

BIO-DATA

- 1. Name** : Dr. Shashi Aggarwal
 - 2. Designation** : Professor
 - 3. Department** : Zoology and Environmental Sciences
 - 4. Date of Birth** : January 27, 1957
 - 5. Address for Correspondence**
Dr. Shashi Aggarwal, Professor,
Department of Zoology and
Environmental Sciences,
Punjabi University, Patiala-147002,
India
- Phone** : 0175-3046334
Mobile : 08054280827
Fax : Attn. Dr. Shashi Aggarwal,
0175-3046334
E-mail : shashiuniindia@yahoo.co.in

6. Areas of Specialization

Physiology, Pathology, Fluorosis, Endocrinology, Toxicology.

7. Educational Qualifications

Sr. No.	Degree Held	Year	Board/Univ. Inst.	Div./ Rank	Subjects Taken
1.	Higher Sec.-1	1973	Punjab School Education Board	First	Math's, English, Social studies, General Science, Hindi, Physics, Chem., Biol.
2.	B.Sc.	1977	Govt. Mahendra college, Patiala	First	Botany, Zoology, Hindi, chemistry, English
3.	M.Sc.	1979	Punjabi University, Patiala	First	Zoology through Research
4.	B.Ed	1981	-do-	First	Philosophy, Psychology etc.
5.	Pre Ph.D. Zoology	1982	-do-	Qualified	Research methodology, Advances in Entomology
6.	Certificate course in French	1983	-do-	First	French
7.	Ph.D. Zoology	1986	-do-	Degree awarded	
8.	Certificate course in German	1990	-do-	First	German
9.	Diploma in German	1993	-do-	First in univ.	German

8. Scholarships:

- i) Punjab state merit scholarship in M.Sc. awarded by Govt. of Punjab.

9. Details of Experience:

S.No.	Name of the Inst./Employer	Position Held	Duration	Major Job Responsibilities and Nature of Experience
1.	Punjabi university, Patiala	RA	5 years	Research, Teaching M.Sc. I and II Zoology
2.	Punjabi university, Patiala	Lecturer	4 years	Research, Teaching M.Sc. I and II Zoology
3.	Punjabi university, Patiala	Senior Lecturer	5 years	Research, Teaching M.Sc. I and II Zoology
4	Punjabi University, Patiala	Associate Professor	6 years	Research, Teaching M.Phil., M.Sc. I and II Zoology
5	Punjabi University, Patiala	Professor	Continuing	Research, Teaching M.Phil., M.Sc. I and II Zoology

10. Published Work

a) Research Papers Published	Total	=	104
	i) National	=	24
	ii) International	=	80
b) Article in Punjabi		=	06
c) Abstracts published in Conferences/Seminars		=	100
d) Chapters published in books		=	02

11. Workshops, Training Programmes, Conferences and Symposia participated

Total = 83

Workshops = 19

Papers presented in conferences

Total = 64

i) International	=	21
ii) National	=	43
Sessions Chaired	=	15

12. Foreign Visit:

Visited Amsterdam, The Netherlands & Presented research paper in "XIIth International congress for Tropical medicine & malaria" in 1988. Abstract no.1082.

13. R & D Projects

U.G.C. minor Project on “Biochemical characterization of pituitary gland and retina in experimental fluorosis” Punjabi University, Patiala

14. Invited Lectures

Extension lectures on theory and practical demonstration on microtomy for B.Sc Medical and Biotechnology students, Organised by G.H.G. Khalsa College, Guruser Sadar, Ludhiana, Punjab, Nov. 2008.

15. Research Guidance:

A. For Ph.D

S.No	Name of Student	Title of Thesis	Registered Year
1	Mrs. Monika Bhardwaj (SRF-RGNF)	Epidemiological and biochemical characterization of fluorosis in Malwa region of Punjab, India	Degree awarded 601-PU(P)-2002 2011
2	Ms. Neetika Sharma (SRF- UGC)	Clinicopathological and Biochemical study of thyroid disorders in Himachal Pradesh, India	Degree awarded 2012
3	Mrs. Sumati Sharma	Biochemical study of lipid peroxidation and antioxidant defense system in the patients of skeletal fluorosis from Faridkot and Mukatsar districts of Punjab	2008
4	Mrs. Sapna	Study of selected biochemical risk factors in patients of coronary artery disease from North India.	2009
6	Ms.Meenakshi (SRF-RGNF)	Ultrastructural and biochemical study of red blood cells in patients afflicted with fluorosis	2011
7	Mr. Jatinder Kumar (JRF-RGNF)	Neuropathological and neurochemical manifestations in experimental fluorosis	2011

8	Ms. Imtiaz (JRF-INSPIRE) (DST)	Toxic effect of fluoride on male reproductive system of rat	2011
B. For M.Phil			
9	Mr. Manish Kumar	Biochemical evaluation of osteorenal syndrome in fluoride toxicity	2009
10	Ms. Swati Singla	Thyroid function derangements in fluoride toxicosis.	2009
11	Ms. Meenakshi	Light and scanning electron microscopic study of human blood cell abnormalities in fluorosis.	2010
12	Ms. Sonam	Morphological and ultrastructure study of blood cell lesions in fluoride toxicity.	2011
13	Ms. Upasna	Biochemical evaluation of thyroid dysfunction in diabetes mellitus: case control study	2012
14	Ms. Kamini Parmar	Antioxidant activity and hepatoprotective role of leaf extract of <i>Boerhaavia diffusa</i> L. against fluoride induced oxidative stress in rat.	2013
15	Ms. Neha Sharma	Oxidative stress and gene expression of antioxidant enzymes in the renal cortex of fluoride induced rats.	2013 Continuing
C. For M.Sc.			
S.No	Name of Student	Title of Thesis	Completed
16	Mr. Sandeep Kumar	Hepatotoxicity and nephrotoxicity of fluoride in rat.	2005
17	Mr. Bharat Bhushan	Histopathological and cytochemical alteration in gastrocnemius muscles of	2005

