

## CURRICULUM VITAE

1. **Full Name** : DR. HRIDAYA SHANKER SINGH
2. **Father's Name** : Late M.B. Singh
3. **Date of Birth** : 01.06.1958
4. **Educational Qualification** : M.Sc., Ph.D. Zoology (Lucknow University, Lucknow)
5. **Present Postal Address** : Professor, Department of Zoology, Ch.C.S. University  
Meerut, U.P., 250 004, INDIA  
E-mail: hridaya\_singh@rediffmail.com
6. **Teaching Experience** : Since 1983 till date
7. **Research Experience** : Since 1980 till date
8. **Publications**
  - (A) **Research Papers** : 192 (Annexure 1)
  - (B) **Books** : 05 (Annexure 2)
9. **Research Guidance**
  - (A) **M.Phil. Projects Supervised** : 84 (Annexure 3)
  - (B) **Ph.D. Projects Supervised** : 28 (Annexure 4)
10. **Research Projects Undertaken**
  - (A) **Completed**
    - (i) UGC : "Physiopathology of some fresh water fishes infected with cestodes in Meerut region".
    - (ii) CST : "Studies on the effect of stress on certain blood parameters of fish, *Heteropneustes fossilis* (Bloch)".
    - (iii) CSIR : "Monogenoidosis in fish culture ponds of Meerut".
    - (iv) UGC : "Pathology and chemotherapy of monogenoidosis in freshwater fishes of Meerut".
    - (v) DST : "Biochemical taxonomy of closely related species of some fresh water monogeneans".
    - (vi) CSIR : "Argentophilic papillae and associated glands in some freshwater Indian ancyrocephalians".
    - (vii) UGC : "The study of anthropogenic environmental changes on ectoparasitic monogeneans of freshwater fishes of river Kali".
    - (viii) ICAR : "Studies on monogeneans of exotic fishes".
    - (ix) DST : "Taxonomic evaluation of endemic monogenean parasites of freshwater fishes".
    - (x) UGC : "Molecular characterization of nematode parasites of *Grylotalpa africana* at Meerut".
    - (xi) UP Govt : "Centre of Excellence Programme : Helminth taxonomy of fishes"
  - (B) **On going**
    - (i)
    - (ii)
11. **Positions/ Fellowships Held:**
  - Research Assistant, Zoology Department, Lucknow University, Lucknow (1980-83).
  - Lecturer, Department of Zoology, C.C.S. University, Meerut (1983-96).
  - Reader, Department of Zoology, C.C.S. University, Meerut (1996-2002).
  - Professor, Department of Zoology, C.C.S. University, Meerut (2002-till date).
  - Visiting Scientist SERC, Department of Zoology, A.M.U., Aligarh with Prof. W.A. Nizami (95-96).
  - Visiting Scientist, Indo-Dutch Cultural exchange program in the Department of Marine Biology, University of Groningen, The Netherlands (1996-97).
  - Visiting Scientist, Indo-Hungarian Cultural exchange program in Vet. Medical Res. Institute, Budapest (2002-03).
  - Visiting Scientist, Indo-Hungarian Cultural exchange program in Vet. Medical Res. Institute, Budapest (2007-08).
  - Visiting Scientist, Indo-Hungarian Cultural exchange program in Vet. Medical Res. Institute, Budapest (2012-13)
12. **Administrative Experience:**
  - Asst. Proctor, C. C. S. University, Meerut (1986-87 and 1991- 1998).
  - Asst. Warden C. C. S. University, Meerut (1990-91).
  - Member Executive Council C. C. S. University, Meerut (1991-92).
  - Member Academic Council C. C. S. University, Meerut (1991 till date).

- Chief Proctor C.C.S. University, Meerut (2003-2004).
- Director, SCRIET, Ch.C.S. University, Meerut (March 2006- August 2009).
- Head, Department of Zoology, Ch.C.S. University, Meerut ( 2008- 2011).
- Co-Ordinator, Department of Environmental Science, C.C.S. University, Meerut (2009- 2011).
- Co-Ordinator, Department of Toxicology, C.C.S. University, Meerut (2009- 2011).
- Chief Warden, Ch. C.S. University, Meerut (2011- 2012 ).
- Dean Faculty of Science, Ch.C.S. University, Meerut (2011 till date).
- Controller Examination, Ch.C.S. University, Meerut ( 2012-2014 )
- Pro- Vice Chancellor, Ch.C.S. University, Meerut ( 2014- till date )

### 13. Memberships and Awards:

- Life Member - Helminthological Society of India
- Life Member - Indian Society of Parasitology
- Life Member - Society of Parasitology and Applied Animal Biology
- Life Member - Indian Association for the Advancement of Veterinary Parasitology
- Life Member - Zoological Society Of India
- Life Member - Indian Science Congress Association

### 14. Fellowships and Honours :

- Helminthological Society of India (FHS)
- Zoological Society of India (FZSI)
- Fellow Academy of Zoology (FAZ)
- Fellow Academy of Env. Biol. (FAEB)
- Hon. Member (Asian Fishery Society, Manila)
- Fellow Bioved Research & Communication (FBR)
- Fellow Zoological Society, Kolkata (FZS, Cal.)
- Recognition Gold Medal ( Global Biodiversity Meet, Allahab University )

### 15. Scholastic Honours:

- Designated as one of the expertise available in India in two different fields of Parasitology (Monogenea and Acanthocephala) by ministry of Environment (Animal resources of India, STATE OF ART, 1991).
- Awarded membership of New York Academy of Sciences in 1997.
- Awarded certificate of Merit by Competition Success Review.
- Awarded 2nd prize in parasite photo contest at National Convention of Vector Borne Diseases.
- Co-operating Editor Journal of Experimental Zoology, India.
- Councilor U. P. J. Zoology, India.
- Member Editorial board of the Journal, Biochemical and cellular Archives.
- Best Teacher Award, Rotary Club, Meerut.
- Subject Expert, Union Public Service Commission, New Delhi.
- Member Editorial board of National Journal of Life Sciences.
- Member Editorial board of Journal of Comparative toxicology and Physiology.
- Recorder Animal, Veterinary and Fishery Sciences (2010-2012) Indian Science congress.
- Member Review Committee : UPSC ( New Delhi ), Public Service Commission U.P. and Utaranchal
- Paper setter : UPSC ( New Delhi ), Public Service Commission U.P. and Utaranchal
- Member, Technical Advisory Committee, STEM, DST, New Delhi

### Conferences Attended:

- Xth International Congress of Parasitology, Vancouver, Canada 4<sup>th</sup>-9<sup>th</sup> August, 2002.
- Fish Symposium Xth International Congress of Asian Australasian Association of Animal Production (AAAP), New Delhi, 27<sup>th</sup> September, 2002.
- XI National Congress of Parasitology 31<sup>st</sup> Oct., 2<sup>nd</sup> Nov., 2002, M.J.P. Rohilkhand, University, Bareilly.
- National Symposium on biology in the service of manking in post genomic era Nov.18, 2005 R.G. College, Meerut.
- National Colloquium, Wildlife conservation and animal welfare issues in India, 22<sup>nd</sup> October, 2005, Meerut College, Meerut.
- 32<sup>nd</sup> Annual Conference Indian Immunology Society (IMMCON 2005) Nov., 24-27 PGIMER, Chandigarh.
- 21<sup>st</sup> National Congress of Parasitology, Panjab University, Chandigarh 14-16, November, 2009.
- XII International Congress of Parasitology (ICOPA), Melbourne, Australia, August 15-20, 2010.

Dated:

Place : Meerut

(H.S.SINGH)

## LIST OF PUBLICATIONS

## Annexure-1

### 1980

1. Agrawal, N. and **Singh, H.S.** Infection of *Channa punctatus* (Bloch) with a metacercaria, *Tetracotyle gyanpurensis* n. sp. *Matsya*, 6: 84-86.
2. Agrawal, N. and **Singh, H.S.** On three new monogenetic trematodes from freshwater fish, *Clupisoma garua* (Ham.). *J. Zool. Soc. India*, 32: 27-34.
3. Agrawal, N. and **Singh, H.S.** On two new monogenetic trematodes from carps at district Gorakhpur. *Indian J. Zoot.*, 19: 55-59.

### 1981

4. Agrawal, N. and **Singh, H.S.** On a known and three unknown monogenetic *Urocleidus* Mueller, 1934. *Pranikee*, 3: 22-34.
5. Agrawal, N. and **Singh, H.S.** On a rare trematode, *Transversotrema chauhani* n. sp., from a freshwater fish, *Nandus nandus* (Ham.). *Curr. Sci.*, 50: 425-427.

