

## BIO-DATA

1. **Name** : Dr. HARPREET KAUR
2. **Designation** : ASSISTANT PROFESSOR
3. **Department** : ZOOLOGY
4. **Date of Birth** : 30-09-1963
5. **Address for Correspondence** : 479, MIG, URBAN ESTATE,  
PHASE-II, PATIALA.  
Mobile: 09876145014  
E-mail: harpreet\_bimbra@yahoo.com
6. **Areas of Specialization** : PARASITOLOGY
7. **Academic Qualifications**



Sr. no.	Degree	Year	University	% age	Div./Rank	Subjects
1.	B.Sc (Hons.)	1983	Pb.Univ., Chd.	64.4%	First	English Zoology, Botany, Biochemistry
2.	M.Sc (Hons.)	1985	Pb.Univ., Chd.	72.2%	First	Parasitology, Plant Nematology, Statistics, Methodology
3.	M.Phil.	1987	Pb.Univ., Chd.	68.4%	First	Parasitology
4.	Ph.D.	1995	Pb.Univ., Chd.	----	----	Parasitology

**8. Membership of Professional Bodies/Organizations:**

- i) Member of the Indian Society for Parasitology
- ii) Member of the Punjab Academy of Sciences

**9. Medals/Awards/Honours Received:**

- i) Research fellow awarded in DST.UT project: 3 years (1<sup>st</sup> April 1987 to 31<sup>st</sup> March 1990).
- ii) SRF awarded by CSIR, New Delhi: 3 years (1<sup>st</sup> January 1991 to December, 1994).
- iii) Research Associate (RA) awarded by CSIR, New Delhi: 5 years (31<sup>st</sup> March 1997 to 31 March, 2002).

**10. Scholarships:** Nil

**11. Details of Experience:**

**Research Experience= 12 years**

**Teaching Experience= 13 years**

Sr. no.	Name of the Inst. Employee	Position Held	Duration	Major Job Responsibilities and Nature of Experience
1.	Doaba College Jalandhar	Lecturer	1996-97	Teaching
2.	Panjab University, Chandigarh.	Research Associate	1997-2002	Teaching & Research
3.	Punjabi University, Patiala	Assistant Professor	2005- to till date	Teaching & Research

**12. Published work:****a. Research Papers**

- i) **National** =32
  - iii) **International** = 15
  - iv) **Conference proceedings**= 2
- Total= 49**

**b. Conference Attended** = 34**c. Paper Presented** = 34 (List attached)**d. Books** = Nil**13. Invited Talks/Articles** = Nil**14. Major research Project undertaken:** Myxozoan parasites of aquaculture fish in Punjab-A

Major Research Project (MRP 2012-2015) worth 10, 34,800/-

**15. Post Doctoral Fellow (PDF)-UGC under guidance=1**

S. No.	Name of the Student	Title of Thesis
1.	Dr. Ranjeet Singh Rana	Morphological and molecular analysis of myxozoan parasites infecting freshwater fishes of wetlands of Punjab

**16. Ph.D. students guided: 2**

S. No.	Name of the Student	Year	Title of Thesis
1.	Ranjeet Singh Rana	2011	A study on the myxozoan parasites of the freshwater fishes of Punjab wetlands
2.	Neelam Kumari (thesis submitted)	2013	Studies on plant parasitic nematodes associated with selected oilseed crops of Malwa region of Punjab

**17. Ph.D. students under guidance: 5**

S. no.	Name of the Student	Date of registration	Title of Thesis
1	Harjinder Kaur	19 May 2009	Nematicidal and Modulatory effects of neem and <i>Bacillus thuringiensis</i> on tomato plant infested with root nematode
2	Shivani	10 May 2011	Molecular investigations on some cattle infesting hard ticks (Acari: Ixodidae) from Haryana
3	Rajni	21 Oct. 2011	Taxonomic evaluation of myxozoan parasites infecting freshwater fishes in Punjab
4	Anu Katoch	14 March 2012	Studies on the myxozoan parasites of aquaculture fishes in Punjab

**18. M. Sc/M. Phil students guided/under guidance:**

- i. M. Sc dissertations (guided) = 10
- ii. (a) M. Phil thesis (guided) = 7  
(b) M. Phil (under guidance) = 1

