM)* 1 (4), 291-293.
30. Yashvant rao, Naveen kumar nigam, Rajan verma, **Venkatesh k. R** & Anil kumar (2014) Microbial and nutrient study in alkaline soil used for cultivation of different

varieties of mulberry plants. *International journal of agriculture science and research* 4(6) pp 81-94 ISSN: 0021-8596

31. Vyry NA Wouatsa, Laxminarain Misra, Shiv Kumar, Om Prakash, Feroz Khan, Francois Tchoumboungang and **R Kumar Venkatesh**, (2013). Aromatase and glycosyl transferase inhibiting acridone alkaloids from fruits of Cameroonians *Zanthoxylum* species, *Chemistry Central Journal*, 7:125,1-15.
32. Seema Chauhan, Subash Chandra Verma and **R. Venkatesh Kumar** (2013) Evaluation of Phytochemical and Anti-oxidant Activity in Different Mulberry Varieties, *Asian journal of Chemistry*, 25, No. 14, 8010-8014.
33. LN Misra, WNA Vyry, S Kumar, **R Venkatesh Kumar**, T Francois (2013) Antibacterial, cytotoxic activities and chemical composition of fruits of two cameroonians *zanthoxylum* species, *Journal of Ethnopharmacology* 148 (1):74-80.
34. Amit srivastava and **Venkatesh Kumar R.** (2013). Recognizing silkworm as an experimental animal model-a non ethical approach. *Journal of Pharma and Biosciences*. 4(2): 1267 – 1273 issn: 0975-6299.
35. N.A. Vyry Wouatsaab, L.N. Misraa, **R. Venkatesh**. (2013). Zantholic acid, a new monoterpenoid from *Zanthoxylum zanthoxyloides*. *Natural Product Research: Formerly Natural Product Letters* 27 (21), 1994–1998.
36. **R. Venkatesh Kumar**, Dhiraj Kumar and Satguru Prasad (2012). Efficacy of bio-foliar spray on plant nutrients of different mulberry varieties. *J. Biopest.* Vol. 5(2):113-139.
37. K. Dhiraj and **R. Venkatesh Kumar** (2012). Application of foliar nutrients to increase productivity in sericulture”. *Journal of Entomology*, Vol. 9, (1), 1-12. (ISSN 1812-5670).
38. **Venkatesh Kumar R.** (2012) In-vitro evaluation of antibacterial activity of chitosan extracted from mulberry silkworm (*Bombyx mori*) pupae *Asian Journal of Agricultural Research*; 11(4) pp 330-336 ISSN: 1819-1894.
39. **Venkatesh Kumar R.** and Seema Chauhan (2011) Biochemical Constituents of different parts of Mulberry Genotypes. *International Journal of Agriculture Sciences*, Vol. 3 (2):90-96.
40. **Venkatesh Kumar R.** and Amit Srivastava (2011). “In vivo therapeutic effects of antibacterial and antiviral antibiotics using *Bombyx mori* L. as an animal model”. *Journal of Medicinal Plants Research*, Vol. 5(14), pp. 3118-3121. (ISSN 1996-0875)
41. **R. Venkatesh Kumar** and Amit Srivastava (2010). Relevance of Antibiotics with reference to Sericulture Industry. *International Journal of Science and Nature*, Vol. 1 (2):97-100. (ISSN 2229-6441)

42. **Venkatesh Kumar R.**, Seema Chauhan, Amit Srivastava and Dhiraj Kumar (2010). Women Empowerment in Sericulture: A Current Scenario in Rural India. *Asia-Pacific Journal of Rural Development*. Vol. XX, No. 1:175-184. (ISSN 1018-5291).
43. **Venkatesh Kumar R.**, Dhiraj Kumar, Ashutosh Kumar and S.S. Dhama (2009). “Effect of Blue Green Micro Algae (*Spirulina*) on Cocoon Quantitative Parameters of Silkworm, *Bombyx mori* L.”. *Journal of Agricultural and Biological Sciences*, Vol.4, No.3:50-53. (ISSN: 1990-6145).
44. **Venkatesh Kumar R.** and Seema Chauhan (2008) Mulberry: Life Enhancer. *Journal of Medicinal Plant Research*, Vol.2, No. 10: Pp. 271-278. (ISSN: 1996-IF.0.875).
45. B.K.Chikkaswaiuy, Rabin Chandra Paramanik, D. G. Roy, A Paramanik And **Venkatesh Kumar R.** 2008 Ecology of microbes present in the arthropods alimentary canals. *J. Phytol. Res.* 21(1) :4145,2008
46. B.K.Chikkaswaiuy, Rabin Chandra Paramanik, D. G. Roy, A Paramanik And **Venkatesh Kumar R.** . Effects of biochemicals of *Artemisia annua* in plants. *Journal of Phytological Research*, ISSN No. 0970-5767 pp 11-18.

