

## BIODATA OF PROFESSOR ANOOP K. DOBRIYAL



1. **Name:** Dr. Anoop Kumar Dobriyal
2. **Date of Birth:** 31<sup>st</sup> May, 1959
3. **Present Position:**
  - (i) Professor and In-charge Head  
Department of Zoology and Biotechnology  
H.N.B.Garhwal University (A Central University) Campus,  
Pauri Garhwal-246001, Uttarakhand, India  
**(Professor since 2001)**
  - (ii) **Regional Director (Pauri Garhwal)-Additional Charge**  
Uttarakhand Open University,  
Haldwani **(2012 onwards)**
4. **Worked as:**
  - (i) **Professor, HOD and Convener BOS**  
Department of Zoology and Biotechnology  
H.N.B.Garhwal University (A Central University)  
Srinagar Garhwal-246174, Uttarakhand, India
  - (ii) **Director, HNB Garhwal University BGR Campus Pauri Garhwal**  
**(2015 -2018)**
4. **Present Basic pay (After 7<sup>th</sup> Pay Commisiion):**  
**Rs. 2,18,200/-**
5. **Address for correspondence:**  
**Prof. Anoop Dobriyal**  
Chandola Bhavan, Thana Mohalla,Pauri Garhwal- 246001.  
(Mobile-9412960687; Phone®: 1368222925)  
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## 6 Academic Qualification:

- (i) M.Sc. (Zoology- Specialization in Ichthyology) -1979  
(Gold Medalist), HNB.Garhwal University, Srinagar Garhwal
- (ii) Doctor of Philosophy (Fish Biology and Aquatic Biodiversity)- 1985

7. Teaching Experience: 35 Years

8. Research Experience: 38 Years.

9 Student awarded D. Phil. Degree under supervision and their

Present position: 23 (+ 2 working)

(i) Dr. Anil Kumar Bahuguna (1991): Studies on the Gondal cycle and spawning ecology of *Barilius barna* (Ham.). Principal, Secondary School

(ii) Dr. Neeraj Kumar (1992): Ecological studies on the macrozoobenthic communities of some hillstreams of Alaknanda river system. Associate Professor (Meerut College)

(iii) Dr. Chandra Bhanu Kotnala (1992) : Ecological studies on the primary productivity of river Nayar. Assistant Professor (HNBGU)

(iv) Dr. Kuldeep Singh Negi (1999): Some aspects of fish biology of *Crossocheilus latius latius* (Ham.) correlated with its riverine environment. Associate Professor (Govt. College)

(v) Dr. Kum Kum Rautela (1999): Ecological studies on the spawning biology of some coldwater fishes of Khoh stream. Principal Govt. PG College Lansdown

(vi) Vinteshwar Prasad Balodi (2001): Ecological studies on the macrozoobenthic communities of the Nayar river system. Assistant Professor (HNBGU)

(vii) Ms. Anju Thapliyal (2003): Some aspects of fish biology of the hillstream catfish *Pseudecheneis sulcatus* (Mc Clelland) from Garhwal Himalaya, Uttaranchal.

Assistant Professor (Govt PG College, Kotdwar)

(viii) S.P.Uniyal (2004). Fish biological investigations on *Tor chinoides* (McClelland) correlated with its habitat ecology in the Western Nayar.

Assistant Professor (Govt. PG College Gopeshwar)

(ix) Ravindra Singh (2005): Some aspects of fish biology and parasitology of *Noemacheilus botia* (Ham.) from Khoh river. Assistant Professor (HNBGU)

(x) Pramila Bahuguna (2006): Cyclic histological and histochemical changes in the gonads of mahseer, *Tor putitora* (Ham.) correlated with its migratory behaviour from Doon valley.