➤ **M. SC DISSERTATIONS**

S. no.	Name of the Student	Year	Title of M.Sc. dissertations
1.	Ranjeet Singh Rana	2005	Studies on the histology and histochemistry of female <i>Thelandros scleratus</i> , a parasite of common wall lizard
2	Harpreet Kaur	2005	A report on the prevalence of protozoan infections in the slum areas of Patiala
3	Monika	2005	Studies on the <i>in vitro</i> effect of albendazole on the histology and histochemistry of <i>Trichuris globulosa</i> , a parasite of sheep and goat
4	Sandeep Pandey	2006	Effect of commercially available neem seed oil on oviposition behavior of cattle tick <i>Boophilus microplus</i>
5	Bharat Bhushan Garg	2006	A study on the In vitro effect of garlic on <i>Avitellina lahorea</i> (Cestoda) a parasite of Sheep and Goat
6	Daljeet Kaur	2006	A study on the prevalence of gastrointestinal parasitic infection in the domestic animal of Patiala and it's adjoining areas
7	Sween	2006	A study on the prevalence of gastrointestinal parasitic infections in the children of Rajpura town (Patiala: Punjab)
8	Hardeep Kaur Gill	2006	Studies on the <i>in vitro</i> effect of garlic powder on the histology and histochemistry of female <i>Trichuris globulosa</i> (Nematoda), a parasite of sheep and goat
9	Jai Singh	2007	A study on the <i>in vitro</i> effect of garlic on the <i>Thysaniezia ovilla</i> (Cestoda) a parasite of sheep and goat
10	Harjinder Kaur	2008	Studies on the plant parasitic nematodes associated with banana ( <i>Musa AAA</i> ) at Shekhpura village of district Patiala

➤ **M. PHIL THESIS**

<b>S. no.</b>	<b>Name of the Student</b>	<b>Year</b>	<b>Title of M.Phil. Thesis</b>
1.	Simrat Sekhon	2009	A comparative study on the functional morphology of paruetrine organs of two Anoplocephalids: <i>Stilesia vittata</i> and <i>Thysaniezia ovilla</i>
2	Kusha	2009	The <i>in vitro</i> effect of two herbal drugs on <i>Thysaniezia ovilla</i> (Cestoda, Thysanosomatinae), a parasite of sheep and goat
3	Devinderpreet Kaur	2009	Taxonomic studies on four species of genus <i>Hoplolaimus</i> Daday, 1905 (Nematoda: Hoplolaiminae) associated with Mandarin Kinnow ( <i>Citrus reticulata</i> ) at Mohali, Punjab
4	Rajni Attri	2010	A study on the distribution and morphological characterization of three major species of <i>Meloidogyne</i> infesting some important crops in Punjab
5	Anu Katoch	2010	<i>In vitro</i> study on the effect of some aqueous plant extracts on egg hatching, larval mobility and mortality of <i>Meloidogyne incognita</i>
6	Lakhshmi Devi	2011	A study on the seasonal prevalence of gastrointestinal parasites on communal pastures in District Patiala, Punjab
7	Rajni Sharma	2012	Histopathological studies on colic nodular lesions caused by <i>Oesophagostomum columbianum</i> - the nodular worm in naturally infected goats

**19. List of Papers taught at P.G. and U.G. Level**

**P.G. Level**

<b>S. no.</b>	<b>Paper</b>	<b>Class</b>
1.	Human Parasitology	M.Sc. IInd Zoology (Spl.)
2.	Host – Parasite Relationship	M.Sc. IInd Zoology (Spl.)
3.	Immunology	M.Sc. Ist Zoology
4.	Microbiology	M.Sc. Ist Zoology
5.	Molecular Cytogenetics	M.Sc. Ist Zoology
6.	Endocrinology	M.Sc. IInd Zoology

7	Natural resources, conservation and Management	M.Sc. I Environmental Sciences
8	Environmental microbiology	M.Sc. I Environmental Sciences

### U.G. Level

S. no.	Paper	Class
1.	Comparative vertebrate Anatomy	B.Sc. IInd
2.	Animal Behavior	B.Sc. Ist
3.	Invertebrate Zoology	B.Sc. Ist

### 20. Technical Proficiency

1. Collection, identification of myxozoan parasites of fresh water fishes.
2. Integrated control of root-knot nematodes *in vivo* and *in vitro* using herbal extracts.
3. Techniques of collection, preservation, staining, identification of helminthes of veterinary importance.
4. Techniques for the study of histology, histochemistry & histoenzymatic studies of helminthes on fixed and frozen sections.
5. Scanning electron microscopical studies on nematodes, cestodes and helminthic eggs.