### 1982

6. Agrawal, N. and **Singh, H.S.** On a new acanthocephalan from a freshwater fish of district Gorakhpur. *J. Advanced Zool.*, 3: 85-87.
7. Agrawal, N. and **Singh, H.S.** On a new monogenean from freshwater fish of Lucknow, India. *Proc. Indian Acad. Parasit.*, 3: 60-62.
8. Agrawal, N. and **Singh, H.S.** Two freshwater monogeneans of the genus *Bifurcohaptor* Jain, 1958 and *Dactylogyryus* Diesing, 1850. *Indian J. Parasit.* 6: 215-218.
9. Agrawal, N. and **Singh, H.S.** On three known monogenetic trematodes of freshwater fishes of U.P. *Science and Environment*, 4: 35-42.
10. Agrawal, N. and **Singh, H.S.** On a new monogenean *Neosprostonia garuai* n. sp., from *Clupisoma garua* (Ham.). *Indian J. Parasit.*, 6: 57-59.
11. Agrawal, N. and **Singh, H.S.** On three monogeneans from freshwater fishes at district Lucknow. *Readings in Zoology*, 1: 31-35.
12. Agrawal, N. and **Singh, H.S.** Studies on monogenetic trematodes from freshwater fishes of Gorakhpur, U.P. (India) Part IV. *U.P. J. Zool.*, 2: 58-61.

### 1984

13. Agrawal, N. and **Singh, H.S.** Studies on monogenetic trematodes from freshwater fishes of Gorakhpur, U.P. (India) Part II. *Rivista di Parasit.*, 45: 235-237.
14. Agrawal, N. and **Singh, H.S.** On a rare monogenean *Mizellius ramalingami* n.sp., at Lucknow, India. *Indian J. Helminth. (n.s.)*, 1: 1-4.

### 1985

15. Agrawal, N. and **Singh, H.S.** Cestode fauna of district Gorakhpur Part I. On a rare cestode *Capingentoides gorakhnathai* n.sp. *Indian J Helminth (n.s.)*, 2: 81-84.
16. Agrawal, N. and **Singh, H.S.** Studies on monogenetic trematodes from freshwater fishes of Gorakhpur, U.P. (India) Part I. *J. Adv. Zool.*, 6: 59-61.
17. **Singh, H.S.** and Bali, N.P. Blood groups: religion and intestinal parasites in Meerut religion. *Bio. Science Res. Bull.*, 1: 69-72.
18. **Singh, H.S.** and Tewari, S.K. On an aspidocotyle, *Lissemysia agrawali* n.sp., from a freshwater fish, *Puntius ticto* (Ham.). *Indian J. Parasit.*, 9: 73-74.
19. Agrawal, N. and **Singh, H.S.** Studies on monogenetic trematodes from freshwater fishes of Gorakhpur, U.P. (India) Part III. *Rivista di Parasit.*, 46: 217-220.

### 1986

20. **Singh, H.S.** and Tewari, S.K. A new host record of *Ommatobrephus lobatum* Mehra, 1982. *Indian J. Helminth. (n.s.)* 3: 27.
21. **Singh, H.S.** and Jain, A. Further remarks on *Dutheirsia expensa* Perrier. *Sci. & Environment*, 8: 17-22.
22. **Singh, H.S.** Effect of *Capingentoides batrachi* Gupta, 1961 on haematological indices of *Clarias batrachus* (Linn.). *Proc. Ind National Conv. Young Sci.*, 78-82.

### 1987

23. **Singh, H.S.** Nematode parasites of Indian cockroach, (*Periplaneta americana* L.) at Meerut. *U.P. J. Zool.*, 7: 133-145.
24. **Singh, H.S.** and Jain, A. Two new monogeneans from freshwater fishes of Meerut, U.P., India. *Jap. J. Parasit.*, 36: 244-248.

25. **Singh, H.S.** and Singh, A.S. Effect of organophosphates of haematological indices of man. *Ind.J.Env. & Agri.*2: 29-31.
26. **Singh H.S.** Observation on sodium and potassium in hydatid fluid of *Hydatigera Rudolphi*, 1808. *Indian J. Helminth. (n.s.)*, 4: 83-97.
27. **Singh, H.S.** and Tewari, S.K. Scanning electron microscopic observation of *Clinostomum piscidium*. *Adv. Bios.*, 6:65-68.

### 1988

28. **Singh, H.S.** and Jain, A. On a new monogenetic trematode, *Dogielius gussevi* n.sp., from freshwater fish *Rita rita* ( Ham.). *U.P.J.Zool.*, 8:90-93.
29. **Singh, H.S.** and Kaur, H. Nematode parasites of Indian cockroach, (*Periplaneta americana* L), at Meerut, U.P.India. *Ind.J.Env. & Agri.*, 3: 25-27.
30. **Singh, H.S.** and Kaur, H. On a new nematode, *Hammerschmidtella basiri* n.sp., from *Periplaneta americana* Linn. *Indian J. Parasit.*, 12: 187-189.
31. **Singh, H.S.** and Shukla, S.K. A new record of hyperparasitism in a trematode, *Prosotocus* sp. *Indian J.Helminth. (n.s.)* 5: 55-56.
32. **Singh, H.S.** Blood groups in common Indian frog, *Rana tigrina* (Daud.). *Ind.J.Env. & Agri.*3:25.
33. **Singh, H.S.** and Reddy, T.V. Abnormality in *Heteropneustes fossilis* (Bloch.). *Biosphere*, 1:56-59.

### 1989

34. **Singh, H.S.;** Reddy,T.V. and Singh, K. Effect of alkalinity on haematological, biochemical and hepatosomatic indices of freshwater cat fish, *Heteropneustes fossilis* ( Bloch.). *Environ.Strat. & Biosciences.* 171-178.
35. **Singh, H.S.** A new species of the genus *Moniliformis* Travassos, 1915. *Adv.Bios.*, 8: 53-57.
36. **Singh, H.S.** and Redy, T.V. An additional dorsal fin in *Heteropneustes fossilis* (Bloch.). *J.Fish Biol.* 34:963-964.
37. **Singh, H.S.** and Singh, K. On two new nematodes from *Periplaneta americana* (Linn.), from India. *Dr.B.S. Chauhan Comm.Vol.*, 149-153.
38. **Singh, H.S.;** Prakash, D.; Pandey, K.C. and Srivastava, R.C. Biology, morphometry and vector parasite interaction of Guinea worm larvae. *Dr.B.S.Chauhan Comm.Vol.*, 161-178.
39. **Singh, H.S.** and Jain, A. Two freshwater monogeneans from freshwater shark, *Wallago attu* (Bloch & Schn.). *Indian J.Parasit.*, 12: 323-326.
40. **Singh, H.S.** and Reddy, T.V. Effect of hypothermia on some biochemical and enzymological parameters of fish, *Heteropneustes fossilis* (Bloch). *Comp. Physiol. Ecol.*, 14: 100-102.
41. **Singh, H.S.** and Reddy, T.V. Effect of starvation and refeeding on blood chemistry, of freshwater cat fish, *Heteropneustes fossilis* (Bloch). *Recent Trends in Toxicology*, 195-198. 42.
42. **Singh, H.S.** and Reddy, T.V. Effect of starvation and re-feeding on hematology and hepatosomatic index of a freshwater cat fish, *Heteropneustes fossilis* (Bloch). *Biosphere*, 1-B: 41-45.
43. Pandey, K.C. and **Singh,H.S.** A review of the genus *Bifurcohaptor* Jain, 1958. *Indian J. Helminth. (n.s.)*, 6: 39-56.