Principal GGIC)

(xi) Kishor Kumar (2006): Some aspects of fish biology and habitat ecology of a hillstream fish *Botia dayi* Hora from Garhwal Himalaya, Uttaranchal. Lab Technician (PG College)

- (xii) **Manish Kukrety (2006):** **Biology of Chukar partidge from Garhwal Himalaya, Uttarakhand.** **Assistant Professor (Govt. PG College Gopeshwar)**
- (xiii) **Pankaj Bahuguna (2008)** Fish biology of *Puntius conchonius* (Ham.-Buch) from Garhwal Himalaya. **Assistant Professor (Govt. PG College Agastmuni)**
- (xiv) **Sandhya Goswami (2009)** Ecology and biodiversity of Mandal from Garhwal Himalaya. **Scientist**
- (xv) **Vikas Sharma (2011)-** In Vitro Rapid mass multiplication and molecular validation of *Swertia chirayita*. **Assistant Prof. ARNI University, Kathgarh, Indora (HP)176401)**
- (xvi) **Nidhi Srivastava (2011)-** In Vitro Rapid mass multiplication and molecular validation of *Aconitum heterophyllum*. **Assistant Professor, SBS PGI Balawala D.dun)**
- (xvii) **Maryada Goyal (2011)-** Studies on Isolation, Purification, Kinetic Characterisation, and Immobilisation of  $\alpha$ -amylase from some legumes of Garhwal Himalayan Region **Assistant Professor in Private College (Haryana)**
- (xviii) **Deepesh Bhatt (2012).** Molecular cloning and In Silico Characterization of apx gene from *Elucine coracana*. **Assistant Professor S R K I SURAT, Gujrat**
- (xix) **Ram Krishan (2012).** Fish biology of *Amblyceps mangois* (Hamilton- Buchanan) from Garhwal Himalaya, Uttarakhand. **Asistant Professor Govt College , Srinagar J & K.)**
- (xx) **Rattan Deep Singh (2012).** Evaluation of In Vitro digestibility, haemagglutinating activity and characteristics of  $\alpha$  amylase inhibitor- A study of selected *Phaseolus vulgaris* cultivars of Uttarakhand. **(Assistant professor, BFIT, D Dun)**
- (xxi). **Shashi Yadav (2016).** “Isolation and genetic characterization of *Aeromonas* spp. from aquatic environment”. **Bank employee**
- (xxii) **Mohd. Rashid. (2019).** Fish Biology of *Mastacembelus armatus* (Lacepede) from river Nayar, Garhwal Himalaya, Uttarakhand (Submitted) **(Lecturer in Biology, J&K)**
- (xxiii) **Mohd Sagir (2019)** Impact of vegetation on Periphyton communities of river Nayar. (Thesis submitted) **(UGC-CSIR SRF)**
- (xxiv). **Shailja Negi (Registered since 2017) .** Diversity and drifting patterns of water mites from spring-fed streams of Garhwal Himalaya. **(JRF in Project)**
- (xxv). **Deeksha Mangain (Registered in 2019).** Ecological study of benthic communities and their contribution to fishery in the spring-fed stream Basti damaar, a tributary of river Mandakini from Rudraprayag Garhwal, Uttarakhand. (SGRR University Dehradun)

## 10. Invention

**Dobriyal Index** for determination of sexual maturity in Fishes: *Dobriyal, A.K., Rautela, K.K., and Rautela, A.S. Uttar Pradesh Journal of Zoology, 19:207-209.* (AVAILABLE ON INTERNET- DICTIONARY OF ICHTHYOLOGY) – Researchers are using this index round the world.

## 11 Publications:

- (A) **Research Paper published:** **180**
- (B) **Books (Edited; Co-author):** **04**
- (i) Biological Diversity in Freshwater Environment (2005, Co-Editor): Transmedia, Media House, Srinagar Garhwal. P. 332
  - (ii) Uttaranchal main Matsyiki ki bhavi sambhavnayan: Proceedings of National Seminar in Hindi (2005, Co-Editor): CIFE, Mumbai. P. 222
  - (iii) Advances in Animal Sciences (M. Phil. Course Book for Chaudhary Devi Lal University, Hariyana)- 2007-(Kumar and Dobriyal)
  - (iv) Biology of ornamental fish *Puntius conchoni* (Ham. Buch.). (Pankaj Bahuguna and A K Dobriyal, 2018, NPH Delhi) pp 226 (ISBN: 978-93-87590-46-5). In Press