		fluoride intoxicated rat.	
18	Ms. Shalu Makkar	Fluoride and gastrointestinal manifestations	2005
19	Ms.Sukhjot Grewal	Testicular damage in experimental fluorosis.	2005
20	Ms.Virpal Kaur	A prospective study of clinical and subclinical thyroidism in Patiala, India	2006
21	Ms.Shalini Sharma	Prevalence of dental fluorosis in rural school children in relation to fluoride concentration of drinking water in two villages	2006
22	Ms. Neetika Sharma	Neuropathological and neurocytochemical alterations during experimental fluorosis.	2006
23	Ms. Neeeraj Sharma	Histopathological and cytochemical evaluation of pancreas in experimental fluorosis	2006
24	Mr. Ashwani Kapoor	Oral and respiratory cancer: A clinical and epidemiological case study	2006
25	Mr. Manish Kumar	Prevalence and biochemical study of fluorosis in rural area of Sangrur District Punjab, India	2007
26	Ms. Kuljeet Kaur	Prevalence and biochemical study of osteo-hepatic syndrome in fluorotoxicity.	2008

16. Membership of Professional Bodies/Organizations

1. The National Academy of Sciences, India.	Life Member
2. Indian Association of Nuclear Chemists & Allied Scientists, B.A.R.C., Mumbai.	Life Member
3. India Society for Comparative Animal Physiology (ISCAP) Tirupati, India.	Life Member
4. Bioinformatics Centre Organization, Noida, India	Life Member
5. National Environmental Science Academy, New Delhi, India	Life Member
6. The Association of Physiologists & Pharmacologists of India, New Delhi, India	Life Member
7. Indian Science Congress Association, India.	
8. Punjab Academy of Sciences, Patiala, Punjab	Life Member
9. The New York Academy of Sciences, U.S.A.	Life Member
10. The International Society for Fluoride Research, U.S.A.	Member
11. Electron Microscope Society of India, New Delhi, India	Member
12. Indian Academy of Environmental Biology, India	
13. Indian Society of Life Sciences, Kanpur, India	Member
14. Indian Society of Toxicology, Kochi, India	
15. Society for Science and Nature, Bhopal, India	Member
	Member
	Member
	Member

17. Member and Reviewer of Editorial Board

1. Asian Pacific Journal of Tropical Medicine (Elsevier), China. Online
2. Asian Journal of Microbiology, Biotechnology and Environmental Sciences (AJMBES), India.
3. African Journal of Pharmacy and Pharmacology Online
4. Journal of Physiology and Pathophysiology, South Africa Online

18. Participation in Organization of 11 symposia held in the Dept. of Zoology, Punjabi University, Patiala.

- Five International (2000, 2005, 2007, 2009, 2012)
- Six National (1996, 1997, 2003, 2005, 2006, 2010)

As member of

- i) Organizing committee
- ii) Scientific committee
- iii) Registration committee
- iv) Hospitality committee
- v) Transport and Accommodation committee

19. List of theory papers/course taught & practicals conducted at Post-graduate level and M.Phil.

Sr. No.	Paper	Class
1.	Research Methodology	M. Phil
2.	Advances in Physiology	-do-
3.	Comparative Animal physiology	M. Sc. II Zoology
4.	Mammalian physiology	-do-
5.	Cell physiology	-do-
6.	Reproductive Physiology	-do-
7.	Biology of Parasites	-do-
8.	Embryology	-do-
9.	Membranes & the cytoplasm: Structure and Function	-do-
10.	Cell division, differentiation & cellular Interaction	-do-
11.	General Endocrinology	-do-
12.	Functional Anatomy	M.Sc.-I Zoology
13.	Invertebrates	-do-
14.	Comparative Anatomy of Vertebrates	-do-
15.	General Physiology	-do-

20. Technical Proficiency

Undertook training at various prestigious institutes of India and have hand on experience of the techniques including Radioimmunoassay of hormones, Scanning and transmission electron microscopy, STM, Ultramicrotomy, Biochemical analysis, TLC, Paper chromatography, DNA isolation, Northern and Southern Blotting, PCR, and single cell gel electrophoresis.

21. List of Papers Published

1. ***1985** Singh JP ; Shashi ; Thapar SP.
Effect of fluoride on total lipid, cholesterol and triglyceride levels in liver of albino rabbits.
Fluoride, 18(3):146-149.
ISSN 0015-4725 **Impact Factor: 1.611**

2. **1986** Singh JP ; Shashi ; Thapar SP.
Effect of fluoride on glycogen content of the kidneys of white albino rabbit.
J. Sci. Res., 8(2 & 3): 139-140.
ISSN 0253-7230

3. ***1987** Shashi ; Singh JP ; Thapar SP.
Effect of fluoride administration on organs of gastro-intestinal tract. An experimental study on rabbits: Effect on tissue proteins.
Fluoride, 20(3):183-188.
ISSN 0015-4725 **Impact Factor: 1.611**

4. **1987** Shashi ; Singh JP ; Thapar SP.
Fluoride induced pathological changes in trachea: An experimental study in rabbits.
J. Anat. Soc. India, 36(3):179-183.
ISSN 0003-2778