National

1. Param Dev, Yashwant Kumar **Venkatesh Kumar R.** (2017). Silkworm pupal oil: A novel source of Omega-3 fatty acids. *Indian Silk*, 7-8(12-2), 24-25
2. Param Dev, **Venkatesh Kumar Ramappa**, Sangeeta And Ram Gopa, (2017) FTIR and GC/MS Analysis of Antheraea mylitta Silkworm Pupal Oil and Its Antibacterial Activity Against *Staphylococcus sciuri* Strain CD97 *Trends in Biosciences* 10(22) pp 4234-4241 ISSN: 0974-8431.
3. **Venkatesh Kumar R.** (2017) Comparative study of Antioxidant Potential of Mulberry and Non-Mulberry Silkworm Pupal Oil *Trends in Biosciences* 10(24) pp 4919-4923 ISSN: 0974-8431.
4. **Venkatesh Kumar R.** (2017) Assessment antioxidant properties of Mulberry, Tasar, Eri, and Muga Silkworm Pupal Oil by Superoxide Assay. *Trends in Biosciences* 10(24) pp 4944-4948 ISSN: 0974-8431.
5. Sheeba Saji Samuel, Abhishek Desai, R Raghubir and **Venkatesh Kumar R.** (2016), Neuroprotective profile of mulberry leaf extract in focal cerebral ischemia model in rats. *Indian Journal of Research in Pharmacy and Biotechnology* 4(3) PP.116-125 ISSN: 2321-5674(Print); 2320 – 3471(online)
6. **Venkatesh Kumar R.**, G Sunil Babu, Seema Chauhan, Amit Srivastava, Yashwant Rao & Dhiraj Kumar (2012). Total phenolics and flavonoids content in ripened and un-ripened fruits of different mulberry (*Morus alba*) varieties. *Indian Journal of Agricultural Sciences* 82 (3): 277–279.

7. Amit Srivastava and **Venkatesh Kumar R.** (2012). Effects of Antibiotic administration and seasonal interaction on economic parameters of silkworm, *Bombyx mori* L. *J. Exp. Zool. India*. Vol. 15 (1):179-183.
8. **R.Venkatesh Kumar** , Seema Chauhan, Amit Srivastava and Dhiraj Kumar, (2010) Evaluation of nutritive value in the leaf of different mulberry varieties under sodic soil condition, *Biochem. Cell. Arch.* Vol. 10, No. 1, pp. 97-101. (ISSN:0972-5075)
9. Amit Srivastava and **Venkatesh Kumar R.**, (2009) Efficacy of three antibiotics on reduction of mortality rate in mulberry silkworm (*Bombyx mori* L.) in the monsoon season of Lucknow, *Trends in Biosciences* Vol.2 No.2: pp.33-35. (ISSN-0974-8431)
10. **Venkatesh Kumar R.**, Seema Chauhan, Ashutosh Kumar and Dhiraj Kumar (2008) Medicinal properties of different mulberry species, *Indian Silk*, Vol.47, No.7: pp.14-15. (ISSN: 0019-6355)
11. **Venkatesh Kumar R.** and Shankar A.G. (2000) Importance of soaking the raw silk yarn before the re-reeling process, *Journal of Textile Association*, Vol.61, No. 2:67-70.

Book Chapters

1. Dhiraj Kumar, Param Dev and **Venkatesh Kumar R.** (2015) Biomedical Applications of Silkworm Pupae Proteins .Edited by Dhiraj Kumar, Rajesh R. Kundapur. Biomedical Applications of Natural Proteins. Edited by Dhiraj Kumar, Rajesh R. Kundapur, *Springer publications*:pp 41-49, ISBN: 978-81-322-2490-7 (Print) 978-81-322-2491-4 (Online).
2. **Venkatesh Kumar R.**, Ishmath Afshan and More (2011) “Seri-biotechnology for Economic Empowerment and its Sustainability”. Edited by Venkatesh Kumar R. and V. Shyam Kumar (eds.) Application of Biotechnology in Sericulture, First Edition Studium Press (India) Pvt. Ltd., New Delhi: pp-21-28. ISBN: 978-93-80012-48-3.
3. Yanwen Wang, V. Shyam Kumar, Xingmeng Lu Zhimei Mu, Genxian Wang and **Venkatesh Kumar R.** (2011) “Optimization of the Conditions for RAPD Analysis of Enterococci Isolated from *Bombyx mori*. Edited by **Venkatesh Kumar R.** and V. Shyam Kumar (eds.) Application of Biotechnology in Sericulture, First Edition Studium Press (India) Pvt. Ltd, New Delhi: pp-99-104. ISBN: 978-93-80012-48-3.
4. **Venkatesh Kumar R.** Seema Chauhan (2009) Survival Potentiality of Castor plant in Sodic Soil under Lucknow Climatic Conditions. Silk in new millennium. Edited by B.N. Pandey, Sunil P. Trivedi, Kamal Jaiswal and A.K, Kanratak. Publisher: Sarup & Sons ISBN 8176259136/9788176259132.
5. **Venkatesh Kumar R.** and Devika Srivastava (2020), Silkworm: A Unique Creature for Natural Products **Springer**, Edited by: Dr. Dhiraj Kumar, Dr. M. Shahid. Natural