### 1990

44. **Singh, H.S.** and Reddy, T.V. Effect of prolonged dark stress on hematology, blood chemistry and hepatosomatic indices in freshwater cat fish, *Heteropneustes fossilis* (Bloch) *Adv. Bioscience*, 10:9-18.
45. **Singh, H.S.** and Reddy, T.V. Effect of copper sulphate on haematology, blood chemistry and hepatosomatic index of Indian cat fish, *Heteropneustes fossilis* (Bloch ) and its recovery. *Ecotoxicology and Env. Safety*, 19: 30-35.
46. **Singh, H.S.** and Singh, K. A new species of the genus *Mirzaeilla* Basir, 1942. *Indian J.Parasit.* 14:201-202.
47. **Singh, H.S.** and Pandey, U. *Argulus ritai* n.sp., from gill filaments of *Rita rita* ( Ham.). *J.Zool.Soc.India*, 40: 120.
48. **Singh, H.S.** and Verma, A. Effect of short term starvation on myogen pattern of *Channa punctatus* Bloch. *J.Zool.Soc.India*, 41: 91-92.
49. **Singh, H.S.** and Singh, K. On a rare nematode, *Isobinema indica* n.sp., from *Grylotalpa*

- africana*, at Meerut. *Proc. Indian Acad. Parasitol.*, 10: 11-12.
50. **Singh, H.S.** and Shukla, S.K. Neurosecretory cells in *Paramphistomum* sp., *Archiva Veterinaria*, 20: 155-161.
51. **Singh, H.S.** and Reddy, T.V. Effect of acid stress (pH  $\pm$  0.2) on haematology, blood chemistry and hepatosomatic indices of a freshwater fish, *Heteropneustes fossilis* (Bloch). *U.P. J. Zool.*, 10: 174-179.
- 1991**
52. **Singh, H.S.** and Kumar, K. Myogen pattern in *Heteropneustes fossilis* (Bloch), subjected to short term starvation. *Matsya*, 15&16: 181-183.
- 1992**
53. **Singh, H.S.** and Kumari, M. Some observation on freshwater dactylogyrid, *Silurodescoides* sp. *Indian J. Parasit.* 16: 135.
54. **Singh, H.S.**; Kumari, M. and Agrawal, S. On some known and unknown monogeneans from *Wallago attu* (Bloch and Schn.) at Meerut, U.P. *U.P.J.Zool.*, 12: 48-56.
55. **Singh, H.S.**; Kumari, M. and Agrawal, S. *Wallagotrema indica* n.sp., a new monogenean from the freshwater shark *Wallago attu* (Bloch and Schn.). *Functional and Developmental Morphology*, 2: 85- 88.
56. **Singh, H.S.** and Agrawal, S. Variation in chitinoid structures of *Hamatopeduncularia wallagonius* n.sp., in relation to season. *U.P.J.Zool.*, 12:154-156.
57. **Singh, H.S.** and Singh, K. A new species of the genus *Protrellatus* Farooqui, 1970 (Nematoda: Thelastomidae). *Indian J. Parasit.*, 16: 123-125.
- 1993**
58. **Singh, H.S.** ; Krishna, B.R. and Kumar, K. Effect of starvation on cholesterol profile in fish *Heteropneustes fossilis* (Bloch). *Indian J. Fisheries* 41: 54-56.
59. **Singh, H.S.** and Kumar, K. Effect of short term starvation on ascorbic acid content in liver and muscle of *Heteropneustes fossilis* (Bloch). *Proc. IIIrd Asian Fisheries Forum*, 199-202.
- 1994**
60. **Singh, H.S.** and Agrawal, S. Description and excretory system of *Gyrodactylus neonephrotus malmbergi* n.sp. from *Heteropneustes fossilis* (Bloch). *U.P.J.Zool.*, 14: 45-51.
61. **Singh, H.S.** and Sharma, B. *Clinostomoides pandeyii* n.sp., a rare clinostome metacercaria from *Heteropneustes fossilis* (Bloch). *U.P. J. Zool.*, 14: 91-93.
62. **Singh, H.S.** and Agrawal, S. On three monogeneans from Meerut. *Dr.C.B.Srivastava Comm. Vol.*, 207-217.
63. Pandey, K.C.; **Singh, H.S.** and Tyagi, Y. Cranial nerves of *Heteropneustes fossilis* (Bloch). *U.P. J. Zool.* 14:137-142.
- 1995**
64. **Singh, H.S.**; Agrawal, S.; Kumar, K. and Sharma, B. Population dynamics, host specificity, spatial distribution and morphology of *Hamatopeduncularia wallagonius* sp.nov., *U.P. J. Zool.*, 15: 108-116.
65. **Singh, H.S.**; Agrawal, S.; Kumar, K. and Sharma, B. Pathogenecity and chemotherapy of *Gyrodactylus neonephrotus malmbergi* Singh and Agrawal, 1994. *U.P. J. Zool.*, 15: 61-63.
66. **Singh, H.S.**; Agrawal, S. and Sharma, B. Development of *Gyrodactylus neonephrotus malmbergi* Singh and Agrawal, 1994 in relation to host body length. *U.P.J.Zool.*, 15: 75-77.
67. **Singh, H.S.**; Agrawal, S. and Kumar, K. Some ectoparasitic monogenean in freshwater fishes of Meerut. *Indian J. Fisheries*, 42: 70-76.
68. Pandey, K.C.; **Singh, H.S.** and Kumar, Y. Cranial nerves of *Labeo rohita* (Ham.) *U.P. J. Zoology*, 15: 199-203.
69. **Singh, H.S.**; Agrawal, S.; Kumar, K.; Sharma, B. and Vibha. Site selection and frequency distribution of *Gyrodactylus neonephrotus malmbergi* Singh and Agrawal, 1994. *U.P. J. Zool.*, 15; 189 - 193.
70. **Singh, H.S.** and Sharma, B. Two new caryophyllaeids from *Heteropneustes fossilis* Bloch at Meerut. *Bull. Assoc. of Zoologists*, 2: 11-16.
- 1996**
71. **Singh, H.S.**; Kumar, K. and Mohan, P.K. Effect of starvation on muscle inorganic constituents in *Heteropneustes fossilis* Bl. *Adv. Bios.* , 15: 41-48.

72. **Singh, H.S.**; Agrawal, S.; Kumar K. and Vibha. Two new species of the genus *Paramazocraes* Tripathi, 1959, from a freshwater fish, *Sciara coitor* (Ham.) *U.P.J.Zoology*, 16:31-35.
73. Pandey,K.C. ; **Singh,H.S.** and Kumar,Y. The cranial nerves of *Mastacembalus armatus* (Lac.) *Flora and Fauna*, 1: 145-148.
74. Pandey,K.C. ; **Singh,H.S.** and Kumar,Y. Further observation on basic design of brain pattern in some teleosts. *U.P.J. Zoology*, 16: 49-53.
75. **Singh,H.S.** and Vibha. Biochemical profile of two different species of *Gyrodactylus Nordmann*, 1832 collected from different hosts. *U.P. J. Zoology*, 16: 148-150.

### 1997

76. **Singh,H.S.**; Agrawal,S ; Kumar,K. and Vibha. On three ectoparasitic monogeneans in fresh water fishes of Meerut. *Indian J.Fish*, 44: 309-317.
77. **Singh,H.S.** and Agrawal A. On a new nematode *Schwenkiella orientalis* n.sp., from *Periplaneta americana* Linn. *U.P.J. Zoology*, 17: 123-126.
78. **Singh,H.S.** and Agrawal,A. On two new insect parasitic nematodes of family: Rhigonematidae Artigas, 1930 at Meerut. *Indian J. Helminth. ( n.s. )* 14: 13-17.

### 1998

79. **Singh,H.S.** and Agrawal,A. Further observation on *Hammerschmidtella diesingi* Chitwood, 1932, with a note on early embryonic development and validity of various species of the genus. *U.P.J.Zoology*, 18: 27-36.
80. **Singh,H.S.** and Panwar,N. Bionomics of some aquatic snails of Meerut. *U.P.J.Zoology*, 18: 77-79.
81. **Singh,H.S.**;Agrawal,A.and Anuradha,R.L. Morphology and biochemistry of an acanthocephalan, *Serrasentis indicus* sp.Nov. *J.Parasit. and Appl. Anim. Biology*, 7, 73-81.

### 1999

82. **Singh,H.S.**; Vibha and Agrawal,A. *Cosmetocleithrum orientalis* n.sp.,a monogenean gill parasite of Indian freshwater fish, *Wallago attu* (Bloch.). *J.Exp.Zoology India*, 2: 97-100.
83. **Singh,H.S.** and Agrawal,A. Some developmental stages in the life cycle of *Centrorhynchus Luhe*, 1911 (Acanthocephala: Centrorhyncidae). *Rivista di Parasitologia XVI (LX)*:131-139.
84. **Singh,H.S.**; Vibha; Agrawal,A.and Kumar,A. A redescription of *Gyrodactylus hyderabadensis* Venkatanarsaiah, 1979. *Rivista di Parasitologia XVI (LX)* 273-281.