12. **1989** Shashi.
Morphogenesis of oenocytes in the post-embryonic development of *Dysdercus koenigii*. *Fab. J. Insect Sci.*, 2(1):20-23.
ISSN 0970-3837
13. ***1989** Shashi ; Singh JP ; Thapar SP.
Effect of fluoride in excess on lipid constituents of respiratory organs in albino rabbits.
Fluoride, 22(1):33-39.
ISSN 0015-4725 **Impact Factor: 1.611**
14. **1989** Shashi ; Singh JP ; Thapar SP.
Experimental studies on the changes in lipid constituents of the kidney due to fluorosis.
Proc. Natl. Symp. Recent Trends in Immunobiol. Biochem., Vikram University, Ujjain.
March 24-26, 1988. PP 55-62.
15. ***1989** Shashi.
Fluoride toxicity and muscular manifestations: Histopathological effects in rabbit.
Fluoride, 22(2):72-77.
ISSN 0015-4725 **Impact Factor: 1.611**
16. **1990** Shashi ; Singh JP ; Thapar SP.
Effect of sodium fluoride on protein, free amino acid and DNA content in kidneys during experimental fluorosis.
Indian J. Pathol. Microbiol., 33 :1 (Suppl.) : 101-107
ISSN 0377-4929
17. **1990** Shashi.
Fluoride - induced changes in rabbit lens during experimental fluorosis. *J. Environ. Biol.*, 11 (2 suppl.): 247-251.
ISSN 0254-8704
18. **1990** Shashi.
Histopathological changes in rabbit ovary during experimental fluorosis.
Indian J. Pathol. Microbiol., 33(2):113-117.
ISSN 0377-4929

19. **1990** Shashi
Histopathological changes in rabbit testes during experimental fluorosis.
Folia Morphologica, 38(1):63-65.
ISSN 0015-5659
20. **1991** Shashi ; Singh JP ; Thapar SP.
Quantitative analysis of glycogen in gastrointestinal organs of rabbit during experimental fluorosis.
J. Ecotoxicol. Environ. Monit., 1(2):148-152.
ISSN 0971-0965
21. ***1992** Shashi, A.
Studies on alterations in brain lipid metabolism following experimental fluorosis.
Fluoride, 25(2):77-84.
ISSN 0015-4725 **Impact Factor: 1.611**
22. ***1992** Shashi, A.
Biochemical effects of fluoride on lipid metabolism in the reproductive organs of male rabbits.
Fluoride, 25 (3): 149-154.
ISSN 0015-4725 **Impact Factor: 1.611**
23. ***1992** Shashi A, Singh JP ; Thapar SP.
Protein degradation in skeletal muscle of rabbit during experimental fluorosis.
Fluoride, 25(3): 155-158.
ISSN 0015-4725 **Impact Factor: 1.611**
24. **1992** Shashi; Kaur D.
Testicular proteins and DNA in experimental fluorosis.
Indian J. Pathol. Microbiol., 35(4) :351-356.
ISSN 0377-4929
25. **1992** Sood V, Shashi.
Comparative morphology of mammalian scapula.
J. Curr. Biosci., 9(1):34-40.
ISSN 0256-0011

26. ***1993** Shashi A.
Nucleic acid levels in thyroid gland in acute and chronic fluoride intoxication.
Fluoride, 26(3):191-196.
ISSN 0015-4725 **Impact Factor: 1.611**
27. ***1994** Shashi A.
Preliminary observations on alterations in rabbit ovary DNA and RNA content in experiment fluorosis.
Fluoride, 27(2): 76-80.
ISSN 0015-4725 **Impact Factor: 1.611**
28. ***1994** Shashi ; Singh JP ; Thapar SP.
Effect of long term administration of fluoride levels of protein, free amino acids and RNA in rabbit brain.
Fluoride, 27(3):155-159.
ISSN 0015-4725 **Impact Factor: 1.611**
29. **1995** Singh JP, Shashi A, Kaur R.
The retrocerebral neuroendocrine complex in *Idiocerus atkinsoni* Leth. (Jassidae : Hemiptera).
Ann. Entomol., 13(2):27-30.
ISSN 0970-3721
30. **1996** Singh JP, Shashi A, Mann S.
Histomorphology of the alimentary canal in Flea beetle *Altica cyanea* Weber (Coleoptera).
Ann. Biol., 12(1):139-143.
ISSN 0970-0153
31. **1995** Singh JP, Mukesh D, Shashi A.
The yolk and yolk cells during embryogenesis of a phytophagus *Aulacophora foveicollis* Lucas and a carnivorus *Chilomenes sexmaculata* Fabr. (Coleoptera).
Ann. Entomol., 13 (2): 49-53.
ISSN 0970-3721

32. **1995** Shashi A, Kaur D.
Alterations in hepatic lipid metabolism of the rabbits in experimental fluorosis.
J. Ecotoxicol. Environ. Monit., 5(2): 143-146.
ISSN 0971-0965-0005-95-143
33. **1995** Singh JP, Shashi A, Aggarwal D.
Histomorphology of the brain of *Mylabris pustulata* Thunb. (Meloidae: Coleoptera).
Ann. Entomol., 13(2):37-43.
ISSN 0970-3721
34. **1995** Singh JP, Shashi A, Kaur H.
Bis (Phenyl dithiocarbamate) Cd II- a cadmium derivative as a chemosterilant for *Musca domestica nebulosa* F. (Diptera : Muscidae).
Ind. J. Comp. Anim. Physiol., 13(2):73-76.
ISSN 0255-7150
35. **1996** Singh JP, Mukesh D, Shashi A.
The embryology of sympathetic nervous system in *Aulacophora foveicollis* Lucas and *Chilomenes sexmaculata* Fabr. (Coleoptera).
J. Ecobiol., 8(1):033-036.
ISSN 0970-9037
36. **1996** Singh JP, Shashi A, Mukesh D.
Embryonic movements during the development of *A. foveicollis* Lucas (Coleoptera: Chrysomelidae).
J. Ecobiol., 8 (2):153-158.
ISSN 0970-9037
37. **1996** Singh JP; Shashi A; Mukesh D.
Segmentation and appendages formation in the early embryos of *Chilomenes sexmaculata* Fabr. (Coleoptera:Coccinellidae).
J. Ecobiol., 8(3):189-194.
ISSN 0970-9037
38. **1996** Singh JP, Shashi A, Mukesh D.
Comparative embryology of respiratory system in *Aulacophora foveicollis* Lucas and *Chilomenes sexmaculata* Fabr. (Coleoptera).
J. Ecobiol., 8 (3): 209-213.
ISSN 0970-9037.