## 12 Awards/Honors/Fellowships

- (i) (FAEB)-Fellow of Academy of environmental Biology- 1981-82
- (ii) **Young Scientist Award- Asian Fishery Society, Indian Branch – 1987**
- (iii) **(FZSI)-Fellow of zoological Society of India- 1989**
- (iv) **Group Study Exchange (Cultural Exchange) Award-Pennsylvania and Maryland, USA- Rotary Foundation. 1993**
- (v) (FSB)-Fellow of Society of Biosciences – 1995
- (vi) **Scientist of the year Award- 2002 by NATIONAL ENVIRONMENTAL SCIENCE ACADEMY, NEW DELHI.**
- (vii) **(FIFSI)- Fellow of Inland Fisheries Society of India- 2004**
- (viii) (FIAES)- Fellow of Indian Academy of Environmental Sciences- 2005
- (ix) ASEA Fisheries Award- 2006
- (x) (FASEA)- Fellow of Action for Sustainable, Efficacious Development and Awareness, India.2006
- (xi) RASHTRIYA SHIKSHA SAMMAN AWARD- 2009 by Council for Economic Growth and Research, New Delhi
- (xii) PAUL HARRIS FELLOW OF ROTARY FOUNDATION (2010)
- (xiii) FANSF (Fellow of Applied and Natural Science Foundation)- 2011
- (xiv) **Silver Jubilee Gold Medal of Indian Academy of Environmental Sciences, Hardwar (2012)**
- (xv) FNSC (Fellow of Natural Science and Culture (2012)

- (xvi) Certificate awarded from Pulse polio India Office, Delhi.(Twice).
- (xvii) 7<sup>th</sup> Academic Brilliance award for Excellence in Research by EET CRS  
Education expo TV NOIDA, (2019)

### **13. Membership/ affiliation to the professional Societies.**

1. Life member of Zoological Society of India.
2. Life member of Society of Bio-sciences.
3. Life member of National Environmental Science Academy, New Delhi
4. Life member of Inland Fisheries Society of India.
5. Life member of Society of Nature conservator
6. Life member of Indian Academy of Environmental Science, Hardwar
7. Life member of Action for Sustainable, Efficacious Development and Awareness,  
Hardwar, India.
8. Life Member of Aquatic Biodiversity Conservation Society, NBFGR,Lucknow
9. Full member of Asian Fishery Society, (Phillippines).
10. Member of Asian Fishery Society, Indian Branch (Mangalore).
11. Member of Bombay Natural History society
12. Member of Council for Economic Growth and Research, New Delhi
12. Member of Editorial Board of various journals from time to time.
13. Member Red cross Society of India, Pauri District
14. Member of Uttar Pradesh Zoological Society (Muzaffarnagar).
15. General Secretary of Society for Himalayan Action Research and Development  
(SHARAD) since 2005
16. Life member of International Council for Man and Nature (MANU)
17. Life Member of Applied and Natural Science Foundation.
- 18 Founder Member of Foundation of Natural Science and Culture

### **14. Attended Seminars/ Symposia/ Workshops/ Conferences/Training courses/Cultural exchange programme /Delivered special lectures: 70**

(In most of the seminars invited lectures were delivered and session was chaired).

**15 ADMINISTRATIVE/ACADEMIC AND OTHER EXPERIENCES.**

1. Regional Director (Pauri Garhwal), Uttarakhand Open University, Haldwani (Working) Since January, 2012
2. HOD Zoology and Biotechnology and Convener of BOS of HNB Garhwal Central University (15.1 2015-14.1.2018)
3. Incharge Head of the Zoology Department of University campus responsible for administrative, academic and financial management of the department since 28.7.1986 (33 Years)
4. Deputy Dean, Students' Welfare (HNB Garhwal Central University)- 2011-2013
5. Assistant Dean Student's Welfare during 1999-2001, 2009-2011
6. Assistant Election Officer for student's union election during 1998-2001
7. Chief Election Officer (Students' Union- 2006-07 and 2008-09)
8. Assistant Proctor of the campus. 1987- 1989, 2002-03
9. Sports secretary of the campus responsible for all sports activities July 1989-July, 1990.
10. Cultural secretary responsible for student's cultural activities, July, 1987-July 1990.
11. Chairman, Academic forum of science faculty. 1987-1990.
12. Member Faculty Board. (Science) Dec. 1993-1996., 2001 onwards
13. Member University Court. since 1986, i.e., 22 years
14. Member of building and boundary wall construction committee. 1996-1997.
15. Member of Admission rules framing committee. 1997-98.
16. Editor of campus bulletin "Himbharati" since 1988 to 2009
17. Editor University News Letter since 2003
18. Member of NAAC committee of HNB Garhwal University (Internal).
19. Member of BOS of HNB Garhwal University
20. Member of BOS and RDC of Allahabad University (2002-04)
21. Member of BOS and RDC of Kumaun University (2008-11, 2019 onwards)
22. Member of BOS and RDC of CSJM Kanpur University (2010-13)
23. Member of BOS of LMS Autonomous Govt PG College, Rishikesh (2010-11, 2016-19)
24. Member of BOS of SGRR University Dehradun (2016-18)
25. Member of BOS of SBS University Balawala (2018 onwards)
26. Member of BOS of Himalayan University Jolly Grant (2019 onwards)

