



## Faculty Details proforma for DU Web-site

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Title	Dr	First Name	Ram Krishan	Last Name	Negi	Photograph
Designation		Professor				
Address		Lab No. 18, Fish Molecular Biology Laboratory, Department of Zoology, University of Delhi, Delhi-110007				
Phone No Office		011-27667212 Extn-118				
Residence						
Mobile		+91-8800209901				
Email		negi_gkv@rediffmail.com, negigurukul@gmail.com				
Web-Page						
<b>Educational Qualifications</b>						
Degree		Institution			Year	
UG		Himachal Pradesh University, Shimla, India			1994	
PG		Panjab University, Chandigarh, India			1996	
Ph.D.		Panjab University, Chandigarh, India			2001	
<b>Career Profile</b>						
Associate Professor: Department of Zoology, University of Delhi, Delhi, India, from July, 2015- present.						
Associate Professor: Department of Zoology& Environmental Sciences, Gurukula Kangri University, Haridwar April ,2015-22 July, 2015.						
Assistant Professor: Department of Zoology & Environmental Sciences, Gurukula Kangri University, Haridwar. April, 2003- March, 2015.						
<b>Administrative Assignments</b>						
Convener: Departmental Library committee						
Convener: Pest management Committee of the University						
Member: Departmental Research Committee						
Member: Board of Research Studies						
Member: Animal house committee						
Member: Purchase Committee						
Member: Physical stock verification & Disposal committee						
<b>Areas of Interest / Specialization</b>						
Fish and Fisheries, Fish Microbiome, Fish Diversity, Hill Stream Ecology, Aquatic Biodiversity, Fish diversity, Fish Bionomics						
<b>Subjects Taught</b>						
Fish Biology						
Principles of Ecology						
Animal Behavior						

<b>Time table of the subjects taught during the current semester</b>				
<b>S.No.</b>	<b>Subject</b>	<b>Days</b>	<b>Time</b>	<b>Classroom</b>
1.	Fish Physiology	Monday	09:30 AM – 10.25 AM	Online
2.	Aquaculture	Tuesday	11:30 AM – 12:25 PM	Online
3.	Aquatic resources and their conservation	Wednesday	11:30 AM – 12:25 PM	Online
4.	Diversity and behavior of fishes Practical	Thursday	09.30 AM – 11.25 AM	Online
5.		Wednesday	13.00 PM – 15.55 PM	Online
<b>Research Guidance</b>				
Students Awarded Ph. D. Thesis – 07 Thesis submitted-02 Currently working Ph.D. students – 05 Students Awarded M.Phil. degree – 03 Summer trainees for year 2017 - 02 Summer trainees for year 2018 – 02 Summer trainees for year 2019 – 02 Students for Dissertation – 55				
<b>Publications Profile</b>				
<b>Chapters in Books</b>				
<ol style="list-style-type: none"> <li>1. <b>NEGI, R. K.</b>, and Rajput, V. 2012. Diversity of zooplankton from Nainital and Bhimtal lakes of Kumaon Himalaya Uttarakhand State, India. In: Frontiers of wetlands Fisheries &amp; Aquaculture research, Devashish Kar and Anjam Hussain Barbhuiya. <b>Mangalam Publications</b> ISBN: 978-93-81142-99-8 41-47 pp.</li> <li>2. <b>NEGI, R. K. 2012.</b> Impact of migratory birds on the production of fishery composition in Pongdam wetland in Himachal Pradesh (India). In: Frontiers of wetlands Fisheries &amp; Aquaculture research (Ed. Devashish Kar and Anjam Hussain Barbhuiya. <b>Mangalam Publications</b> ISBN: 978-93-81142-99-8 221-231 pp.</li> <li>3. <b>NEGI, R. K.</b>, Negi, T., Mohd, S., and Chand, P. 2009. Physical integrity of three selected streams of district Nainital (Uttarakhand) in relation to their fish potential. In: Biodiversity and Environmental Management. (Ed.) B.D. Joshi, C.P. Tripathi and P. C. Joshi. <b>APH publication New Delhi</b> 84-93pp. IBSN: 81-313-0440-2.</li> <li>4. Johal, M.S., Tandon, K.K., Rumana, H.S., Rawal, Y.K., Tyor, A.K., Banyal, H.S., and <b>NEGI, R. K.</b> 2002. General ecology of the hill streams of Himachal Pradesh with special reference to fish communities. Advances in Coldwater Fisheries. <b>NRCCWF</b>,</li> </ol>				

Haldwani, 134-152 pp.

