CV AND PUBLICATIONS OF PROF. AYESHA

Dr. Ayesha Ali completed her Masters in Zoology from Bhopal University, Bhopal having a throughout first class academic career and her PhD in Zoology (Biochemistry) as a prestigious National Fellow of CSIR Government of India New Delhi in 1982.

Dr. Ayesha has research and teaching experience of 40 years with about 80 full papers and 35 abstracts totaling 95 publications in national & international journals of high impact factor, like the Environmental Technology, Taylor & Francis, British Journal of Pharmacology, John Wiley, UK, Environmental Conservation, Cambridge, UK, Comparative Physiology Biochemistry, Elsevier, UK, Journal of Receptors & Cell Transduction, Pharmacologia, Pergamon, USA, Acta Biol. Hungarica, Pharmaceutical Biology, Journal of Animal Genetics & Research, FAO Rome, Zellforsch. Mikros Anat. Indian Journal of Radio & Space Physics. CSIR New Delhi Indian Journal of Experimental Biology, Indian Journal of Animal Sciences, J. Indian Society ofPedodontics and Preventive Dentistry. Dentistry On Line, Iranian Journal of Animal Sciences, Iranian Journal of Toxicology, Current Science, etc.

She has also published articles of general interest in Science Reporter, Environmental Conservation (Cambridge) and World Livestock Journal and has also written several chapters of National& Internationally published books. Dr Ayesha has successfully guided 15 PhD students in different areas of Zoology, Bioscience and Biotechnology, Two students are working under her presently. She has visited several countries many times like KSA, the Middle East, on academic assignments. She has successfully completed 4 major research projects in Biology & Medicine as principal investigator.

Dr Ayesha Ali PhD
Professor of Biochemistry Postgraduate Zoology Department
Saifia Science College, Bhopal,462001 India
Orcid ID: http://orcid.org//0000-0002-7924-3106

Complete List of Full Research Papers Published In Peer Reviewed International Journals of High Impact Factor by Dr. Ayesha S. Ali, Saifia College Bhopal

1. Khan S, Ali SA and **Ali AS** (2022). On the presence, isolation and characterization of different fungal strains from municipal landfill site dumped with plastics. **International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS).** 11(2): 607-626. https://doi.org/10.31032/IJBPAS/2022/11.2.5875.

2. Khan S, Ali SA and **Ali AS** (2021). Biodegradation of low-density polyethylene (LDPE) by mesophilic fungus *'Penicillium citrinum'* isolated from soils of plastic waste dump yard, Bhopal, India. **Environmental Technology. Taylor & Francis** DOI: 10.1080/09593330.2022.2027025

3. Ali SA, **Ali AS** and Khan S. (2020). Nano particles in environmental remediation with special reference to polyethylene biodegradation: A review. **Bulletin of environment, pharmacology and life sciences**. 9(5): 142-152.

4. Khan S, **Ali AS** and Ali SA. (2020). Green nanotechnology: A boon in silver nanoparticle synthesis certain aspects of silver nanoparticles biomedical applications and an outline of its toxicological impacts- a mini review. **European journal of pharmaceutical and medical research.** 7(10):261-273

5. Parveen N, **Ali AS**, Ali SA. (2019). On the intricacies of facial hyperpigmentation and the use of herbal ingredients as a boon for its treatment: Cosmeceutical significance, current challenges and future perspectives. **In: Depigmentation, Intech Open** Publishers. https://www.intechopen.com/books/depigmentation/

6. Ali SA, Parveen N and **Ali AS.** (2019). Promoting melanocyte regeneration using different plants and their constituents. **In: Herbal Medicines Back to Future: Cancer therapy (Bentham Science Publishers).** 3: 247-276. DOI: 10.2174/9789811411205119030010.

7. Zaidi KU, Ali SA, **Ali AS**, Naaz I. (2019). Natural Tyrosinase Inhibitors: Role of Herbals in the Treatment of Hyperpigmentary Disorders. **Mini Reviews in Medicinal Chemistry**. 19(10): 796-808. DOI : 10.2174/1389557519666190116101039

8. Parveen N, **Ali AS**, Ali SA. (2019).Commercial zebra fish farming: a new concept of genetic manipulation for ornamental fish trade. **Everyman's Science**.4: 232-236.

