


## Curriculum Vitae

<b>Full Name</b>	Dr Koshal Kumar			
<b>Designation</b>	Assistant Professor			
<b>Department</b>	Himalayan Aquatic Biodiversity (HAB)			
<b>Campus</b>	Birla Campus Srinagar			
<b>School</b>	School of life Sciences			
<b>Mobile</b>	9682359704			
<b>Email</b>	<a href="mailto:koshalbagelu@gmail.com">koshalbagelu@gmail.com</a>			
<b>Education Qualification</b>	M.Sc., Ph.D., PGDHE			
<b>Teaching Experience</b>	05 Year	<b>Research Experience</b>	10 Year	
<b>Areas of Interest/ Specialization</b>				
<p>I am dedicated and actively engaged in the arena of research for last more than ten Years in the field of Himalayan Aquatic Biodiversity (Crustacean fishery, Bionomics of freshwater prawns, Benthic fauna and Ecology including Hydro-ecology of various riverine systems of Garhwal Himalayas)</p>				
<b>Honours &amp; Awards</b>				
<ol style="list-style-type: none"> <li><b>Certificate of Recognition</b> by Society for Himalayan Action Research and Development” (SHARAD), Pauri Garhwal Uttarakhand, 2021</li> <li><b>ESDA Environmentalist Award 2020</b> in Word Environmental Summit 2020 by ESDACON, Delhi.</li> <li><b>Young Scientist Award</b> in 2<sup>nd</sup> National Conference Cum Workshop, 2019, Mathura UP</li> <li><b>National Fellowship for Higher Education (NFHE)</b> 2016, UGC New Delhi.</li> <li><b>Young Scientist Award</b> in 5<sup>th</sup> UCOST Congress-2010</li> </ol>				
<b>Membership of Scientific Organization</b>				
<ol style="list-style-type: none"> <li>Life time member of “<b>Environment and Social Development Association (ESDA)</b>, 2019</li> <li>Life time member of “<b>Society for Himalayan Action Research and Development” (SHARAD)</b>, Pauri Garhwal Uttarakhand, 2017</li> <li>Lifetime membership of <b>ISCA Haridwar Chapter</b>, 2016</li> </ol>				
<b>Research Supervision (No. of Ph.D. Degree Awarded/ Registered)</b>				
NA				
<b>Research Projects/ MoU undertaken- Nil</b>				

**Administrative Experience- Nil**

**Training/Workshop**

1. Two days “Entrepreneurship Development Programme (EDP) in Biotechnology” being organized at “**Seminar Hall, Academic Activity Centre, Chauras Campus, Hemvati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand**” on **27-28 February 2023** by the Uttarakhand Council for Biotechnology, Govt. of Uttarakhand and Biotech Consortium India Limited (BCIL), New Delhi.
2. One day workshop on “**Intellectual property rights (IPR)**” at Campus Hall, BGR Campus Pauri Jointly Organized by UCOST, Dehradun, and Department of Chemistry, HNB Garhwal University, BGR Campus Pauri (Garhwal) on 26 March 2019
3. One day workshop on **Laboratory Bio-safety protocol** at Department of Zoology & biotechnology HNB Garhwal University, Srinagar (Garhwal) on 24 April 2018
4. Capacity Building Program by Agriculture Education Division-ICAR Short Course on “**Broodstock Improvement and Quality Fish Seed Production through Genetic Tools**” at ICAR- CIFA, Kausalyaganga, Bhubaneswar –751002 10 Days (15- 24 March 2018)
5. Workshop on “**Ganag Sanraksan and Swachta ke Jan Jagruktaa**” at Manmanthan Auditorium, H N B Garhwal University Srinagar (Garhwal) on 13 September 2017.
6. Training Course in “**Molecular Biology and Molecular Diagnostic (Basic and Applied Aspects)**” 30 days in Central Molecular Research Laboratory, Biochemistry Department of SGRR Dehradun. 1–30 June 2015.
7. National workshop on “**Taxonomic Keys and Identification Tools of Different Groups of Flora and Fauna Including the Molecular Tools**” 6 days in Gurukula Kangari University, Haridwar, at Department of Zoology and Environmental Science Sponsored by UCOST, 3–8 March 2014.
8. Short term Training On “**Advance Techniques in Biotechnology**”, 13 days in IBT Patwadangar, Nanital, 14–26 November 2011.
9. Hand on Training Programs in the Area of “**Modern Biotechnology**”, 7 days in IIT Roorkee, Department of Biotechnology, 1–7 January 2011.