### Research Publications in Journals

1. Sharma, M., Khurana, H., Singh, D.N. and NEGI, R. K., 2020. The genus *Sphingopyxis*: Systematics, ecology, and bioremediation potential-A review. *J. Environmental Management*, 280(2021):111744. **Impact Factor: 5.647.**
2. Khurana, H., Singh, D.N., Singh, A., Singh, Y., Lal, R., and NEGI, R. K. 2020. Gut microbiome of endangered *Tor putitora* (Ham.) as a reservoir of antibiotic resistance genes and pathogens associated with fish health. *BMC Microbiology* 20: 1-18. **Impact Factor: 2.989.**
3. Kumar,R., Verma, H., Singhvi, N. Sood,U. Gupta, V., Singh,M., Kumari, R., Hira, P., Nagar,S., Talwar,C., Nayyar,N., Anand,A., Rawat,C., Verma,M., NEGI, R. K., Singh,Y. and Lal,R. 2020. Comparative Genomic Analysis of Rapidly Evolving SARS-CoV-2 Viruses Reveal Mosaic Pattern of Phylogeographical Distribution .*mSystems* 5: e00505-20. **Impact Factor: 6.280.**
4. Khurana, H., Singh, M., Verma, H., Lopes, B.S., Lal, R., and NEGI, R.K. 2020. Genomic insights into the phylogeny of *Bacillus* strains and elucidation of their secondary metabolic potential. *Genomics*. 112: 1391-3200. ISSN: 0888-7543. **Impact Factor:6.2.**
5. Talwar, C., Singh, A.K., Choksket, S., Korpole, S., Lal, R., and NEGI, R. K. 2020 *Salinicoccus cyprini* sp. nov., isolated from the gut of mirror carp, *Cyprinus carpio* var. *specularis*. *Int. J. Syst. Evol. Microbio*. ISSN: 1466-5026.**Imapct Factor: 2.4.**
6. Kaur, H., Prasad, S., Alan Warren, A., NEGI, R.K., and Kamra, K. 2020. Taxonomic resolution of *Stylonychia notophora* (Alveolata,Ciliophora, Hypotricha) sensu Sapro and Dass 1970 using an integrative approach. *Int. J. Syst. Evol. Microbiol* 70: 3939–3952. ISSN: 1466-5026. **Impact Factor: 2.4.**
7. Talwar, C., Nagar,S., Kumar, R. , Scaria, J., Lal,R., NEGI, R. K. 2020. Defining the Environmental Adaptations of Genus Devosia: Insights into its Expansive Short Peptide Transport System and Positively Selected Genes. *Scientific Reports*. 10: 1151. ISSN 2045-2322. **Impact Factor: 3.998.**
8. Verma, H., Dhingra, G. G., Sharma, M., Gupta, V., NEGI, R. K., Singh, Y., and Lal, R. 2020. Comparative genomics of *Sphingopyxis* spp. unraveled functional attributes. *Genomics* 112:1956-1969. ISSN: 0888-7543. **Impact Factor: 6.2.**
9. Hira, P., Bajaj, A., Puri, A., Talwar, C., Khurana, H., NEGI, R. K., Singh,Y., Lal, R., and Shakarad, M. 2019. Microbial Genomics and Metagenomics in India: Explorations and Perspectives. *Proc Indian Natn Sci Acad* 85: 999-1023.
10. Gaur, M., Vasudeva, A., Singh, A., Sharma, V., Khurana, H., NEGI, R.K., Lee, J.K., Kalia, V.C., Misra, R., and Singh, Y. 2019. Comparison of DNA Extraction Methods for

Optimal Recovery of Metagenomic DNA from Human and Environmental Samples. *Indian J. Microbiol.* 59: 482-489. ISSN 0046-8991. **Impact Factor: 1.87.**

11. Joshi, B.D., Johnson, J.A., Negi, T., Singh, Goyal, S.P. and **NEGI, R. K.** 2019. Understanding genetic diversity and population genetic structure of three Cyprinidae fishes occupying the same habitat from Uttarakhand, India. *Mitochondrial DNA Part B.* 4: 2956–2961. **Impact Factor: 0.88.**
12. Talwar, C., Singh, A.K., Singh, D.N., Nagar, S., Singh, Y., Shakarad, M., **NEGI, R. K.**, and Lal, R. 2019. Draft genome sequence of *Deinococcus* sp. strain S9, isolated from microbial mat deposits of hot springs located atop the Himalayan ranges at Manikaran, India. *Microbiology Resource Announcements.* 8: e00316-19.
13. Kaur, H., Shashi, **NEGI, R. K.**, and Kamra, K. 2019. Morphological and molecular characterization of *Neogastrostyla* aqua nov.gen., nov.spec.(Ciliophora, Hypotrichia) from River Yamuna, Delhi; comparison with Gastrostyla- like genera. *European J. Protistology.* 68: 68-79. **Impact Factor: 2.39.**
14. Maurya, A., Negi, T., and **NEGI, R. K.** 2018. Seasonal Assessment of Heavy Metal Pollution in Water and Sediment of Fish Pond at Bhagwanpur, Roorkee (U.K.), India. *Asian J. Anim.Sci* 12: 16-22. ISSN: 1819-1878.
15. Joshi, B.D., Johnson, J.A., Goyal, S.P., Negi, T., and **NEGI, R. K.** 2018. Non-invasive sampling: reliable methods for DNA extraction and PCR amplification from a single scale of small Cyprinidae fish. *Zoology and Ecology.* doi.org/10.1080/21658005.2018.1520681. ISSN: 1392-1657. **Impact Factor: 0.42.**
16. Talwar, C., Nagar, S., Lal, R., and **NEGI, R.K.** 2018. Fish Gut Microbiome: Current Approaches and Future Perspectives. *Indian J. of Microbiology.* https://doi.org/10.1007/s12088-018-0760-y ISSN: 0973-7715. **Impact Factor: 1.87.**
17. Mahato, N.K., Gupta, V., Singh, P., Kumari, R., Verma, H., Tripathi, C., Rani, P., Sharma, A., Singhvi, N., Sood, U., Hira, P., Kohli, P., Nayyar, N., Puri, A., Bajaj, A., Kumar, R., Negi, V., Talwar, C., Khurana, H., Nagar, S., Sharma, M., Mishra, H., Singh, A.K., Dhingra, G., **NEGI, R. K.**, Shakarad, M., Singh, Y., and Lal, R. (2017). Microbial taxonomy in the era of OMICS: application of DNA sequences, computational tools and techniques. *Antonie Van Leeuwenhoek.* 110: 1357-1371. **Impact Factor: 2.090.**
18. Tripathi, C., Mishra, H., Khurana, H., Dwivedi, V., Kamra, K., **NEGI, R. K.**, and Lal, R. 2017. Complete Genome Analysis of *Thermus parvatiensis* and Comparative Genomics of *Thermus* spp. Provide Insights into Genetic Variability and Evolution of Natural Competence as Strategic Survival Attributes. *Front. Microbiol.* 8: 1410. **Impact Factor: 4.190.**
19. Kumar, R., Verma, H., Haider, S., Bajaj, A., Sood, U., Ponnusamy, K., Nagar, S.,

