

Principal's Profile

Raja Harpal Singh Mahavidyalaya Singramau, Jaunpur

1.Name: Dr. Jai Prakash Narain Singh

2.Father's Name: Shri Jagat Narain Singh

3.Date of Birth: 1st January,1956

4.Nationality: Indian

5. Academic Qualifications: M.Sc., Ph.D.

6.Teaching Experience: 37 Years

7. Research Experience: 34 Years

8. Field of Research Specialization: Snake Skin and Toxicants induced changes in Fish

Skin,gills and Accessory Respiratory Organs

9. Ph.D.Guided: 9

10. Research Projects:

1. "Effect of pollutants on skin of some food fishes" sponsord by UGC (financial assistance of Rs 100000/(1986).

2." Effect of herbicide 2,4-dichlorophenoxy acetic acid on bimodal respiratory organs of air breathing fishes- *Anabas testudineus* and *Lepidocephalichthys guntea*" sponsored by UGC (financial assistance of Rs 9,13,533)(2008-2011).

11.Number of Research Papers Published in International and National Journals: 63

Number of Research Papers Presented in National and International

Conferences/Seminars: 80

12. Book Edited:

'Recent Advances in Ecophysiology of Fishes'

ISBN: 81-86101-32-2.

13. Editorial Boards: Special Issue Editor of the Journal"Research in

Environment and Life Sciences" Volume05 , Number 04, November

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14.Conferences Organised:

1. National Conference on 'Recent Advances in Ecophysiology of Fishes' February 15-16, 2009 sponsored by UGC (Rs.1,50,000/),DST(Rs 75,000/) Delhi and CST(Rs. 25,000/) Lucknow.
- 2 . National Conference on ' Impact of Global warming and climate change on diversity: The challenge of conservation of flora and fauna' February,21- 22,2012 sponsored by UGC Rs.1,50,000/).

15.Member of Academic Bodies:

- 1.Member of Board of Studies in Zoology, V.B.S.Purvanchal University Jaunpur
- 2.Member of Research Development Committee in Zoology, V.B.S.Purvanchal University Jaunpur

16.Administrative Experience:

- 1.NSS Programme Officer 3 Years
- 2.University Examination Centre Superintendent: 13 times
- 3.University Examination Observer: 12 times

List of publication of Dr Jai Prakash Narain Singh

1. Scale epidermis of *Natrix piscator* during its sloughing cycle- structural organization and protein histochemistry(Reptilia:Colubridae). Journal of Zoology, London(1987)213,548-568(With A.K.Mittal).
2. Hinge epidermis of *Natrix piscator* during its sloughing cycle- structural organization and protein histochemistry. Journal of Zoology,London(1987)213,685-695(With A.K.Mittal).
3. Succinic dehydrogenase activity in the epidermis of *Natrix piscator* during its sloughing cycle .Journal of Zoology, London(1988)215,395-404(With A.K.Mittal and S.K.Singh).
4. Enzymes in the epidermis of *Natrix piscator* during its sloughing cycle .Journal of Zoology, London(1989)217,107-116(With A.K.Mittal)
5. Carbohydrate histochemistry of the epidermis of *Natrix piscator* during its sloughing cycle .Journal of Zoology, London(1989)217,117-126(With A.K.Mittal).
6. Lipid histochemistry of the epidermis of *Natrix piscator* during its sloughing cycle .Journal of Zoology, London(1989)218,39-49(With A.K.Mittal).
7. Structure and histochemistry of the dermis of a chequered water snake *Natrix piscator* Journal of Zoology, London(1989)219,21-28(With A.K.Mittal).
8. Behavioral and colour changes in relation to different stages of sloughing cycle in chequered water snake *Natrix piscator*. Journal of Purvanchal Academy of Sciences(1996) 5,146-152.

9. Observation on the occurrence of chloride cells in gill arch region of climbing perch, *Anabas testudiens* exposed to carpet dye chrome black T. In: Proceedings of XIV Annual Conference of Purvanchal Academy of Sciences(2005) 165-169 (With Nidhi Mishra).
10. Observation on the function of acidophil cells in gill arch region of climbing perch, *Anabas testudiens* exposed to carpet dye chrome black T. In: Proceedings of XI Annual Conference of Purvanchal Academy of Sciences(2005) 170-174 (With Nidhi Mishra and V.B.Singh).
11. Histochemical studies of glycoproteins in the secretory cells in the epidermis of a catfish *Ompok bimaculatus*. Journal of Experimental Zoology, India(2006) 9(2)437-448 (With Anil Kumar).
12. Effect of a carpet dye chrome black T on mucous cells in the epidermis of a catfish *Mystus vittatus*. J. EXP. Zool. India(2006) 9(2)477-486 (With A.K. Maurya).
13. The structure and function of epidermal taste buds in a carnivorous fish, *Glossogobius aureus*. J. EXP. Zool. India(2006) 9(2)493-498 (With Sunil Kumar Singh).
14. Impact of malachite green on chloride cells in the gills of climbing perch, *Anabas testudineus*. Biochemical and cellular Archives(2006) 6(2) 303-307 (With Ashutosh Kumar Singh and Anand Prakash Singh)
15. Fish Gills :Indicators of Water pollution. Biochemical and cellular Archives(2007) 7(1) 41-44 (With A.P. Singh, A.K. Srivastava and A.K. Singh).
16. Impact of chlordecone on branchial mucous cells of *Channa striatus* Biochemical and cellular Archives(2007) 7(1) 69-72 (With Dayashankar and Archana Singh).
17. Histological and histochemical study of sacciform cells in the epidermis of *Chanda ranga*. Biochemical and cellular Archives(2007) 7(1) 79-84 (With Anil Kumar).
18. Protein and carbohydrate histochemistry of the epidermis of migratory fish, *Sciaenops ocellatus* (Ham.) (Perciformes: Sciaenidae) Biochemical and cellular Archives(2007) 7(1) 91-94 (With S.K. Singh and Archana Singh).
19. Acute toxicity of malachite green to sensory organs of a catfish *Mystus vittatus*. J. EXP. Zool. India(2007) 10(1) 21-25 (With A.K. Singh and A.K. Maurya).

