

19. LIST OF PUBLICATIONS:**A) RESEARCH PAPERS ALREADY PUBLISHED**

1. **SHAKOORI, A.R.**, 1968. Anatomy and skeletomusculature of *Caenestheria propinqua* (Sars) (Conchostraca, Branchiopoda, Crustacea). *Bull. Dept. Zool. Univ. Punjab (N.S.)*, **2**: 1-48.
2. **SHAKOORI, A.R.**, SCHLATTERER, B. AND SIEBERT, G., 1972. Non-aqueous isolation of nucleoli from rat liver. *Hoppe-Seyler's Z. Physiol. Chem.*, **353**: 758.
3. **SHAKOORI, A.R.**, ROMEN, W., OELSCHLAGER, W., SCHLATTERER, B. AND SIEBERT, G., 1972. A new technique for the isolation of nucleoli from animal cells. *Hoppe-Seyler's Z. Physiol. Chem.*, **353**: 1735-1748.
4. **SHAKOORI, A. R.**, 1973. Isolation of nucleoli and chromatin from bovine seminal vesicle and rat liver in organic solvents by sonication. *Pakistan J. Zool.*, **5**: 1-23.
5. **SHAKOORI, A. R.** AND AHMAD, M.S., 1973. Studies on the liver of chicken, *Gallus domesticus* I. Liver growth and nucleic acids content. *Pakistan J. Zool.*, **5**: 111-117.
6. SIEBERT, G., SCHLATTERER, B. AND **SHAKOORI, A. R.**, 1973. Organic solvent mixture as zonal centrifugation media: separation of nuclei and of nucleoli. In: *Methodological developments in biochemistry* (Ed. E. Reid), vol. 3: *Advances with zonal rotors*, pp. 157-158, Longman, London.
7. **SHAKOORI, A.R.**, MIAN, N.J. AND AHMAD, M.S., 1974. Effect of thioacetamide on the nucleic acids content of kidney of rabbit. *Biologia Pakistan*, **20**: 163-169.
8. **SHAKOORI, A.R.**, WAHEED, A. AND AHMAD, M. S., 1974. Studies on the liver of chicken, *Gallus domesticus* II. Effect of total body gamma irradiation on the liver growth and nucleic acids content. *Pakistan J. Zool.*, **6**: 73-84.
9. **SHAKOORI, A.R.**, 1974. A preliminary report on the effect of thioacetamide on nucleic acids content and lactate dehydrogenase activity of various fractions of rat liver. *Pakistan J. Zool.*, **6**: 189-191.
10. **SHAKOORI, A.R.**, SHAH, W.A. AND AKHTAR, S., 1975. Studies on the liver of chicken, *Gallus domesticus* III. Effect of additive doses of thioacetamide on the free amino acids pool and soluble protein contents of liver and blood serum. *Pakistan J. Zool.*, **7**: 7-14.
11. **SHAKOORI, A.R.** AND KHAN, S.A., 1975. Thioacetamide-induced changes in the histological structure of rabbit kidney. *Biologia Pakistan*, **21**: 75-85.
12. **SHAKOORI, A.R.** AND KHAN, S.A., 1975. Cytological changes in rabbit liver induced by thioacetamide. *Biologia Pakistan*, **21**: 111-117.
13. **SHAKOORI, A.R.** AND DRAKSHAN, M., 1975. Effect of thioacetamide on the body weight, liver weight, histological structure and the total nucleic acids content of mouse liver. *Pakistan J. Zool.*, **7**: 117-133.
14. **SHAKOORI, A.R.** AND ZHAEEER, S.A., 1975. Effect of thioacetamide on the electrophoretic pattern of blood serum proteins of rabbit. *Pakistan J. Zool.*, **7**: 207-208.
15. **SHAKOORI, A.R.**, ZAHEER, S.A. AND AHMAD, M.S., 1976. Electrophoretic pattern of blood serum proteins of some of the vertebrates of Pakistan. *Nucleus*, **13**: 31-39.
16. **SHAKOORI, A.R.**, AND ASHRAF, F., 1976. Thioacetamide-induced changes in the body weight, kidney weight and the total nucleic acids content of kidney of mouse. *Nucleus*, **13**: 41-47.
17. **SHAKOORI, A.R.**, ZAHEER, S.A. AND AHMAD, M.S., 1976. Response of blood serum proteins and free amino acids to starvation in freshwater teleost, *Channa punctatus* (Bloch.). *Pakistan J. Zool.*, **8**: 25-34.
18. **SHAKOORI, A.R.** AND SHAH, W.A., 1976. Studies on the liver of chicken, *Gallus domesticus* IV. Effect of starvation on the soluble proteins content and free amino acids pool. *Biologia Pakistan*, **22**: 193-199.
19. **SHAKOORI, A.R.**, ZAHEER, S.A. AND AHMAD, M.S., 1976. Effect of malathion, dieldrin and endrin on blood serum proteins and free amino acids pool of *Channa punctatus*. *Pakistan J. Zool.*, **8**: 125-134.
20. **SHAKOORI, A.R.** AND LONE, K.P., 1977. Effect of thioacetamide on the nucleic acids, protein and free amino acids content of liver and kidney of spiny-tailed lizard, *Uromastix hardwickii*. *Biologia Pakistan*, **23**: 65-75.
21. ASHRAF, F., **SHAKOORI, A.R.** AND ASLAM KHAN, M., 1977. Nucleic acids content of *Anopheles stephensi* collected from different localities of Iran and Pakistan. *Pakistan J. Zool.*, **9**: 99-105.
22. **SHAKOORI, A.R.** AND KHAN, M.A., 1977. Structural changes induced by total extrahepatic biliary obstruction in rat liver. *Pakistan J. Zool.*, **9**: 209-243.
23. **SHAKOORI, A.R.** AND LONE, K.P., 1977. Effect of stronger doses of thioacetamide on the liver and kidney of *Uromastix hardwickii*. *Nucleus*, **14**: 27-34.
24. RAZA, T.A. AND **SHAKOORI, A.R.**, 1978. Cytologic alterations in adenohipophysis of rat after chemical thyroidectomy: an electron microscopic study of thyrotrophs. *Pakistan J. Zool.*, **10**: 139-162.
25. **SHAKOORI, A.R.** AND MALIK, F., 1979. Effect of aqueous opium extract on the body growth rate of mouse. *Pakistan J. Zool.*, **11**: 181-184.
26. **SHAKOORI, A.R.** AND BUTT, U., 1979. Effect of thioacetamide on the development of a drosophilid fly. I. Morphological studies. *Pakistan J. Zool.*, **11**: 315-328.
27. **SHAKOORI, A.R.** AND BAKHTIAR, A., 1979. Effect of thioacetamide on the development of a drosophilid fly II. Biochemical studies. *Bull. Dept. Zool. Univ. Punjab (N.S.)*, Article **11**, pp. 85.

28. **SHAKOORI, A.R.** AND ALI, S.S., 1980. Some observations on the effect of stronger doses of thioacetamide on the development of *Zaprionus indianus*. *Pakistan J. Zool.*, **12**: 274-276.
29. **SHAKOORI, A.R.** AND BUTT, M.Z., 1980. Thioacetamide-induced inhibition of development in house fly. *Pakistan J. Zool.*, **12**: 247-276.
30. GILL, N., MUFTI, S.A., AND **SHAKOORI, A.R.**, 1981. Effect of denervation on the extensor digitorum longus muscle in rats. *Pakistan J. Zool.*, **13**: 85-92.
31. GILL, N., **SHAKOORI, A.R.** AND MUFTI, S.A., 1981. Studies on the effect of mechanical injury on normal extensor digitorum longus muscle in rats. *Pakistan J. Zool.*, **13**: 51-62.
32. ALI, S.S. AND **SHAKOORI, A.R.**, 1981. Resistance to malathion toxicity in rabbits - as revealed by studies on blood and liver. *Pakistan J. Zool.*, **13**: 269-281.
33. **SHAKOORI, A.R.**, RASUL, Y.G. AND ALI, S.S., 1982. Effect of dieldrin feeding for six months on albino rats-biochemical and histological changes in liver. *Pakistan J. Zool.*, **14**: 191-204.
34. **SHAKOORI, A.R.** AND HAQ, R., 1982. Effect of starvation and refeeding on the blood and liver of domesticated rabbits. *Acta Physiol. latinoam.*, **32**: 131-145.
35. GILL, N., **SHAKOORI, A.R.** AND MUFTI, S.A., 1983. Morphometric studies on the effect of xylocaine on the normal and transplanted extensor digitorum longus muscles on rat. *Pakistan J. Zool.*, **15**: 57-73.