Shakarad, M.N., **NEGI, R. K.**, Singh, Y., Khurana, J.P., Glibert, J.A., and Lal, R. (2017). Comparative Genomic Analysis Reveals Habitat-Specific Genes and Regulatory Hubs within the Genus *Novosphingobium*. *mSystems*. 2: e00020-17. **Impact factor: 6.28.**

20. **NEGI, R. K.**, Joshi, B. D., Johnson, J. A., De Rahul, and Goyal, S. P. 2017. Phylogeography of freshwater fish *Puntius sophore* in India. *Mitrochonrial DNA Part A*. 24: 1-13. **Impact Factor: 0.9.**
21. **NEGI, R. K.**, Joshi, B. D., Johnson, J.A., and Goyal, S.P. 2016. Identifying *Puntius* species using DNA barcodes: Implication in Wildlife forensics. *Int. J. Mol. Zool.* 6:1-5.
22. **NEGI, R. K.**, Joshi, B. D., Johnson, J. A. and Goyal, S. P. 2016. Application of computational methods in fish identification using mt DNA sequences. *Curr. Sci.* 110: 2172-2176. **Impact Factor: 0.756.**
23. **NEGI, R.K.**, and Joshi, B. D. 2015. Genetic diversity between populations of the Genus *Schistura* McClelland from the Garhwal and Kumaun region Using RAPD marker. *Biotechnology*. 7: 71-79.
24. **NEGI, R. K.**, and Rani, S. 2015. Contamination profile of DDT and HCH in packaged milk samples collected from Haridwar, India. *Int. J. Pure App. Biosci.* 3: 121-127.
25. **NEGI, R. K.**, and Maurya, A. 2015. Heavy Metal Concentrations in Tissues of Major Carp and Exotic Carp from Bhagwanpur Fish Pond, India. *J. Fisheries and Aquatic Science*. 10: 543-552 **Impact Factor: 1.6.**
26. **NEGI, R. K.**, Tyagi, P., and Joshi, B. D. 2015. Morphometric Analysis of *Schistura montanus* from the Garhwal and Kumaun regions in Uttarakhand State, India. *World J. Fish and Marine Sciences*. 7: 400-403.
27. Thakur, R. K., **NEGI, R. K.**, and R.R. 2015. Scanning electron microscopy & EDAX study of scales of genus *Puntius*. *Research & Review J. Zoological Sci.* 3: 25-32.
28. **NEGI, R. K.**, and Tyagi, P. 2014. Length-weight relationship of *Schistura savona* (Ham.) from Song river of Garhwal Himalayas of Uttarkhand State, India. *International J. Biology and Biological Sciences*. 3: 045-046.
29. **NEGI, R. K.**, and Mamgain, S. 2014. Geomorphological features of Tons river of Uttarakhand State, India. *Singapore J Scientific research*. 4: 9-14.
30. **NEGI, R. K.**, and Mamgain, S. 2014. Anthropogenic stress on Tons river within Dehradun district of Uttarkhand state, India. *Int. J. Applied and Natural Sciences*. 3: 1-5.
31. **NEGI, R. K.**, and Rajput, A. 2013. Effect of pulp and paper mill effluents on the physico-chemical of water of Ganga river at Bijnor. *J.Env. Bio-Sci.* 27: 247-252.

32. Mamgain, S., and NEGI, R. K. 2013. Physico-chemical analysis of water of Tons river with in Dehradun district Uttarakhand. *J. Env. Bio-Sci.* 27: 239-242.
33. NEGI, R. K. 2013. Length-weight relationship and condition factor of *Labeo rohita* from Bhagwanpur fish pond Roorkee Uttarakhand, India. *Biolife.* 1: 170-171.
34. NEGI, R. K., Yadav, N., and Vishnoi, V. 2013. Phytoplankton diversity of some selected streams of Dehradun district of Uttarakhand state. *Biolife.* 1: 165-170
35. NEGI, R. K., and Rajput, A. 2013. Impact of pulp and paper mill effluents on phytoplankton community structure in Ganga river at Bijnor UP, India. *J. Entoml and Zoology Studies.* 1: 70-73.
36. NEGI, R. K., and Rajput, A. 2013. Impact of pulp and paper mill effluent on the diversity of Zooplankton in Ganga river water at Bijnor UP, India. *J. Biology.* 1: 112-117.
37. NEGI, R. K. 2013. Length- weight relationship of *Schistura montanus* from Hinval freshwater stream of Garhwal Himalaya of Uttarkhand State, India. *Int. J Scientific Research.* 2: 561.
38. NEGI, R. K. 2013. Length -weight Relationship of *Schistura rupecola* (McClelland) from Song River of Garhwal Himalaya of Uttarkhand State, India. *European Academic Research.* 1: 2682-2685, **Impact Factor: 0.32.**
39. NEGI, R. K., and Rajput, A. 2013. Impact of pulp and paper mill effluents on the diversity of macro-invertebrate fauna of river Ganga river at Bijnor, UP, India. *Int. J. Applied and Natural Sciences.* 2: 91-96.
40. NEGI, R. K. and Negi, T. 2013. Scale ultrastructure and EDX analysis of *Barilius bendelisis* using scanning electron microscope. *Novus Natural Science Research.* 2: 9-14.
41. NEGI, R. K., and Rajput, V. 2013. Diversity of phytoplankton in relation to different environmental variables in Bhimtal Lake of Kumaon Himalaya of Uttarakhand State, India. *Int. J. Advance Research.* 1: 171-175.
42. NEGI, R. K., and Mamgain, S. 2013. Species diversity, abundance and distribution of fish community and conservation status of Tons river of Uttarakhand State, India. *J. Fisheries and Aquatic Sciences.* 8: 617-626.
43. NEGI, R.K., and Mamgain, S. 2013. Seasonal variation of benthic macro invertebrate from Tons river of Garhwal Himalaya Uttarakhand. *Pakistan J. Biological Sciences.* 16: 1510-1516.