## Conference/Symposium/Workshop Attended during last five years (2017-2022)

### International

1. Impact of Environmental factors on Aquatic biodiversity: A case study in Rawasan stream, Central Himalaya, Uttarakhand, India” **World Environment Summit 2020**, held on 18-19 January 2020 at Paintal Memorial Auditorium, Vallabhshai Patel Chest Institute, University of Delhi, Delhi-110007
2. Aquatic Biodiversity Study in Rawasan stream: An Important tributary of River Ganga in Garhwal, Central Himalaya, India. **International Conference On Global Environmental Challenges Human Health and Sustainable Development with Global Environmental Exhibition**, 11– 13 January 2019 at The Convention Centre, Jawaharlal Nehru University, Delhi (India)
3. Biology of freshwater prawn from the Rawasan stream of Uttarakhand. **International Seminar on Environmental Degradation-Cause and Consequences** on 25 Feb 2018 at KGK College Moradabad.
4. Reproductive biology of freshwater prawn *Macrobrachium assamense peninsulare* (Decapods: Palaemonidae) in the Rawasan stream, Central Himalaya, Uttarakhand, India **International Conference In Zoological Sciences**, Punjabi University, Patiala from 26 to 28 October 2017.

### National

1. Biodiversity profile of Rawasan stream: An important tributary of River Ganga in Central Himalaya, India. **2<sup>nd</sup> National Conference Cum Workshop on “Channeling as Tool and Techniques to Agriculture Biotechnology, Microbiology & Molecular Biology in 21<sup>st</sup> Century”** Department of Biotechnology and Microbiology, Kalp Laboratories, Mathura UP, 24<sup>th</sup> -25<sup>th</sup> November 2019
2. Benthic Fauna Study of Rawasan Stream in Central Himalaya, Uttarakhand India. **12<sup>th</sup> USSTC Dehradun** 7-9 March 2018.
3. Taxonomical Status Of Minor Fresh Water Prawn Form Rawasan Stream Of Garhwal Himalaya, Uttarakhand, India **11<sup>th</sup> USSTC Dehradun** 2-4 March 2017.
4. Ecological Studies On Benthic Community of Rawasan Stream In Uttarakhand, India **National Conference On Environmental Protection And Sustainability (NCEPS)** Chennai 31 December to 01 January 2017

### **Conference/Symposium/Workshop Organized during last five years (2017-2022)**

1. Organizer Secretary of **“International e-Conference on “Emerging Innovation and Advancement in Biological Science, Human Welfare and Agriculture Research” in Current Era”** Organized by Department of Biotechnology & Microbiology, Kalp Laboratories, Mathura and The Bouquet Society, Mathura, on 25th -27th of July-2020.
2. Organizer of **“Webinar on Indian Citation Index”** Jointly organized by DNA Labs -A Centre for Applied Sciences Dehradun, Uttarakhand and Indian Citation Index, Dew Delhi on 04 July 2020.
3. Organizing Secretary of **National e-Symposium On “Challenges for Immunity Booster Foods & Herbal Remedies against COVID-19 and its Vaccines Development-2020”** Date: 27th to 28th of June, 2020 Organized by Kalp laboratories, Mathura
4. Co-Chairperson in **“National Online Conference” on “Environment, Human Health and Sustainable Development Goals”** and **World Environment Day Celebration** organized by ESDA Delhi held on 5-6 June 2020
5. Coordinate of **“National Online Conference” on “Environment, Human Health and Sustainable Development Goals”** and **World Environment Day Celebration** organized by ESDA Delhi held on 5-6 June 2020
6. Co-organizing Secretary of **“International Webinar on COVID:19 Present, Future Prospects and it's Management”** Organized by Department of Biotech. & Microbiology, Kalp Lab. Mathura, Jointly Organized by The Bouquet Society, Scheduled on 19<sup>th</sup> to 22<sup>nd</sup> May 2020.
7. Program Coordinator of **Uttarakhand Science Education and Research Centre (USERC), Department of Science and Technology, Government of Uttarakhand** for organizing various awareness/Sensitization programs on various diseases in Uttarakhand in collaboration with DNA Labs-A Centre for Applied sciences (DLCAS), Dehradun, Uttarakhand