### 21. List of Papers Published:

List Attached

Date: 15.05.2012

**Dr. Harpreet Kaur**  
(Assistant Professor)

## LIST OF PUBLICATION

### ➤ NATIONAL LEVEL

1. **Duggal, C.L. and Kaur, H. (1986a)** On two quadrigyrid acanthocephalans parasitizing fishes of Punjab. *Res. Bull. (Sci.) Panj. Univ.*, **37** (Parts I-II): 139-142.
2. **Duggal, C.L. and Kaur, H. (1986b)** On *Neoechinorhynchus chilkaensis* Podder, 1937 and *Serrasentis socialis* (Leidy, 1851); Acanthocephalan parasite of fishes of India. *Res. Bull. (Sci.) Panj. Univ.*, **37** (Parts I-II): 151-153.
3. **Duggal, C.L. and Kaur, H. (1986c)** On two acanthocephalan parasites infecting freshwater fishes of India. *Punj. Fish. Bull.*, **10** (No. 1): 54-62.
4. **Duggal, C.L. and Kaur, H. (1986d)** On some spirurid nematodes infecting freshwater fishes of Punjab. *Punj. Fish. Bull.*, **10** (No.1): 34-42.
5. **Duggal, C.L. and Kaur, H. (1987a)** *Rhabdochona moraveci* sp. nov. (Nematoda: Rhabdochoniidae) from a freshwater fish, *Barbus tor* in Punjab, India. *Res. Bull. (Sci.) Panj. Univ.*, **38** (Part III-IV): 137-139.
6. **Duggal, C.L. and Kaur, H. (1999)** On two new nematodes of the Genus *Procamallanus* Baylis, 1923 from *Wallago attu* in Punjab, India. *Res. Bull. (Sci.) Panj. Univ.*, **49** (I-IV): 47-55.
7. **Duggal, C.L. and Kaur, H. (2000)** Studies on the Female Reproductive tract of *Ascaridia galli*. *J. Punj. Acad. Sci.*, **2**(1): 135-140.
8. **Duggal, C.L. and Kaur, H. (2000)** On the functional morphology of the copulatory apparatus of *Ascaridia galli*. *J. Punj. Acad. Sci.*, **2**(1): 161-163.
9. **Duggal, C.L. and Kaur, H. (2000)** Histological and Histochemical studies on the male reproductive tract of *Ascaridia galli*. *J. Punj. Acad. Sci.*, **2**(1): 165-171.
10. **Duggal, C.L. and Kaur, H. (2000)** Egg Shell formation in *Ascaridia galli*. *J. Punj. Acad. Sci.*, **2**(1): 173-175.
11. **Duggal, C.L. and Kaur, H. (2000)** Comparative morphological, histological and histochemical studies on the female reproductive tracts of some parasitic nematodes. *J. Parasit. Dis.*, **24** (2): 123-134. **NAAS Rating: 4.3.**
12. **Duggal, C.L. and Kaur, H. (2002)** Comparative histochemical and SEM studies on the mature eggs from the distal uterus of some parasitic nematodes. *J. Parasit. Appl. Biol.*, **11** (1&2): 1-8.
13. **Kaur, H. and Aneja, M. (2007)** *In vitro* effects of albendazole on the histology and histochemistry of *Trichuris globulosa* (Nematoda), a parasite of sheep and goat. *U. P J. Zool.*, **27**(1): 31-38. **NAAS Rating: 3.3.**
14. **Kaur, H. and Sween (2007)** Intestinal Parasitic infections in children of Rajpura town, Patiala. *J. Parasit. Dis.*, **31** (1): 56-60. **NAAS Rating: 4.3.**
15. **Kaur, H. and Kaur, D. (2008)** Prevalence of Gastrointestinal Parasites in domestic animals of Patiala and its adjoining areas. *J. Vet. Parasitol.*, **22**(2), 25- 28. **NAAS Rating: 3.5.**
16. **Kaur, H. and Singh, R. (2008-2009)** Incidence of Myxozoan Parasites in fresh water fishes of Punjab Wetlands. *J. Punj. Acad. Sci.*, **5-6**(1&2):88-91.
17. **Kaur, H., Kumari, N. and Khan, M. L. (2009)** Occurrence and distribution of genus *Hoplolaimus* Daday, 1905 (Nematoda: Hoplolaiminae)

in Mandarin Kinnow (*Citrus reticulata*) at Mohali, Punjab. *J. Punj. Acad. Sci.*, **5-6**(1&2):95-100.