39. **1996** Singh JP, Mukesh D, Shashi A.
Embryonic development of circulatory system in *Aulacophora foveicollis* Lucas (Coleoptera: Chrysomelidae).
Ann. Biol., 12(2):314-319.
ISSN 0970-0153
40. **1996** Singh JP, Mukesh D, Shashi A.
Morphogenesis of appendages in the embryos of *Aulacophora foveicollis* Lucas (Coleoptera: Chrysomelidae).
Ind. J. comp. Anim. Physiol., 14(1):48-52.
ISSN 0255-7150 .
41. **1996** Singh JP, Mukesh D, Shashi A.
Structure and development of germ band and embryonic envelopes in *Aulacophora foveicollis* Lucas (Coleoptera Chrysomelidae).
J. Ecobiol., 8 (4): 251-258.
ISSN 0970-9037
42. **1996** Singh JP, Shashi A, Mukesh D.
The origin of mesoderm and formation of coelomic sacs in the early embryos of *Aulacophora foveicollis* Lucas and *Chilomenes sexmaculata* Fabr. (Coleoptera).
Ann. Biol., 12(2):320-327.
ISSN 0970-0153
43. **1996** Singh JP, Shashi A, Kaur R.
Structure of brain and optic peduncle in *Idiocerus atkinsoni* Leth. (Jassidae : Hemiptera).
J. Ecobiol., 8 (4):263-270
ISSN 0970-9037
44. **1997** Singh JP, Shashi A, Mukesh D.
Blastokinesis in the early embryonic development of *Chilomenes sexmaculata* Fabr. (Coleoptera: Coccinellidae).
Ind. J. Comp. Animal Physiol., 15:15-18.
ISSN 0255-7150

45. **1997** Singh JP, Mukesh D, Shashi A.
Early embryonic development of central nervous system in *Aulacophora foveicollis* Lucas (Coleoptera : Chrysomelidae).
Ad. Biosci., 16 (2):71-80.
ISSN 0970-0315
46. **1997** Singh JP, Mukesh D, Shashi A.
The origin and development of midgut in two coleopteran beetles.
J. Ecobiol., 9 (2):121-126.
ISSN 0970-9037
47. **1997** Singh JP, Mukesh D, Shashi A.
Development of the germ band and embryonic envelopes in *Chilomenes sexmaculata* Fabr. (Coleoptera: Coccinellidae).
Ad. Biosci., 16 (1):75-84.
ISSN 0970-0315
48. **1997** Singh JP, Mukesh D, Shashi A.
The origin and development of Malpighian tubules in the early embryos of *Chilomenes sexmaculata* Fabr. (Coleoptera : Coccinellidae).
J. Natcon., 9 (1):107-110.
ISSN 0970-5945
49. **1999** Shashi A.
Gastric lesions in experimental fluorosis.
Asian J. Microbiol. Biotech. Env. Sci., 1 (3-4):171-175.
ISSN 0972-3005
50. **1999** Shashi A, Sharma R, Dhiman S.
Biological warfare.
Disabil. Impairm., 13(1 & 2):43 - 51.
ISSN 0970-356X
51. **2000** Shashi, A, Dhiman RS.
Thalassemia- A haemoglobin disorder.
Disabil, Impairm., 14 (1):48-52
ISSN 0970-356X

52. **2000** Dhiman RS, Shashi, A, Sharma, R.
DNA fingerprinting.
Disabil. Impairm., 14 (2):121-124.
ISSN 0970-356X
53. ***2000** Shashi A, Thapar SP.
Histopathology of fluoride-induced hepatotoxicity in rabbits.
Fluoride, 34(1):34-42
ISSN 0015-4725 **Impact Factor: 1.611.**
54. ***2001** Shashi A, Thapar, SP.
Histopathology of myocardial damage in experimental fluorosis
in rabbits.
Fluoride, 34 (1):43-50.
ISSN 0015-4725 **Impact Factor: 1.611**
55. ***2002** Shashi A.
Histopathological effects of sodium fluoride on the duodenum of rabbits.
Fluoride, 35(1):28-37.
ISSN 0015-4725 **Impact Factor: 1.611**
56. ***2002** Shashi A.
Toxic effects of fluoride on rabbit Kidney.
Fluoride, 35(1):38-50.
ISSN 0015-4725 **Impact Factor: 1.611**
57. ***2003** Shashi A.
In vivo studies concerning toxic effects of sodium fluoride on hepatic
function in rabbits.
Fluoride, 36(1):30-37.
ISSN 0015-4725 **Impact Factor: 1.611**
58. ***2003** Shashi A.
Histopathological investigation of fluoride-induced neurotoxicity
in rabbits.
Fluoride, 36(2):95-105.
ISSN 0015-4725 **Impact Factor: 1.611**