### 2000

85. **Singh,H.S.** ; Seema Yadava and Arun K.Yadava. *Wallagotrema orientalis* n.sp.- a new monogenean from *Wallago attu* Bloch & Schn.,with a note on functional and morphological peculiarities of its haptor. *Proc. zool. Soc. Calcutta*, 53: 60-64.
86. Pandey,K.C ; **Singh,H.S.** and Kumar,Y. Correlation of habits and habitat with brain and cranial nerves in some freshwater teleosts : A review. *U.P. J. Zoology*, 20: 7-12.
87. **Singh,H.S.** ;Sharma,B. and Rastogi,P. *Lucknowia ovocompactum* n.sp. (Cestoda) from the catfish, *Heteropneustes fossilis* (Bloch). *J.Exp.Zoology, India* 4: 25-28.
88. **Singh,H.S.** and Rastogi,P. Status of *Paradactylogyrus* Thaper,1948 ( Dactylogyridae ) with description of a new species from freshwater fish of Meerut. *Journal of Parasitic Diseases*, 24: 151- 155

### 2001

89. **Singh,H.S.**; Kumar,Y; Panwar,A.and Malti. Brain morphometry of some freshwater teleosts. *J.Exp.Zool.India* 4: 183-190.
90. **Singh,H.S.**; Sharma,B.; Panwar,A and Rastogi,P. Physiopathology of three Caryophyllaeids in sting cat fish,*Heteropneustes fossilis* ( Bloch ). *Rivista di Parasitologia XVIII (LXII)* 21-26.
91. **Singh,H.S.**; Sharma,B. and Rastogi,P. Biochemical profile of three different species of caryophyllaeids. *Proc.of the National Symposium on Fish Health Management and Sustainable Aquaculture 2001*: 187- 190.

### 2002

92. **Singh,H.S.** and Arya,P.V. Osmotic homeostasis in *Ascaridia* (Schrank, 1788) Freeborn, 1923. *Rivista di Parassitologia*,XIX ( LXIII ): 119-126.
93. **Singh,H.S.;** Malti; Arya,P.V. and Kumar,Y. *Echinoparyphium spinosus* n.sp.,a new echinostome from *Vanellus spinosus* at Meerut. *J.Exp.Zool.India* 5:249-252.
94. **Singh,H.S.;** Arya,P.V. and Anuradha. Cryophilic monogeneans of Himachal Pradesh ( India ). *Rivista di Parassitologia*,XIX ( LXIII ): 237-246.
95. **Singh,H.S.;** Kumar,Y. and Panwar,A. Hydrodynamic design of some freshwater teleost I. Caudal fin and aspect ration. *J.Exp.Zool.India* 5:241-244.
96. **Singh,H.S.;** Kumar,Y. and Panwar,A. Hydrodynamic design of some freshwater teleost II. Stream lined body. *J.Exp.Zool.India* 5:229-232.
97. **Singh,H.S.;** Arya,P.V.;; Sharma,V.;; Rastogi,R. and Kumar,Y. Study of systematic value of protein Polymorphism in four different species of genus *Channa* Gronovius, 1763. *J. Aqua. Biol.*, 17: 59-62.
98. **Singh,H.S.** and Rastogi,R. Osmotic homeostasis and free amino acids in snake headed murrel, *Channa punctatus* (Bloch). *J. Aqua. Biol.*, 17: 63-65.
99. **Singh,H.S. ;** Arya,P.V.;; Kumar,A. and Kumar,Y. Effect of exercise on glycogen content in brain of *Channa punctatus* ( Bloch ). *J.Parasit Appl.Anim.Biol.*, 11: 37-42.

### 2003

- 100.**Singh,H.S.;**Rastogi,P. and Rastogi,R. On a new species of *Pellucidhaptor* Price and Mizelle, 1964 (Monogenea: Dactylogyridae ) with a note on its zoogeographical distribution. *Uttar Pradesh J.Zool.*23: 7-13.
- 101.**Singh,H.S.,** Malti; Rastogi,R., Arya,P.V. and Kumar,Y., *Euclinostomum srivastavi* (Pandey and Baugh, 1970)n.comb.,a rare larval trematode from Meerut,with a note on the genus *Metaclinostomum*. *J.Exp.Zool.India*, 6: 169-173.
- 102.**Singh,H.S.,** Arya,P.V.;; Kumar,N. and Kumar,Y. Helminth fauna of wall lizards at Meerut. *J.Exp.Zool.India*, 6:195-204.
- 103.**Singh H.S.** and Rastogi, P. A synopsis of insect parasitic nematodes described from India. *Helminthology in India* International Book distributors Dehradun ( ed. M.L.Sood ) 215-230
- 104.**Singh,H.S.** and Malti . On a known and some unknown species of nematode parasites of *Gryllotalpa africana*. *J.Exp.Zool.India*, 6:329-350.
- 105.Rastogi,R. and **Singh,H.S.** A new species of a rare trematode, *Emoleptalea* Looss, 1900 (Cephalogonimidae) from freshwater stinging catfish, *Heteropneustes fossilis* (Bloch). *Uttar Pradesh J.Zool.*23: 121-123.
- 106.**Singh,H.S.** and Malti. Study of some nematode parasits of *Periplaneta americana* Linn., at Meerut ,Uttar Pradesh,India.*Flora and Fauna* 9: 59-66

### 2004

- 107.Rastogi,P.;; Kumar,K. and **Singh,H.S.** Review of the genus *Chauhanellus* (Young, 1967) Bychowsky and Nagibina,1959 with a report on a new species from freshwater fishes of Meerut,( U.P.) India. *Uttar Pradesh J.Zool.* 24: 121-128.
- 108.Kumar,V. and **Singh,H.S.** Monogenean fauna of district Saharanpur, U.P. Part I. *J. Exp. Zool. India.* 7: 261-268.
- 109.Rastogi,R. ; Pal,S. and **Singh, H.S.** Review of male copulatory complex of various species of the genus *Dactylogyrus*, diesing, 1950, reported from India. *J. Aqua. Biol.*, 19:101-110.
- 110.**Singh,H.S.** and Malti. Morphological and karyological studies on an insect parasitic nematode, *Leidynema oroentalis* n. sp. *J.ent.Res.* 28: 157-164.
- 111.**Singh,H.S.;** Malti; Kumar,Y. and Anjum,A. Karyological studies of some nematode parasites of family Thelastomatidae,infesting *Periplaneta americana* Lin. *Rivista di Parassitologis* XXI ( LXV ): 157-162.
- 112.**Singh,H.S.** and Kumar,V. Monogenean fauna of district Saharanpur,U.P.,Part II. *Rivista di Parassitologis* XXI (LXV): 175-183.
- 113.**Singh,H.S.** and Malti. On a known nematode parasite from an aquatic beetle. *J Parasit Appl. Anim. Biol.* 13: 33-38.

### 2005

- 114.**Singh,H.S.;** Kumar,Y.;; Arya,P.V.;; Malti and Afreen.A. On pathomorphology of a new Larval digenean, parasitic on gill filaments of freshwater stinging cat