18. **Kaur, H. and Singh, R. (2010a)** A new myxosporean species *Myxobolus sclerii* sp. nov. and one known species *M. stomum* Ali *et al.* (2003) from two Indian major carp fishes. *J. Parasit. Dis.*, **34**(1): 33-39. **NAAS Rating: 4.3.**
19. **Kaur, H., Kaur, H. and Kumari, N. (2010)** Plant parasitic nematodes associated with Banana crops (*Musa AAA*) in district Patiala, Punjab, India. *Trends Biosci.*, **3** (2): 147-148. **NAAS Rating: 2.7.**
20. **Kaur, H., Thakur, N. and Khan, M.L. (2010)** Effect of ecological factors on population fluctuation of *Meloidogyne incognita* (Kofoid and White, 1919) Chitwood, 1949 associated with Sunflower from Malwa region of Punjab. *Trends Biosci.*, **3**(1):68-70.
21. **Khan, M.L., Kumari, N. and Kaur, H. (2010)** Occurrence of *Hirschmanniella gracilis* (De Man, 1880) and *H. mucronata* (Das, 1960) Luc and Goody, 1963 infesting sunflower (*Helianthus annuus*) crops in Malwa region of Punjab. *Indian J. Nematol.*, **41**: 102-122. **NAAS Rating: 3.1.**
22. **Kaur, H. and Singh, R. (2011a)** Two new species of *Myxobolus* (Myxozoa: Myxosporea: Bivalvulida) from freshwater fishes of Punjab Wetlands (India). *J. Parasit. Dis.*, **35** (1): 33-41. (DOI: 10.1007/s12639-011-0024-9) **NAAS Rating: 4.3.**
23. **Kaur, H. and Singh, R. (2011b)** Two new species of *Myxobolus* (Myxozoa: Myxosporea: Bivalvulida) infecting an Indian major carp in Ropar and Kanjali wetlands (Punjab). *J. Parasit. Dis.*, **35**(1): 23-32. (DOI: 10.1007/s12639-011-0033-8) **NAAS Rating: 4.3.**
24. **Kaur, H. and Singh, R. (2011c)** Two new species of *Myxobolus* (Myxozoa: Myxosporea: Bivalvulida) infecting an Indian major carp and a cat fish in wetlands of Punjab, India. *J. Parasit. Dis.*, **35** (2):169-176. (DOI: 10.1007/s12639-011-0061-4) **NAAS Rating: 4.3.**
25. **Kaur, H., Kaur, H. and Rishi, P. (2011)** Therapeutic and preventive nematicidal activity of aqueous neem leaf extract on *Meloidogyne incognita* and growth of tomato. *Ann. Plant Prot.Sci.*,**2**(1):178-182. **NAAS Rating: 3.7.**
26. **Singh, R and Kaur, H. (2012a)** Two new and two already known species of genus *Thelohanellus* Kudo, 1933 (Myxozoa: Myxosporea: Bivalvulida) infecting Indian major carp fishes in Punjab wetlands (India). *J. Parasit. Dis.*, DOI 10.1007/s12639-012-0190-4 **NAAS Rating: 4.3.**
27. **Kaur, H. and Katoch, A. (2012a)** Effect of aqueous plant extracts on Motility and mortality of second stage juveniles of *Meloidogyne incognita* (Kofoid and White 1919) Chitwood 1949. *Bull. Pure Appl. Sci.*, **31**(2):**93-102.**
28. **Kaur, H. and Katoch, A. (2012b)** Effect of some aqueous plant extracts on egg hatching of *Meloidogyne incognita* (Kofoid and White) Chitwood, the root knot nematode. *Trends Biosci.*, **5**(1): 54-56. **NAAS Rating: 2.7.**
29. **Kaur, H and Attri, R. (2012)** Morphological and morphometrical characterization of *Meloidogyne javanica* (Treb) from Banana host plant in the District of Patiala. *Trends Biosci.*,**4** (2):219-221. **NAAS Rating: 2.7.**
30. **Kaur, H., Kaur, H. and Rishi, P. (2012a)** Effect of neem leaf extract on the mobility, egg hatch and infestation rate of *Meloidogyne incognita* on tomato plants in greenhouse. *Advances Life Sci.*, **1**(2):141-144.