27. General Secretary of Society for Himalayan Action research and Development (SHARAD)- HNB Garhwal university Campus, Pauri Garhwal since 2005
28. Managing Editor of Himalayan Journal of Social Sciences and Humanities since 2006.
29. Professor In-charge Library of University Campus, Pauri (July, 2007- Dec., 2008)
30. Subject expert of Union Public Service Commission, New Delhi and P S C Uttarakhand.
31. Teacher Counselor of Career Counseling and placement cell Pauri Campus (2006- Till Date)
32. Managing Editor of Journal of Mountain Research since 2006.
33. Editor and referee of various journals from time to time (International Journal of Biology, Canada 2010-11, International Journal for Environment and Waste Management- 2009-11 (Inderscience submission system); Essence, an International Journal for Environmental Conservation and Rehabilitation, Hardwar 2010 onwards, Journal of Applied and Natural Sciences, Hardwar, 2010 onwards, Journal of Environment and Biosciences, Hardwar; Agricultural and Biological Research, Lucknow; Journal of Current Sciences, Dumka, ; Indian Journal Environment and ecoplanning, Dumka; Himalayan Chemical and Pharmaceutical Bulletin, Garhwal, Punjab University Research Journal (Science), Chandigarh; Journal of Mountain Research and Himalayan Journal of Social Sciences and Humanities, Pauri Garhwal.
34. In-charge Principal and In-charge Director of Campus from time to time.
35. Assistant Supdt and Senior Supdt of Exam from time to time.
36. Convener, Anti Ragging Committee, HNB GU Campus, Pauri Garhwal- 2011-12, 12-13
37. Coordinator Uttarakhand Open University, Study Center, HNBGU Campus Pauri Garhwal- 25.5.2011- 14.2.2012
38. Member of Inspired Teachers' Network, HNB Garhwal University. (January, 2014 onwards)
39. Expert Member of BOS of Uttarakhand Open Univrsity ( July,2019 onwards)