36. **SHAKOORI, A.R.**, IQBAL, M.Z. AND ALI, S.S., 1983. Hepatic dysfunction following continuous long term feeding of saccharin in albino mice. *Pakistan J. Zool.*, **15**: 157-162.
37. **SHAKOORI, A.R.** AND MIRZA, M.R., 1983. Seventy five years of postgraduate teaching and research in Zoology in University of the Punjab. *Biologia (Pakistan) Suppl.*, pp. 1-55.
38. **SHAKOORI, A.R.** AND PARVEEN, A., 1983. Changes induced by thioacetamide in the macromolecular contents of house fly, *Musca domestica* L. during development. *Bangladesh J. Zool.*, **11**: 53-74.
39. **SHAKOORI, A.R.**, RASUL, Y.G. AND ALI, S.S., 1984. The effect of long term administration of dieldrin on biochemical changes in blood serum of albino rats. *Folia biol. (Krakow)*, **32**: 213-222.
40. **SHAKOORI, A.R.**, CHEEMA, A.I.A., RANI, A., AND ALI, S.S., 1984. Evaluation of liver function after thioacetamide treatment of partially hepatectomized rabbits. *Acta physiol. Pharmacol. latinoam.*, **34**: 304-312.
41. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1984. Survival and body weight loss of starved larvae of *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae) at different relative humidities. *Pakistan J. Zool.*, **16**: 129-134.
42. AHMAD, M.S., ALI, F.A., AND **SHAKOORI, A.R.**, 1985. Effect of dieldrin on the whole body protein content of *Periplaneta americana*. *Pakistan J. Zool.*, **17**: 105-109.
43. CHEEMA, A.A., **SHAKOORI, A.R.** AND SHAH, F.H., 1985. Kinetic studies on acetylcholinesterase in brain of a goat. *Pakistan J. Zool.*, **17**: 127-131.
44. **SHAKOORI, A.R.**, RIZVI, N. AND AHMAD, M.S., 1985. Possible interaction of nucleosides with thioacetamide. *Pakistan J. Zool.*, **17**: 179-191.
45. AHMAD, M. AND **SHAKOORI, A.R.**, 1985. *Test item pool Zoology*, pp. 835; published by University Grants Commission, Islamabad.
46. **SHAKOORI, A.R.**, RANI, A., CHEEMA, A.I.A., AND ALI, S.S., 1985. Some biochemical and histological changes in regenerating liver after thioacetamide treatment of partially hepatectomized rabbits. *Pakistan J. Zool.*, **17**: 271-288.
47. HAQ, R., AND **SHAKOORI, A.R.**, 1985. Sensitivity of yeast *Schizosaccharomyces pombe* to N-methyl-N-nitro-N-nitrosoguanidine (MNNG). *Pakistan J. Zool.*, **17**: 313-316.
48. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1985. Effect of permethrin and deltamethrin on some biochemical components of *Tribolium castaneum* larvae. *Pakistan J. Zool.*, **17**: 321-328.
49. **SHAKOORI, A.R.**, AND MIRZA, M.R. (Eds.), 1985. *Souvenir*. Released at the occasion of Sixth Pakistan Congress of Zoology, pp. 94, published by Zoological Society of Pakistan, Lahore.
50. CHEEMA, A.A., SHAH, F.H. AND **SHAKOORI, A.R.**, 1985. Kinetics of inhibition of acetylcholinesterase of goat brain homogenate by malaoxon. *Pakistan J. Zool.*, **17**: 373-379.
51. MIRZA, M.R. AND **SHAKOORI, A.R.**, 1985. History of teaching and research in Zoology in the Punjab. In *Souvenir* (Eds. Shakoori, A.R. and Mirza, M.R.), pp. 9-75, Zoological Society of Pakistan, Lahore.
52. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1985. Comparative effects of permethrin and malathion on DNA, RNA and total protein contents in *Tribolium castaneum* larvae. *Proc. Pakistan Congr. Zool.*, **5**: 59-67.
53. ARSHAD, M., ALI, F.A. AND **SHAKOORI, A.R.**, 1985. The effect of injury on the haemolymph proteins of *Dysdercus cingulatus* (Pyrrhocoridae: Hemiptera). *Pakistan J. Zool.*, **17**: 369-372.
54. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1986. Starvation and refeeding in *Tribolium castaneum* (Herbst). I. Effect on some biochemical components of sixth instar larvae. *Canadian J. Zool.*, **64**: 1628-1632.
55. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1986. Biochemical effects of sublethal doses of cypermethrin on sixth instar larvae of *Tribolium castaneum* (Herbst). *Arch. Insect Biochem. Physiol.*, **3**: 447-455.
56. RIAZUDDIN, S. AND **SHAKOORI, A.R.**, 1986. Building biotechnology capability in Pakistan. Proc. Int. Symp. Sci. Tech. Pakistan, sponsored by North American Physicians Association and Pakistan Science Foundation, Islamabad.
57. RIAZUDDIN, S., **SHAKOORI, A.R.** AND NAWAZ, Z., 1986. Mutagenicity testing of children's consumables. *Pakistan J. Zool.*, **18**: 317-326.

58. MALIK, M.Z., SALEEM, M.A., FAYYAZ, M. AND **SHAKOORI, A.R.**, 1986. The toxicity of four new synthetic pyrethroids on the sixth instar larvae of a stored grain pest, *Tribolium castaneum* (Herbst). *Pakistan J. Zool.*, **18**: 417-431.
59. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1986. The effect of seven different relative humidities on survival and body weight loss of starved *Tribolium castaneum* adults. *Pakistan J. Zool.*, **18**: 395-402.
60. **SHAKOORI, A.R.**, RAANA, T., NAZ, F. AND ALI, S.S., 1986. Chemical interaction of thioacetamide with rat liver and bacterial DNA *in vitro* as revealed by agarose gel electrophoresis. *Proc. Pakistan Congr. Zool.*, **6**: 39-49.
61. **SHAKOORI, A.R.**, CHAUDHRY, B., MIRZA, N.A. AND RIAZUDDIN, S., 1986. Preliminary studies on the repair of O₂ MeT and O₄ MeT lesions in DNA of *Micrococcus luteus* adapted to N-methyl-n-nitro-n-nitrosoguanidine (MNNG). *Proc. Pakistan Congr. Zool.*, **6**: 221-238.
62. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1987. Permethrin and malathion induced macromolecular abnormalities in adults of *Tribolium castaneum*. *Arch. Insect Biochem. Physiol.*, **5**: 45-55.
63. **SHAKOORI, A.R.** AND HAQ, R., 1987. Effect of starvation on the heptachlor toxicity in rabbits-biochemical changes in blood. *Folia biol. (Krakow)*, **35**: 33-42.
64. **SHAKOORI, A.R.** AND HAQ, R., 1987. Effect of heptachlor on the liver of starved rabbits. *Folia biol. (Krakow)*, **35**: 23-32.
65. **SHAKOORI, A.R.**, AKHTAR, R., NAWAZ, Z. AND RIAZUDDIN, S., 1987. Isolation, biochemical characterization and genetic studies of *Rhizobium* species collected from Lahore. *Pakistan J. Zool.*, **19**: 185-191.
66. NEELUM, M., NAWAZ, Z., **SHAKOORI, A.R.** AND RIAZUDDIN, S., 1987. Isolation and characterization of R-plasmid from antibiotic resistant bacterial strains collected from a local hospital. *Pakistan J. Zool.*, **19**: 17-26.
67. RIAZUDDIN, S., ATHAR, S. AND **SHAKOORI, A.R.**, 1987. A non-pyrimidine dimer UV damage specific endonuclease II. Mechanism of action. *Pakistan J. Zool.*, **19**: 217-230.
68. RIAZUDDIN, S., **SHAKOORI, A.R.**, AND ATHAR, A., 1987. Macromolecular and genetic basis of repair of DNA in *Micrococcus luteus* damaged by alkylating agents. *Proc. Int. Symp. Biol. Active Macromol.*, University of Baluchistan, Quetta.
69. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1987. Joint effects of diflubenzuron and permethrin on some enzyme activities of *Tribolium castaneum* larvae. *Pesticide Biochem. Physiol.*, **29**: 127-137.
70. **SHAKOORI, A.R.**, KHAN, M.T.J., HAQ, R. AND ALI, S.S., 1987. Haematological and biochemical changes induced in rabbit blood by chronic doses of thioacetamide. *Pakistan J. Zool.*, **19**: 273-282.
71. KHAN, M.T.J., ALI, S.S. AND **SHAKOORI, A.R.**, 1987. Histological and nucleic acids content changes in rabbit liver after continuous administration of thioacetamide for seven weeks. *Pakistan J. Zool.*, **19**: 439-441.
