


Curriculum Vitae Prof. N K Agarwal

Full Name	Dr. N. K. Agarwal			
Designation	Professor & Convenor Zoology, Badshahithaul Campus			
Department	Zoology Department			
Campus	SRT Campus Badshahithaul			
Address	Department of Zoology, School of Life Science H.N.B. Garhwal University, S.R.T. Campus Badshahithaul-249 199, Tehri Garhwal (Uttarakhand)			
Telephone		Telefax		
Mobile	+91 9412987440			
Email	agarwalnareshk3@rediffmail.com			
Education Qualification	M.Sc. (Zoology) H.N.B. Garhwal University, 1983 D. Phil. (Zoology), H.N.B. Garhwal University, 1989			
Teaching Experience	29 Years	Research Experience	36 Years	
Research Interest and Fields of Specialization				
1. Fish Biology 2. Limnology 3. Biodiversity				
Honours & Awards				
1. Gold medal and fellow award of ASEA (Action for Sustainable, Efficacious development and Awareness) in 2007.				
2. Fellow Award from MANU- International Council for Man and Nature in Aug. 2010.				
3. Fish & Fisheries award of ASEA (Action for Sustainable, Efficacious development and Awareness) for the year 2010.				
Member of Academic Institutions				
1. Co-opted Member, Board of Studies of Zoology, Aligarh Muslim University, Aligarh 2020				
2. Member RDC, SDS Uttarakhand University, 2020				
3. Member (DG, ICAR Nominee) for DPC of ICAR-DCFR, Bhimtal 21 Jan.2019				
4. Member Expert for DPC of ICAR-DCFR, Bhimtal 19-20 July 2019				
5. Convener, UG & PG Syllabus restructure committee, SDS Uttarakhand University, 2018				
6. Member (UGC nominee) UGC-SAP advisory committee 2017, Jammu Univ., Jammu				
7. Member, Editorial Board, Environment Conservation Journal				
8. Member, RDC (Zoology) CCS Meerut University 2017				
9. Member, Faculty Board Life Science, MJP Rohilkhand University 2017, 2019, 2020				
10. Member, Board of Studies, Zoology and Biotech., HNB Garhwal Univ. since 2014 to till date				
11. Convener/ member of Various committees for approval of courses in affiliated colleges of SDS Uttarakhand Univ. 2016-19				
Membership of Scientific Organization				
1. Life member Coldwater Fisheries Society of India, DCFR-ICAR, Bhimtal				
2. Life member of Inland fisheries society of India, Central Inland Capture Fisheries Research Institute, Barrackpore (WB).				
3. Life member of Indian Fisheries Association, CIFE Versova, Mumbai.				
4. Life member of Society of Bio-science, Mujaffarnagar.				
5. Life member of Action for Sustainable Efficacious Development and Awareness, Rishikesh.				
6. Life member of Fresh water Biological Association of India , Bhagalpur				
7. Life member of Zoological Society of India, Bodh Gaya.				
8. Life member of Nature Conservators, Muzaffarnagar				

Research Supervision (No of Ph.D. Degree Awarded)

Awarded : 08 Registered : 01

Research Projects

Title	Funding Agency	Total Cost	Completed/On going
1. Reproductive strategies of snowtrout (<i>Schizothorax</i> sp.) with reference to environment of river Bhagirathi and Bhilangana of Tehri Garhwal PI : Prof N. K. Agarwal	ICAR New Delhi	Rs 7.64 Lac.	Completed (1998 – 2001)
2. Developing cryopreservation protocols for spermatozoa of snowtrout and other endangered cold water species. PI : Prof N. K. Agarwal	ICAR New Delhi	Rs 16.25 Lac.	Completed (2002-2005)
3. Coldwater fish diversity and fisheries of the river Ganga and its tributaries in Garhwal Himalaya: Re-assessment and Inventorization in reference to habitat fragmentation. PI : Prof N. K. Agarwal	UGC New Delhi	Rs 9.84 Lac	Completed (2010-2013)
4. Genetic diversity molecular delineation and phylogenetic kinship in the declining population of four species of <i>Channa</i> from North India and possible conservation strategies. P.I. Prof. Iqbal Parwez, AMU, Aligarh Co-PI : Prof N. K. Agarwal	DBT New Delhi	Rs 54.29 lac for AMU & Rs 5.24 lac for HNBGU	Completed (2011-2014)