- fish, *Heteropneustes fossilis* (Bloch). *J. Exp. Zoology. India*, 8: 199-204.
115. Rastogi, P.; Arya, P.V. and **Singh, H.S.** On three new species of the genus *Hamatopeducularia* Yamaguti, 1963 from freshwater fishes of Meerut, with a note on its biogeography. *J. Exp. Zoology. India*, 8: 205-220.
116. Kumar, Y.; Malik, M.; Panwar, A. and **Singh, H.S.** Efficacy of clove oil as an anesthetic for freshwater fish, *Clarias batrachus*. *J. Exp. Zoology. India*, 8: 225-234.
117. **Singh, H.S.**; Singh, K. and Malti. Karyological studies of two species of reptilian nematode, *Thelandros* Wedl, 1861. *Biochem. Cell. Arch.*, 5: 81-88.
118. Goel, S.; Rastogi, R. and **Singh, H.S.** Prevalance, intensity and rate of infestation of phthirapteran parasites on poultry bird, *Gallus gallus domesticus* in Meerut region. *Uttar Pradesh J. Zool.* 25: 157-162.
119. Anjum, A.; Malti; Kumar, Y. and **Singh, H.S.** Seasonal influence on occurrence of entomophilic nematodes infecting scarabaeid beetles. *I. Exp. Zool. India* 8: 337-341.
120. **Singh, H.S.** and Malti. Karyological studies of some nematodes infecting, *Grylotalpa africana* (Mole cricket) of Meerut region. *Rivista di Parassitologia* XXII (LXVI): 67-74.
121. Kumar, A. and **Singh, H.S.** Morphological study of some ectoparasites of domestic animals of Western Uttar Pradesh. *Flora and Fauna*, 11: 119-122.
- 2006**
122. **H.S. Singh**; Malti and Vibhuti Sharma. Chaetotaxy of seven different genera of freshwater Indian monogeneans (Dactylogyridae: Ancyrocephalinae). *Proceedings Recent Advances in Applied Zoology*, 101-115.
123. **H.S. Singh**; Rastogi, P. and Rastogi, R. On three new species of the genus *Gyrodactylus* Nordmann, 1832, from freshwater fishes of Meerut, India. *Proceedings Recent Advances in Applied Zoology*, 86-100.
- 2007**
124. Afreen, A.; Kumar, Y. and **Singh, H.S.** Population dynamics and seasonal occurrence of entomophilic nematodes infesting *Periplaneta americana*- a statistical analysis. *J. Exp. Zool. India* 10:365-372.
125. Rastogi, P.; Misra, D. and **Singh, H.S.** Neuroanatomy of gill parasite *Chauhanelus indicus* (Monogenea: Ancyrocephalinae) from *Mystus seenghala* (family: Bagaridae) in Meerut (U.P.), India. *Journal of Parasitic Diseases*, 31:49-53.
126. **Singh, H.S.**; Malti and Gupta, V. Parasitic nematodes of some common insects of Khurja. *Indian J. Helminth (N.S.)* 25: 11-34.
127. Rastogi, P.; Mishra, D.; Rastogi, R.; Sharma, V. and **H.S. Singh**. On a New Species of Genus *Silurodescooides* (Achmerow, 1964) Gussev, 1973 with Redescription, Copulation Biology and Neuroanatomy of *S. vistulensis* (New Combination) from Meerut (U.P.), India. *Asian J. Exp. Sci.*, 22: 329-342.
128. Rastogi, P.; Rastogi, R. and **H.S. Singh**. Three species of the genus *Dactylogyrus* Diesing (1850) from exotic gold fish of Meerut, with a note on its biogeography. *National Journal of Life Science*, 4: 1-12
- 2009**
129. **Singh, H.S.**; Mamta and Malti. Postmortal Changes in *Clarias gariepinus* (Burchell, 1822). *Asian J. Exp. Sci.*, 23: 199-205.
130. **Singh, H.S.**; Agrawal, R. and Chaudhary, A. Freshwater oligochaetes of India: A review. *Journal Of Applied and Natural Science*, 1: 82-91.
- 2010**
131. **Singh, H.S.**; Chaudhary, A. and Ali, H. Further observation on *Clinostomum piscidium* Southwell and Prasad, 1918 recovered from body cavity of *Colisa fasciata* (Bloch & Schneider, 1801) at Meerut, India. *Sci. Parasitol.* 11: 55-60.
132. **Singh, H. S.** Malti, Singh, N. and Chaudhary, A. Redescription of *Steinernema scapterisci* Nguyen and Smart, 1990: (Steinernematidae). *J applied and Natural Sciences* 2:219-224.
133. Singh, H. S. and Chaudhary, A. Genetic characterization of *Dactylogyroides longicirrus* (Tripathi, 1959) Gussev, 1976 by nuclear 28S segment of ribosomal DNA



with a morphological redescription. *Sci. Parasitol.*, 11:119-127.

134. Kumar, V.; Singh, R.V. and **Singh, H.S.** Community Analysis of Phyto Parasitic Nematodes Associated With Cowpea Growing Areas of Rajasthan. *Indian Journal of Nematology*, 40 : 249 - 251. **Impact F 1.385**
135. Kumar Vinod, Singh R.V., **Singh H.S.** Management of Root-Knot Nematode, *Meloidogyne incognita* by Seed Dressing with Bioagents, Organic Cakes and Pesticides on Cowpea. *Indian Journal of Nematology*, 40:212-215. **Impact F 1.385**
136. Kumar Vinod, Singh R.V., **Singh H.S.** Interaction Between *Meloidogyne incognita* Race-1 and *Rotylenchulus reniformis* on Cowpea cv. Pusa Komal. *Indian Journal of Nematology*, 40: 63-65. **Impact F 1.385**

## 2011

137. **Singh, H. S.** Malti, and Chaudhary, A. Larval Form Of The Genus *Thubunaea* Seurat, 1914 From The Body Cavity Of An Insect, *Supella* Sp., At Meerut (U.P.) India. *J applied and Natural Sciences*, 3: 54 -57.
138. Chaudhary, A.; Pal, S.; Malti and **Singh, H. S.** Genomic DNA sequence of *Leidyneia appendiculata* (Leidy, 1850) Chitwood, 1932, from Meerut, U.P., India. *Asian Journal of Animal Sciences* 5: 243-255.
139. K. Sangeeta, A. Chaudhary, Malti and **H.S. Singh.** Further observation of *Thelandros scleratus* Travassos, 1923 based on 28S rDNA. *Journal of Nematode Morphology and Systematics* 14:71-74.
140. Chaudhary, A and **Singh, H.S.** *Gyrodactylus colisai* n. sp. (Monogenea: Gyrodactylidae) a new monogenean from a freshwater fish, *Colisa fasciata* (Bloch & Schn.) at Meerut, U.P., India. *Sci. Parasitol.*, 12:113-121. **Impact Factor: 1.053**
141. Kumar V.; Singh R.V. and **Singh H.S.** Management of *Meloidogyne incognita* Race-1 and *Rotylenchulus reniformis* by seed treatment with biological agents, organic cakes and pesticides on cowpea. *Annals of Plant Protection Sciences* 19:164-167 **Impact factor: 2.36**
142. Kumar, A.; Pant, M.C.; **Singh, H.S.** and Khandelwal, S. 2011 .Role of OGG1 Ser326Cys polymorphism and 8-oxoguanine DNA damage in risk assessment of squamous cell carcinoma of head and neck in north Indian population. *Mutation Research* 726: 227– 233 **Impact Factor: 3.133**
143. Kumar Vinod, **Singh H.S.**, Singh R.V. Effect on Pathogenic potential and population growth of *Meloidogyne incognita* race-1 on Cowpea (*Vigna unguiculata* L.) *Annals of Plant Protection Sciences* 19 : 428-432 **Impact factor: 2.36**
144. Kumar, V.; Singh, H.S. and Singh, R.V. Reaction of cowpea genotypes against Reniform Nematode, *Rotylenchulus reniformis* . *Indian Journal of Nematology* 41: 219-220 **Impact F 1.385**
145. **Singh, H.S.** and Chaudhary, A. A new record of *Cornudiscoides proximus* Gussev, 1976, a freshwater monogenean, and its phylogeny inferred from partial sequence of 28S rDNA. *Pakistan J Zoology*. 43:183-189. **Impact Factor 0.338**

## 2012

146. Kumar, A.; Pant, M.C.; **Singh, H.S.** and Khandelwal, S. 2012. Reduced expression of DNA repair genes (XRCC1, XPD, and OGG1) in squamous cell carcinoma of head and neck in North India. *Tumor Biol* 33:111–119 **Impact Factor; 2.143**
147. Kumar, A.; Pant, M.C.; **Singh, H.S.** and Khandelwal, S. 2012. Associated risk of XRCC1 and XPD cross talk and life style factors in progression of head and neck cancer in north Indian population *Mutation Research* 729 : 24–34. **Impact Factor: 3.133**
148. Chaudhary, A. and **Singh H. S.** Secondary structure and phylogenetic utility of the ribosomal large subunit (28S) in monogeneans of the genus *Thaparocleidus* and *Bifurcohaptor* (Monogenea: Dactylogyridae). *J Parasit Dis.* 37: 74-83
149. Verma, C., Chaudhary, A and **Singh, H.S.**, PCR-based molecular characterization, phylogenetic analysis and secondary structure of the 28S rDNA of *Thaparocleidus*

- wallagonius* (Monogenea: Dactylogyridae) – the most primitive species of this genus from India. *Bioinformation* 8: 816-819.
150. Chaudhary, A and **Singh, H.S.** Phylogenetic study of nine species of freshwater monogeneans using secondary structure and motif prediction from India. *Bioinformation*, 8 : 862 -869.
151. Chaudhary, A and **Singh, H.S.** Diversification of the Monogeneans (Platyhelminthes) in Indian Freshwater Fish Families. *Proceedings of the World Academy of Science, Engineering and Technology* 69: 34-37.
152. Chaudhary, A and **Singh, H.S.** Phylogenetic position of the monogenean *Malayanodiscoides bihamuli* Lim et Furtado, 1986 inferred from sequence and secondary structure of 28S rDNA. *Zoologica Poloniae* 57: 47-64.