72. SOHAIL, A., AMJAD, M., **SHAKOORI, A.R.** AND RIAZUDDIN, S., 1987. An improved method for isolation of covalently closed circular DNA from m X 174 am3 phage. *Pakistan J. Zool.*, **19**: 407-412.
73. RIAZUDDIN, S., SOHAIL, A., NAWAZ, Z., MUSHTAQ, R. AND **SHAKOORI, A.R.**, 1987. Isolation of a temperate bacteriophage λ R7 specific for *Pseudomonas aeruginosa*. *Pakistan J. Zool.*, **19**: 425-435.
74. **SHAKOORI, A.R.**, SALEEM, M.A., AND TUFAIL, N., 1988. Evaluation of loss of total body weight and mortality of *Tribolium castaneum* after starvation. *Pakistan J. Zool.*, **20**: 1-11.
75. **SHAKOORI, A.R.**, ALI, S.S. AND SALEEM, M.A., 1988. Effects of six months feeding of Cypermethrin on the blood and liver of albino rats. *J. biochem. Toxicol. (USA)*, **3**: 59-71.
76. **SHAKOORI, A.R.**, FAYYAZ, M. AND SALEEM, M.A., 1988. Biochemical changes induced by Fenpropathrin in the sixth instar larvae of *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae). *J. Stored Prod. Res.*, **24**: 215-220.
77. KHAN, M.T.J., ALI, S.S. AND **SHAKOORI, A.R.**, 1988. Histopathological and Nucleic Acids changes in mouse liver following 6 weeks thioacetamide treatment. *Pakistan J. Zool.*, **20**: 191-199.
78. HAQ, R., KHAN, M.I., **SHAKOORI, A.R.**, ROBIN, S.P., 1988. Growth of *Thiobacillus ferrooxidans* on organically supplemented media. *Pakistan J. Zool.*, **20**: 247-252.
79. ATHAR, A., **SHAKOORI, A.R.** AND RIAZUDDIN, S., 1988. Partial purification of O₂ MeT glycosylase enzyme induced during chemical adaption of *M. luteus*. *Pakistan J. Zool.*, **20**: 159-172.
80. CHEEMA, A.A., SHAH, F.H. AND **SHAKOORI, A.R.**, 1988. Inhibition of goat brain acetylcholinesterase by physostigmine (eserine). *Pakistan J. Zool.*, **20**: 373-381.
81. ALI, S.S. AND **SHAKOORI, A.R.**, 1988. Gamma BHC induced haematological and biochemical alterations in blood of albino rat (*Rattus norvegicus*). *Proc. Pakistan Congr. Zool.*, **8**: 61-76.
82. ALI, S.S., ALI, N.S. AND **SHAKOORI, A.R.**, 1988. Biochemical alterations induced by short term feeding of endrin on blood of albino rats. *Proc. Pakistan Congr. Zool.*, **8**: 101-112.
83. KHAN, M.I., YASMIN, R., FAHMY, A.M., HAQ, R.U., REHMAN, Z.U. AND **SHAKOORI, A.R.**, 1988. Studies on cell survival and induction of metallothionein in yeast. *Pakistan J. Zool.*, **20**: 275-282.
84. BUTT, I.A., RIAZUDDIN, S., **SHAKOORI, A.R.** AND JABEEN, F., 1988. Isolation and identification of petroleum hydrocarbon degrading bacteria from the local environments. *Pakistan J. Zool.*, **20**: 391-399.
85. ALI, S.S., QURESHI, M.A., IQBAL, M.J. AND **SHAKOORI, A.R.**, 1988. Biochemical effects of zinc on the muscle of common carp, *Cyprinus carpio*. *Punjab Univ. J. Zool.*, **3**: 71-78.
86. CHEEMA, A.A., **SHAKOORI, A.R.** AND SHAH, F.H., 1989. Inhibition of acetylcholinesterase of goat brain by pyridine -2-aldoxime methiodide (PAM-2). *Pakistan J. Zool.*, **21**: 17-23.
87. CHEEMA, A.A., **SHAKOORI, A.R.**, AND SHAH, F.H., 1989. Studies on the reactivation of malaoxon-inhibited acetylcholinesterase of goat brain by pyridine-2-aldoxime methiodide (PAM-2). *Pakistan J. Zool.*, **21**: 247-254.

88. **SHAKOORI, A.R.** AND SALEEM, M.A., 1989. Some macromolecular abnormalities developed by the interaction of malathion and permethrin and subsequent refeeding in *Tribolium castaneum* larvae. *Arch. Insect Biochem. Physiol.*, **11**: 203-215.
89. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1989. Toxicity of malathion, permethrin and cypermethrin against resistant and susceptible strains of *Tribolium castaneum* (Herbst). *Pakistan J. Zool.*, **21**: 347-360.
90. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1990. The toxicity of eight insecticides to sixth instar larvae and adult beetle of *Tribolium castaneum* (Herbst.). *Pakistan J. Zool.*, **22**: 207-216.
91. **SHAKOORI, A.R.**, AZIZ, F., ALAM, J. AND ALI, S.S., 1990. Toxic effects of Talstar a new synthetic pyrethroid, on blood and liver of rabbit. *Pakistan J. Zool.*, **22**: 289-300.
92. RIZVI, A.R., **SHAKOORI, A.R.** AND RIZVI, S.M., 1990. Aflatoxin contamination of commercial poultry feeds in Punjab, Pakistan. *Pakistan J. Zool.*, **22**: 387-398.
93. **SHAKOORI, A.R.**, ALAM, J., AZIZ, F. AND ALI, S.S., 1990. Biochemical effects of bifenthrin (Talstar) administered orally for one month on the blood and liver of rabbit. *Proc. Pakistan Congr. Zool.*, **10**: 61-81.
94. **SHAKOORI, A.R.**, SABIR, M., ASLAM, F. AND ALI, S.S., 1990. Toxic effects induced in blood and liver of rabbit after short duration exposure to synthetic pyrethroid, Karate (Cyhalothrin). *Proc. Pakistan Congr. Zool.*, **10**: 83-99.
95. **SHAKOORI, A.R.** ALI, T., IQBAL, M.J. AND ALI, S.S. 1990. Cadmium-induced biochemical changes in liver and muscle of a freshwater fish, *Cirrhina mrigala*. *Proc. Pakistan Congr. Zool.*, **10**: 307-321.
96. ALI, S.S. AND **SHAKOORI, A.R.**, 1990. Toxicology of aldrin in rats. *Punjab Univ. J. Zool.*, **5**: 1-50
97. **SHAKOORI, A.R.**, 1991. Status of Biotechnology Research in Pakistan. In *Proceedings of the workshop on Recent Advances in Biotechnology*, pp 50-55. Government of the republic of Indonesia and Standing Committee on Scientific and Technological Cooperation (COMSTECH) of the OIC, Jakarta, November 26-28, 1990.
98. **SHAKOORI, A.R.**, AND SALEEM, M.A., 1991. Comparative biochemical composition of a susceptible (FSSII) and two malathion resistant (CTC 12 and Pakistani) strains of *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae). *Pakistan J. Zool.*, **23**(1): 1-10.
99. **SHAKOORI, A.R.**, MAJEED, S.B., AND IFTIKHAR, A., 1991. Effect of synthetic pyrethroid on the growth of *Bacillus thuringiensis* var *Kurstaki* (HDI strain) and toxicity to dipterous fly, *Zaprionis indiana*. *Pakistan J. Zool.*, **23**: 239-249.
100. **SHAKOORI, A.R.** AND JAFFRI, S.S.R., 1991. Toxic effect of bifenthrin on blood serum proteins of freshwater fish, *Tilapia mossambica*. *Pakistan J. Zool.*, **23**: 372-374.
101. **SHAKOORI, A.R.** AND MANSHA, M., 1991. Analysis and characterization of heat shock proteins of *Bacillus thuringiensis* Kurstaki HD1. *Pakistan J. Zool.*, **23**: 229-237.
102. **SHAKOORI, A.R.** AND JAVED, A., 1991. Isolation and characterization of plasmid DNA and genomic size of *Bacillus thuringiensis* Kurstaki HD1. *Proc. Pakistan Congr. Zool.*, **11**: 75-88.
103. **SHAKOORI, A.R.**, IFTIKHAR, A. AND MAJEED, S., 1991. Effect of heptachlor, MNNG and thioacetamide on the growth of *Bacillus thuringiensis* Berliner strain HD1 (Kurstaki) and its toxicity to dipterous fly, *Zaprionis indiana*. *Proc. Pakistan Congr. Zool.*, **11**: 57-73.