31. **Kaur, H., Kaur, H. and Rishi, P. (2012b).** *In vivo* Evaluation of Nematicidal Action of Neem Leaf and Seed Extracts on *Meloidogyne incognita* in Tomato and pH of Soil. *Indian J. Nematol.*, **42(2)**:150-155
32. **Kaur, H., Thakur, N. and Khan, M.L. (2012a)** Occurance of *Hemicriconemoides cocophilus* (Loos, 1949) Chitwood and Birschfield 1957 and other plant parasitic nematodes infesting cotton in Malwa region of Punjab. *Trends Biosci.*, **5(4)**:332-334. **NAAS Rating: 2.7.**

➤ **INTERNATIONAL LEVEL**

1. **Duggal, C.L. and Kaur, H. (1987b)** On two new camallanid nematodes from freshwater fishes of Punjab, India. *Riv. Parasitol.*, **4 (XL VIII)**: 93-97.
2. **Duggal, C.L. and Kaur, H. (2006)** SEM studies on the copulatory apparatus of male *Oesophagostomum columbianum*. *Helminthologia*, **43 (1)**: 3-5. **IMPACT FACTOR: 0.84.**
3. **Kaur, H. and Duggal, C.L. (2007)** Studies on the male and female copulatory apparatus of *Trichuris globulosa* (Nematoda, Trichuridae). *Helminthologia*, **44 (4)**: 151-156. **IMPACT FACTOR: 0.7.**
4. **Kaur, H. and Singh, R. (2009)** A new myxosporean species, *Myxobolus eirasi* sp nov, a known species *M. venkateshi* Seenappa, Manohar (1981) from the Indian major carp fish *Cirrhina mrigala* (Ham). *Protistology*, **6(2)**:126–130.
5. **Kaur, H. and Singh, R. (2010b)** One new myxosporidian species, *Myxobolus slendrii* sp. nov., one known species, *M. punjabensis* Gupta, Khera (1989) infecting freshwater fishes in wetlands of Punjab, India. *Parasitol. Res.*, **106(5)**:1043–1047. **IMPACT FACTOR: 2.149.**
6. **Kaur, H., Singh, R. and Pandey, S. (2010)** Effect of Neem Seed Oil (*Azadirachta indica*) on the biological activities of female *Boophilus microplus* (Ixodoidea: Ixodidae). *O.N.J.V.R.*, **14(2)**:104-112.
7. **Kaur, H. and Singh, R. (2010/2011)** Two new species of *Myxobolus* (Myxosporidia, Bivalvulida) from the Indian major carp *Labeo rohita* Hamilton, 1822. *Protistology*, **6 (4)**: 264–270.
8. **Kaur, H. and Singh, R. (2011d)** Two new species of *Myxobolus* (Myxozoa: Myxosporidia: Bivalvulida) infecting Indian freshwater fishes in Punjab Wetlands (India). *Parasitol. Res.*, **108 (5)**: 1075-1082. (DOI: 10.1007/s00436-011-2307-6) **IMPACT FACTOR: 2.149.**
9. **Kaur, H. and Singh, R. (2011e)** *Myxobolus harikensis* sp. nov. (Myxozoa: Myxobolidae) infecting fins of *Cirrhina mrigala* (Ham.)- an Indian major carp in Harike Wetland, Punjab (India). *Parasitol. Res.*, **109 (6)**:1699-1705. (DOI: 10.1007/s00436-011-2445-x) **IMPACT FACTOR: 2.149.**
10. **Kaur, H. and Singh, R. (2012a)** A synopsis of the species of *Myxobolus* Bütschli, 1882 (Myxozoa: Bivalvulida) parasitizing Indian fishes and a revised dichotomous key to myxosporean genera. *Syst. Parasitol.*, **81**:17–37. (DOI: 10.1007/ 11230-011-9321-z) **IMPACT FACTOR: 1.250.**
11. **Kaur, H. and Singh, R. (2012b)** One new myxosporean species, *Triangula cirrhini* sp. nov., and one known species, *T. ludhiana* (Syn. *M. ludhiana* Gupta and Khera, 1991) comb. n. (Myxozoa: Myxosporidia), infecting Indian major carp in Harike wetland of Punjab. *Anim. Biol.*, **62**, 129–139. (DOI: 10.1163/157075611X616923) **IMPACT FACTOR: 0.87.**