9. Parveen N, Ali SA, **Ali AS** (2018). Insights into the explication of tyrosinase inhibitors with reference to computational studies. **Letters in Drug Design and Discovery**. 16(11):1182-1193. DOI: 10.2174/1570180815666180803111021

10. Ali SA**,** Parveen N, **Ali AS**. (2018). Links between the Prophet Muhammad (PBUH) recommended foods and disease management: A review in the light of modern super foods. **International Journal of Health Sciences, Pub Med** 12(2): 61–69.

11. Zaidi KU, Ali SA, **Ali AS**. (2018).Purified Mushroom Tyrosinase Induced Melanogenic Protein Expression in B16F10 Melanocytes: A Quantitative Densitometric Analysis.**The Open Medicinal Chemistry Journal**. 12,36-47.

12. Parveen N, Zaidi KU, Ali SA and **Ali AS**. (2017). Microarray as high throughput tool for tyrosinase gene expression analysis. **MOJ Proteomics & Bioinformatics** 6(2): 1-4

13. Zaidi KU,Ali SA, **Ali AS**. (2017). Pluripotent Stem Cell Technology: A Promising Remedy for Hypo pigmentation Disorders. **Journal of Stem Cell Research & Therapeutics** 2 (5), 1-4

14. Ali SA, Naaz I, Zaidi KU, **Ali AS**. (2017). Recent updates on melanocyte biology and the use of promising bioactive compounds for the treatment of hypo pigmentary disorders: A Review. **Mini Reviews in Medicinal Chemistry**, 17(9)-785-798.

15. Zaidi KU, Ali SA and **Ali AS**, Thawani V. (2017). Natural Melanogenesis Stimulator a Potential Tool for the Treatment of Hypopigmentation Disease. **International Journal of Molecular Biology** 2(1): 1-5.

16. Zaidi KU,Ali SA and **Ali AS.**(2016). Melanogenic effect of purified mushroom tyrosinase on B16F10 melanocytes: A phase contrast and immunofluorescence microscopic study **Journal of Microscopy and Ultrastructure**. 5(2): 82-89

17. Zaidi KU, Ali SA and **Ali AS**. (2016). Effect of purified mushroom tyrosinase on melanin content and melanogenic protein expression. **Biotechnology Research International**. Volume 2016, Article ID 9706214, 8 pages.

18. Parveen N, **Ali AS** and Ali SA. (2016). Respirocytes: an artificial red blood cells and their role in blood transfusion. **International Journal of Advanced Science, Humanities and Engineering**. 2(1): 15-20.

19. Ali SA, Choudhary RK, Naaz I and **Ali AS**. (2016). Understanding the challenges of melanogenesis, key role of bioactive compounds in the treatment of hyperpigmentary disorders. **Journal of Pigmentary Disorders** Vol 11 No 2 34-43

20. Ali SA, Choudhary RK, Naaz I, Khan N, Sajid M, Galgut J, Miraj M, Jakkala L and **Ali AS**. (2015). Comparative characterization and scientific validation of certain plant extracts from their biomedical importance. **Biosci. Biotech. Res. Comm**, 8(1): 57-64.

21. Farrukh S and **Ali AS.** (2015). Toxicological Effects of Organophosphate Pesticide on Ceolomocytes Viability of Earthworm *E. foetida* Using NRRA.**Iranian Journal of Toxicology**, 9(28), Spring 2015.

22. Kackar V, **Ali AS**, PrasadS, Mukesh M, Tantia MS, Dahiya SS. (2014) Evaluation of Internal Control Genes for Gene Expression Studies in Skeletal Muscle of Riverine Buffaloes *(Bubalus bubalis).***Indian J of Animal Research Vol** 83(9)

23. Miraj M, Jakkala L, Khan N and **Ali AS**. (2014). On the toxicity of certain metals and its amelioration through herbal extracts. Bioscience Biotechnology Research Communications, Vol 7 (2): 99-107

24. **Ali AS**. (2014). Responses of the earthworm, *Eisenia foetida* coelomocytes to aluminum chloride using neutral red retention assay.Bioscience Biotechnology Research Communications,7 (1): 42-45.