44. **NEGI, R. K.**, and Mamgain, S. 2013. Zooplankton diversity of Tons river of Uttarakhand State India. *Int. J. Zoology and Research*. 3: 1-8.
45. **NEGI, R.K.**, Jauhri,T., and Adil. 2013. Fish scale as a reliable tool for RAPD studies. Novus International. *J. Biotechnology and Bio-Science*. 2: 1-6.
46. **NEGI, R.K.**, Kaushik, A., and Raza, K. 2012. Fish scale as reliable tool for the species identification by using SEM. *J. Env. Bio-Sci*. 26: 153-155.
47. **NEGI, R.K.**, Joshi, P.C., and Negi, T. 2012. Seasonal variation and species composition of phytoplankton in Ganga river and its tributaries at Garhwal region, Uttarakhand, India. *Int. J. Zoology and Research*. 2: 19-30.
48. **NEGI, R.K.**, and Rajput, V. 2012. Fish Diversity in Two Lakes of Kumaon Himalaya Uttarakhand, India. *Research Journal of Biology*. 2: 157-161.
49. **NEGI, R. K.**, and Rajput, A. 2011. Diversity of phytoplankton in the streams of Kumaon Himalaya. *Int. J. The Ecoscan*. 5: 15-19.
50. **NEGI, R. K.**, and Mamgain, S. 2011. Energy dispersive X-ray microanalysis (EDX) of scale of *Schistura montanus* (McClelland, 1838). *Intl. J. The Bioscan*. 6: 403-404.
51. Rajput, V., and **NEGI, R. K.** 2011. Comparative study on gross primary productivity and net primary productivity of Nanital and Bhital lakes of Kumaon Himalaya of Uttarkhand, India. *J. Env. Bio-Sci*. 25: 353-356.
52. **NEGI, R. K.**, and Negi, T. 2010. Length-weight relationship of *Schizothorax richardsonii* from Uttarkashi district of Uttarkhand state. *Uttar Pradesh J. Zoology*. 30: 359-363.
53. **NEGI, R. K.**, and Negi, T. 2010. Diversity of zooplankton in the Hinval freshwater stream at Shivpuri (Garhwal region), Uttarakhand. *J. Env. Bio-Sci*. 24: 167-169.
54. **NEGI, R. K.**, Johal, M.S., and Rawal, Y.K. 2010. Use of ultrastructure of the scale of hillstream fish, *Schistura montanus* (McClelland) as new taxonomic tool. *J. Bioscan*. 5: 395- 397.
55. **NEGI, R. K.**, and Negi, T. 2010. Analysis of morphometric characters of *Schizothorax richardsonii* (Gray, 1832) from the Uttarkashi District of Uttarakhand State, India. *J. Biological Sciences*. 10: 536-540.
56. **NEGI, R. K.**, and Negi, T. 2010. Assemblage structure of stream fishes in the districts of Almora at Kumaon region. *Life Science J*. 7: 9-13. **Impact Factor: 0.50.**
57. **NEGI, R. K.**, Joshi, P.C and Negi, T. 2010. Fish community structure and habitat preference in Hinval freshwater stream of Garhwal Himalayas, India. *J. Environmental*