Administrative Experience

1. In-charge, Head, Environment Science, Badshahithaul Campus since 2005
2. Chief Election Officer, Student Union Election 2019-20 SRT Campus
3. Nodal officer in UKSEE 2018 entrance exam of Uttarakhand Technical University
4. Micro-observer, Loksabha Election 2017
5. Convener, Admission Committee (B.Sc. I Bio group) session 2015-16, 2017-18, 2019-20
6. Joint Secretary, HNB Garhwal University Alumni Association 2018-20.
7. Convener, Admission Committee (B.Sc. III sem Bio group) session 2018-19
8. In-charge Head, Department of Zoology, SRT Campus, Badshahithaul 2017-18
9. Convener, Campus Purchase committee for the session 2017-18
10. Deputy Proctor, HNB Garhwal Univ., Badshahithaul Campus during 2015-16
11. Observer, Uttarakhand PMT 2015
12. Convener, Admission Committee (B.Sc. II Bio group) session 2014-15,
13. Member, Admission Committee (M.Sc. Zoology) since 2014
14. Deputy Dean Student Welfare (Badshahithaul Campus) session 2013-14
15. Member Inspired Teacher Network (Badshahithaul Campus) 2013-14
16. Member Campus Administrative Committee for the session 2009-10, 2011-12
17. Assistant Dean Student Welfare (Badshahithaul campus) for the period 2004-07 and 2009-2010, 2011-13)

18. In-charge, Student Union during the session 2004-05, 2005-06, 2012-13, 2013-14
19. Assistant Election officer, Student Union Election, Badshahithaul campus during the session 2006-07, 2008-09
20. Programme officer NSS Unit Badshahithaul campus 2001-02
21. Assistant Proctor (Badshahithaul campus) during the session 1995-96
22. Centre Superintendent Exam, Assistant Superintendent Exam in SRT campus during different academic session

Conference/Symposium/Workshop Attended during last five years (2015-2020)

International

1. Participated in International Webinar on '**Perspective on Fish Taxonomy**' organised by Department of Zoology, Bajkul Milani Mahavidyalaya, Medinipur, West Bengal, India on 21st September, 2020.
2. Participated in International Webinar on '**Impact of Covid -19 on Research and Academic Activities**' organised by Department of Physics, Govt. P.G.College, New Tehri, Tehri Garhwal India from 19-20 June, 2020.
3. Participated in Indo-Egyptian Webposium on '**Covid Reality: Cost of Human Lives and Economy of the World**' organised by CSM University Kanpur on 18th May, 2020.
4. Chaired technical session and delivered invited talk on '**Fish diversity of upper Ganga river system and Challenges to its conservation**' in International Conference on '**Contemporary Issues of Climate Change, Conservation of Biodiversity and Natural Resources in Himalayan Environments**' organized by Department of Zoology, Govt. P.G. College, New Tehri Uttarakhand (India) from Nov. 14-16, 2019.
5. Chaired technical session '**Rivers & Dams**' and also presented a research paper entitled '**River Fragmentations and their Impact on Fish Diversity in Upper Ganga River System, Central Himalaya (India)**' in International Seminar on '**Himalayan Challenges: Towards Interdisciplinary Dialogues for Sustainability and Development**' organized by SDS Uttarakhand University from 29th Nov.-1st Dec 2017.

National

1. Resource Person and delivered keynote lecture on '**Hydropower Projects on the Upper Ganga River System: Fragmenting Rivers, changing habitat and Fish Diversity**' in National Conference on "**Geology and Natural Resources of India**" organized by Department of Geology, Pt. L.M.S. Government P.G. College, Rishikesh from 25-26 November, 2019.
2. Resource person and delivered invited talk on '**Evaluation of Semen Characteristics and Extenders Competency during Refrigerated Storage of Snowtrout (*Schizothorax richardsonii*) Semen**' in national symposium on 'Coldwater Fisheries Development in India: Innovative Approaches and Way Forward for Enhancing Hill Farmers Income' and Foundation Day Celebration at ICAR DCFR, Bhimtal from September 24-25, 2019
3. Resource person and delivered 2 lectures on 'Environmental Issues' in 3-week **UGC Refresher Course in Environment studies** at UGC Human Resource Development Center of **Kurukshetra University, Kurukshetra** on 9th Feb. 2019.
4. Delivered invited talk on "**Effect of Water Withdrawals and Impoundments on Fish Assemblages in upper Ganga river system in central Himalaya**" in National Seminar on "**Frontiers in Environment. Health & Biosciences**" organized by Institute of Biosciences & Technology, C.S.J.M. University Kanpur, U.P. from 16-17th February, 2019.
5. Delivered invited lecture on "**Effect of Water Withdrawals and Impoundments on Fish Assemblages in upper Ganga river system in central Himalaya**" in National Seminar on

“Challenges in Biodiversity Conservation & Management” organized by Department of Zoology, University of Jammu from 20th to 21st December 2018.