104. **SHAKOORI, A.R.** AND AZIZ, F., 1991. Effect of freezing (-30°C) on the electrophoretic pattern and estimation of blood serum proteins of freshwater fish, *Labeo rohita*. *Pakistan J. Zool.*, **23**: 369-372.
105. **SHAKOORI, A.R.**, AZIZ, F., SABIR, M., ASLAM, F. AND ALAM, J., 1991. Retarded growth and macromolecular abnormalities in chick blood following oral administration of a synthetic pyrethroid, bifenthrin to *Gallus domesticus*. *Proc. Pakistan Congr. Zool.*, **11**: 41-55.
106. KHAN, M.I., REHMAN, S., FAHMY, M.A. AND **SHAKOORI, A.R.**, 1991. Identification, characterization and metal tolerance of a laboratory contaminant pink-pigmented yeast. *Pakistan J. Zool.*, **23**: 175-182.
107. RIZVI, S.A.R., **SHAKOORI, A.R.** AND RIZVI, S.M., 1991. Immunomodulatory effects of aflatoxin in chicken. *Pakistan J. Livestock Res.*, **1**: 7-18.
108. ALI, S.S., QURESHI, M.A., IQBAL, M.J. AND **SHAKOORI, A.R.**, 1992. Zinc-induced biochemical alteration in the liver of common carp, *Cyprinus carpio*. *Punjab Univ. J. Zool.*, **7**: 1-11.
109. **SHAKOORI, A.R.**, ALAM, J., AZIZ, F., ASLAM, F., AND SABIR, M., 1992. Toxic effects of bifenthrin (Talstar) on the liver of *Gallus domesticus*. *J. Ecotoxicol. Environ. Monit.*, **2**: 1-11.
110. **SHAKOORI, A.R.**, ASLAM, F., SABIR, M. AND ALI, S.S., 1992. Effect of prolonged administration of insecticide (Karate / Cyhalothrin) on blood and liver of rabbits. *Folia biol. (Krakow)*, **40**: 91-99.
111. RIZVI, S.A.R. AND **SHAKOORI, A.R.**, 1992. Immunomodulatory effects of aflatoxin B1 against Newcastle disease virus vaccine in poultry. *Pakistan J. Zool.*, **24**: 53-58.
112. **SHAKOORI, A.R.** AND TARIQ, S., 1992. Effect of hyperthermia on induction of heat shock protein in *Bacillus thuringiensis*. *Pakistan J. Zool.*, **24**: 293-299.
113. **SHAKOORI, A.R.**, ILYAS, M. AND AZIZ, F., 1992. Toxicity of sublethal doses of Trebon (Ethofenprox) on total blood serum proteins, acetylcholinesterase activity and SDS-PAGE pattern of blood serum proteins of *Cirrhina mrigala*. *Pakistan J. Zool.*, **24**: 235-241.
114. RIZVI, S.A.R. AND **SHAKOORI, A.R.**, 1992. Effect of aflatoxin on the body growth rate and growth of various organs of poultry. *Pakistan J. Zool.*, **24**: 301-307.
115. AZIZ, F. AND **SHAKOORI, A.R.**, 1992. Toxic effects of mercuric chloride on the blood serum proteins and free amino acids of freshwater fish, *Labeo rohita*. *Pakistan J. Zool.*, **24**: 362-364.

116. TUFAIL, N., SALEEM, M.A. AND **SHAKOORI, A.R.**, 1992. Effectiveness of synthetic pyrethroids against susceptible and resistant strains of *Tribolium castaneum*. *Pakistan J. Zool.*, **24**: 199-209.
117. ANJUM, F., RAMAN, A., **SHAKOORI, A.R.** AND GORROD, J.W., 1992. An assessment of cadmium toxicity on cytochrome P450 and flavin monooxygenase-mediated metabolic pathways of dimethylaniline in male rabbits. *J. Environ. Path. Toxicol. Oncol.*, **11**: 191-195.
118. **SHAKOORI, A.R.**, 1992. Chemistry of cell. In *Textbook of Biology for Class XI*. Punjab Textbook Board, Lahore.
119. TUFAIL, N., AND **SHAKOORI, A.R.**, 1992. Alphamethrin toxicity in *Tribolium castaneum* larvae. *Pakistan J. Zool.*, **24**: 59-70.
120. **SHAKOORI, A.R.**, OBERDORF, A.M., OWEN, T.A., WEBER, L.A., HICKEY, E., STEIN, J.L., LIAN, J.B. AND STEIN, G.S. 1992. Expression of heat shock genes during differentiation of mammalian osteoblasts and promyelocytic leukemia cells. *J. Cell. Biochem.*, **48**: 277-287.
121. **SHAKOORI, A.R.**, AND IFTIKHAR, A., 1992. Characterization and amplification of plasmid DNA of *Bacillus thuringiensis*. *Proc. Pakistan Congr. Zool.*, **12**: 59-72.
122. **SHAKOORI, A.R.** AND YASMIN, G., 1992. Effect of Sumicidin Super on the blood serum proteins and acetylcholinesterase activity of broiler chicks of *Gallus domesticus*. *Proc. Pakistan Congr. Zool.*, **12**: 73-80.
123. **SHAKOORI, A.R.** AND RASHEED, S., 1992. Characterizations of plasmids from clinically important bacterial isolates from local hospitals. *Proc. Pakistan Congr. Zool.*, **12**: 81-92.
124. **SHAKOORI, A.R.**, MUJEEB, K.A., IQBAL, M.J. AND ALI, S.S., 1992. Biochemical changes following lead exposure in the liver and muscle of a freshwater fish, *Cirrhina mrigala*. *Proc. Pakistan Congr. Zool.*, **12**: 435-444.
125. **SHAKOORI, A.R.**, BUTT, U., RIFFAT, R. AND AZIZ, F., 1992. Toxic effects of short term oral administration of danitol on the blood and liver of rabbits. *Punjab Univ. J. Zool.*, **7**: 13-26.
126. **SHAKOORI, A.R.**, OWEN, T.A., SHALHOUB, V., STEIN, J.L., BUSTIN, M., STEIN, G.S. AND LIAN, J.B., 1993. Differential expression of the chromosomal high mobility group proteins 14 and 17 during the onset of differentiation in mammalian osteoblasts and promyelocytic leukemia cells. *J. Cell. Biochem.*, **51**: 479-487.
127. ANJUM, F. AND **SHAKOORI, A.R.**, 1993. Effect of cadmium on the survival, total body weight, relative liver weight and the liver function enzymes of promethazine- pretreated and phenobarbitone pretreated rabbits. *Pakistan J. Zool.*, **25**: 177-185.
128. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1993. Starvation and refeeding in *Tribolium castaneum* (Herbst.) II. Effect on some biochemical components of adult beetles. *Pakistan J. Zool.*, **25**: 169-175.
129. **SHAKOORI, A.R.**, MALIK, M.Z. AND SALEEM, M.A., 1993. Toxicity of Karate to malathion resistant Pakistan strain of red flour beetle (*Tribolium castaneum*) adults. *Pakistan J. Zool.*, **25**: 261-271.
130. SALEEM, M.A. AND **SHAKOORI, A.R.** 1993. Effect of cypermethrin on the free amino acids pool in an organophosphorus insecticide resistant and a susceptible strain of *Tribolium castaneum*. *Comp. Biochem. Physiol.*, **105C**: 549-553.
131. **SHAKOORI, A.R.**, ASLAM, F., AZIZ, F. SABIR, M., AND ALAM, J., 1993. Toxicological effects of orally administered synthetic pyrethroid Talstar (= bifenthrin) on the gastrocnemius muscles of *Gallus domesticus*. *Bangladesh J. Zool.*, **21**: 23-33.
132. ALI, S.S., KHAGGAH, F., ANJUM, F. AND **SHAKOORI, A.R.**, 1993. Cadmium toxicity in the growing chicks of *Gallus domesticus*. *Pakistan J. Zool.*, **25**: 90-92.
133. ANJUM, F. AND **SHAKOORI, A.R.**, 1993. Effect of cadmium intoxication on drug metabolizing enzymes of promethazine-pretreated and phenobarbitone pretreated male rabbit. *Pakistan J. Zool.*, **25**: 337-346.
134. ANJUM, F., RAMAN, A., **SHAKOORI, A.R.** AND GORROD, J.W., 1993. Effects of sublethal doses of cadmium chloride on native and phenobarbitone-induced drug metabolizing enzymes in male rabbits. *Pharmaceut. Sci. Commun.*, **4**: 45-49.
135. YOUNAS, M., AZIZ, F., SHAFIQUE, M. AND **SHAKOORI, A.R.**, 1993. Biochemical analysis of pericardial fluid in chicks of *Gallus domesticus* suffering from hydropericardium syndrome. *Proc. Pakistan Congr. Zool.*, **13**: 325-340.