### **Publications during last five years (2017-2022)**

1. P R Singh, **Koshal Kumar** and A K Dobriyal (2022) Survey on Biotic Communities of The Ganga River System Around Prayagraj (Allahabad), India J. Mountain Res. 17(2), (2022), 279-282, P-ISSN-0974-3030, E-ISSN: 2582-5011 (NAAS 2.26, ICV 2018: 56.50, Cosmos IF 2018-5.945) UGC-CARE List as Group II and Web of Science (WoS). DOI:

<https://doi.org/10.51220/jmr.v17i2.31>

2. Mohd Tariq, CB Kotnala, **Koshal Kumar** and AK Dobriyal (2022). Current status of ichthyofaunal diversity of glacier fed stream Balkhila from Garhwal Himalaya. J. Mountain Res. 17(1), 9-16, P-ISSN-0974-3030, E-ISSN: 2582-5011 (NAAS 2.26, ICV 2018: 56.50, Cosmos IF 2018-5.945) UGC-CARE List as Group II and Web of Science (WoS). DOI: <https://doi.org/10.51220/jmr.v17i1.2>
3. Preeti Saini and **Koshal Kumar** (2021) Checklist of butterflies (Insecta: Lepidoptera) in Pauri city of Garhwal Himalaya, Uttarakhand, India. Int J Entom Res., 6(2) 161-169 ISSN: 2455-4758; NAAS 3, Impact Factor: RJIF 5.24) UGC-CARE List as Group II and Web of Science (WoS) <http://www.entomologyjournals.com/search?keyword=6-2-16>
4. Monika Bansal, Ankush Sharma, Ram Krishan, Rajesh Kumar, **Koshal Kumar** and Smita Badola (2021) Biometric study of the deep bodied Mahseer *Tor tor* (Hamilton Buchanan) from Ujh River, Kathua (J&K) J. Mountain Res. 16(3), 189-199, P-ISSN-0974-3030, E-ISSN: 2582-5011 (NAAS 2.26, ICV 2018: 56.50, Cosmos IF 2018-5.945) UGC-CARE List as Group II and Web of Science (WoS). DOI: <https://doi.org/10.51220/jmr.v16i3.20>
5. Shweta Rana and **Koshal Kumar** (2020) Diversity of Grasshopper (Insect: Orthoptera) Fauna of Uregi and Dobha Villages in Pauri Garhwal, Uttarakhand, India. J Mountain Res, 15: 189-196. P-ISSN-0974-3030, E-ISSN: 2582-5011 (NAAS 2.26, ICV 2018: 56.50, Cosmos IF 2018-5.945) UGC-CARE List as Group II and Web of Science (WoS). DOI: <https://doi.org/10.51220/jmr.v15i1.22>
6. **Koshal Kumar**, Rana AR and Kotnala CB (2020) Evaluation of feeding indices to analyse the feeding rate and food preference of *Macrobrachium assamense peninsulare* in the Rawasan stream, Uttarakhand, India. J Mountain Res, 15: 71-79. P-ISSN-0974-3030, E-ISSN: 2582-5011 (NAAS 2.26, ICV 2018: 56.50, Cosmos IF 2018-5.945) UGC-CARE List as Group II and Web of Science (WoS). DOI: <https://doi.org/10.51220/jmr.v15i1.8>
7. **Koshal Kumar** (2020) Behavior study of Freshwater prawn *Macrobrachium assamense peninsulare* in Aquarium Culture. J Aquac Mar Biol. 9(6): 216-218, eISSN:2378-3184 DOI: 10.15406/jamb.2020.09.00298
8. Pankaj Bahuguna, H K Joshi and **Koshal Kumar** (2019) A Report on Drifting Behaviour of Odonata (Aquatic Insects) In Kyunja Gad, A Spring Fed Tributary Of River Mandakani, Chamoli Garhwal, Uttarakhand. J Mountain Res, 14(2): 63-67. P-ISSN-0974-3030, E-ISSN:

2582-5011 (NAAS 2.26, ICV 2018: 56.50, Cosmos IF 2018-5.945)