25. Zaidi KU, Ali SA, **Ali AS** and Naaz I. (2014). Microbial tyrosinase: promising enzyme for pharmaceutical, food bio-processing and environmental industries. **Biochemical Research International**, Hindawi Publications. Vol. 2014 (Article ID-854687, 15 page).

26. Zaidi KU, **Ali AS** and Ali SA. (2014). Purification and Characterization of Melanogenic Enzyme Tyrosinase from Button Mushroom. **Enzyme Research**, Volume 2014 (2014), Article ID 120739, 6 pages

27. Choudhary A, **Ali AS**, and Ali SA. (2014). Adverse health effects of organophosphate pesticides among occupationally exposed farm sprayers: A case study of Bhopal, Madhya Pradesh, India. **Asian J Biomed Pharm Sci**., 04(35): 29-34

28. Choudhary A, **Ali AS** and Ali SA. (2014). Organophosphate pesticides exposure induces neurological disorders in the farm sprayers of Bhopal, Madhya Pradesh. **Biosci. Biotech. Res. Comm**. 7(1): 64-67.

29. Swami M, Choudhary RK, **Ali AS**. (2014). Effects of histamine and its new H1 and H2 receptor agonists on the isolated scale melanophores of teleost fish, *Rasboraelenga*. **Biosci. Biotech. Res. Comm**. 7(1):84-88.

30. Zaidi KU, Mani1 A, **Ali AS** and Ali SA. (2013). Evaluation of tyrosinase producing endophytic fungi from *Calotropisgigantea, Azadirachtaindica*,

*Ocimumtenuiflorum*and *Lantana camara*.**Annual Review & Research in Biology** 3(4): 389-396.

31. Salim S, **Ali AS** and Ali SA. (2013). 5-HT receptors subtypes as key regulators in causing pigment dispersion within the melanophores of *O. mossambicus*. **Comp. Biochem. Physiology**. *Elsevier* (Part B) 164(2): 117-23.
32. **Ali AS** and Naaz I. (2013). Earthworm biomarkers: the new tools of environmental impact assessment. **Biosci. Biotech. Res. Comm**. 6(2): 163-169.
33. **Ali AS** et al. (2013). Microsatellite-based genetic evaluation of Ghumusar goats of Orrisa. **Animal Genetic Resources**, 00: 1-6. FAO, United Nations.
34. Parveen A &**Ali AS**. (2013). Cascading interplay of abiotic and biotic factors in population dynamics of dipterans in a large tropical man-made lake. **Biosci. Biotech. Res. Comm.** 6(1): 76-81.
35. Choudhary A, **Ali AS** and Ali SA. (2013). Short and long term exposure dependent assessment of organophosphate pesticides in farm sprayers of Bhopal. International Journal of Toxicology.
36. Choudhary A, **Ali AS** and Ali SA. (2013). Assessment of certain biochemical responses of organophosphate pesticide sprayers of Bhopal. Interdisciplinary Toxicology.
37. **Ali AS***et al.* (2012). Phenotypic, biometric and genetic characterization of Bundelkhandi goats.**Indian Journal of Animal Sciences**82(11): 1442-1445
38. **Ali AS***et al*. (2012). Genetic diversity and bottleneck analysis of KonkanKanyal goats.**Animal Genetic Resources**, 50: 43-48. FAO, United Nations.
39. Ali SA, Salim S, Sahni T, Peter J and **Ali AS**. (2012). Serotonin receptors as novel targets for optimizing skin pigmentary responses in Indian bullfrog *Hoplobatrachustigerinus.* **British Journal of Pharmacology**, U.K. The British Pharmacological Society165(5): 1515–1525 John Wiley UK
40. Salim S, Ali SA and **Ali AS**. (2012a).The Peripheral bearing of Serotonergic receptors and their cross interaction: a key mien in Vertebrate Skin Pigmentation. IISTE, United States.
41. Salim S, **Ali AS** and Ali SA. (2012b). Auto-regulatory role of novel histamine H_3 Like receptors (H_3R) and subsequent modulation of adrenergic induced aggregation in the pigmentary responses of *Oreochromismossambicus.* Pharmacologia UK Science Reuters 3 (8): 325-335.
42. Salim S, **Ali AS** and Ali SA.(2012c).On the role of Histaminergic receptors as regulators of pigmentary responses in *O. mossambicus*melanophores. **Journ. Recep. Sign. Transd**. 32(6): 314-20. USA.