## 2013

153. Chaudhary, A and **Singh, H.S.** Molecular characterization of two insect nematode species (Oxyurida: Thelastomatidae) using small subunit (18S) ribosomal DNA sequence and secondary-structure analyses. *Journal of Helminthology* (doi:10.1017/S0022149X13000072) **Impact Factor\*:** **1.38**
154. Chiary, H.R.; Chaudhary, A. and **Singh, H. S.** Phylogenetic analysis of the *Dactylogyroides longicirrus* (Monogenea: Dactylogyridae) based on the 18S and ITS 1 ribosomal genes. *Bioinformation*. 9: 250-254.
155. Arya, P.V. and **Singh, H.S.** Functional dynamics observations of haptor armature in *Mizelleus indicus* (Jain 1957) Pandey et al. 2003. *J Parasit Dis* (DOI 10.1007/s12639-013-0289-2).
156. Chiary, H.R.; Chaudhary, A.; Shobhna ; Singh, H. S. and Goswami, U.C. Monogenean (Platyhelminthes) richness in Northeast Indian region, Assam: A component of forgotten biodiversity. *Sci Parasitol* 14:1-5
157. Chaudhary, A and **Singh, H.S.** Description of two new species of the genus *Thaparocleidus* Jain, 1952 (Monogenea, Dactylogyridae) from freshwater fish in India: morphological and molecular phylogenetic evidence. *Journal of Helminthology* 87: 160-173. **Impact Factor\*:** **1.38**
158. Eniko, F.; Szekely, C.; Marta, L.; Gabor, C.; Tamas, T.; **Singh, H.S.**; Krisztian, B. and Szilvia, L. F. 2013. Integrated circoviral rep-like sequences in the genome of cyprinid fish. *Virus Genes* DOI 10.1007/s11262-013-0928-9 **Impact Factor\*:**
159. Chaudhary, A.; Verma, C. and **Singh, H.S.** Morphological description of two new species of *Mastacembelocleidus* and *Trianchoratus* (Monogenea: Dactylogyridae) from India. *Sci Parasitol* 14:69-76.
160. Singh, N.; Chaudhary, A. and **Singh, H.S.** Morphological redescription and molecular characterization of three species of Travassosinematidae (Nematoda: Oxyurida: Thelastomatoidea) from *Gryllotalpa africana* Beauv (Orthoptera: Gryllotalpidae). *Bioinformation*. 9: 818-823.
161. Chaudhary, A.; Verma, C. and **Singh, H.S.** Ribosomal DNA as molecular markers and their applications in the identification of fish parasites (Platyhelminthes: Monogenea) from India. *Asian Pac J Trop Dis*, 4: 82-84. **Impact Factor\*:** **0.502**
162. Chaudhary, A.; Verma, V.; Shobhna; Varma, M and **Singh, H.S.** A review of Monogenean diversity in India: Pathogens of fish diseases. *Journal of Coastal Life Medicine* 1: 151-168.
163. Kumar, V. ; Singh, A.U. and **Singh, H.S.** Initial Population Density its Effect on the Pathogenic Potential and Population Growth of *Rotylenchulus reniformis* on Cowpea (*Vigna unguiculata* L.). *J Plant Physiol Pathol* . , 1:1-5.
164. Chiary, H.R. ; Chaudhary, A. and **Singh, H.S.** Molecular characterization of *Dactylogyroides tripathii* ( Monogenea, Dactylogyridae ) using long subunits r DNA from North East region of India. *Vestnik zoologii*, 47(5): e-52–e-56, DOI 10.2478/vzoo-2013-0048 **Impact Factor:** **0.028**
165. Singh, N.; Chaudhary, A. and **Singh, H.S.** Identification of two species of *Binema* Travassos, 1925 (Oxyurida: Travassosinematidae) based on morphological and sequence analysis of genomic (18S) and mitochondrial (Cox1) gene markers. *J. Nematode Morphol. Syst.*, 16 : 173-180.
166. Shobhna; Varma, M.; Jain, S. and **Singh, H.S.** Loss of Diversification of fish species in Meerut

## 2014

167. Kansal, G. and **Singh, H.S.** Incidence of Ectoparasites in Broiler Chicken in Meerut. *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)*, 7: 55-58. ( **Impact Factor 1.485** )
168. Singh, P.K.; Rastogi, P. and **Singh, H.S.**. Description of a new species of *Cephalobellus* Cobb 1920 (Oxyurida: Thelastomatidae) from the host *Blatta orientalis* L. (Orthoptera: Blattidae). *Int.J.Curr.Microbiol.App.Sci*, 3: 1032-1042.
169. Singh, P.K.; Rastogi, P. and **Singh, H.S.** Description of a new species of insect parasitic nematode, *Leidynema* (Schwenck, in Travassos 1929) (Thelastomatidae) from host *Periplaneta americana* of Meerut region – India. *Journal of Entomology and Nematology*, 6: 32-41.
170. Singh, P.K.; Rastogi, P. and **Singh, H.S.** A new species of *Cameronia* Basir, 1948 (Oxyurida, Thelastomatidae) from insect host, *Gryllotalpa* sp., from Meerut region, India. *J. Exp. Zool. India*, 17: 289-298.
171. Singh, P.K.; Rastogi, P. and **Singh, H.S.** Description of a new species of *Chitwoodiella* Basir, 1948 (Nematoda: Travassosinematidae) from insect host *Gryllotalpa* sp., from Meerut region, India. *J. Exp. Zool. India*, 17: 317-326.
172. Chaudhary, A.; Singh, N. and Singh, H.S. Molecular characterization of two insect nematode species (Oxyurida: Thelastomatidae) using small subunit (18S) ribosomal DNA sequence and secondary-structure analyses. *Journal of Helminthology*, 88 : 219–229. (**Impact Factor\*: 1.38**).
173. Chaudhary, A.; Kansal, G.; Singh, N. and Singh, H.S. New molecular data for parasite *Hammerschmidtella indicus* and *Thelandros scleratus* (Nematoda : Oxyuroidea ) to infer phylogenetic position. *Turkish Journal of Zoology*, 38 ( doi:10.3906/zoo-1311-18 ).
174. Anshu Chaudhary, A.; Verma, C.; Varma, M. and **Singh, H.S.** Identification of *Thaparocleidus caecus* (Mizelle & Kritsky, 1969) (Monogenea: Dactylogyridae) using morphological and molecular tools: a parasite invasion in Indian freshwater. *BioInvasions Records*, 3: 195-200.
175. Chiary, H.R. ; Chaudhary, A. and **Singh, H.S.** Morphological redescription and molecular characterization of *Dactylogyrus labei* ( Monogenea, Dactylogyridae) from *Catla catla*: a new host record from India. *Vestnik zoologii*, 48: 451–456. ( DOI 10.2478/vzoo-2014-0030).
176. Chiary, H.R. ; Chaudhary, A. ; **Singh, H.S.** and Goswami, U.C. Molecular characterization of two non-native parasites of *Dactylogyrus* (Monogenea, Dactylogyridae ) recovered from introduced hosts in India. *Bioinvasions Record* 3:
177. Kumar, A.; Chaudhary, A.; Verma, C. and Singh, H.S. Molecular Characterization of *Gastrothylax crumenifer* (Platyhelminthes: Gastrothylacidae) from Goats in the Western Part of India by LSU of Nuclear Ribosomal DNA *Korean J Parasitol.* 52: 701-705. (**Impact Factor: 0.965**)

## 2015

178. Székely, C.; Gábor, C.; Chaudhary, A.; Borzák, R.; Singh, H.S and Molnár, K. Myxozoan infections of the three Indian major carps in fish ponds around Meerut, UP, India, with the descriptions of three new species, *Myxobolus basuhaldari* sp. n., *M. kalavatieae* sp. n. and *M. meerutensis* sp. n., and the redescription of *M. catlae* and *M. bhadrensis*. *Parasitology Research* 114:1301–1311. DOI 10.1007/s00436-014-4307-9 (**Impact Factor: 2.327**)
179. Goswami, U.; Chaudhary, A.; Verma, C. and **Singh, H.S.** First molecular characterization of *Aspicularis tetraptera* ( Nematoda: Heteroxynematidae ) from *Mus musculus* ( Rodentia : Muridae ) in India. *Parasitologica*, 60: 553–556; DOI: 10.1515/ap-2015-0079 : (**Impact Factor; 0.965**)
180. Chiary, H.R. ; Singh, N. and **Singh, H.S.** Loss of Fish Diversity of Assam (India): A Threat to Ichthyofauna. *The Journal of Biodiversity. Photon* 115: 419-422 (**Impact Index: 5.28**).
181. Singh, N.; Chaudhary, A and Singh, H.S. Molecular Phylogeny of Nematodes ( Oxyurida :