136. AZIZ, F., AMIN, M. AND **SHAKOORI, A.R.**, 1993. Toxic effects of cadmium chloride on the haematology of fish, *Tilapia mossambica*. *Proc. Pakistan Congr. Zool.*, **13**: 141-154.
137. ALI, S.S. AND **SHAKOORI, A.R.**, 1993. Short term toxicity of endrin on Sprague Dawley rats: Biochemical and histological changes in liver. *Punjab Univ. J. Zool.*, **8**: 1-13.
138. **SHAKOORI, A.R.**, BUTT, U., RIFFAT, R. AND AZIZ, F., 1994. Haematological and biochemical effects of Danitol administered for two months on the blood and liver of rabbits. *Z. Angew. Zool. (Germany)*, **80 (2)**: 165-180.
139. **SHAKOORI, A.R.**, MALIK, M.Z. AND SALEEM, M.A., 1994. Toxicity of cyhalothrin (Karate) to sixth instar larvae of Pakistan strain of *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae). *Pakistan J. Zool.* **26**: 57-64.
140. **SHAKOORI, A.R.**, IQBAL, M.J. AND ALI, S.S., 1994. Drastic biochemical changes following 48 hours of exposure of chinese grass carp, *Ctenopharyngodon idella* to sublethal doses of mercuric chloride. *Proc. 1st Symp. Fish and Fisheries*, Pakistan, 1991, pp. 81-98.
141. SHAFIQUE, M. AND **SHAKOORI, A.R.**, 1994. Transmission of hydropericardium syndrome in poultry. *Pakistan J. Zool.* **26**: 145-148.
142. **SHAKOORI, A.R.**, TUFAIL, N. AND SALEEM, M.A., 1994. Response of malathion resistant and susceptible strains of (Herbst) to of bifenthrin toxicity. *Pakistan J. Zool.*, **26**: 169-178.

143. **SHAKOORI, A.R.**, VanWIJNEN, A.L., BORTELL, R., OWEN, T.A., STEIN, J.L., LIAN, J.B. AND STEIN, G.S., 1994. Variations in vitamin D receptor transcription factor complexes associated with the osteocalcin gene vitamin D responsive element in osteoblasts and osteosarcoma cells. *J. Cell. Biochem. (USA)*, **55**: 218-229.
144. TUFAIL, N., SALEEM, M.A. AND **SHAKOORI, A.R.**, 1994. Biochemical changes in sixth instar larvae of PAK and FSS-II strains of red flour beetle, *Tribolium castaneum* (Herbst.) (Coleoptera: Tenebrionidae) following administration of sublethal doses of synthetic pyrethroid, bifenthrin. *Pakistan J. Zool.*, **26**: 197-206.
145. **SHAKOORI, A.R.** AND BHATTI, N.G., 1994. Effect of Trebon (Ethofenprox) on the carbohydrate utilization by adult beetles of an organophosphorous insecticide susceptible (FSS-II) and malathion resistant (PAK) strains of *Tribolium castaneum*. *Bangladesh J. Zool.*, **22**: 33-41.
146. **SHAKOORI, A.R.**, IQBAL, M.J., MUGHAL, A.L. AND ALI, S.S., 1994. Biochemical changes induced by inorganic mercury on the blood, liver and muscles of freshwater chinese grass carp, *Ctenopharyngodon idella*. *J. Ecotoxic. Environm. Monitor. (India)*, **4**: 81-92.
147. SALEEM, M.A., **SHAKOORI, A.R.**, WILKINS, R.M. AND MANTLE, D., 1994. In vivo effect of lambda-Cyhalothrin and malathion on the proteolytic enzymes of malathion resistant and susceptible strains of *Musca domestica*. *Pakistan J. Zool.*, **26**: 327-334.
148. **SHAKOORI, A.R.**, AGHA, S., SALEEM, M.A. AND ALI, S.S., 1994. Biochemical abnormalities produced by sublethal doses of synthetic pyrethroid, Sumicidim Super, on the sixth instar larvae of red flour beetle, *Tribolium castaneum*. *Pakistan J. Ent. Karachi.*, **9**: 5-20.
149. SHEIKH, M.A., YAQOOB, T., BAIG, M.S., MAHMOOD, F., AFZAL, M. AND **SHAKOORI, A.R.**, 1994. The epidemiology of haemorrhagic septicaemia in the buffaloes of Pakistan. *The Buffalo J. (Bangkok)*, **10**: 229-236.
150. MALIK, K. AND **SHAKOORI, A.R.**, 1994. The growth of *Bacillus thuringiensis* and induction of proteins in the presence of cadmium chloride. *Proc. Pakistan Congr. Zool.*, **14**: 307-316.
151. LIAN, J.B., STEIN, G.S., STEIN, J.L., WIJNEN, A.V., MONTECINO, M., DESAI, R., **SHAKOORI, A.R.**, BREEN, E., HOFFMAN, H. AND POCKWINSE, S.M., 1994. Vitamin D regulation of osteocalcin gene transcription: A model for defining molecular mechanisms of 1,25 (OH)2D3 control of osteoblast growth and differentiation. In: *Vit. D: a pluripotent steroid hormone: structural studies, molecular endocrinology, and clinical applications*. Proceedings of the Ninth Workshop on Vitamin D, Orlando, Florida (Edited by A.W. Norman, R. Bouillon, and M. Thomasset). Walter de Gruyter, Berlin New York, pp. 264-272.
152. CHUGHTAI, W.T. AND **SHAKOORI, A.R.**, 1994. Antibiotic sensitivity of *Bacillus thuringiensis* HD-1 *Kurstaki*. *Proc. Pakistan Congr. Zool.*, **14**: 209-219.
153. **SHAKOORI, A.R.**, DURRANI, S. AND SALEEM, M.A., 1994. Sublethal effects of a synthetic pyrethroid, Ripcord 10EC on *Tribolium castaneum*. *Proc. Pakistan Congr. Zool.*, **14**: 351-360.
154. ANJUM, F. AND **SHAKOORI, A.R.**, 1994. Sublethal effects of inorganic mercury on the body growth rate and liver function enzymes of promethazine pretreated and phenobarbitone pretreated rabbit. *J. Environm. Pathol. Toxicol. Oncol. (USA)*, **13**: 125-132.
155. **SHAKOORI, A.R.** AND KAUKAB, M., 1994. Electrophoretic pattern of total proteins of sporulating and non-sporulating *Bacillus thuringiensis*. *Proc. Pakistan Congr. Zool.*, **14**: 375-382.
156. **SHAKOORI, A.R.**, NAHEED, N. AND HUSSAIN, S., 1994. Effect of seasonal variations on protein pattern of freshwater fish, *Cirrhina mrigala*. *Proc. Pakistan Congr. Zool.*, **14**: 387-397.
157. SALEEM, M.A., **SHAKOORI, A.R.**, FALKOUS, G., WILKINS, R.M. AND MANTLE, D., 1994. *In vitro* effect of insecticides on proteolytic enzyme activities in insecticides resistant and susceptible strains of *Musca domestica*. *Proc. Pakistan Congr. Zool.*, **14**: 341-350.
158. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1994. Effect of starvation on mortality and total body weight of larvae and adults of *Tribolium castaneum*. *Punjab Univ. J. Zool.*, **9**: 27-34.
159. ALI, S.S., AND **SHAKOORI, A.R.**, 1994. DDT-induced hematotoxicity in Sprague Dawley rats. *Punjab Univ. J. Zool.*, **9**: 79-87.
160. MAHMOOD, A., RIAZUL HAQ, AND **SHAKOORI, A.R.**, 1994. Isolation of bacteria of *Pseudomonas* and *Enterobacter* spp. from soil and study of their ability and degrade organic pollutants. *Punjab Univ. J. Zool.*, **9**: 89-92.
161. RIZVI, S.A.R. AND **SHAKOORI, A.R.**, 1994. Effect of aflatoxin in poultry: 8-Aflatoxin residues in poultry tissues and eggs. *Pakistan J. Livestock Res.*, **4**: 11-13.
162. MUGHAL, A.L., IQBAL, M.J. AND **SHAKOORI, A.R.**, 1995. Toxicity of short term exposure of sublethal doses of a pyrethroid Fenvalerate, on the chinese grass carp, *Ctenopharyngodon idella*. In *Proceedings of Seminar on Aquaculture and Fisheries Development in Pakistan*, 1993, pp. 49-74, organized by Punjab Fisheries Department, Lahore.
163. SALEEM, M.A., **SHAKOORI, A.R.** AND FALKOUS, G., WILKINS, Q.M. AND MANTLE, D., 1995. *In vitro* inhibition of proteolytic enzymes of human liver, kidney, brain and muscle tissue due to insecticides. *Pakistan J. Zool.*, **27**: 95-103.