**(A K Dobriyal)**

### **List of Publications of Prof. A.K.Dobriyal**

1. Singh, H.R. and Dobriyal, A.K. 1981. Potamology of the stream Chakagadera in relation to the productivity of coldwater minor carps in Garhwal Himalaya. *Proc. Indian natn. Sci. acad.* B 47: 652-655.
2. Singh, H.R., Nauriyal, B. P. Kumar, A. and Dobriyal, A.K. 1981. Morphometric abnormalities. And their relationships in two hillstream fishes, *Puntius chilinoides* (Mc Clelland) and *Schizothorax plagiostomus* (Heckel) from Garhwal Himalaya. *International J. Acad. Ichthyol.* 2 : 61-63.
3. Dobriyal, A.K. and Singh, H.R. 1981. Diurnal variation in some aspects of limnology of the river Mandakini from the Garhwal Himalaya. *Uttar Pradesh J. Zool.* 1: 16-18.
4. Badola, S.P., Singh, H.R. and Dobriyal, A.K. 1982. Note on sexual dimorphism in *Barilius bendelisis* (Ham.) *Indian J. Anim. Sci.* 52: 1284- 1286.
5. Singh, H.R. and Dobriyal, A.K. 1982. First Report on the occurrence of *Botia geto* (Ham.) in the river Alaknanda of Garhwal Himalaya. *Proc. Nat. Acad. Sci.* 52.. 137-139.
6. Singh, H.R., Dobriyal, A.K.,Bhatt, J.P., Bahuguna, S.N. and Singh, W. 1982. An abnormal specimen of *Crossocheilus latius latius* (Ham.) from the Garhwal Himalaya. *Proc. Nat. Acad. Sci. India.* 52 B: pp. 326.
7. Singh, H. R., Nauriyal, B.P. and Dobriyal, A.K. 1982. Fecundity of a hillstream minor carp *Puntius chilinoides* (McClelland) from Garhwal Himalaya. *Proc. Indian Acad. Sci. (Anim. Sci.)* 91 : 487- 491.
8. Singh, H.R., Dobriyal, A.K., Nauriyal, P. and Pokhriyal, R.C. 1982. Diurnal cycle of abiotic parameters of the river Nayar during rainy season. *Uttar Pradesh J. Zool.* 2 : 54-55.
9. Singh, H.R., Badola, S.P. and Dobriyal, A.K. 1982. Ecology of the river Nayar of Garhwal Himalaya. *Uttar Pradesh J. Zool.* 2: 72-76.
10. Singh, H.R. and Dobriyal, A.K. 1983. Morphometric characters and their relationships in the catfish, *Pseudecheneis sulcatus* (Mc.Clelland). *Indian J. Anim. Sci.* 53 : 541-546.
11. Dobriyal, A.K. and Singh, H.R. 1983. A case study on the gonadal tumour in *Crossocheilus latius latius* (Ham.) from the Garhwal Himalaya. *Proc. Nat. Acad. Sci. India.* 53 B : 107-108
12. Dobriyal, A.K. , Singh, H.R. and Bisht, K.L. 1983. Diurnal variation in hydrobiological parameters of two hillstreams of Garhwal Himalaya,India. *Uttar Pradesh J. Zool.* 3 : 30-34.
13. Pokhriyal, R.C., Dobriyal, A.K. and Singh, H.R. 1983. Seasonal variation in physicochemical parameters of the stream Khandagad. *Uttar Pradesh J. Zool.* 3 : 70-72.
14. Singh, H.R., Dobriyal, A. K.and Nauriyal, B. P. 1985. Spawning patterns and environmental regulation of spawning in hillstream fishes. In: *The Endocrine System and the Environment* (Ed.) Follett, B.K.et.al. *Japan Sci. Soc. Press. Tokyo Springer- Verlag, Berlin.* Pp.1- 11.
15. Dobriyal, A.K. 1985. Ecology of limnofauna in small streams and their importance to the village life in Garhwal Himalaya. *Uttar Pradesh J. Zool.* 5 : 139- 144.
16. Singh, H.R., Dobriyal, A.K. and Pokhriyal, R.C. 1985. Toxicity of Diammonium Phosphate (DAP) to the hillstream minor carp *Barilius bendelisis* (Ham.). *Uttar Pradesh J. Zool.* 5: 89-93.