59. **2003** Shashi A.
Gastrointestinal manifestations in experimental fluorosis in young albino rabbits.
Asian J. Microbiol. Biotech. Env. Sci., 5(4):477-481.
ISSN 0972-3005
60. ***2003** Shashi A.
Fluoride and adrenal gland function in rabbits.
Fluoride, 36(4):241-251.
ISSN 0015-4725 **Impact Factor: 1.611**
61. **2007** Shashi A, Sharma N, Bhardwaj M.
Fluoride induced DNA damage and apoptosis in rat pancreas.
Asian J. Microbiol. Biotech. Environ. Sci. 9(4):953-957.
ISSN 0972-3005
62. **2007** Shashi A, Sharma N, Bhardwaj M, Sharma N.
Pathologic alterations in endocrine pancreatic islet cells during experimental fluorosis.
Asian J. Microbiol. Biotech. Environ. Sci. 9(4):977-981
ISSN 0972-3005
63. **2007** Shashi A, Grewal S, Bhardwaj M.
Cytochemical alterations in testicular proteins in experimental fluorosis.
Asian J. Microbiol. Biotech. Environ. Sci.,9(4):1007-1012.
ISSN 0972-3005
64. **2008** Shashi A, Sharma S, Bhardwaj M.
Oral health status in students exposed to fluoride in drinking water.
Asian J. Microbiol. Biotech. Environ. Sci.,10(2):323-328.
ISSN 0972-3005
65. **2008** Shashi A, Kumar M.
Effect of high fluoride ingestion on serum biochemical indexes in patients of skeletal fluorosis.
Asian J. Microbiol. Biotech. Environ. Sci.,10(3):63-70.
ISSN 0972-3005

66. **2008** Shashi A, Kaur V.
Pathology and clinical aspect of autoimmune thyroiditis and non autoimmune thyroid disease.
Asian J. Microbiol. Biotech. Environ. Sci.,10(3):130-136.
ISSN 0972-3005
67. **2008** Shashi A, Kumar M.
Age specific fluoride exposure in drinking water- a clinical multiparametric study.
Asian J. Microbiol. Biotech. Environ. Sci.,10(3):655-660.
ISSN 0972-3005
68. ***2008** Shashi A, Kumar M, Bhardwaj M.
Incidence of skeletal deformities in endemic fluorosis.
Tropical Doctor, **38:231-233**.
ISSN 0049-4755 (Print); 1758-1133 (Online)
Impact Factor: 0.521
69. **2008** Shashi A, Kaur K, Bhardwaj M.
Biochemical investigations of osteo-hepatic syndrome in fluorotoxicity.
Biosci. Biotech. Res. Commun., 1(1):28-37.
ISSN 0974-6455
70. **2008** Shashi A, Neetika N, Bhardwaj M, Neeraj S.
Fluoride - induced depletion of mucosubstances in rat brain cortical slices
Biosci. Biotech. Res. Commun., 1(1):42-46.
ISSN 0974-6455
71. **2008** Shashi A, Grewal S Bhardwaj M.
Effect of fluoride intoxication on spermatogenesis in rat.
Biosci. Biotech. Res. Commun., 1(2):121-127
ISSN 0974-6455
72. **2008** Shashi A, Neetika S.
Neuropathological changes in cerebellum of rat in Experimental fluorosis.
Biosci. Biotech. Res. Commun., 1(2):128-131.
ISSN 0974-6455

73. **2008** Shashi, A, Neetika S, Sharma N.
Cytochemical alteration in pancreas of fluoride intoxicated rat.
Biosci. Biotech. Res. Commun.,1(2):143-146.
ISSN 0974-6455
74. **2009** Shashi A, Kapoor A, Bhardwaj M.
Oral and respiratory cancer: A clinical and epidemiological case study.
Asian J. Microbiol. Biotech. Environ. Sci.,11(1):55-59.
ISSN 0972-3005
75. **2009** Shashi A, Sharma N, Bhardwaj M.
Neuronal DNA damage and apoptosis in brain of rat exposed to fluoride.
Asian J. Microbiol. Biotech. Environ. Sci.,11(3):629-632.
ISSN 0972-3005
76. **2009** Shashi A, Neeraj S and Sharma N.
Cytotoxic effect of fluoride on rat pancreatic proteins.
Asian J. Microbiol. Biotech. Environ. Sci.,11(2):349-353
ISSN 0972-3005
77. **2009** Shashi A, Singla S.
Thyroid function derangement in patients of Bathinda District suffering from fluoro toxicosis.
Biosci. Biotech. Res. Commun., 2(1):65-70.
ISSN 0974-6455
78. **2009** Shashi A, Sharma N.
Neurocytofluorotoxic alterations in cerebral proteins during experimental fluorosis in albino rats.
Biosci. Biotech. Res. Commun.,2(1):92-95.
ISSN 0974-6455
79. **2009** Shashi A, Grewal S, Bhardwaj M.
Toxicological effect of fluoride on the rat testicular glycogen.
Asian J. Microbiol. Biotech. Environ. Sci.,11(3):643-646.
ISSN 0972-3005

80. **2009** Shashi A, Kumar M.
Clinical and biochemical evaluation of blood serum enzymes in osteofluorosis.
Asian J. Microbiol. Biotech. Environ. Sci., 11(3):647-651.
ISSN 0972-3005
81. **2009** Shashi A, Singla S, Sharma N.
Clinicocytopathologic study of goitre in high fluoride areas of Bathinda District, Punjab.
Biosci. Biotech. Res. Commun.,2(2):155-161.
ISSN 0974-6455
82. **2009** Shashi A, Bhushan B, Sharma N.
Abnormalities in lipid composition in gastrocnemius muscle of rat exposed to fluoride.
Online J. Biotech. Res., 1(3):140-143.
ISSN 0975-1734
83. **2009** Shashi A, Kaur V, Sharma N.
Thyroid disorders: Prevalence and clinical relevance.
Asian J. Microbiol. Biotech. Environ. Sci.,11(4):819-824.
ISSN 0972-3005
84. **2009** Shashi A, Bhushan B, Sharma N.
Cytochemical analysis of gastrocnemius muscle of fluoride intoxicated albino rat.
Biosci. Biotech. Res. Commun., 2(2):207-209.
ISSN 0974-6455
85. ***2010** Shashi A, Bhushan B, Bhardwaj M.
Histochemical pattern of gastrocnemius muscle in fluoride toxicity syndrome.
Asian Pacific J. Tropical Med., 3(2):136-140.
ISSN 1995-7645
86. ***2010** Shashi A, Sharma N, Bhardwaj M.
Pathological evaluation of pancreatic exocrine glands in experimental fluorosis.
Asian Pacific J. Tropical Med., 3(1):36-40.
ISSN 1995-7645