164. **SHAKOORI, A.R.**, IQBAL, M.Z. AND ALI, S.S., 1995. Biochemical and histopathological effects of saccharine on mouse liver. *Pakistan J. Zool.*, **27**: 1-13.
165. SHEIKH, M.A., TASNEEM, K., ZAFAR, M.S., BUTT, I.A. AND **SHAKOORI, A.R.**, 1995. Effect of storage on the prevalent alum precipitated haemorrhagic septicemia vaccine in Pakistan and preparation of a more efficient oil adjuvant vaccine using dense culture of *Pasteurella multocida* Roberts Type I on an improved culture medium. *J. Vet. Med. (Germany)*, **B42**: 28-34.

166. **SHAKOORI, A.R.**, KHALIQUE, F. AND SALEEM, M.A., 1995. Effects of a synthetic pyrethroids, Ripcord 10EC on the esterases of *Tribolium castaneum* (Herbst.) *Pakistan J Zool.*, **27**: 165-174.
167. ASLAM, F., SHALHOUB, V., VAN WIJNEN, A.J., BANERJEE, C., BORTELL, R., **SHAKOORI, A.R.**, LITWICK, G., STEIN, J.L., STEIN, G.S., AND LIAN, J.B. 1995. Contributions of distal and proximal promoter elements to glucocorticoid regulation of osteocalcin gene transcription. *Mol. Endocrinol. (USA)*, **9**: 679-690.
168. **SHAKOORI, A.R.**, VAN WIJNEN, A.J., COOPER, C., AZIZ, F., BIRNBAUM, M., REDDY, G.P.V., DE LUCA, A., GRANA, X., GIORDANO, A., LIAN, J.B., STEIN, J.L., QUESENBERRY, P. AND STEIN, G.S. 1995. Cytokine induction of proliferation and expression of CDC 2 and cyclin A in FDCP-1 myeloid haematopoietic progenitor cells: regulation of ubiquitous and cell cycle dependent histone gene transcription factors. *J. Cell. Biochem. (USA)*. **58**: 291-302.
169. SALEEM, M.A., **SHAKOORI, A.R.**, WILKINS, R.M. AND MANTLE, D., 1995. Protease activities in insect pests: baseline data for inhibitors based control strategies. *Pakistan J. Zool.*, **27**: 255-259.
170. **SHAKOORI, A.R.**, KOKAB, R., MAHJABEEN, G., ANJUM, F. AND ALI, S.S., 1995. Effect of mercuric chloride on the activities on some hepatic enzymes of regenerating rabbit liver following partial hepatectomy. *Acta Physiol. Pharmacol. Therap. Latinoam.* **45**: 177-184.
171. SHEIKH, M.A., ANJUM, M., MAJEED, U. AND **SHAKOORI, A.R.**, 1995. Characterization of *Pasteurella multocida* isolates from healthy carrier and infected sheep, goats and cattle. *Internat. J. Anim. Sci. (India)*, **10**: 21-25.
172. SALEEM, M.A., TUFAIL, N. AND **SHAKOORI, A.R.**, 1995. Synergistic effect of synthetic pyrethroids on the toxicity of *Bacillus thuringiensis* as shown by the biochemical changes in the sixth instar larvae of *Tribolium castaneum*. *Pakistan J. Zool.*, **27**: 317-323.
173. GILL, N. AND **SHAKOORI, A.R.**, 1995. Regeneration of autografted extensor digitorum longus muscle in Sprague Dawley rats. *Pakistan J. Zool.*, **27**: 363-371.
174. AHMAD, F., ALI, S.S. AND **SHAKOORI, A.R.**, 1995. Sublethal effects of Danitol (Fenpropathrin), a synthetic pyrethroid, on Chinese Grass Carp, *Ctenopharyngodon idella*. *Folia Biol. (Poland)*, **43**: 151-159.
175. SALEEM, M.A. AND **SHAKOORI, A.R.** 1995. Effect of starvation on the free amino acids pool in an organophosphorus insecticide resistant and a susceptible strain of *Tribolium castaneum*. *Folia Biol. (Poland)*, **43**: 131-135.
176. ALI, N., HAQ, R. AND **SHAKOORI, A.R.**, 1995. Effect of lead on growth of *Bacillus thuringiensis*. *Proc. Pakistan Congr. Zool.*, **15**: 201-210.
177. RIAZ, N., HAQ, R. AND **SHAKOORI, A.R.**, 1995. Effect of sumicidin super, a synthetic pyrethroid on the growth of *Bacillus thuringiensis*. *Proc. Pakistan Congr. Zool.*, **15**: 227-240.
178. GILL, N. AND **SHAKOORI, A.R.**, 1995. The free grafting of entire gastrocnemius muscle in Sprague Dawley rats. *Proc. Pakistan Congr. Zool.*, **15**: 267-282.
179. TUFAIL, N., SALEEM, M.A. AND **SHAKOORI, A.R.**, 1995. Toxicity of fluvalinate (Mavrik 2EC) in adult beetles of a malathion resistant and a susceptible strain of *Tribolium castaneum*. *Proc. Pakistan Congr. Zool.*, **15**: 289-312.
180. KHAN, B., YONUS, S., MUJEEB, K.A., SALEEM, M.A. AND **SHAKOORI, A.R.**, 1995. Level of estrases in the various developmental stages of *Tribolium castaneum*. *Proc. Pakistan Congr. Zool.*, **15**: 319-324.
181. ALI, S.S. AND ARSHAD, M. ALI, T. AND **SHAKOORI, A.R.**, 1995. Some metabolic alterations induced by an organophosphate insecticide, malathion on chick muscle. *Punjab Univ. J. Zool.*, **10**: 63-77.
182. GILL, N. AND **SHAKOORI, A.R.**, 1995. Biochemical changes during regeneration of transplanted extensor digitorum longus muscle in Sprague Dawley rats. *Punjab Univ. J. Zool.*, **10**: 11-19.
183. SHAIKH, M.A., ANZAM, M. AND **SHAKOORI, A.R.**, 1996. Observations on haemorrhagic septicaemia in Pakistan livestock. *J. Vet. Med. B. (Germany)*, **43**: 293-304.
184. **SHAKOORI, A.R.**, MUGHAL, A.L. AND IQBAL, M.J., 1996. The effects of sublethal doses of fenvalerate (A synthetic pyrethroid) administered continuously for four weeks on the blood, liver and muscle of a freshwater fish, *Ctenopharyngodon idella*. *Bull. Environ. Contam. Toxicol. (USA)*, **57**: 487-494.
185. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1996. Biochemical studies in Talcord 10EC. I. Effect on some enzyme activities and macromolecules of 6th instar larvae of *Tribolium castaneum*. *Pakistan J. Zool.*, **28**: 75-83.
186. HAQ, R., MAHMOOD, A. AND **SHAKOORI, A.R.**, 1996. Isolation and characterization of plasmids from hydrocarbon degrading bacteria of soil samples. *Pakistan J. Zool.*, **28**: 63-68.
187. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1996. Biochemical studies on Talcord 10EC. II. Effect on some enzyme activities and macromolecules of adult beetles of *Tribolium castaneum*. *Pakistan J. Zool.*, **28**: 151-162.
188. SALEEM, M.A. AND **SHAKOORI, A.R.**, 1996. Synergistic effects of permethrin and cypermethrin on the toxicity of *Bacillus thuringiensis* in the adult beetles of *Tribolium castaneum*. *Pakistan J. Zool.*, **28**: 191-198.
189. GILL, N. AND **SHAKOORI, A.R.**, 1996. Histological and biochemical changes during regeneration of transplanted anterior tibialis muscle in Sprague Dawley rats. *Pakistan J. Zool.*, **28**: 257-265.
190. NADEEM, S., YAQOUB, N., AHMAD, M.S., AND **SHAKOORI, A.R.**, 1996. Isolation of amino acid fermenting bacteria from water of irrigation channel and soil of irrigated cotton field. *Pakistan J. Zool.*, **28**: 339-343.
191. ANJUM, F., **SHAKOORI, A.R.** AND GORROD, J.W., 1996. Effect of hexavalent chromium on drug metabolizing enzymes in male domesticated rabbits. *J. Environ. Path. Toxicol. (U.S.A.)*, **15**: 41-50.
192. ALI, S.S. AND **SHAKOORI, A.R.**, 1996. Short and long term toxicity of DDT in Albino rats: Biochemical effects in liver. *Punjab Univ. J. Zool.*, **11**: 7-24.