43. **Ali AS**and Mitra J. (2012). Role of enzyme biomarkers in xenobiotic assays : In The Ugly Face of Pollution, **Discovery Publishers** New Delhi Pp 123 -134

44. Ali SA., T. Sultan, Galgut JM, Sharma R., Meitei KV and **Ali AS**. (2011). In vitro responses of fish melanophores to lyophilized extracts of *Psoralea corylifolia* seed sand pure psoralen Accepted in Pharmaceutical Biology. USA (doi:10.3109/ 10799893.2010.508164)

45. Salim S, **Ali AS** and Ali SA. (2011). Insights into the physio-modulatory role of histaminergic receptors in vertebrate skin pigmentation: **Journal of Receptors and Signal transduction,** USA. 31(2): 121-31.

46. Peter J, Meitei KV, **Ali AS** and Ali SA. (2011).Effects of histaminergic compounds on the melanophore responses of the wall lizard, H*emidactylus flaviviridis.* **Current Science**101(2): 226-229.

47. Ali SA, **Ali AS**& Peter J. (2011). Effect of Ultraviolet-BRadiation on the Skin Melanophores of Indian bullfrog *Hoplobatrachus tigerinus*. BioScience. (USA), 2(4): 158-173

48. **Ali AS**, Mitra J and Ali SA. (2011). Biochemical markers for toxicological assessment A review Biochemical markers for toxicological assessment: A review (Delhi Publishing Company): 117-131.

49. Farrukh S and **Ali AS**. (2011). Effects of diclorovos organophosphate on growth, reproduction and avoidance behavior of earthworm *Eisenia foetida.* Iranian Journal of Toxicology, 5(14):495-501.

50. Yadav S, **Ali AS**& Ali SA. (2009). Vitamin A ameliorates toxic effects of cadmium in domestic fowl. Indian Journal of Poultry Science .44(3): 402-404

51. **Ali AS**, Khan I and Ali SA. (2009). Bioremediation of contaminated soils using earthworms. In Hand book of Agriculture Biotechnology, Ed DK Maheshwari

52. Parveen A, **Ali AS** and Ali SA. (2009). Role of shore line macrophytes in management and conservation of a tropical lake Biosc. Biotech. Res. Comm. 2 (2): 195-199

53. Pandey, **Ali AS**, Sajid M and Ali SA. (2008). Certain Biochemical studies on the Leaves of Medicinal Plant, *Eclipta alba.* Biosci Biotech Research Comm. 1 (1):59-63.

54. Ali SA, Malik S, Meitei KV, Sultan T, Sajid M, **Ali AS** and Ovais M. (2008) Pharmacological effects of Lead Nitrate, Adrenaline and Potassium on isolated fish melanophores. Biosc. Biotech. Res. Comm. 1(1): 64-69.

55. Ali SA, Saxena M, Meitei KV, Sajid M and **Ali AS**. (2008) Biochemical studies of crude extracts of roots and leaves of *Withania somnifera*. Biosci Biotech Res Comm, 1(2):168-172.

56. **Ali AS**, Khan I and Ali SA. (2007) Toxicological Monitoring using Earthworms. In: Toxicology & Science of Poisons, Aavishkar Publishers, 167-186.

57. Khan I, **Ali AS** and Ali SA. (2007) Biomass and behavioral responses of earthworm *L. terrestris* to Copper Chloride. Iranian Journal of Toxicology 2 :64-71

58. Ahmed MS, Ali SA, **Ali AS** and Chaubey KK. (2006). Epidemiological and etiological study of oral sub mucous fibrosis among gutkha chewers of Patna. J. Indian Society of Pedodontics and Preventive Dentistry. 24(2): 84-89.

59. Ali SA, Khan I and **Ali AS.**(2006) Friendly Earthworms. Science Reporter, CSIR New Delhi 43(1): 28-30.

60. Ahmed MS, Ali SA, **Ali AS** and Chaubey KK. (2006). Comparative severity of oral sub mucous Fibrosis in gutkha and other areca nut product Chewers Priory Dentistry On Line 1-11.