58. Rajput, V., Jong, T.F., and **NEGI, R. K.** 2009. Hydrological study of Naini lake (Nainital), India. *J. Flora and Fauna*. 15: 83-86.
59. Rajput, V., and **NEGI, R. K.** 2009. Pisci-fauna of district Almora, Uttarakhand. *J. Flora and Fauna*. 15: 317-320.
60. **NEGI, R. K.**, Thakur, C. S., and Kumar, P. 2009. Fish diversity in glacial and spring fed water bodies of Champawat district in the Kumaon region of Uttarakhand State, India. *J. Sustainability science and management*. 4: 1-8.
61. **NEGI, R. K.**, and Negi, T. 2009. Length-weight relationship of *Puntius conchoni* (Ham.) from the lakes of Kumaon region. *Pb. Univ. Res. J. (Sci.)* 59: 71-75.
62. **NEGI, R. K.**, Kumar, N., and Tyagi, V.V. 2009. Study on some selected physico-chemical parameters of effluents of Star pulp and paper mill Saharanpur. *J. Env. Bio-Sci.* 23: 197-200.
63. **NEGI, R. K.**, Negi, T., and Joshi, P.C. 2008. Study on the physico-chemical parameters of Hinval freshwater stream and Ganga river at Garhwal region. *J. Env. Bio-sci.* 22: 203-212.
64. Joshi, P.C., Negi, T., and **NEGI, R. K.** 2007. Seasonal variation in benthic macro-invertebrates and their correlation with the environmental variables in Hinval freshwater stream in Garhwal region (India). *Life Science J.* 4: 85-89. **Impact factor:0.50.**
65. **NEGI, R. K.**, Pathak, C., and Sankar, K. 2007. Preliminary study on heavy metals concentration in vegetables, soil and water samples of Dehradun city. *Him. J. Env. Zool.* 21: 227-233.
66. **NEGI, R. K.**, Sharma, A., and Panwar, S. 2007. Characterization of liquid and solid waste of pulp and paper industries. *Him J. Env. Zool.* 21: 151-156.
67. **NEGI, R. K.**, and Joshi, P. C. 2006. Foraging behavior of *Apis mellifera* L. (Hymenoptera: Apidae) on *Brassica juncea*. *Entomon.* 31: 145-148.
68. **NEGI, R. K.**, Johal, M.S., and Negi, T. 2006. Study of the physico-chemical parameters of water of Pong dam reservoir H.P. A: Ramsar site. *Him. J. Env. Zool.* 20: 247-251.
69. Johal, M.S., **NEGI, R. K.**, and Singh, O. 2005. Length-weight relationship of golden mahseer *Tor putitora* (Ham.) from Pong dam reservoir. H.P. *Uttar Pradesh J. Zool.* 25: 85-88.
70. **NEGI, R. K.**, and Johal, M. S. 2005. Ichthyofaunal diversity of Pong dam reservoir in H.P., India. *Him. J. Env. Zool.* 19: 219-222.

71. Johal, M.S., **NEGI, R. K.**, and Negi, T. 2004. Diversity of phytoplankton and zooplankton of Pong wetland H.P., India. *Him. J. Env. Zool.* 18: 159-163.
72. Johal, M.S., and **NEGI, R. K.** 2003. Maturity, fecundity and sex ratio of an endangered fish golden mahseer *Tor putitora* (Ham.) from Pongdam reservoir, Himachal Pradesh. *Pb. Univ. Res, J. (Sci.)* 53:57-65.
73. Johal, M.S., and **NEGI, R. K.** 2003. Food and feeding habit of different size groups of golden mahseer *Tor putitora* (Ham.) from Pongdam reservoir, Himachal Pradesh. *Pb. Univ. Res, J. (Sci.)* 53: 49-56.
74. Johal, M.S., Braich, O.S., **NEGI, R. K.**, and Rawal, Y.K. 2003. Economic evaluation of Pongdam reservoir situated on the river Beas, Himachal Pradesh, *Pb. Fish Bull.* 23: 5-11.
75. Johal, M.S., **NEGI, R. K.**, and Negi, T. 2003. Morphometric and meristic characters of golden mahseer *Tor putitora* (Ham.) from Pongdam reservoir, H.P., India. *Him. J. Env. Zool.* 17: 101-10.
76. Johal, M.S., **NEGI, R. K.**, and Negi, T. 2003. Age and growth of golden mahseer *Tor putitora* (Ham.) from Pongdam reservoir, H.P., India. *Him. J. Env. Zool.* 17: 17-29.

#### **Publications In Proceeding**

77. **NEGI, R. K.**, and Rajput, A. 2011. Diversity of phytoplankton in relation to physico-chemical factors of river Ganga at Bijnor, UP. Proc. Advances in natural product in chemistry and sustainable development 277-282 pp organized by Graphic Era University, Dehradun UK from 4-5th June 2011. 277-282 pp.
78. **NEGI, R. K.**, and Fong, T.F. 2009. Ichthyological diversity in the rivers of Uttarakhandi Garhwal Himalaya (Uttarakhand), India. Proc. 2nd National Symposium on Biodiversity: Cell & Molecular Biology organized by Department of Zoology Panjab University, Chandigarh from 1st-2nd March, 2009, 49-50 pp.
79. **NEGI, R. K.** 2008. Impact of hydrological projects on the fishery of Pongdam reservoir wetland and Gobindsagar reservoir in Himachal Pradesh (India). Proceeding of Taal 2007: 12th World Lake conference 2001-2008 pp.
80. **NEGI, R. K.**, Joshi, B. D., Negi, T., and Chand, P. 2007. Study of stream morphology of some selected hill streams of district Nainital with special reference to its biotic communities. In: Proc. of DAE-BRNS National symposium on Limnology(NSL-07),(eds. B.Venkatramani,V. D. Puranik, S. K. Apte,H.N. Gour,L. L. Sharma, S. K. Sharma, V. S. Durve, H. C. C. Gupta, P. C. Verma, B. K. Sharma), 288-295 pp.
81. **NEGI, R. K.**, and Singh, O. 1998. Observation on Mahseer from Pong reservoir and adjoining streams. Proc. On Indo-US workshop on conservation and development of natural fishery resources of Western Himalayas 93-97 pp organized by department of