193. ALI, S.S., HUSSAIN, A. AND **SHAKOORI, A.R.**, 1996. Effects of hexavalent chromium on the liver biochemistry of fish, *Oreochromis mossambicus*. *Biologia (Pakistan). Fish number.*, **42**: 101-112.

194. HAQ, R., SAEED, K. H., ALI, S.S. AND **SHAKOORI, A.R.**, 1996. Isolation of aromatic hydrocarbon degrading yeast from sewage wastes and assessment of their use in environmental decontamination. *Punjab Univ. J. Zool.*, **11**: 59-65.
195. GILL, N. AND **SHAKOORI, A.R.**, 1996. Histological and biochemical changes in the transplanted extensor digitorum longus muscle of *Oryctolagus cuniculus*. *Proc. Pakistan Acad. Sci.*, **33**: 133-145.
196. **SHAKOORI A.R.**, BAJWA, N., MUJEEB, H. AND MUJEEB, K.A. 1996. Effect of deltapos on the esterases of red flour beetle, *Tribolium castaneum*. *Proc. Pakistan Congr. Zool.*, **16**: 111-126.
197. **SHAKOORI, A.R.**, MUJEEB, K.A., NAEEM K. AND LATIF, H. 1996. Effect of Decis-D on the esterases of red flour beetle, *Tribolium castaneum*. *Proc. Pakistan Congr. Zool.*, **16**: 311-324.
198. ALI, S.S. AND **SHAKOORI, A.R.**, 1996. Histopathological changes induced by an organochlorine insecticide, DDT on the liver of albino rat. *Punjab Univ. J. Zool.*, **11**: 67-81.
199. AHMED, B. AND **SHAKOORI, A.R.**, 1996. Multiple antibiotic resistance among *Shigella* species isolated from patients of Shigellosis in Pakistan. *Punjab Univ. J. Zool.*, **11**: 83-88.
200. ANJUM, F. AND **SHAKOORI, A.R.**, 1997. Sublethal effects of hexavalent chromium on the body growth rate and liver function enzymes of phenobarbitone-pretreated and promethazine-pretreated rabbits. *J. Environ. Pathol. Toxicol. Oncol.* (USA) **16**: 51-59.
201. HAQ, R. AND **SHAKOORI, A.R.** 1997. Identification and characterization of plasmid borne genes of *Thiobacillus ferrooxidans* and their implication in improvement of metal recovery operation. *Pakistan J. Zool.*, **29**: 1-6.
202. HAQ, R. AND **SHAKOORI, A.R.**, 1997. Use of DNA probes for determination of homologies in genomes of different strains isolated from various localities of the world and their relationship with adaptation and evolution of the strains. *Pakistan J. Zool.*, **29**: 193-198.
203. IQBAL, M.J., ALI, S.S. AND **SHAKOORI, A.R.**, 1997. Toxicity of lead in fresh water fish, *Cirrhina mrigala*: Haematological changes. *J. Ecotoxicol. Environ. Monit.* (India), **7**: 139-143.
204. MANTLE, D., SALEEM, M.A., WILLIAMS, F.M., WILKINS, R.M., AND **SHAKOORI, A.R.**, 1997. Effect of pirimiphos methyl on proteolytic enzyme activities of heart, kidney, brain and liver of male wistar rat. *Clin. Chim. Acta* (U.K.), **262**: 89-97.
205. NADEEM, S., YAQOUB, N., AHMAD, M.S., AND **SHAKOORI, A.R.**, 1997. Amino acid fermenting bacterial isolates from animal faeces and excreta. *Pakistan J. Zool.*, **29**: 241-244.
206. RASHID, M.H., RAJOKA, M.I., SIDDIQUI, K.S. AND **SHAKOORI, A.R.**, 1997. Effect of different substrates on the simultaneous production of beta-glucosidase and polysaccharides by *Aspergillus niger* NIAB 280. *Pakistan J. Zool.*, **29**: 175-179.
207. **SHAKOORI, A.R.**, 1997. Zoological Science in 21st Century. In: *Silver Jubilee Souvenir 1997* (ed. M. Ahmad and A.R. , Shakoori), Zoological Society of Pakistan at the time of 17th Pakistan Congress of Zoology in University of Karachi, April 5-7, 1997.
208. VAN WIJNEN, A.J., COOPER, C., ODGREN, P., AZIZ, F., DELUCA, A., **SHAKOORI, A.R.**, GIORDANO, A., QUESENBERRY, P.J., LIAN, J.B., STEIN, G.S. AND STEIN, J.L., 1997. Cell cycle dependent modification in activities of pRb-related tumor suppressors and proliferation-specific CDP/cut homeodomain factors in murine hematopoietic progenitor cells. *J. Cell. Biochem. (U.S.A.)*, **66**: 512-523.
209. AHMAD, B. AND **SHAKOORI, A.R.**, 1997. Determination of susceptibility of pathogenic strains against antibacterial agents of patients with acute diarrhoea. *Pakistan J. Zool.*, **29**: 185-187.
210. GILL, N. AND **SHAKOORI, A.R.**, 1997. Regeneration of transplanted extensor digitorum longus muscle in guinea pigs. *Pakistan J. Zool.*, **29**: 377-384.
211. QAZI, J.I., SHEIKH, S.I., HAQ, R. AND **SHAKOORI, A.R.**, 1997. Cultivation of Chromium-tolerant ciliate protozoans from the industrial effluents of tanneries. *Pakistan J. Zool.*, **29**: 405-409.
212. GILL, N. AND **SHAKOORI, A.R.**, 1997. Effect of transplantation on entire anterior tibialis muscle in *Oryctolagus cuniculus*. *Punjab Univ. J. Zool.*, **12**: 15-21.
213. ALI, S.S., HUQ, R., KHALIQ, M. AND **SHAKOORI, A.R.**, 1997. Use of ultraviolet spectrophotometry for determination of insecticides and aromatic hydrocarbon pollutants. *Punjab Univ. J. Zool.*, **12**: 31-34.
214. AHMAD, B AND **SHAKOORI, A.R.**, 1997. Plasmid mediated antibiotic resistance in clinical isolates of *Pseudomonas aeruginosa*. *Punjab Univ. J. Zool.*, **12**: 43-48.
215. HAQ, R., MAHMOOD, A., REHMAN, R., ALI, S.S. AND **SHAKOORI, A.R.**, 1997. Predominance of lead resistance and lead processing bacteria in industrial and sewage waste. *Punjab Univ. J. Zool.*, **12**: 107-114.
216. HAQ, R., SAEED, K.I., ALI, S.S. AND **SHAKOORI, A.R.**, 1997. Aromatic hydrocarbone degrading yeast strains from sewage wastes and assessment of their use in environmental decontamination. *Proc. Pakistan Congr. Zool.*, **17**: 53-62.
217. HAQ, R., REHMAN, A. AND **SHAKOORI, A.R.**, 1997. A lead resistant bacteria from industrial effluents and feasibility of its exploitation for detoxification of lead in the environment. *Proc. Pakistan Congr. Zool.*, **17**: 89-98.
218. ALI, S.S. AND **SHAKOORI, A.R.** 1997. Effect of short and long term feeding of gamma HCH in Sprague Dawley rats. Hamatological studies. *Biologia*, **43**: 135-145.
219. GILL, N. AND **SHAKOORI, A.R.** 1997. Regeneration following transplantation of anterior tibialis muscle in guinea pigs. *Biologia* (Lahore). **43**: 125-134.
220. GILL, N., AND **SHAKOORI, A.R.**, 1997. Effect of transplantation of entire anterior tibialis muscle of *Oryctolagus cuniculus*. *Punjab Univ. J. Zool.*, **12**: 15-23.

221. SALEEM, M.A., WILLIAMS, F.M., WILKINS, R.M., **SHAKOORI, A.R.** AND MANTLE, D., 1998. Effect of Tri-O-Cresyl phosphate (TOCP) on proteolytic enzyme activities in mouse liver in vivo. *J. Environ. Pathol. Toxicol. Oncol.*, (USA), **17**: 69-73.
222. HAQ, R.U., QAZI, J.I. AND **SHAKOORI, A.R.**, 1998. Growth and survival of Protozoa isolated from a Tannery effluent. *Folia Microbiol. (Prague)*, **43(1)**: 109-112.
223. HAQ, R.U. AND **SHAKOORI, A.R.**, 1998. Microbiological treatment of industrial wastes containing toxic chromium involving successive use of bacteria, yeast and algae. *World J. Microbiol. Biotechnol. (UK)*, **14**: 583-585.
224. ASMATULLAH, QURESHI S.N. AND **SHAKOORI, A.R.**, 1998. Hexavalent chromium induced congenital abnormalities in chick embryos. *J. Appl. Toxicol. (USA)*, **18**: 167-171.