87. **2010** Shashi A, Neeraj S, Bhardwaj M.
Histochemical assessment of mucosubstances in pancreas of fluoridated rats.
Asian J. Microbiol. Biotech. Environ. Sci., 12(4):849-853.
ISSN 0972-3005
88. **2011** Shashi A, Bhardwaj M.
Distribution of fluoride in groundwater and its correlation with physicochemical parameters.
Asian J. Water Environ. Pollution., 8(2):137-142.
ISSN 0972-9860
89. ***2011** Shashi A, Bhardwaj M.
Study on blood biochemical diagnostic indices for hepatic function biomarkers in Endemic skeletal fluorosis.
Biol. Trace Elem. Res., 143(2):803-814.
Abstract published in *Fluoride*, 2011, 44(2):115-116.
ISSN Print version 0163-4984; Electronic version 1559-0720 **Impact Factor: 1.523**
90. **2011** Shashi A, Sharma N.
The pathology of muscle lesions in experimental fluorosis.
Int. J. Sci. Innov. Discoveries, 1(2): 255-262.
ISSN 2249-5347
91. **2011** Shashi A, Sharma N.
Cytohistologic characterization of papillary carcinoma of thyroid: A prospective study.
Int. J. Sci. Innov. Discoveries, 1(3): 344-352.
ISSN 2249-5347
92. **2011** Shashi A, Bhardwaj M.
Prevalence of dental fluorosis in endemic fluoride areas of Punjab, India.
Biosci. Biotech. Res. Commun., 4(2):155-163
ISSN 2249-5347.

93. **2011** Shashi A, Ghodda M, Sonam J.
Clinical pathological evaluation of leukocytes in patients of fluorosis from Bathinda, Punjab.
Biosci. Biotech. Res. Commun. 4(2): 134-138.
ISSN 0974-6455
94. **2012** Shashi A, Meenakshi G.
Scanning electron microscopic study of human red blood cell abnormalities in fluoride toxicity.
Int. J. Sci. Innov. Discoveries, 2 (2): 274-289.
ISSN 2249-5347
95. **2012** Shashi A, Sharma N.
Lipid profile abnormalities in hypothyroidism.
Int. J. Sci. Nature. 3(2): 356-360.
ISSN 1539-7262
96. ***2011** Shashi A, Sharma N.
Clinical study of sodium- potassium ATPase activity in patients with thyroid dysfunction.
J. Endocrinol. (Accepted)
ISSN 1479-6805 **Impact Factor: 3.09**
97. ***2011** Shashi A, Sharma N.
Goitrous thyroiditis: Clinical and pathological implications.
J. Clin. Pathol (Accepted)
ISSN 1472-4146 **Impact Factor: 2.47**
98. ***2011** Shashi A , Sharma N.
Cerebral neurodegeneration in experimental fluorosis.
Asian Pacific J. Tropical Med. (Accepted)
ISSN 0019-5189
99. **2013** Shashi A., Devi U.
Clinical study of insulin resistance in diabetic patients with subclinical and clinical hypothyroidism
Aust. J. Basic Appl.Sci. (In Press)
100. **2013** Shashi A, Devi U.
Association Between Hypothyroidism and Metabolic Syndrome in type 2 Diabetic Patients: A Cross Sectional Study
Int. J. Basic Appl. Med. Sci. (In Press)

101. 2013 Shashi A., Singla S.
Parathyroid function in osteofluorosis
World J. Med.Sci. (In Press)
102. 2013 Shashi A , Singla S.
Thyroid peroxidase activity as toxicity target for fluoride in patients with thyroid dysfunction
Curr. Res. Microbiol. Biotech. (In Press)
103. 2013 Shashi A , Singla S.
Colloid Goiter in Endemic Fluorosis - A Case Report
World J. Med. Sci. (In Press)
104. 2013 Shashi A , Singla S.
Syndrom of Low Tiiodothyronine in Chronic Fluorosis
Int. J. Basic Appl. Med. Sci. (In Press)

22. List of Workshops and Training Programmes participated

1. **Winter School on lasers in chemical and biological sciences.** Indian Institute of Technology, New Delhi. December 15-23, 1987.
2. **Workshop on lasers in chemical and biological sciences** Indian Institute of Technology, New Delhi. December 15-23, 1988.
3. **Computer Concepts and Basic Programming.** Punjabi University, Patiala. 3.1.1989 - 23.1.1989.
4. **6th National Training Programme in Electron Microscopy: Biological Applications,** Regional Electron Microscope Faculty (DST), Department of Anatomy, All India Institute of Medical Sciences, New Delhi. 28.11.1989 - 18.12.1989.
5. **Training Course on Radioimmunoassay Techniques and their clinical Applications** conducted by the Isotope Division, Bhabha Atomic Research Centre, Bombay. September 02-25, 1992.
6. **Reorientation course on Fundamentals of Genetic Engineering.** The Centre of Biotechnology, Panjab University, Chandigarh. March 30 - April.7, 1993.
7. **Winter School on STM for imaging Biological Macromolecules.** Central Scientific Instruments Organisation Chandigarh and Centre for Cellular and Molecular Biology, Hyderabad. Feb. 6-10, 1995.
8. **Workshop on Techniques of molecular biology and Biotechnology in Drug Research and 28th. Conference of Indian Pharmacological society** organised by Department of Pharmaceutical Sciences, and Drug Research, Punjabi University, Patiala. November 23-26, 1995.
9. **National Workshop on Radiochemistry and Application of Radioisotopes,** Punjabi University Patiala. October 11-19, 1996.
10. **Orientation Courses** organised by Academic Staff college, Panjab University, Chandigarh. 19.3.1997 - 15.4.1997.