**Publications in the Last one year**

1. Sharma, M., Khurana, H., Singh, D.N. and **Negi, R. K.** 2020. The genus *Sphingopyxis*: Systematics, ecology, and bioremediation potential-A review. *Journal of Environmental Management*, p.111744. **Impact Factor: 5.647.**
2. Khurana, H., Singh, D.N., Singh, A., Singh, Y., Lal, R., and **NEGI, R. K.** 2020. Gut microbiome of endangered *Tor putitora* (Ham.) as a reservoir of antibiotic resistance genes and pathogens associated with fish health. *BMC Microbiology*, 20, 1-18. **Impact Factor: 2.989.**
3. Kumar, R., Verma, H., Singhvi, N. Sood,U. Gupta, V., Singh,M., Kumari, R., Hira, P., Nagar,S., Talwar,C., Nayyar,N., Anand,A., Rawat,C., Verma,M., **NEGI, R. K.**, Singh,Y. and Lal,R. 2020. Comparative Genomic Analysis of Rapidly Evolving SARS-CoV-2 Viruses Reveal Mosaic Pattern of Phylogeographical Distribution. *mSystems* 5: e00505-20. **Impact Factor: 6.280.**
4. Khurana, H., Sharma, M., Verma, H., Lopes, B.S., Lal, R., and **NEGI, R.K.** 2020. Genomic insights into the phylogeny of *Bacillus* strains and elucidation of their secondary metabolic potential. *Genomics*. 112: 1391-3200. ISSN: 0888-7543. **Impact Factor: 6.2.**
5. Talwar, C., Singh, A.K., Choksket, S., Korpole, S., Lal, R., and **NEGI, R. K.** 2020 *Salinicoccus cyprini* sp. nov., isolated from the gut of mirror carp, *Cyprinus carpio* var. *specularis*. *Int. J. Syst. Evol. Microbio.*. ISSN: 1466-5026. **Impact Factor: 2.4.**
6. Kaur, H., Prasad, S., Alan Warren, A., **NEGI, R.K.**, and Kamra, K. 2020. Taxonomic resolution of *Stylonychia notophora* (Alveolata,Ciliophora, Hypotricha) sensu Sapro and Dass 1970 using an integrative approach. *IJSEM*. 70: 3939–3952. ISSN: 1466-5026 **Impact Factor: 2.4.**
7. Talwar, C., Nagar,S., Kumar, R. , Scaria, J., Lal,R., **NEGI, R. K.** 2020. Defining the Environmental Adaptations of Genus *Devosia*: Insights into its Expansive Short Peptide Transport System and Positively Selected Genes. *Sci. Reports*. 10: 1151. ISSN 2045-2322. **Impact Factor: 3.998.**
8. Verma, H., Dhingra, G. G., Sharma, M., Gupta, V., **NEGI, R. K.**, Singh, Y., and Lal, R. 2020. Comparative genomics of *Sphingopyxis* spp. unravelled functional attributes. *Genomics* 112:1956-1969. ISSN: 0888-7543. **Impact Factor: 6.2.**

**Conference Organization/ Presentations (in the last three years)**

## 2016-2017

**Chaired Session** at Golden jubilee celebrations of National conference on Evolving new horizons of Zoological sciences in human welfare organized by Department of Zoology Kurukshetra University, Kurukshetra from 23<sup>rd</sup> November to 24<sup>th</sup> November, 2016.

## 2017-2018

**Member of Local Organizing Committee** at Indo-US workshop and international symposium on Biological timing and health issues in the 21<sup>st</sup> century organized by Department of Zoology, University of Delhi from 22<sup>nd</sup> February to 24<sup>th</sup> February, 2017.

**Session chaired** in INSCR international conference (IIC-2017) on role of microbe-plant-animal interaction in human organized by department of zoology, University of Delhi under banner INSCR from 26-28 September 2017.

**Session chaired** in Himachal Pradesh science congress on science & Technology for sustainable livelihood in Indian Himalaya region organized by Himachal Pradesh council for science and technology and environment from 20-21 November 2017.

## 2018-2019

**Expert** for the technical session on Veterinary Sciences and Animal Husbandry, Zoology during 13<sup>th</sup> Uttarakhand State Science and Technology Congress 2018-2019 from 26<sup>th</sup>-28<sup>th</sup> February 2019 at UCOST, Vigyan Dham, Dehradun.

## 2019-2020

**Invited talk:** Delivered invited talk in 107<sup>th</sup> Indian Science Congress Association in Animal, Veterinary and Fisheries section on 05<sup>th</sup> January 2020 held at University of Agriculture Sciences, Bangalore from 03<sup>rd</sup>-07<sup>th</sup> January 2020.

## Research Projects (Major Grants/Research Collaboration)

### Current ongoing Research Projects

1. To study the microbial diversity associated with fish gut by using culture-dependent and independent approaches “NBAIM/AMAAS/2017-21”. (PI) 32,52,300/-
2. Remediation and Reclamation of Hexachlorocyclohexane (HCH) Dumpsite by using Microbial Bioremediation Technology “DBT 2018-2020”. (Co-PI) Cost: 1,11,29.856/- (2 years extension requested).
3. DNA barcoding of Ecologically and Economically Important Ichthyofauna of River Beas, Himachal Pradesh, India. SERB 2019-2022.(PI) Cost: 36,99,360/-
4. Reassessment and Validation of Taxonomic Characterization of Ecologically and Economically Important Ichthyofauna Threatened by Mega-Development Activities on Western Himalayan River Basin (AICOPTX) MoEFCC. Cost: 41,02,896/- 2019-2022.(PI).

5. Exploring the gut microbiome of exotic and indigenous carps Faculty Research Programme Grant (FRP)-IOE, 2020-2021 (PI), Cost: 2,50,000. (PI.)