Materials and Products from Insects: Chemistry and Applications. Online ISBN 978-3-030-36610-0,pp95-109		
Authored Books		
<ul style="list-style-type: none"> • Authors Amit Srivastava and Venkatesh Kumar R., (2010) Role of antibiotics on silkworm growth and disease management. LAP Lambert Academic Publishing ISBN 978-3-8433-5275-8, Dudweiler Landstr. 99, 66123.Germany. 		
Edited Books		
<ul style="list-style-type: none"> • Edited by Venkatesh Kumar R. and V. Shyam Kumar ,Application of biotechnology in Sericulture (2011), Studium Press (India) Pvt. Ltd., ISBN:978-93-80012-48-3 , 4735/22, 2nd Floor, Praksah Deep Building, Ansari Road, Daryaganj, New Delhi-110002. 		
Patents		
	Inventors	Title and Award/Application no.
Awarded	Dhiraj Kumar and Venkatesh Kumar R.	Bio-foliar is an eco-friendly formulation applied for the growth and productivity of different mulberry varieties (Patent No. 349541)
Published	-	-
Filed	-	-
Research Supervision		
	Completed	Ongoing
PG/M.Phil	47	10
Ph.D	07	04
Post-Doctoral	-	-
Honors, Recognition and Awards		
1. INSA visiting scientist under International Collaborative/ Bilateral Exchange Program (Visited China)		
2. Recognition awarded for the contribution in promotion of Environmental Awareness in the Essay competition for world record event on Conserve Natural Resources for future generation conducted by Karnataka State Pollution Control Board & Srishti International, Bangalore		
3.Appreciation awarded for exemplary work on spreading scientific awareness among common people, school children, Graduates & Post Graduates on the Occasion of “World Immunology Day”		
Membership of Professional Bodies		
1.Member, Black, Caspian Seas and Central Asia Silk Association (BACSA), France.		

<p>2. Scientific Adviser and Member, Centre for Eco-bios and Rural Development, Lucknow.</p> <p>3. Member, International Association of Computer Science and Information Technology, Singapore.</p> <p>4. Member, Asia Pacific Chemical, Biological and Environmental Engineering Society, Hongkong.</p>
<p>Seminar/ Conference/ Symposia / Workshops Organized</p>
<p>Joint-Organizing Secretary of “National Conference of Research Development in Fisheries (NCRDF-2019)” organized by Dept Zoology, BBAU from 7-8th November, 2019.</p>
<p>Countries Visited</p>
<p>*Turkey</p>
<p>*China (Twice)</p>
<p>*Singapore</p>
<p>*Thailand</p>
<p>* Nepal</p>
<p>Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia /Workshops</p>
<ol style="list-style-type: none"> 1. Chaired one of the sessions in “International Conference on Agricultural and Animal Sciences” held between 26 to 28 Feb. 2010, organized by the International Association of Computer Science and Information Technology, Singapore. 2. Delivered an invited talk on “Role of Endophytes in management of mulberry diseases” at the Institute of Plant Physiology and Ecology, Chinese Academy of Sciences, Shanghai on 26th May 2018 (During the visit of INSA –CAS International Bilateral exchange Programme) . 3. Delivered an invited talk at One-Day National seminar on “Multiple Marginalities and Environment in India” organized by the Department of History, B. B. Ambedkar Central University, Lucknow, India held on 18th February 2010 . 4. Delivered invited lecture on “Health problems among Women Silk Reelers - A Study in Betul and Hoshangabad districts of Madhya Pradesh” in the international conference on Digital technologies and innovation in science and society, organized at Kasetsart University, Bangkok, Thailand from 1st to 3rd July 2016.
<p>Additional Information (If Any)</p>
<p>Google Scholar Profile</p> <ul style="list-style-type: none"> • H-Index:12 • i-Index: 16 citations: 590