6. Resource Person (Chaired technical session) and delivered lecture on **‘Fish Community structure and functions along the altitudinal gradient in river Alaknanda of central Himalaya, India.’** in 11th National Conference of Medical Arthropodology on **“VECTOR-BORNE AND ZONOTIC DISEASES: Surveillance & Control under dynamics of global warming, climate change and environment”** organized by DAV PG College Dehradun from 26-27th October 2018.
7. Delivered invited lecture on **“The Hydropower Projects in Ganga river Basin: Environmental Aspects”** in one week short term course on ‘Hydro Power Generation: Technologies and Policies’ organized by THDC Institute of Hydro engineering and Technology from 27th Aug-01 Sept 2018.
8. Delivered technical talk on ‘Snow trout: Causes of Depletion and strategies for its propagation and conservation’ at College of Fisheries, G.B. Pant University of Agriculture and Technology, Pantnagar on 17th April 2018.
9. Participated as resource person on 10th Jan 2018 and delivered lectures on ‘*Microscope Practical Demonstration: Calculating cell size*’ in **‘One week workshop on Basic Research Techniques’** organized by Department of Zoology, Jammu University Jammu from 8th-13th Jan 2018.
10. Attended National Workshop on ‘Role of Open Educational Resources in Higher Education’ organized by Faculty Development Centre, H N B Garhwal University Srinagar Garhwal from 15-17th December, 2017.
11. Chaired technical session and delivered Invited lecture on *‘Ecological impacts of Dams on the Fish Diversity of Bhagirathi River in Central Himalaya’* in **International Seminar on Himalayan Challenges: Towards Interdisciplinary Dialogues for Sustainability and Development’** organized by Sri Dev Suman Uttarakhand University at Doon University Dehradun from 29th Nov-1st Dec 2017
12. Delivered Lead lecture on **‘Ecological impacts of Dams on the Fish Diversity of Bhagirathi River in Central Himalaya (India)’** in National Seminar on ‘Strategies, Innovations and sustainable Management for enhancing coldwater Fisheries and aquaculture’ organized by DCFR-ICAR, Bhimtal from 22-24 September 2017.
13. Participated as Subject expert in the meeting held on 29th March 2016 for the implementation of E-Learning programme of RUSA Project at Directorate of RUSA Project, Dehradun
14. Actively Participated in National Consultation on **‘Rainbow Trout Farming: Prospects and Challenges for Strategic Development’** Organized by ICAR- Directorate of Coldwater fisheries Research, Bhimtal from 20-21 Sept. 2015.
15. Chaired session and delivered an invited lecture on ‘Cryopreservation of Fish Semen: Basic Principle for cold water fish species.’ in National Symposium on **‘The role of Classical Zoology in present day Scenario.’** organized by Department of Zoology, R.G.P.G. College Meerut from 19-20 December 2015.
16. Chaired session and delivered an invited lecture in National seminar on **‘Science and Technology for Human Development’** organized by Department of Zoology, Jammu University Jammu from 25-27th March 2015.

Conference/Symposium/Workshop Organized during last five years (2015-2020)

Member organising committee of **International Seminar on Himalayan Challenges: Towards**

Interdisciplinary Dialogues for Sustainability and Development' Jointly organized by Sri Dev Suman Uttarakhand University and Doon University Dehradun from 29th Nov-1st Dec 2017.

Publications during last five years (2015-2020)