### **Research Projects Completed**

**2012-2015:** Principal Investigator of the Project: “Genetic diversity between two populations of *Schistura* by using RAPD markers” Sponsored by University Grants Commission.

**2015-2016:** Principal Investigator of the Project: “To find out the intra and inter specific variability in the morphology of otoliths of genus *Barilius* from river Beas of Himachal Pradesh India” Research & Development Project 2015-2016.

### **Awards and Distinctions**

1. Elected annual member for the **North Zone in “Animal, Veterinary and Fisheries section”** in Indian Science Congress Association 2020-2021.
2. Invited talk: Delivered invited talk in 107<sup>th</sup> Indian Science Congress Association in Animal, Veterinary and Fisheries section on 05<sup>th</sup> January 2020 held at University of Agriculture Sciences, Bangalore from 03<sup>rd</sup>-07<sup>th</sup> January 2020.
3. Invited talk: INSCR international conference (IIC-2018) organized by KIIT Bhubaneswar, Odisha, India from 26<sup>th</sup> to 27<sup>th</sup> September 2018.
4. Invited to Co-Chair: Himachal Pradesh science congress on Science and Technology for sustainable livelihood in Indian Himalaya region organized by Himachal Pradesh council for science and technology and environment from 20-21 November 2017.
5. Chair session at INSCR International Conference (IIC-2017) on Role of Microbe-Plant-Animal Interactions in Human Health from September 26-28, 2017 at University of Delhi, India.
6. Invited to Co-chair 2<sup>nd</sup> Himachal Pradesh science congress on Science & Technology for sustainable livelihood in Indian Himalayan region from November, 20-21. 2017.
7. Invited to Chair technical session on Golden Jubilee celebration National conference on evolving new horizons of Zoological Science in human welfare from November 23-24, 2016.
8. Awarded **Gold medal by Indian Academy of Environmental Science** on “International Symposium on “Biodiversity: Status, Utilization and Impact of Challenging Climatic Conditions” to be organized by Babasaheb Bhimrao Ambedkar University (A Central University), in collaboration with Indian Academy of Environmental Sciences, Haridwar, in Lucknow during October 30-31, 2014.
9. International travel grant award by CSIR to present 9<sup>th</sup> Asian Fisheries and aquaculture

Forum at Shanghai Oceanic University, Shanghai, China from April, 21<sup>st</sup> to April 25, 2011.

10. Invited and honored for judging Science exhibits in district level Science Fair, 2011 organized by Govt. of Uttarakhand, State at Haridwar.
11. Invited and honored for Judging oral /Poster presentations of students in First International Conference on Management Ecosystem Health of Tropical seas at Malaysia from 19-10-10 to 21-10-10.
12. Invited and honored for judging poster competition of 3<sup>rd</sup> consecutive year of symposium on Biologic'10 at Beehive College of Advance studies, Dehradun, Uttarakhand in 2010.
13. International travel grant award by DST to present 1<sup>st</sup> International conference on managing ecosystem health of tropical seas at Putrajaya Marriott Hotel, Malaysia from 19<sup>th</sup> October to 21<sup>st</sup> October, 2010.
14. International travel grant award by UGC-Unassigned grant to present research paper in International Symposium of Aquaculture and Fisheries Education at Asian Institute of Technology, Pathumthani, Bangkok, Thailand 2009.
15. 2<sup>nd</sup> Best poster presentation award on International Symposium of Aquaculture and Fisheries Education at Asian Institute of Technology, Pathumthani, Bangkok, Thailand 2009.
16. Invited and honored for judging Science exhibits in 3<sup>rd</sup> state level Science Fair, 2007 organized by Govt. of Uttarakhand, State.

#### **Seminars/Symposium/Conferences attended/Presented papers**

1. Invited talk: Delivered invited talk in 107th Indian Science Congress Association in Animal, veterinary and Fisheries section during 05/01/2020 held at University of Agriculture sciences, Bangalore from 3 to 07 January 2020.
2. Subject expert for the technical session on Veterinary Sciences and Animal Husbandry, Zoology during 13th Uttarakhand State Science and Technology Congress 2018-2019 from 26th-28th February 2019 at UCOST, Vigyan Dham, Dehradun.
3. Himachal Pradesh science congress on science & Technology for sustainable livelihood in Indian Himalaya region organized by Himachal Pradesh council for science and technology and environment from 20-21 November 2017. (Session chaired).
4. INSCR international conference (IIC-2017) on role of microbe-plant-animal interaction in human organized by department of zoology, University of Delhi under banner INSCR

from 26-28 September 2017. (Session chaired).