9. **Koshal Kumar**, Kotnala CB, Rana AR (2019) Fecundity and egg dimension of freshwater prawn *Macrobrachium assamense peninsulare* (Tiwari, 1958) from Rawasan stream of Garhwal, Central Himalaya, India. Aquac Res, 50 (12):3608-3615, ISSN: 1355-557X E-ISSN: 1365-2109 (UGC-CARE List as Group A and Web of Science (WoS). NAAS-7.48. <https://doi.org/10.1111/are.14317>, Impact factor: 1.502 ISI Journal Citation Reports © Ranking: 2018:30/52 (Fisheries)
10. Sharma N, **Koshal Kumar**, Kumar Y, Kumar Y, Aren A, Gairola Y, Kishor K, Nautiyal SC (2019) 2009 Influenza A (H1N1) Virus Pandemic with Respect to Indian Scenario: An Update. Glob J Biosci Biotechnol, 8 (3):246-253. ISSN (Online): 2278-9103 ISSN (Print): 2278-8891 (NAAS 4.13, IF: 4.125 UGC list No 63319).
11. Sharma N, **Koshal Kumar**, Kumar Y, Mahato B, Kumar Y, Rana A, Kaundal S, and Nautiyal SC (2019) Study of Pandemic 2009 Influenza A (H1N1) Virus by Cellular and Molecular Profiling in Uttarakhand population: Clinical influence and epidemiology. Int J Bioassays, 8(2): 5734-5739 ICV Value 90.04, E-ISSN: 2278-778X. <http://dx.doi.org/10.14303/ijbio.2019.8.2.1>
12. Baluni P, **Koshal Kumar**, Joshi, HK (2018) Ecology, Distribution Pattern, Density and Diversity of Periphyton in Khankra Spring Fed Stream of Garhwal Himalaya, India. J Mountain Res, 13:95-99. ISSN-0974-3030 (SIF 2.15 NAAS 2.26).
13. Awasthi, C, Singh, A, Sharma, N, Sharma, MD and **Koshal Kumar** (2018) Characterization of Dengue Virus by Molecular and Serological methods in Clinical Isolates and its association with Disease Monitoring. Int J Res Anal Rew, 5(4):560-566 <http://doi.org/10.1729/Journal.19273> UGC approved Journal (UGC Journal NO: 43602) IF 5.4, E-ISSN 2348-1269, P- ISSN 2349-5138.
14. **Koshal Kumar**, Anita Rawat Rana and CB Kotnala, (2018) Taxonomic Study and Identification Character of Freshwater Prawn *Macrobrachium Assamense Peninsulare* (Tiwari, 1958) In Garhwal Region of Central Himalaya, India. Int J Res Anal Rew, 5(4): 485-491: E-ISSN 2348-1269, P- ISSN 2349-5138 <http://doi.org/10.1729/Journal.18981> (UGC Journal NO: 43602) IF 5.4.
15. **Koshal Kumar**, Jitendra Singh Rana, Anita Rawat Rana and Kotnala, CB (2017) Checklist of Benthic Macroinvertebrate Communities of Stream Rawasan In Garhwal Region (Central

Himalaya), Uttarakhand (India). J Mountain Res 12: 91-95. ISSN-0974-3030 (SIF 2.15 NAAS 2.26), (UGC Journal NO: 43054).

16. **Koshal Kumar**, Kotnala, CB and Anita Rawat Rana (2017) Evaluation of Gonadal Indices to understand the reproductive rhythm of *Macrobrachium assamense peninsulare* from Rawasan stream of Uttarakhand, India. Env Cons J 18 (1 & 2): 21-25. ISSN 0972-3099 (Print) 2278-5124 (Online) (UGC Journal NO: 19733, NAAS, 4.52). <https://doi.org/10.36953/ECJ.2017.181204>

**Book Chapter:**

1. **Koshal Kumar**, Anoop K Dobriyal and Anita Rawat (2023) Aquatic Invertebrates Serve As An Effective Tool For Monitoring and Assessing Water Quality “*Water: Science & Technology*” ISBN: 978-93-94424-62-3 (Ed. Dr Anita Rawat), USERC Edition: 2023 Published by ABS Books, Budh Vihar Phase-2, Delhi - 110086
2. **Koshal Kumar** (2020) Physiography Study of Rawasan Stream In The Garhwal Region Of Central Himalaya Uttarakhand, India Pp 57-67 Geography of River System, ISBN - 978-93-90586-74-5 Publish by Evincepub Publishing, Bilaspur, Chhattisgarh (Ed, Dr Biplab Tripathy)
3. **Koshal Kumar** (2020) Threats to Mother Earth in the light of COVID-19 and Impact of Lockdown on Society: Probable Solutions. In Book entitled "Impact of COVID-19 & Pandemic Lockdown in India: Ramification in Environment and Human Life". Pp 216-222 (ISBN: 978-81-946233-5-9) Eureka Publications 2020

**Total Number of Research Publications: (27 Research Papers 15 International and 12 National and 05 Chapters in Edited Book)**

**Date: July 2023**

**Place: Srinagar (Garhwal)**

  
**(Dr Koshal Kumar)**