12. **Singh, R. and Kaur, H. (2012b)** Biodiversity of myxozoan parasites infecting freshwater fishes of three main wetlands of Punjab, India. *Protistology*, **7 (2)**: 79–89 (2012).
13. **Singh, R. and Kaur, R. (2012c)** *Thelohanellus* (Myxozoa: Myxosporea: Bivalvulida) infections in major carp fishes from Punjab wetlands (India). *Protistology*, **7 (3)**:178–188.
14. **Kaur, H. Atrri, R. and Singh, R. (2012)** Incidence of gill Myxoboliosis in *catla catla* (Hamilton-Buchanan) in Harike wetland of Punjab. *Trends Parasitol. Res.*, **1(2)**:9-12.
15. **Kaur, H., Thakur, N. and Khan, M.L. (2012b)** Morphological variations of Genus *Mesocriconema xenoplax* Andrassy, 1965 on cotton-a study from Malwa region of Punjab. *Int. J. Adv. Biol. Res.*, **2(3)**:535-539.

➤ **PAPERS IN PROCEEDINGS**

1. **Kaur, H. and Singh, R. (2008)** Observations on one new species, of Genus *Myxobolus*- *M. naini* and redescription of *M. magauddi* recorded from freshwater fishes of Kanjali Wetland of Punjab, India. *Proc. 20th Natl. Congr. Parasitol.* NEHU, Shillong, pp. 75-79.
2. **Kaur, H. and Singh, R. (2011f)** Two new and one already known species of *Myxobolus* (Myxozoa: Myxosporea: Bivalvulida) infecting gill lamellae of Indian major carp fishes in Ropar and Harike wetlands (Punjab). *Proc. 22<sup>nd</sup> Natl. Congr. Parasitol.* Univ. Kalyani, West Bengal, pp. 81-90.

➤ **IN PRESS**

1. **Kaur, H. and Singh, R. (2013)** *Myxozoan infections in freshwater fishes of North India*. *Biosci. Res.* Sonali Publications, New Delhi (**in press**).
2. **Kaur, H. and Devi, L. (2013)** Seasonal contamination and availability of nematode larvae of sheep and goat on communal pastures in Patiala district of Punjab. *J. Vet. Parasitol.*, (**accepted**).
3. **Kaur, H. and Attari, R. (2013)** Morphological and morphometrical characterization of *Meloidogyne graminicola* (Golden and Brickfield from host plant in four districts) of Punjab. *J. Nematol.*, (**in press**).

➤ **COMMUNICATED**

1. **Singh, R. and Kaur, R. (2013)** “Two new *Thelohanellus* kudo, 1933 (myxozoa: myxosporea: bivalvulida) infecting fins of major carps in wetlands of Punjab. *Trends Parasitol. Res.*, (**communicated**).
2. **Singh, R. and Kaur, R. (2013)** Two new and one already known thelohanellid species (Myxozoa: Myxosporea: Bivalvulida) of the genus *Thelohanellus* Kudo, 1933 parasitizing fresh water fishes in wetlands of Punjab, India. *Iranian J. Fish. Sci.*, (**communicated**).
3. **Singh, R. and Kaur, R. (2013)** Myxosporean species of the genus *Thelohanellus* Kudo, 1933 (Myxozoa: Myxosporea: Bivalvulida) from freshwater fishes of Punjab wetlands, India”. *Protistology*, (**communicated**).
4. **Kaur, H. Katoch, A. Ali Dar, S. and Singh, R. (2013)** *Myxobolus nanokiensis* sp. nov. (Myxozoa: Bivalvulidae), new pathogenic

myxosporean parasite causing haemorrhagic gill disease in a cultured Indian major carp fish, *Labeo rohita* (Ham) in Punjab (India)". *J. Parasit. Dis.*, (communicated).

5. **Kaur, H., Ali Dar, S. and Singh, R. (2013) A report on three myxozoan parasites causing gill myxoboliosis in aquaculture fishes in Punjab (India). *Trends Parasitol. Res.*, (communicated).**