- Travassosinematide ) from Orthoptera ( Gryllotalpidae) Inferred by Mitochondrial Cytochrome C Oxidase Subunit 1 Gene. *Bioinformation*, 11: 343-347 ( Impact Factor :
- 182.Verma,C; Chaudhary,A. and Singh, H.S Morphology and molecular analysis of *Mizelleus indicus* Jain (1957) and *M. longicirrus* (Tripathi, 1959) Venkatanarasaiah & Kulkarni 1981 (Monogenea, Dactylogyridae) from the freshwater shark *Wallago attu* in the Ganga River, India.*Journal of Helminthology* doi:10.1017/S0022149X15000814.
- 183.Chaudhary,A; Chiary,H.R.; Sharma,B and Singh,H.S. First report of molecular identification of invasive tapeworm, *Bothriocephalus acheilognathi* Yasmaguti,1934 ( Cestoda:Bothriocephalidae) in India. *BioInvasion Records* ( in press )
- 184.Arya, P.V. and **Singh . H.S.** Chaetotaxy mapping of argentophilic papillae in *Mizelleus indicus* (Jain, 1957), Pandey et al. 2003 and its relevance to species characterisation. *International Journal of Innovation Science and Research(IJSR)*; 4: 377-380 **Impact Factor: 3.5.**
- 185.Arya, P.V. and **Singh, H.S.** Zoogeographical distribution an evidence of co-evolution : Freshwater fish parasitic monogenean Genus *Mizelleus* & its host diversity. *International journal of scientific research (IJSR)*; 4 : 589-590. **Impact Factor: 3.5.**
- 186.Ahmad, F.; Singh, D.; Arya, P. V. and **Singh, H. S.** In silico phylogenetic study on Ancyrocephalidae ( Class : Monogenea) using 28srRNA extending geo-mapping in search of evolutionary clues. *Biochem. Cell. Arch.* 15: 311-399.
- 187.Fozail Ahmad,F.; Arya,P.V. and **Singh, H.S.** Cox-1 studies in evaluation and assessment of molecular diversity among Gyrodactylidae,Diplectinidae, Diplozoidae and Dictilophoridae families ( Class: Monogenea ). *International Journal of Innovation Sciences and Research*, 4; .494-500, **Impact Factor: 3.5**

## 2016

- 188.Ahmad,F.; Singh, D.; Arya, P.V. and **Singh, H.S.** In- silico phylogenetic tools employed on some members of five major families of monogenea viz., Monocitylidae, Ancylo-discoididae, Ancyrocephalidae, Cichlidigyridae and Polystomatidae for investigating their relatedness and global diversity distribution. *J. Exp. Zool. India*, 19: 505-513.
- 189.Verma,C; Chaudhary, A and **Singh, H.S.** Morphology, molecular and systematic analyses of *Bychowkyella* (Monogenea: Dactylogyridae) in siluriform fish from India. *Journal of Helminthology*,0: 1–9 doi:10.1017/S0022149X16000122
- 190.Arya, P.V. and **Singh, H.S.** Host specificity and preference assessment for *Mizelleus indicus* (Jain, 1957), Pandey et al. 2003 on experimental hosts.*International Journal of Scientific Research*, 5: 524-526 Impact Factor 3.508 ) .
- 191.Chaudhary,A.: Verma,C. and **Singh,H.S.** First report on the molecular characterization of *Diaphrocleidus armillatus* Jogunoori et al.2004 ( Monogenea, Dactylogyridae ) infecting gills of introduced fish, *Gymnocorymbus ternetzi* in India. *Acta Parasitologica*, 51: ( DOI 10,1515/ap-2016-00. Impact factor : 0.965
- 192.Goswami,U.; Chaudhary,A; Verma,C. and **Singh,H.S.** Molecular and ultrastructure characterization of two nematodes (*Thelandros scleratus* and *Physalopteroides dactyluris*) based on ribosomal and mitochondrial DNA sequences. *Helminthologia*, 53: 165 – 171,
- 193.



**Books**

1. Praniyon Ki Vividhta Avam Vikas , Rastogi Publications, Meerut
2. Akasheruki Sanrachna avam Karya, Rastogi Publications, Meerut
3. Kasheruki Sanrachna Avam Karya, Rastogi Publications, Meerut
4. Modern Text Book of Zoology: Vertebrates , Rastogi Publications, Meerut
5. Higher Invertebrates ( Non Chordates ) : JBD Book Distributors, New Delhi
6. Medical Zoology : Rastogi Publications, Meerut ( in press )

### Annexure-3

#### List of M.Phil projects supervised:

1. Ms. Hardeep Kaur - Studies on nematode parasites on Indian cockroach, *Periplaneta americana* L., at Meerut.
2. Ms. V.Sujatha - Studies on monogeneans of some fresh water siluroids at Meerut.
3. Mr. K. Ravi Shanker - Studies on olfactory organs of some fresh water teleosts.
4. Ms. Madhu Chauhan - Morphology and physiopathology of stregeid metacercaria.
5. Km. Ratika Bhati - Remarks on Indian acanthocephala.
6. Ms Prabhjot Sandhu - Some observation on metacestode (*Hydetigera balaniceps*) from rats at Meerut.
7. Ms. B.Lakshmi Kumari - Studies on some ectoparasites of fresh water fishes of Meerut.
8. Mr.S.N.Shastrri - Remarks on some monogenean (*Bifurcohaptor* Jain, 1958).
9. Mrs. Kiran Singh - Studies on nematode parasites of some common insects.
10. Km. Meena Sharma - Studies on some monogeneans from fresh water fish, *Wallago attu* (Bloch & Schn.) at Meerut.
11. Mr. Saket Shukla - Studies on neurosecretory cells in some trematodes.
12. Mr. Kapil Kumar - Effect of starvation on fresh water stinging cat fish, *Heteropneustes fossilis* (Bloch).
13. Km. Alka Bajaj - On some fresh water monogeneans.
14. Km. Anshu Verma - Effect of starvation on green snake head murrel, *Channa punctatus* (Bl.).
15. Km. Nidhi Gupta - Effect of starvation on erythrocyte and erythropoiesis in the fish, *Heteropneustes fossilis* (Bloch.).
16. Km. Shilpi Agrawal - On a fresh water monogenean (*Hamatopeduncularia* Yamaguti, 1953).
17. Km. Anuradha Raj Laxmi - Morphology and biochemistry of an acanthocephalan (*Serrasentis indicus* sp. Nov.).
18. Km. Rachna Tyagi - Some developmental stages in the life cycle of *Centrorhynchus* Luhe, 1911 (Acanthocephala centrorhynchidae).
19. Mr. Sanjay Kumar Tyagi - Variation in glycogen content in brain of *Heteropneustes fossilis* (Bl.)
20. Miss Seema Yadava - Review of the genus *Wallagotrema* Tripathi, 1959.
21. Miss Vibha - Eggs of some fresh water Indian monogeneans.
22. Miss. Anshu Chauhan - Morphometric and allometric variations in various species of the genus *Hammerschmidtella* Chitwood, 1932.
23. Ms Poonam Tyagi - Further observation on a metacestode (*Hydetigera balaniceps*) from Albino rats.
24. Preeti Sharma - Pathophysiology of *Hydetigera balaniceps* from albino rats.
25. Mr. Ashok Kumar - Ixodid ticks of domestic animals at Meerut.
26. Ms Anukampa Ritu - Hydrodynamic design of some fresh water teleosts I. Stream lined bodies.
27. Ms. Seema Garg - Hydrodynamic design of some fresh water teleosts II. Caudal fin and aspect ratio.
28. Mr. Balarama Krishna - Stress and cholesterol profile in the fish *Heteropneustes fossilis* (BL.).
29. Mr. P.K. Mohan - Effect of starvation on muscle inorganic constituents in fish *Heteropneustis fossilis* (Bloch).
30. Mr. Arun Kumar - Monogenea a biological hazard for fish: a review.
31. Mr. Farooq Ahmad - Head organ pattern in fresh water monogeneans: a review.
32. Ms Alka Upadhyay - Some new *Dactylogyrus* (Monogenoidea: Dactylogyridae), from cyprinid fishes with synopsis of those found on Indian freshwater fishes.
33. Ms Poonam Singh - Revision of the genus *Thaparocleidus* Jain, 1952 (Tetraonchinae) with the description of *T. indicus* n.sp.
34. Km Malti - Brain morphometry of some freshwater fishes.
35. Mustaj Ahmad - Study of Helminth fauna of *Channa punctatus* (Bloch) at Meerut.
36. Indu Sharma - Anatomical heterogeneity in white and dark muscles of some freshwater teleosts.
37. Neelam Tyagi - Human Ascariasis- epidimiology, structure and antigens characterization of *Ascaris lumbricoides*.
38. Priyavrat Arya - Osmotic homeostasis in *Ascaridia galli* ( Schrank, 1788) Freeborn, 1923
39. Punita Gupta - Tick fauna of domestic animals of Western U.P.
40. Rakhee Rastogi - Studies on free amino acids in the muscle of *Channa punctatus* (Bloch).
41. Ashok Kumar - Effect of exercise on glycogen content in brain of *Channa punctatus* (Bloch).
42. Neeraj Kumar - Helminth fauna of wall lizards of Meerut.