11. **National Workshop on Carrier Detection and Antenatal diagnosis of Thalassemia**, Department of Genetics, Sanjay Gandhi Post-graduate Institute of Medical Sciences, Lucknow. November 13-15, 1997.
12. **Refresher Course in Environment**, Academic Staff College, Himachal Pradesh University, Shimla. 18.5.98 to 10.6.98.
13. **Workshop on Single Cell Gel Electrophoresis Assay**, The Centre for Genetic Disorders, Guru Nanak Dev University, Amritsar in association with Bhagwan Mahavir Medical Research Centre, Hyderabad and Cancer Institute (WCA) Chennai. Dec. 5, 1998.
14. **Patent Awareness Workshop**, Punjab State Council for Science and Technology, Chandigarh at Thapar Institute of Engineering and Technology, Patiala. 9.10.99.
15. **International Training and Research on Emerging Infectious Diseases, Asian Regional Workshop on Intracellular Pathogens**, Jawaharlal Nehru University, New Delhi. India Dec. 6-10, 1999.
16. **Research Interface workshop on Insect Directing with Emphasis on Microlepidoptera**. Ministry of Environment and Forest, Govt. of India, Punjabi University Patiala. March, 2004
17. **Training program on Application of Sophisticated Instruments for Chemical and Environmental Analysis**, Thapar Centre for Industrial Research & Development, Patiala. September 23-25, 2005.
18. **International Workshop on Down Syndrome: Etiology and management** Guru Nanak Dev University, Amritsar. February 19, 2008.
19. Workshop on **Practical aspects on the importance of patents in research**, ISCA- Patiala Chapter, Punjabi University, Patiala, on Feb 12, 2013

23. CONFERENCES/ SEMINARS/ SYMPOSIA PARTICIPATED AND PAPER PRESENTED

20. **National Symposium on Recent Trends in Immunology and Biochemistry** Vikram University, Ujjain. March 24-26, 1988.
21. **XIIth International Congress for Tropical Medicine and Malaria**, Amsterdam, The Netherlands. September 18-25, 1988. **National Meeting of Young' Scientists and Research Fellows on Impact of Sciences on Human Welfare**, Punjabi University, Patiala. January 17- 19, 1989.
22. **National Symposium on Indian Studies of chrysomelidea**, Department of Zoology, Punjabi University, Patiala, March 8-9, 1989.
23. **UGC Seminar on Biotechnology: Present and Future Prospectives**, Department of Biotechnology, Punjabi University, Patiala March 14-15, 1989.
24. **All India Symposium on Biophysical Aspects of Cell Structure and Function**, Department of Biophysics, Panjab University, Chandigarh. November 6-9, 1989.
25. **International Symposium on Genetics, Health and Disease**, Guru Nanak Dev University, Amritsar. Feb. 6-9, 1990.
26. **2nd International Symposium on Genetics, Health and Disease**, Guru Nanak Dev University, Amritsar. 15-18, 1993.
27. **Fifth All India Conference on Cytology and Genetics**, Department of Zoology,

- Kurukshetra University, Kurukshetra. Sept. 26-28, 1994.
28. **Sixty Fourth Annual Session of The National Academy of Sciences, India**, Panjab University Chandigarh and Institute of Microbial Technology, Chandigarh. Sept.29-Oct.1,1994.
 29. **3rd International Symposium on Genetics, Health and Disease**, Guru Nanak Dev University, Amritsar. Dec. 1-4, 1995.
 30. **83rd Indian Science Congress**, Punjabi University, Patiala. Jan. 3-8, 1996.
 31. **First Punjab Science Congress**, Punjabi University, Patiala. April 28-30, 1997.
 32. **14th National Symposium on Recent Trends in Life Sciences**, Dept. of Zoology, Punjabi University, Patiala. October 23-25, 1997.
 33. **National Seminar on Recent Advances in Human Biology**, Department of Human Biology, Punjabi University, Patiala. Feb. 3-5, 1998.
 34. **15th Punjabi Vikas Conference**, Punjabi University, Patiala. March 28-30, 1998.
 35. **4th International Symposium on Genetics, Health and Disease**, Guru Nanak Dev University, Amritsar. Dec. 1-4, 1998.
 36. **16th International Punjabi Vikas Conference {Sciences}**, Punjabi University, Patiala. January 13-15, 1999
 37. **5th International Symposium on Vectors and Vector borne disease**, Punjabi University, Patiala. Feb. 16-18, 2000.
 38. **Joint Conference of Geriatric Society of India {mid term national conference} and IInd Annual Conference - North Zone Chapter of Association of Physicians of India**, Government Medical College, Patiala. 30th September - 1st October, 2000.
 39. **International conference on pathophysiology & drug therapy of cardiovascular disorders**, Punjabi University, Patiala January 22-26, 2001.
 40. **Refresher course in Human Biology, Life Sciences**, Punjabi University, Patiala Nov. 20 to Dec. 10, 2001.
 41. **5th Punjab Science Congress on Science & Technology**, Thapar Institute of Engineering & Technology, Patiala. Feb. 7-9, 2002.
 42. **International symposium on Forensic Science**, Punjabi University, Patiala, Feb. 14-17, 2002.
 43. **Refresher course in Human Biology (Life Sciences)**, Dept. of Human Biology, Punjabi University, Patiala, Nov. 8-29, 2002.
 44. **5th Punjab Science Congress** held at Thapar Institute of Engineering & Technology, Patiala from Feb. 7-9, 2002.
 45. **National Symposium on Recent Trends in Zoological Sciences**, partment of Zoology, Punjabi University, Patiala from March 12-13,2003.
 46. **National Symposium on Advances in Industrial Biotechnology**, Department of Biotechnology, Punjabi University, Patiala. February 23-24, 2004.
 47. **Med Biotech 2005. A National Symposium**, Department of Biotechnology, Punjabi University, Patiala. February 2-3, 2005.
 48. **8th Punjab Science Congress**, Punjabi University, Patiala. February 7-9, 2005.
 49. **7th International Symposium on Vectors and Vector borne diseases**, Department of Zoology, Punjabi University, Patiala. February 18-20, 2005.
 50. **21st International Punjabi Development Conference, (Section Science)**, Punjabi University,