5. Subject expert in 10<sup>th</sup> Uttarakhand State Science & Technology Congress 2015-16 at Uttarakhand State Council for Science & technology, Dehradun from 10-12 February, 2016.
6. Chaired Session at Golden jubilee celebrations of National conference on Evolving new horizons of Zoological sciences in human welfare organized by Department of Zoology Kurukshetra University Kurukshetra from 23rd November to 24<sup>th</sup> November, 2016.
7. 8th Chandigarh Science Congress organized by Panjab University, Chandigarh from 26-28 Feb. 2014 (Poster Presented).
8. National seminar on Environmental Issues and Challenges (NSEIC) organized by department of Geography & Zoology, Devta P.G. College Morna, Bijnor U.P. India, from 9<sup>th</sup> -10<sup>th</sup> November, 2013 (Presented Paper).
9. National seminar on Status of environment and biodiversity: Rio+ 20 and role of space technology organized by Department of Zoology and Environmental Sciences, Gurukula Kangri University, Haridwar 2<sup>nd</sup> -3<sup>rd</sup> November, 2012 (Paper presented).
10. National seminar –cum-workshop on exploring new vista in biodiversity research for sustainable development at Panjab University, Chandigarh from 22<sup>nd</sup> January to 24 January, 2011 (Poster presented).
11. National seminar on Advances in Biological sciences organized by Department of Zoology, Panjab University, Chandigarh, 29<sup>th</sup> to 30<sup>th</sup> March, 2010.
12. National symposium on Impact of trends in climate change on biodiversity and faunistic system. Dept. of Zoology & Environmental Sciences, Gurukula Kangri University, Hardwar. 19<sup>th</sup> -20<sup>th</sup> Feb., 2010. (Session chaired and paper presented).
13. National seminar on wetland conservation and management organized by Department of Zoology, Guru Nanak Dev University, Amritsar, 2<sup>nd</sup> to 3<sup>rd</sup> Feb., 2010
14. UGC- SAP sponsored National seminar on Status of Bio-diversity and conservation organized by Department of Zoology & Environmental Sciences, Gurukula Kangri University, Hardwar from Feb. 27-28, 2009 (Paper presented).
15. UGC Sponsored 2<sup>nd</sup> national Symposium on Biodiversity: Cell & Molecular Biology Department of Zoology, Panjab University, Chandigarh 1<sup>st</sup> -2<sup>nd</sup> March, 2009 (Poster presented).

16. 18th All India Congress of Zoology & National seminar on current issues on Applied Zoology and Environmental Sciences with reference to (SCIAZE) organized by Department of Zoology Lucknow University, Lucknow, 7th -9th December, 2008 (Paper presented).
17. 78th Annual Session of the Academy organized by National Academy of Sciences India at Panjab University, Chandigarh 21st -23rd November, 2008
18. 3rd National Seminar on Status of Biodiversity among the mountainous States of India Organized and presented paper. Dept. of Zoology & Environmental Sciences, Gurukula Kangri University, Harwar 15th -16th March, 2008. (Paper presented).
19. . Second Annual Seminar on Biodiversity of Himalayan State with special reference to Uttarakhand organized by Department of Zoology & Environmental Sciences, Gurukula Kangri University, Harwar 19th-20th March, 2007. (Paper presented).
20. National Seminar on New trend on development on Indian Fisheries organized by Department of Zoology, Panjab University, Chandigarh, 16th -18th Feb., 2005. (Paper presented).
21. XXV Annual Conference of Electron Microscope & Allied Field organized by Electron Microscope Society Of India and IIT Mumbai, 20th -22nd Feb, 2002. (Paper presented).
22. XXIV Annual Conference on Electron Microcopy and Allied Field. Organized by Electron Microscopy Society of India and Panjab University, Chandigarh, 9th -11th Feb. 2001.
23. Indian Society of Fisheries Professional organized by Indian Society of Fisheries Professional Mumbai and Panjab University, Chandigarh 21st -23rd Sep. 2000. (Paper presented).
24. IIIrd Punjab Science Congress and Symposium on 100 years of post Mendelian genetics: Advent of Biotechnology Organized by department of Biotechnology, Panjab University, Chandigarh 10th -12th December, 1999.
25. Indian Science Congress Association organized by Panjab University, Chandigarh, 11 Nov, 1997
26. All India Congress of Cytology and Genetics Organized by Department of Zoology, Panjab University, Chandigarh, 22nd -25th ,Nov., 1996.
27. UGC Workshop on Apiculture operations Organized by Department of Zoology, Panjab University, Chandigarh 3rd -5th March, 1996.

### Training Courses/ International Conferences Organized

1. Member of Local Organizing Committee at Indo-US workshop and international symposium on Biological timing and health issues in the 21st century organized by Department of Zoology, University of Delhi from 22nd February to 24th February, 2017.
2. Deputy Coordinator of one week workshop on “Taxonomic keys and identification tools of different groups of flora and fauna including molecular markers” organized by Department of Zoology & Environmental Sciences, G.K.V. Haridwar from 3rd March to 8th March, 2014.
3. Deputy Coordinator of one week workshop on “Taxonomic keys and identification tools of different groups of flora and fauna” organized by Department of Zoology & Environmental Sciences, G.K.V. Haridwar from 29<sup>th</sup> October to 3rd November, 2012.

### Association With Professional Bodies

1. Life member of Indian Science Congress
2. Life member of Indian Academy of Environmental Science
3. Life member of Aquatic Biodiversity and Conservation Society
4. Life member of Asian Fisheries Society
5. Life member of Zoological Society of India
6. Life member of Association of Microbiologists of India
7. Member of Aquatic Ecosystem Health and Management Society
8. Annual member of National Institute of Ecology

### Other Activities

#### Visiting Scientist/Meeting Participations Abroad

1. International Symposium on Aquaculture and Fisheries Education, Asian Institute of Technology, Pathumthani, Bangkok, Thailand 26<sup>th</sup> – 30<sup>th</sup> Nov., 2009 (**Poster presented**).
2. First International conference on managing ecosystem health of tropical seas at Putrajaya Marriott Hotel, Malaysia from 19<sup>th</sup> October to 21<sup>st</sup> October, 2010 (**Paper presented**).
3. 9<sup>th</sup> Asian Fisheries and aquaculture Forum at Shanghai Oceanic University, Shanghai, China from April, 21<sup>st</sup> to April 25, 2011 (**Paper presented**).



Signature of Faculty Member