17. Dobriyal, A.K. 1986. Breeding of Indian Major carps by hormone stimulation. *Proc. Nat. Symp. on Fish & their Environ.* Pp. 135 - 138.
18. Nautiyal, P., Dobriyal, A.K., Chaukiyal, D.C. and Singh, H.R. Quality and potability of Alaknanda water at Srinagar Garhwal with a note on bacterial density as an indicator of pollution. *Pollution Research* 5 : 143-145.
19. Dobriyal, A.K. and Singh, H.R. 1987. The reproductive biology of a hillstream minor carp *Barilius bendelisis* (Ham.) from Garhwal Himalaya, India. *Vest. Cs. Spolec. Zool.* 51:1 - 10.
20. Singh, H. R., Badola, S.P. and Dobriyal, A.K. (1987). Geographical distributional list of ichthyofauna of Garhwal Himalaya with some new records. *J. Bombay Nat. Hist Soc.* 84: 126-132.
21. Dobriyal, A.K. and Singh, H.R. 1987. A case study on the origin of rhithroplankton in the Garhwal hillstreams. *Agri. Biol. Res.* 3: 104- 106.
22. Dobriyal, A.K. and Bahuguna A.K. 1987. Morphometric characters and their relationships in the hillstream loach *Noemacheilus montanus*. *Himalayan J. Env. Zool.* 1: 23- 27.
23. Singh, H.R. and Dobriyal A.K. 1987. First report on the occurrence of *Botia almorhae* Gray in the river Alaknanda of Garhwal Himalaya. *Proc. Nat. Acad. Sci. India.* 57: 537- 539.
24. Bhatt, J.P., Dobriyal, A.K. and Farswan, Y.S. 1987. Growth response in the fry of *Schizothorax richardsonii* (Gray) to the plant toxins. *J. Environ. Biol.* 8 (2): 207- 215.
25. Chandola, K. Dobriyal, A.K. and Bahuguna, A. 1987. Fish and economy of Garhwal. *Himalaya, Man and Nature* 11: 8- 10.
26. Singh, H.R., Dobriyal, A.K. and Pokhriyal, R.C. 1987. Static bioassay with some freshwater teleosts exposed to Urea. *Himalayan J. Env. Zool.* 1: 70-75
27. Dobriyal, A.K. 1988. Fecundity of the Chinese silver carp *Hypophthalmichthys molitrix* (Val.) from Gujartal Fish Farm, Jaunpur, U.P. *Proc. Indian Acad. Sci. (Anim. Sci.)*. 97(2) : 169- 173.
28. Dobriyal, A.K. and Singh, H.R. 1988. Ecological basis for the ichthyofaunal variation in two hillstreams of Garhwal Himalaya. In: M.Mohan Joseph (Ed.) *The First Indian Fisheries Forum Proceedings., Asian Fishery Society, Indian Branch.* Pp. 313- 317.
29. Dobriyal, A.K. and Kumar, N. 1988. Fish and fisheries of the river Mandakini. In: R.D. Khulbe (ED.) *Perspectives in Aquatic Biology.* Papyrus Publishing Co., New Delhi. Pp. 337-340.
30. Dobriyal A.K., Bahuguna, A.K. and Singh, H.R. 1988. Morphometric characters and their relationships in two *Noemacheilus* species from Garhwal Himalaya. *Agri. Biol. Res.* 4 (2): 21-24.
31. Dobriyal, A.K. 1988. Otolith as an indicator of age in the carp *Barilius bendelisis* (Ham.). *Agri. Biol. Res.* 4: 67-69.
32. Dobriyal A.K., and Bahuguna, A.K. 1988 Determination of acute toxicity levels of Urea to *Barilius barna* (Ham.) *Himalayan Chemical and Pharmaceutical Bulletin* 5 : 15-16.
33. Agrawal, N.K., Dobriyal, A.K., Pokhriyal, R.C., Bahuguna, A.K. and Singh, H.R. 1988. Fecundity of the hillstream loach *Noemacheilus montanus*. *Himalayan J. Env. Zool.* 2: 133- 135.
34. Dobriyal, A.K. and Singh, H.R. 1989. Ecology of rhithrofauna in the torrential waters of Garhwal Himalaya, India : Fecundity and sex ratio of *Glyptothorax pectinopterus* (Pisces). *Vest. Cs. Spolec. Zool.* 53 : 17- 25