- Patiala. March 10-12, 2005.
51. **National Congress of Entomology**, Punjabi University, Patiala. March 15-17, 2006.
 52. **National Symposium on Biological Anthropology- Recent Perspectives**, Department of Human Biology, Punjabi University, Patiala, March 24-25, 2006.
 53. **International Symposium on Current Issues in Zoology and environmental Sciences**, D.D.U. Gorakhpur University, Gorakhpur (U.P) November 11-13, 2006.
 54. **6th ANeT International Conference on Ants and Other Social Hymenoptera**. Punjabi University Patiala. 2007
 55. **3rd National Workshop on Reorientation In Life Sciences**, Dolphin (PG) College of Life Sciences, Chunni Kalan, January 20-21, 2007.
 56. **Conference on Recent Advances and Challenges in Reproductive Health Research**, ICMR, New Delhi, February 19-21, 2007.
 57. **Research Interface Workshop on Insect Diversity with Emphasis on Microlepidoptera**, Punjabi University, Patiala. March 24-25, 2007
 58. **National Seminar on Technical Advances in Environment Management and Applied Zoology** Kurukshetra University, Kurukshetra. January 23-25, 2008.
(Session Chaired)
 59. **11th Punjab Science Congress**, Thapar University, Patiala. February 7-9, 2008.
 60. **5th International Symposium on Genetics, Health and Disease**, Guru Nanak Dev University, Amritsar. February 17-19, 2008.
 61. **International Workshop on Down Syndrome: Etiology & Management** Guru Nanak Dev University, Amritsar, February 19, 2008.
 62. **National Symposium on Biodiversity Cell and Molecular Biology**, Panjab University, Chandigarh. February 26-27, 2008.
 63. **2nd Chandigarh Science Congress**, Panjab University, Chandigarh. March 14-15, 2008.
 64. **22nd National Symposium of Indian Society of Life Sciences on Recent Advances in Zoological Sciences: Application to Agriculture Environment and Human Health**, Punjab Agriculture University, Ludhiana, November 6th -7th, 2008. **(Session Chaired)**
 65. **78th annual session of National Academy of Sciences and Symposium on Novel Approach for Biomedical Research**, Panjab University, Chandigarh, November 21-23, 2008
 66. **Ist Annual Conference on Recent Advances in Chemical and Environmental Sciences**, M.M Modi College, Patiala, January 17-18, 2009.
 67. **12th Punjab Science Congress**, Punjab Agriculture University, Ludhiana, February 7-9, 2009.
 68. **International Conference on Entomology**, Punjabi University, Patiala, February 20-22, 2009.
 69. **National Conference on Innovations in Drug Discovery and Research**. Department of Pharmaceutical Sciences and Drug Research Punjabi University, Patiala, March 3-5,

- 2009.
70. **Biotech-2009, Present and future prospective.** Department of Biotechnology, Punjabi University, Patiala, March 19-20, 2009.
 71. **National Symposium on Recent Advances in Biological Sciences.** DAV College, Chandigarh, Nov.6-7, 2009
 72. **TOXOCON-5 (5th Annual National Conference of the Indian Society of Toxicology),** Government Medical College, Chandigarh, 7-8, 2009.
 73. **2nd Annual Conference on Recent Advances in Chemical and Environmental Sciences,** M.M Modi College, Patiala, January 22-23, 2010.
 74. **National conference on Advances in Biological Sciences** Panjab University, Chandigarh, March 29-30, 2010.
 75. **National Conference on Environmental Degradation and its Impact on Mankind,** Punjabi University, Patiala, 19-20 November, 2010.
 76. **XXIX International Conference of the International Society of Fluoride Research** University of Rajasthan, Jaipur, December 2-5, 2010. **(Session Chaired)**
 77. **80th Annual Session and National Symposium on “Climate Change- Research, Awareness and Capacity Building,** Jaipur National University, Jaipur, December 2-4, 2010.
 78. **3rd National Conference on Recent Advances in Chemical and Environmental Sciences,** MM Modi College, Patiala. Feb. 28, March 01, 2011.
 79. **National conference on Impact of Science and Technology on Societal Development.** Shaheed Udham Singh Group of Institutions, Tangori. Mohali, Punjab, November 3-5, 2011.
 80. **World Congress for Man and Nature “Global Climate Change and Biodiversity Conservation”,** department of Zoology and Environmental Science, Gurukula Kangri Vishwavidyalaya, Haridwar, Uttarakhand, November 11-13, 2011. **(Session Chaired)**
 81. **Redefining Approaches to Address Current Issues for Sustainable Biodiversity,** department of Zoology, Panjab University, Chandigarh, December 2-3, 2011.
 82. **International Conference on Entomology,** department of Zoology and Environmental Sciences, Punjabi University, Patiala, February 19-21, 2012.
 83. **National Conference on Man and Environment,** department of Zoology and Environmental Sciences, Punjabi University, Patiala, Oct 15-16, 2012.

Date: 23/04/2013

Prof. (Dr.) Shashi Aggarwal