20. Effect of chlordecone on the acidophil cells of gill arch region a live fish, *Channa striatus*. J.EXP. Z ool. India(2007) 10(1) 37-41(With Dayashankar, Archana Singh and Anil Kumar) .
21. Cadmium induced changes on the secretion of branchial mucous cells of Peppered loach *Lepidocephalichthys guntea*. J.EXP. Z ool. India(2007) 10(1) 65-68(With A.P.Singh and A.K.singh) .
22. Histology and histochemistry of club cells in the epidermis of fresh water fish *Clupisoma garua*. J.EXP. Z ool. India(2007) 10(1) 83-87(With S.K.Singh, Anil Kumar and A.K.Singh).
23. Chrome b lack T induced hyperpigmentation in the skin of an air breathing fish *Colisa chuna*. J.EXP. Z ool. India(2007) 10(1) 99-102(With A.K.Maurya and A.K.Singh).
24. Keratinization in the epidermis of gliding fish *Xenentodon cancila*. J.EXP. Z ool. India(2007) 10(1) 109-112(With Anil Kumar , S.K.Singh and Archana Singh).
25. Function and occurrence of different mucous cell types found in the epidermis of larvicidal fish *Puntius sophore*. Biochem.Cell.Arch.(2007)7(2) 177-183 (With Anil Kumar).
26. Response of 2,4-dichlorophenoxy acetic acid (2,4-D) on acidophil cells in gills of a catfish, *Heteropneustes fossilis*. Biochem.Cell.Arch.(2007)7(2) 211-216 (With Anurag Singh, Anil Kumar and H.S.Singh).
27. Toxic impact of heavy metal cadmium on taste buds in gills of a catfish, *Ompok bimaculatus* Biochem.Cell.Arch.(2007)7(2) 231-236 (With Anand Kumar Singh).
28. Chromium induced histopathological changes in the gills of air breathing fish *Colisa chuna* Biochem.Cell.Arch.(2008)8(2) 231-235(With D.P.Srivastava and A.K.Srivastava).
29. Fishes: Bioindicator of Aquatic degradation. In: Proceeding of National Conference on 'Recent Advances in Ecophysiology of Fishes'. 209 pp 4-12.
30. Impact of insecticide chlordecone on the accessory respiratory organ of *Channa striatus*. In: Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp28-35(With Dayashankar).
31. Impact of herbicide 2,4-dichlorophenoxyacetic acid on gill arch epithelium of an air breathing fish, *Anabas testudineus*. In: Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp50-59(With Ram Yash Yadava And Nidhi Mishra).
32. Effect of malachite green on mucous cells in the epidermis of a climbing perch, *Anabas testudineus*. In : Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp66-73(With A.K.Singh and Amit Srivastava).
33. Malachite green induced histopathological changes in the sacciform cells of the epidermis of climbing perch *Anabas testudineus*. In : Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp79-85(With A.K.Singh).