61. Ahmad MS, Ali SA and **Ali AS**. (2005). Site distribution of oral carcinoma reported cases in some tobacco- lime mixture Biosci. Biotech. Res. Asia. 3(2):329-334.

62. Ahmed MS, Ali SA and **Ali AS**. (2004) Understanding the pathological nature of oral plaque and its role in dental carries. Biosci. Biotech. Res. Asia. 02 (1) :25-32.

63. Ali SA, **Ali AS**, Ali SN and Jain R. (2004). Effects of ultraviolet-C radiation on isolated fish scale melanophores. Indian Journal of Radio & Space Physics. CSIR New Delhi.33:58-60.

64. Ali SA, Peter J, **Ali AS**. (1998). Histamine receptors in the skin melanophores of Indian Bull frog, *Rana tigerina*. Comp. Biochem. Physiol A, Elsevier: 121. pp. 229-234.

65. **Ali AS** et al. (1997). Responses of fish melanophores to organophosphorous pesticides, Poll Res, Vol 4, Issue 1, 35-39.

66. **Ali AS** et al. (1997). Responses of fish melanophores to organophosphorous pesticides, 7th ESPCR Meeting, 9-11th Oct, Bordeux, France, P-70

67. Peter J, **Ali AS**, Ali SA. (1996). Effect of histaminergic drugs on the integumental melanophores of adult *Bufo melanosticus*. Ind J. Expt. Biol. 34:427-430.

68. Peter J, **Ali AS** and Ali SA. (1996). Ionic regulation of toad skin melanophores. Ind J. Zool Spectrum. 6(2): 47-50.

69. Peter J, Ali SA, **Ali AS**.(1996). Effect of certain phenolic compounds on the isolated scale melanophores of fish, *C. punctatus*. XVI Intl Pigment Cell Conf.Anahiem, California, In: Pigment Cell Res. Suppl. 5, 68, 71.

70. Ali SA, Peter J, **Ali AS**. (1996). The presence of histaminergic components in the melanophore responses of lower vertebrates. XVIthInt Pigment Cell Conf.Anahiem, California, In: Pigment Cell Res. Suppl. 5, 64, 171.

71. AliSA, Khan SA, **Ali AS**. (1995). Enforcement of environmental laws and regulations. Environmental Conservation (Cambridge University Press UK), 22(01): 77-78

72. Ali SA, Khare S, Khan MA, **Ali AS**. (1993) Prospects of culture of fresh water prawns in waste water ponds, In: Proceedings Nat. Sem. Aquatic Biology, University of Kerala, Thiruvanthapuram pp 27-32.

73. Ali SA,Peter J, **Ali AS.** (1993). Effects of histaminergic drugs on tail melanophores of tadpole, *Bufo melanosticus*, Ind. J. Exptl. Biol, Vol. 31. pp 440-442.

74. Ali SA, Peter J, **Ali AS**, RajuH. (1992).Histopathological evaluation of gills of carps cultured in domestic waste oxidation ponds. Ind J. Zool Spectrum, Vol 4, No. 2, pp. 23-27.

75. **Ali AS**, Ali SA, Belsare DK. (1986). Phenyl mercury acetate induced hypothyroid condition of pigeon, *Columba livia*. Ind. J. Applied Biol. l: 29-32.

76. **Ali AS**. (1985a). Effect of phenyl mercury acetate on the ovary of crop of pigeon, Columba livia. Indian J.of Zool. Vol.12, No-2, 40-44

77. **Ali AS**. (1985b). Histomorphology and seasonal changes in some endocrine glands of a typical pigeon. Zellforsch. Mikros Anat. Lepsia, Vol. 99 (63)1017-1038

78. Ali S.A., **Ali AS.** (1985).The anticholinesterase activity of dichlorovos (DDVP) in isolated melanophores of *Channa punctatus*. Orient. J. Chem., Vol.1 (1), pp. 41-43.

79. Ali S.A. **Ali AS** Ovais M Belsare DK. (1985*). In-vitro* effect of cyclic AMP on teleost melanophores. Nat. Acad. Science Letters, 193:294-297

80. **Ali AS** Ali SA Belsare, DK (1984) Effect of phenyl mercury acetate on ovary and crop of pigeon, *Columba livia*, Ind. J. Zool. Vol. 12, No. 2, pp. 40-44.