#### PAPER PRESENTED IN CONFERENCES

- (1) "Studies on the male and female reproductive systems, egg shell formation and copulatory apparatus of *Ascaridia galli*". Oral Presentation in **3<sup>rd</sup> Punjab Science Congress** and symposium from December 10-12, 1999 held at Panjab Univ., Chandigarh.
- (2) Comparative morphological, histological and histochemical studies on the female reproductive tracts of some parasitic nematodes". In **14<sup>th</sup> National Congress of Parasitology**" from April 23-26, 2000, held at ICGB, New Delhi.
- (3) "Quantitative and qualitative analysis of Helminth fauna in sheep, goat and poultry fowl in Chandigarh and its adjoining areas", in poster session of the "**4<sup>th</sup> Punjab Science Congress**", Punjab Academy of Sciences, From Feb. 10, 2001, at Punjab Agricultural University, Ludhiana.
- (4) "Studies on the copulatory apparatus of male *Oesophagostomum columbianum*" in "**XXIV Annual conference on Election Microscopy and Allied fields**" from Feb 11, 2001 held at RSIC/CIL, Panjab University, Chandigarh.
- (5) "Studies on the copulatory apparatus of male and female *Trichuris globulosa*, a parasite of sheep and goat: In "**88<sup>th</sup> Session of the Indian Science Congress**, New Delhi, Jan. 3-7, 2001.
- (6) "Comparative histochemical and SEM studies on the mature eggs from the distal uterus of some parasitic nematodes". In **5<sup>th</sup> Punjab Science Congress**, organized by Punjab Academy of Sciences, held at Thapar Instituted of Engineering and Technology, Patiala, from Feb 7-9, 2002.
- (7) "A report on a *Hexameris*- a mermithid from red cotton bug in Chandigarh. In **UGC working conference on Entomological Research – Progress and Problems**, held at Department of Zoology, Panjab University, Chandigarh, from March 19-21, 2002.
- (8) "On two species of *Myxobolus* Butschli from fresh water fishes of water lands of Punjab" in **National symposium on Biodiversity, Cell and Molecular Biology**" from, Feb 26-27, 2008, held at Department of Zoology , Panjab University, Chandigarh.
- (9) "On two myxosporean species (Myxozoa: Myxosporea: Bivalvulida) of the genera of *Neothelohanallus* (Das & Halder, 1986) and *Myxobolus* Butschli, 1882 from fresh water fishes of wetlands of Punjab" in **Second Chandigarh Science Congress**, from March 14-15 2008, held at Department of Zoology, Panjab University, Chandigarh.
- (10) "Observations on one new species of Genus *Myxobolus*- *M. naini* and redescription of *M. magauddi* (Bajpai et al. 1981) Gupta and

- Khera, 1988 recorded from freshwater fishes of Kanjali Wetland of Punjab, India” in **20th National Congress of Parasitology** from Nov. 3-5, 2008, held at Department of Zoology North Eastern Hill University, Shillong (Meghalaya).
- (11) “One new myxosporean species, *Myxobolus splendrii* sp. nov. and redescription of *M. punjabensis* Gupta and Khera, 1989 infecting freshwater fishes in Wetlands of Punjab, India” in **21st National Congress of Parasitology** from Nov. 14-16, 2009 held at Department of Zoology, Panjab University, Chandigarh.
  - (12) “Incidence of Myxozoan Parasites in Freshwater Fishes of Punjab Wetlands” in **12th Punjab Science Congress** from Feb. 7-9, 2009, held at Punjab Agriculture University, Ludhiana.
  - (13) “A study on the Plant Parasitic Nematodes associated with Banana Crops (*Musa AAA*) in district Patiala, Punjab-India” paper presented in **2<sup>nd</sup> National Symposium on Biodiversity: Cell and molecular biology** held at Department of Zoology, Panjab University, Chandigarh from March 1-2, 2009.
  - (14) “Distribution and frequency of occurrence of *Meloidogyne incognita* (Kofoid and White) Chitwood, 1949 on banana plant in District Patiala, India” poster presented in **National Symposium on Recent advances in Biological Sciences** held at DAV College, Chandigarh on from 6<sup>th</sup> Nov. to 7<sup>th</sup> Nov. 2009.
  - (15) “Effect of aqueous neem leaf extract on egg hatching and larval mortality of *Meloidogyne incognita in-vitro* study” poster presented in **21<sup>st</sup> National Congress of Parasitology** held at Panjab University, Chandigarh on from 14<sup>th</sup> Nov. to 16<sup>th</sup> Nov. 2009.
  - (16) “Two new species of *Myxobolus* (Myxozoa: Myxosporidia: Bivalvulida) infecting Indian freshwater fishes in Ropar and Kanjali wetlands of Punjab, India” in **National Conference on Advances in Biological Sciences** from March 29-30, 2010 at Department of Zoology, Panjab University, Chandigarh.
  - (17) “Myxozoa, an enigmatic group of parasites- a study on the fishes of Punjab wetlands” in **National conference on Environment degradation and its impact on mankind** from Nov. 19-20, 2010 held at Department of Zoology, Punjabi University, Patiala.
  - (18) “Effects of some plant extracts on the hatching of *Meloidogyne incognita* (Kofoid and White) Chitwood in **National Conference on Environment Degradation and its Impact on Mankind** held at Department of Zoology, Punjabi University, Patiala from November 19-20, 2010.
  - (19) “Morphological and Morphometrical characterization of *Meloidogyne javanica* (Treub) of the host plant Banana in different district of Punjab” in **National Conference on Advances in Biological Sciences** held from 29-30 March, 2010 organized by Panjab University, Chandigarh.
  - (20) “Morphological and Morphometrical characterization *Meloidogyne graminicola* (Golden and Brickfield) of the host plant rice in the different districts of Punjab in **Redefining approaches to address current issues for sustainable biodiversity**” held from 2-3 December, 2010 organized by Panjab University, Chandigarh.