34. Lips and associated structures in *Aspidoparia morar*. In : Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp92-99(With ArchanaSingh and R.C.Gupta).
35. 2,4-D induced histopathological changes in the gastrorespiratory tract of an air breathing peppered loach, *Lepidocephalichthys guntea*. In: Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp 111-116(With Ram Yash Yadav).
36. Lips of gold fish *Carassius auratus*: A histochemical investigation. In: Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp 121-126(With Sateesh Chandra Dubey).
37. A histological and histochemical survey on mucous cells in the epidermis of the fish *Chanda ranga*. In: Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp 134-139(With Anil Kumar).
38. Toxic effect of cadmium chloride on the epidermal club cells of *Ompok bimaculatus*. In: Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp 143-149(With A.P.Singh ,D.Kumar and A.K.Srivastava).
39. A brief survey on histology and histochemistry of the epidermis of Anchovy *Setipinna phasa*. In: Proceeding of National Conference on 'Recent advances in Ecophysiology of Fishes'(2009)pp 153-161(With Sunil Kumar).
40. Effect of the herbicide 2,4-D on the gills of climbing perch, *Anabas testudineus*. J.Exp.Zool.India (2010) 13(1) 7-13(With Ram Yash Yadav).
41. Structural modifications in lips and associated structures of Indian major carp, *Labeo calbasu*. J.Exp.Zool.India (2011) 14(1) 117-124(With Sateesh Chandra Dubey).
42. Lips and associated structures of a fresh water fish, *Poecilia reticulata* J.Exp.Zool.India (2011) 14(1) 295-300(With Sateesh Chandra Dubey).
43. Effect of lethal exposure of malachite green on skin epidermis of gold fish, *Carassius auratus*. J.Exp.Zool.India (2011) 14(1) 273-280(With Ram Yash Yadava).
44. Histopathological alterations in labyrinthine organ of an air breathing climbing perch, *Anabas testudineus* exposed to 2,4-dichlorophenoxy acetic acid. J.Exp.Zool.India (2011) 14(1) 69-76(With Ram Yash Yadava).
45. Effect of the herbicide 2,4-dichlorophenoxy acetic acid(2,4-D) on gills of an intestinal breather peppered loach, *Lepidocephalichthys guntea* J.Exp.Zool.India (2011) 14(1) 233-240(With Ram Yash Yadava).
46. Effect of 2,4-dichlorophenoxy acetic acid(2,4-D) on ovary of a fresh water catfish *Heteropneustes fossilis* J.Exp.Zool.India (2011) 14(1) 315-318(With Anurag Singh and H.S.Singh).
47. Effect of sub-lethal concentration of herbicide 2,4-dichlorophenoxy acetic acid(2,4-D) on enzymes in the gills of climbing perch, *Anabas testudineus*. Biochem. Cell. Arch(2011) 11(1) 147-152(With Ram Yash Yadav).

48. Structural modifications in lips and associated structures of a migratory fish *Sciaena coitor*: A histochemical investigation Biochem. Cell. Arch(2011) 11(1) 171-176(With Sateesh Chandra Dubey).
49. Effect of 2,4-dichlorophenoxy acetic acid(2,4-D)on liver of a fresh water catfish, *Heteropneustes fossilis*. Biochem. Cell. Arch(2011) 11(1) 187-190(With Anurag Singh and H.S.Singh).
50. Effect of malachite green on gill arch and gill rakers of a fresh water gold fish *Carassius auratus*. Biochem. Cell. Arch(2011) 11(1) 203-208(With Ram Yash Yadav).
51. Effect of herbicide 2,4-D on lipid activities in gill epithelium of an air breathing fish *Anabas testudineus* Biochem. Cell. Arch(2011) 11(1) 233-236(With Ram Yash Yadav).
52. Effect of herbicide 2,4-Dichlorophenoxy acetic acid on mucous gland cells in the gills of air breathing fish- *Anabas testudineus*. J.Exp. Zool. India (2011) 14(2) 569-573 (With Manvendra Singh Sengar)
53. 2,4-Dichlorophenoxy acetic acid (2,4-D) induced histopathological changes in labyrinthine organ of air breathing fish, *Anabas testudineus* J.Exp. Zool. India (2012) 15(1) 113-119 (With Manvendra Singh Sengar).
54. Operculum of Climbing perch *Anabas testudineus*: A histochemical investigation J.Exp. Zool. India (2012) 15(1) 123-127 (With Amit Srivastava).
55. Effect of trace element Zinc on the secretory cells in the operculum of a climbing perch *Anabas testudineus*. J.Exp. Zool. India (2012) 15(1) 201-207 (With Amit Srivastava).
56. Impact of chromium on gill arch and gill rakers of a fresh water fish *Puntius sophore*. Biochem. Cell. Arch.(2012) 12(1) 5-163. (With D.P.Srivastava and A.K.Srivastava).
57. Effect of Zinc on the epidermal and inner epithelial lining of the operculum in *Lepidocephalichthys guntea*. . Cell. Arch (2010) 10 (Suppl. 1) 39-51(With Amit Srivastava).
58. Global warming and climate change: The greatest threat to conservation of biodiversity. Res. Environ. Life Sci. (2012) 5(4) 162-167.
59. Adaptive changes in the gills of *Puntius sophore* exposed to heavy metal chromium. Res. Environ. Life Sci. (2012) 5(4) 184-190.(With D.P.Srivastava).
60. Structural organization of the epithelia of lips and associated structures of fish *Pterophylum sclarae*: a histochemical investigation Res. Environ. Life Sci. (2012) 5(4) 195-200.(With S.C.Dubey and Archana Singh).
61. Histopathological responses of the gill of gold fish *Carassius auratus* to the tryarylmethane dye malachite green. Res. Environ. Life Sci. (2012) 5(4) 203-210 (With Ram Yash Yadava and Ashutosh Kumar).
62. Ecophysiological adaptations in epidermis of fishes inhabiting different ecological niches. Res. Environ. Life Sci. (2012) 5(4) 251-254 (With Suneel Kumar)

63. 2,4-Dichlorophenoxy acetic acid (2,4-D) induced histopathological changes in testes of a fresh water catfish, *Heteropneustes fossilis* (bloch) Res. Environ. Life Sci. (2012) 5(4) 255-257 (With Anurag Singh and H.S. Singh).