43. Rajeev Kumar - Biodiversity of Intra- intestinal parasitic nematodes of goat.
44. Anuradha - Cryophilic monogeneans of Himachal Pradesh.
45. Vibhuti Sharma - Study of systematic value of protein polymorphis in four different species of the genus *Channa* Gronovius, 1763.
46. Vivek Kumar - Fish culture practice in western Uttar Pradesh: Problems and prospects.
47. Shivani - Study of hemocytes of *Periplaneta americana* Linn.
48. Ankja - Parasite-host interaction of monogeneans: a review.
49. Anuradha - A report on red sore disease of snake headed murrel, *Channa punctatus* (Bloch).
50. Swati Goel - Studies on Phthirapteran ectoparasites infesting poultry birds, *Gallus gallus domesticus* of Meerut.
51. Neha Rastogi - Study of correlation between oral contraceptive and parasitic infection in Meerut region.
52. Neetu Sirohi - Actinosporean stage (Myxozoa) from freshwaters of India.
53. Sangeeta Pal - Male copulatory complex in genus *Dactylogyrus* Diesing, 1850, from India.
54. Nitin Gautam - Pathological and histopathological studies of swim bladder of freshwater major carp, *Labeo rohita* ( Ham.) infected by a larval camallanid nematode.
55. Anil Kumar - Studies on allelic frequencies of some phenotypic traits in different human population of Meerut city.
56. Kiran Singh - Cytotaxonomy of *Thelandros* Wedl, 1861.
57. Ekta Verma - A checklist of freshwater monogeneans of India.
58. Monika Gill - Chaetotaxy observations of some Phthirapteran ectoparasites infesting *Gallus gallus domesticus*.
59. Vibhuti Gupta - Nematode parasite of some common insects of Kurja.
60. Neetu Chowdhary - Ultrastructure of the body wall of *Philometra abdominalis* Nybelin, 1928 (Nematoda: Dracunculoidea).
61. Garima Pundir - Review of the genus *Dactylogyroides* Gussev, 1963 with a remark on Indian species.
62. Beer Singh - Studies on some parasitic crustaceans of freshwater fishes of Saharanpur.
63. Anshu Chaudhary - Pathogens of *Clarias gariepinus*: A review.
64. Dheer Pal Singh - A review of the nematodes reported from *Grylotalpa orientalis* (=africana) Burmeister in India.
65. Anu Mohini - Nematodes parasitic in *Periplaneta americana* in India: a review.
66. Mamta - Postmortal changes in *Clarias gariepinus* (Burchell, 1822).
67. Neetu Singh - Review of the genus *Steinernema* Travassos, 1927. (Nematoda: Steinernematidae).
68. Tanuja Choudhary - The life cycle of *Gregarina* Dufour, 1828 (Protists: Apicomplexa: Eugregarionida: Gregarinidae) in the cockroach, *Periplaneta americana* Linn. (Dictyoptera:Blattellidae).
69. Richa Agrawal - Freshwater Oligochaetes of India: A review.
70. Neetu Singh - Further observation of the genus *Dactylogyroides* Gussev, 1963.
71. Haren Ram Chiary - Monogenean Fauna of Brahmaputra River System.
72. Garima Kansal - Ectoparasites of broiler chicken in Meerut.
73. Sangeeta - Further observation of *Thelandros scleratus* Travassos, 1925 based on 28S rDNA.
74. Shobhna - Molecular biological comparison of various species of the genus *Thaparocleidus* Jain, 1952 using gene bank data.
75. Gopal Chandra - Molecular characterization of larval cestodes from the liver of rats at Meerut.
76. Km. Sarita Kumari - Morphometric and molecular characterization of *Thelandros scleratus* Travassos, 1923 (Nematoda, Pharyngodonidae).
77. Chandni Verma - Molecular and morphological characterization of *Thaparocleidus wallagonius* Jain, 1952, with an analysis of the secondary structure of 28S rRNA gene and its phylogenetic implications.
78. Sudhir Kumar - Statistical analysis for discriminating among seventeen species of *Thaparocleidus* ( Monogenea based on morphometric characters
79. Anupama - Animal origin medicines used in Ayurvedic system: A review.
80. Abhishek Gupta - Discrimination of various species of the genus *Bifurcophaptor* ( Monogenea), using statistical tool applied to morphometric data.



81. Ashwani Kumar - Comparative studies on a Paramphistome of *Capra hircus*, ( indigenous and exotic breed ) of middle Gangetic plain
82. Urvashi Goswami - Morphological and molecular biological characterization of two nematodes from *Hemidactylus brooki* in Meerut region.
83. Shivali Mukut - Morphological and molecular biological analyses of some trematode parasites of freshwater fishes of Meerut
84. Shivi Gupta - Morphological and molecular characterization of *Tylodelphys* sp ( Digenea: Diplostomidae) from Meerut region

**List of Ph.D. projects supervised:**

1. Mr. Yogeshwar Shukla - Histopathological and histochemical studies on lesions induced by chemical carcinogens and co-carcinogens in experimental animals.
2. Mr. D.Prakash - Studies on socio-economic impact of dracunculosis in Rajasthan and to develop an integrated vector management programme.
3. Mr.T.V.Reddy - Studies on the effect of stress on certain blood parameters of fish, *Heteropneustes fossilis* (Bloch ).
4. Ms. Amita Jain - Studies on helminth parasites of amphibians with special reference to their effect on haematology of the host.
5. Mr. Kapil Kumar - Effect of starvation on fresh water stinging cat fish. *Heteropneustes fossilis* (Bloch).
6. Ms. Shilpi Agrawal - Studies on some fresh water monogeneans.
7. Ms. Surinder Virk - Effect of some metals on the survival and biochemical changes in liver and gonad of an exotic carp, *Cyprinus carpio* Linn.
8. Mr. Yougesh Kumar - Studies on the cranial nerves of some fishes.
9. Mr. Saket Shukla - Studies on nematode parasites of some common arthropods of Meerut.
10. Ms. Bindu Sharma - Morphology, population dynamics, biochemistry and physio-pathology of caryophyllaeids of stinging cat fish, *Heteropneustes fossilis* (Bloch).
11. Ms. Vibha Gupta - Studies on parasitic monogeneans in freshwater fishes of Western U.P.
12. Mr. Shivendra Pratap Singh - Haematological investigations of the effect of Anticholinesterases, malathion and dimecron on a siluroid fish, *Clarias batrachus* (Linn.).
13. Ms. Anshu - Studies on some insect parasitic nematodes of western U.P.
14. Mr. Faiz Ahmad Khan - Developmental biology and immunological studies of filarial nematode *Setaria cervi*
15. Ms. Pragati Rastogi - Studies on morphology of some freshwater monogeneans of Meerut.
16. Ms. Malti - Studies on morphology and cytotaxonomy of some insect parasitic nematodes of Meerut.
17. Arun Kumar - Studies on some freshwater Indian monogenea.
18. Privrat Arya - Biology of freshwater monogenean , *Mizellius* Jain, 1957
19. Anju Panwar - Studies on lymphoid organs of some fresh water cat fishes.
20. Vivek Kumar - Studies on freshwater monogeneans of district Saharanpur.
21. Vibhuti Sharma - Studies on monogenean parasites in Exotic fishes raised in Meerut.
22. Rakhi Rastogi - Studies on monogeneans of Aquarium fishes
23. Vinod Kumar - Studies on root-knot nematode (*Meloidogyne incognita*) and reniform nematode (*Rotylenchulus reniformis*) on Cowpea, *Vigna unguiculata*.
24. Neeraj Kumar - Epidemiology of tuberculosis in urban and rural populations of District Meerut.
25. Anshu Chaudhary - Taxonomic evaluation of some ancyrocephalid monogenean parasites of freshwater fishes.
26. Anil Kumar - Studies on oxidative stress and DNA repair genes polymorphism in head and neck squamous cell carcinoma (HNSCC).
27. Sangeeta Pal - Taxonomic evaluation of some nematode parasites of *Periplaneta americana*
28. Neetu Singh - Taxonomy and morphology of nematode parasites of *Gryllotalpa africana* at Meerut