- (21) “*In vitro* studies on the effect of some aqueous plant extracts on hatching, mobility and mortality of *Meloidogyne incognita*, the root knot nematode” in **National Conference on Advances in Biological Sciences** held at Panjab University, Chandigarh from 29-30 March, 2010.
- (22) “A Report on some myxozoan parasites of aquaculture fishes in Punjab” in UGC- CAS sponsored conference on **Redefining approaches to address current issues for sustainable biodiversity** held at Panjab University, Chandigarh from 2-3 December, 2011.
- (23) “A report on four new myxozoan parasites of the genus *Thelohanellus* Kudo, 1933 (Myxosporea: Myxobolidae) from freshwater fishes of wetlands of Punjab, India” in **22<sup>nd</sup> National Congress of Parasitology** held at Anna University, Chennai from Nov. 18-20, 2011.
- (24) “*In vitro* study on effect of some aqueous plant extract on larval mobility and mortality of *Meloidogyne incognita* in Exploring New Vistas in **Biodiversity Research For Sustainable Development** held at Department of Zoology, Panjab University, Chandigarh from January 23-24, 2011.
- (25) “Biomangement of root-knot nematode (*Meloidogyne incognita*) infesting tomato plants” in **International Conference on Microbial Biotechnology for Sustainable Development** held at Department of Microbiology, Panjab University, Chandigarh from November 3-6, 2011.
- (26) “Bioefficacy of aqueous neem leaf extract for the management of root-knot nematodes *Meloidogyne incognita* in tomato plants” in **International Conference on Entomology**, held at Department of Zoology and Environmental Sciences, Punjabi University, Patiala from February 17-19, 2012.
- (27) “Gill myxoboliosis in aquaculture fishes in Punjab- A disease transmitted by aquatic insects and worms” in **International Conference on Entomology** held at Punjabi University, Patiala from 17-19 February, 2012.
- (28) “Eco-friendly management of Root-Knot nematode infesting tomato plants” on **Environment day** organized by Department of Zoology and Environmental Sciences, Punjabi University, Patiala on 05 June 2012.
- (29) “Gill myxoboliosis in aquaculture fishes in Punjab-A diseases transmitted by aquatic insects and worm” **International Conference on Entomology** organized by Department of Zoology and Environmental Sciences, Punjabi University, Patiala on 17-19 Feb. 2012.
- (30) “Myxozoan parasitic infections in cultured major carps in fish ponds” organized by Punjab Science Congress Association Patiala Chapter, Punjabi University, Patiala.
- (31) “Myxozoan parasites of economically important freshwater fishes of wetlands of Punjab- transmitted by aquatic insects and annelids” **International Conference on Entomology** organized by Department of Zoology and Environmental Sciences, Punjabi University, Patiala on 17-19 Feb. 2012.

- (32) “Incidence of gill myxoboliasis in *Catla cala* (Ham.) in Harike wetland of Punjab- an economically important Indian major carp” in **National conference on Man and Environment** organized by Department of Zoology and Environmental Sciences, Punjabi University, Patiala on 15-16 Oct. 2012.
- (33) Histopathological changes in gills of Indian major carps, *L. rohita* (Ham.) infected with myxosporean parasites” in **National conference on Man and Environment** organized by Department of Zoology and Environmental Sciences, Punjabi University, Patiala 15-16 Oct. 2012.
- (34) “In vitro evaluation of nematicidal action of Neem on leaf and seed extract on *Meloidgyne incognita* in tomato and pH of soil” in **National conference on Man and Environment** organized by Department of Zoology and Environmental Sciences, Punjabi University, Patiala on 15-16 Oct. 2012.