35. Dobriyal, A.K. and Singh, H.R. 1989. Observations on temporal trends of phytoplankton diversity in the river Nayar of Garhwal Himalaya. *J. Freshwater Biol.* 1: 1-6.
36. Dobriyal, A.K. and Singh, H.R. 1989. Spawning ecology of a hillstream minor carp *Puntius chlinoides*. *Advances in Biosciences*. 8: 139 - 148.
37. Dobriyal, A.K., Bahuguna, A.K., Kotnala, C.B., Kumar, N. and Singh, H.R. 1989. A note on the snout abnormality in *Barilius bendelisis*. *Himalayan J. Env. Zool.* 3: 248- 150.
38. Dobriyal, A.K., Kumar, N. Bahuguna, A.K. and Kotnala, C.B. 1989. Diurnal variations in some physico chemical parameters of Eastern Nayar. *Himalayan Chemical and Pharmaceutical Bulletin*. 6: 42-44.
39. Pokhriyal, R.C., Dobriyal, A.K., Singh, H.R., Kumar, N. and Kotnala, C.B. 1989. Determination of acute toxicity levels of Urea to a hillstream fish *Barilius bendelisis* (Ham.) *Himalayan J. Env. Zool.* 3: 149-153.
40. Dobriyal, A.K. and Singh, H.R. 1990. Ecological studies on the age and growth of *Barilius bendelisis* (Ham.) from India. *Arch. Hydrobiol.* 118 : 93- 103.
41. Dobriyal, A.K., Bahuguna, A.K. and Kotnala, C.B., Kumar, N. and Singh, H.R. 1990. A case study on the reproductive biology of common carp, *Cyprinus carpio* (Pisces: Cyprinidae) from India. *Acta Soc. Zool. Bohemoslov.* 54 : 91-96.
42. Dobriyal, A.K. 1990. Garhwal kaa Matsya Paryawaran. *Nav Raah Nayi Chetana*.3: 8-11.
43. Singh, H.R., Dobriyal, A.K. and Kumar, N. 1991. Hillstream Fishery potential and developmental issues. *J. Inland Fish. Soc. India.* 23: 60-68.
44. Dobriyal, A.K. 1991. An appraisal of the fishery resource of riverine ecosystems of Garhwal, Central Himalaya. In: Bhatt, S.D. and Pandey, R.K. (Ed.). *Ecology of Mountain waters*. Ashish Publishing House, New Delhi. Pp. 306- 312.
45. Dobriyal, A.K. and Negi, K.S. 1991. Food analysis of a hillstream fish *Glyptothorax madarspatanum* (Day) in the river Nayar of Garhwal Himalaya. *Bioved* 2: 147-150
46. Dobriyal, A.K., Kumar, N., Kotnala, C.B., Bahuguna, A.K. and Singh, H.R. 1991. Preliminary observations on seasonal trends in macrozoobenthic diversity in the river Nayar of Garhwal Himalaya. In : Sehgal, K. L. ( Ed.) : *Recent researches in Coldwater Fisheries*. Today and Tommorrow Printers and Publishers, New Delhi Pp. 119- 127.
47. Khanna, D.R., Badola, S.P. and Dobriyal, A.K. 1993. Plankton ecology of the river Ganga at Chandighat, Hardwar. In : Singh, H.R. (Ed.) *Advances in Limnology*. NPH, Delhi. Pp. 171-174
48. Dobriyal, A.K., Bahuguna, A.K. and Kotnala, C.B. 1992. Dose standardisation of pituitary gland extract for the induced breeding of Indian Major Carps. *Acta Soc. Zool. Bohemoslov.* 56: 1-5
49. Dobriyal, A.K., Bahuguna, A.K., Kotnala, C.B., Kumar, N. and Singh, H.R. 1992. Ecological studies on the fish and fisheries of the river Nayar. In: Sehgal, K.L. (Ed.) *Recent Researches in Coldwater Fisheries*. Today and Tomorrow Printers and Publishers, New Delhi Pp. 93-98
50. Khanna, D.R., Badola, S.P., Singh, H.R. and Dobriyal, A.K. 1992. Observations on seasonal trends in diatomic diversity in the river Ganga at Sapsarovar, Hardwar. In: Sehgal, K.L. (Ed.) *Recent Researches in Coldwater Fisheries*. Today and Tommorrow Printers and Publishers, New Delhi pp. 99-107.
51. Kumar, N. and Dobriyal, A.K. 1992. Some observations on water mites of a hillstream Khandagad in Garhwal Himalaya. *J. Freshwater Biol.* 4: 193-197.

52. Dobriyal, A.K., Bahuguna, A.K. Kumar, N. and Kotnala, C.B. 1993. Ecology and seasonal diversity of plankton in a spring-fed stream Khanda gad of Garhwal Himalaya. In Singh, H.R. (Ed.) *Advances in Limnology*. NPH, New Delhi pp.175- 180.
53. Dobriyal, A.K., Bahuguna, A.K. and Kotnala, C.B. 1993. A report on the efforts made for the conservation of fishery in Nayar valley of Garhwal Himalaya. *Advances in Biosciences*. 11: 1-6.
54. Dobriyal, A.K. and Kotnala, C.B. 1993. Primary productivity of periphyton in the river Eastern Nayar at Satpuli, Pauri Garhwal. *Bioved*, 4: 267- 268.
55. Singh, H.R., Nautiyal, P., Dobriyal, A.K., et.al. 1994. Water quality of the river Ganga ( Garhwal Himalayas ). *Acta Hydrobiol.* 36: 3 - 15.
56. Kumar, N. and Dobriyal, A.K. 1996. Benthic diversity of Garhwal Himalayan hillstreams in relation to their fishery potential. In: Joseph, M.M. (Ed.) *The Third Indian Fisheries Forum Proceedings*. 159-162.
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