Journals

1. Charak S. R., Chaudhary, D.K. and **Agarwal N.K.** (2020). A study on the Physical and biochemical characteristics of semen of *Tor putitora* - an endangered fish species in Himalayan water. Indian J Animal Research. DOI: 10.18805/ijar.B-4127. (**Impact Factor 0.395**) ISSN: 0976-0555
2. Raghuvanshi S. K., Charak S. R. Agarwal N. K. (2019). Semen Characteristics and Extenders Competency during Refrigerated Storage of Snowtrout (*Schizothorax richardsonii*) Semen. Int. J. Fish. Aquat. Stud.. 7(6): 350-354 Online ISSN : 2347-5129
3. **Agarwal N. K.**, Rawat, U. S. and Singh G. (2019). Fish assemblages and habitat ecology of River Pinder in central Himalaya, India. Iranian J. Fisheries Sciences.18 (1):1-14 DOI: 10.22092/ijfs.2018.118930. **ISSN:1562-2916 (Impact Factor 0.495)**
4. **Agarwal, N. K.**, Singh, H., Singh, A. and Singh, G. (2018). Bhilangana river regulation for hydro power project in central Himalaya: Impact on Planktonic Assemblages. Biojournal, 13(1):1-10. **ISSN:0970-9444.**
5. Alauddin A., Chaturvedi S., Malik, M.Y., Azmi L., Shukla I., Naseem Z., Rao C.V. and **Agarwal N K.** (2018). Formononetin and biochanin A protects against ritonavir induced hepatotoxicity via modulation of NfkB/pAkt signaling molecules. Life Sciences 213:174-182. <https://doi.org/10.1016/j.lfs.2018.10.023>. **ISSN: 0024-3205 (Impact Factor 3.448)**
6. Alauddin A., Chaturvedi S., Azmi L., Shukla I., Naseem Z., Rao C.V. and **Agarwal N K.** (2018). Gastroprotective Effect of Formononetin against Ethanol-Induced Gastric Ulceration in Rats via Augmentation of Cytoprotective Markers and Curtailing Apoptotic Gene Expression. Phcog Mag 14: pp S605-12. **DOI: 10.4103/pm.pm_205_18. ISSN : 0973-1296 (Impact Factor 1.525)**
7. **Agarwal, N. K.**, Singh G., Singh H., Kumar, N. and Rawat, U. S. (2018). Ecological impacts of Dams on the Fish Diversity of Bhagirathi River in Central Himalaya (India). Journal of Coldwater Fisheries 1(1): 74-84.
8. Charak S. R., **Agarwal N.K.** and Shah T. K. (2018). An Approach for determination of semen quality of golden mahseer (*Tor putitora*) from central Himalaya. The Pharma Innovation Journal. 7(1):83-86.
9. Singh Gurnam and **Agarwal N. K.** (2017). Impact of hydropower project (RoR) on the ichthyofaunal diversity of river Birahiganga in central Himalaya (India). Journal of Fisheries. 5(2) : 507-512.
10. Gupta A., Ahmad I, Kureel J., John A.A., Sultan E., Chanda D., **Agarwal N.K.**, Alauddin, Wahajuddin, Prabhaker S., Verma A., Singh D. (2016). Differentiation of skeletal osteogenic progenitor cells to osteoblasts with 3,4-diarylbenzopyran based amide derivatives: Novel osteogenic agents. European journal of Medicinal Chemistry 121: 82-89. <http://dx.doi.org/10.1016/j.ejmech.2016.05.023> (**Impact Factor 3.9**)
11. Rawat U.S. and **Agarwal N.K.** (2015). Biodiversity: Concept, threats and conservation. Environment Conservation Journal. Vol. 16 (3): 19-28.

Proceedings/Book Chapter

1. **Agarwal N. K.**, Singh H., Singh G. and Charak S. (2018). Bhilangana River Impoundment:

Consequences to riverine environment. In: Water Biology (eds Khanna D. R. Bhutyani R.)
Discovery Publishing House Pvt. Ltd., New Delhi (India). pp 82-94. (ISBN-978-93-5056-888-0)

Books

Authors, Title of book, Publisher, year

The Ganga in the Himalayas: Fish Diversity and Environment (2021)

pp 184, ISBN 978-93-89996-81-4

Agarwal, N. K. And Singh, G.

Narendra Publishing House, New Delhi (India)



Water Biology. (2018). 379 p. ISBN-978-93-5056-888-0

(Eds) Khanna D. R., Bhutyani R., Gautam A., Pathak S. K. and **Agarwal N.K.**

Discovery Publishing House Pvt. Ltd., New Delhi (India).

Fish Reproduction (2008) p157. ISBN 978-81-313-0357-3

Agarwal, N. K.

APH Publishing Corporation, New Delhi



Recent Researches in Aquatic Environment (1996) p.190

(Eds. Gautam A. and **Agarwal N.K.**)

Daya Publishing House, Delhi.



Total Number of Research Publications : 63 (Sixty three)

Google scholar Citation : 518 citations, h-index : 12, i10 index : 16 (as on Nov. 2020)

Web of Science Researcher ID: AAJ-3176-2020

ORCID ID: <https://orcid.org/0000-0003-0759-9450>