225. RASHID, M.H., SIDDIQUI, K.S., **SHAKOORI, A.R.**, RAJOKA, M.I. AND MALIK, K.A., 1998. Purification and characterization of chemically modified beta-glucosidases from *Aspergillus niger* NIAB-280. *Pakistan J. Zool.*, **30**: 23-30.
226. RASHID, M.H., **SHAKOORI, A.R.**, RAJOKA, M.I. AND SIDDIQUI, K.S. 1998. Monitoring of carboxyl group modification of beta-glucosidases from *Aspergillus niger* NIAB-280 by native enzyme mobility shift assay (NEMSA). *Pakistan J. Zool.*, **30**: 99-104.
227. GILL, N. AND **SHAKOORI, A.R.**, 1998. Regeneration of transplanted gastrocnemius muscle in guinea pigs. *Pakistan J. Zool.*, **30**: 111-116.
228. AZIZ, F., van WIJNEN, A.J., VAUGHAN, P.S., Wu, S., **SHAKOORI, A.R.**, LIAN, J.B., SOPRANO, K.J., STEIN, J.L. AND STEIN, G.S. 1998. The integrated activities of IRF-2 (HiNF-M), CDP/Cut (HiNF-D) and H4TF-2 (HiNF-P) regulate transcription of a cell cycle controlled human histone H4 gene: mechanistic differences between distinct H4 genes. *Molecular Biology Reports, (Holland)*. **25**: 1-12.
229. **SHAKOORI, A.R.**, SALEEM, M.A. AND MANTLE, D., 1998. Some macromolecular abnormalities induced by a sublethal dose of cymbush 10EC in adult beetles of *Tribolium castaneum*. *Pakistan J. Zool.*, **30**: 83-90.
230. GILL, N., AND **SHAKOORI, A.R.**, 1998. Regeneration of transplanted extensor digitorum longus muscle following femulectomy in Sprague Dawley rats. *Pakistan J. Zool.*, **30**: 55-61.
231. ASMATULLAH, QURESHI, S.N. AND **SHAKOORI, A.R.**, 1998. Embryotoxic and teratogenic effects of hexavalent chromium in developing chicks of *Gallus domesticus*. *Bull. Environ. Contam. Toxicol. (USA)*, **61**: 281-288.
232. GILL, N. AND **SHAKOORI, A.R.**, 1998. Effect of exercise on transplanted extensor digitorum longus muscle in Sprague Dawley rats. *Indian J. Exptl. Biol.*, **36**: 1221-1226.
233. HAQ, R., ZAIDI, S.K. AND **SHAKOORI, A.R.**, 1998. Presence of repetitive and homologous DNA sequences among the genomes of three Gram negative, metal resistant bacteria: a possible mechanism of adaptation. *Pakistan J. Zool.*, **30**: 315-318.
234. SALEEM, M.A., **SHAKOORI, A.R.** AND MANTLE, D., 1998. *In vivo* Ripcord induced macromolecular abnormalities in *Tribolium castaneum* larvae. *Pakistan J. Zool.*, **30**: 233-244.
235. SALEEM, M.A., **SHAKOORI, A.R.** AND MANTLE, D., 1998. Macromolecular and enzymatic abnormalities induced by a synthetic pyrethroid, Ripcord (Cypermethrin) in adult beetles of a stored grain pest, *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae). *Arch. Insect Biochem. Physiol. (USA)*, **39**: 144-154.
236. GILL, N., AND **SHAKOORI, A.R.**, 1998. Effect of tenotomy on extensor digitorum longus muscle in Sprague Dawley rats. *Folia Biol. (Krakow)*, **46**: 109-118.
237. GILL, N. AND **SHAKOORI, A.R.**, 1998. Regeneration following orthotopic transplantation of entire plantaris muscle in Sprague Dawley rats. *Indian J. Exptl. Biol.*, **36**: 1227-1232.
238. GILL, N., AND **SHAKOORI, A.R.**, 1998. Regeneration following transplantation of entire plantaris muscle in Guinea pigs. *Proc. Pakistan Acad. Sci.* **35**: 7-13.
239. KHAN, A.A., MUNIR, S. AND **SHAKOORI, A.R.**, 1998. Development of underground baiting technique for control of rats in rice fields in Pakistan. *Internat. Biodeterior. Biodegrad.*, (USA), **42**: 129-134.
240. GILL, N. AND **SHAKOORI, A.R.**, 1998. Transplantation of gastrocnemius muscle in *Oryctolagus cuniculus*. *Bangladesh J. Zool.*, **26**: 57-65.
241. MUJEEB, K.A., RABB, S. AND **SHAKOORI, A.R.** 1998. Biochemical analysis of pericardial fluid in chicks of *Gallus domesticus* suffering from hydropericardium syndrome. *Asian Australasian J. Anim. Sci. (Korea)*, **11**: 323-328.
242. ANWAR, K.K., MINHAS, R.A., MUNIS, F., HUSSAIN, S. AND **SHAKOORI, A.R.**, 1998. Comparative analysis of biochemical components of liver and muscle of a fish, *Schizothorax plagiostomus* Haeckel, from warm and cold water rivers near Muzaffarabad, Azad Kashmir, Pakistan. *Proc. Pakistan Congr. Zool.*, **18**: 217-224.
243. **SHAKOORI, A.R.**, SAQIB, Z.A., SALEEM, M.A. AND MUJEEB, K.A., 1998. Effect of Polytrin-C (A mixture of synthetic pyrethroid, cypermethrin and an organophosphate, profenofos) on adult beetles of insecticide resistant (PAK) and organophosphorous susceptible strains (FSS-II) of stored grain pest, red flour beetle *Tribolium castaneum* (Herbst.) (Coleoptera: Tenebrionidae). *Proc. Pakistan Congr. Zool.*, **18**: 239-353.
244. MUIZZUDDIN, N., **SHAKOORI, A.R.** AND MARENUS, K.D. 1998. Effect of topical application of antioxidants and free radical scavengers on protection of hairless mouse skin exposed to chronic doses of ultraviolet B. *Skin Res. Technol. (USA)*, **4**: 200-204.
245. HAQ, R.U., NOOR, H., AND **SHAKOORI, A.R.**, 1998. A study on metal resistance and lead detoxication efficiency of a gram positive bacterium isolated from effluents of tanning industry. *Punjab Univ. J. Zool.*, **13**: 33-40.
246. ALI, S.S. AND **SHAKOORI, A.R.**, 1998. Studies on the toxicity of lindane in albino rat: Histopathological effects in liver. *Punjab Univ. J. Zool.*, **13**: 149-166.

247. **SHAKOORI, A.R.**, TAHSEEN, S. AND HAQ, R.U. 1999. Chromium tolerant bacteria isolated from industrial effluents and their use in detoxification of hexavalent chromium. *Folia Microbiol. (Praha)*, **44**: 50-54.
248. HAQ, R.U., ZAIDI, S.K. AND **SHAKOORI, A.R.**, 1999. Cadmium resistant *Enterobacter cloacae* and *Klebsiella sp.* isolated from industrial effluents and their possible role in cadmium detoxification. *World J. Microbiol. Biotechnol. (U.K)*, **15**: 249-254.
249. ASMATULLAH, LATIF, A.A. AND **SHAKOORI, A.R.**, 1999. Effect of hexavalent chromium on egg laying capacity, hatchability of eggs, thickness of egg shell and post hatching development of *Gallus domesticus*. *Asian Australasian J. Anim. Sci. (Korea)*, **12**: 944-950..
250. **SHAKOORI, A.R.**, NAWAZ, M., ALI, S.S. AND HAQ, R.U. 1999. A pesticide degrading bacterium isolated from soil samples and its possible use in environmental decontamination. *Proc. Pakistan Acad. Sci.*, **36**: 5-10.
251. ALI, S.S. AND **SHAKOORI, A.R.** 1999. Hepatotoxicity of lindane (Gamma HCH) in albino rats: Short and long term studies. *Pakistan J. Zool.*, **31**: 175-185.
252. ALI, S.S. AND **SHAKOORI, A.R.**, 1999. Effects of oral administration of DDT on the blood of albino rats. *Pakistan J. Zool.*, **31**: 1-9.
253. DAR, N. AND **SHAKOORI, A.R.**, 1999. Chromium tolerant yeast strains isolated from industrial effluents and their possible use in environmental clean-up. *Bull. Environm. Contam. Toxicol. (USA)*, **63**:744-750..
254. MUIZZUDDIN, N., **SHAKOORI, A.R.** AND MARENUS, K.D. 1999. Effect of antioxidants and free scavengers on protection of human skin against UV-B, UV-A and IR irradiations. *Skin Res. Technol. (USA)*, **5**: 260-265.
255. **SHAKOORI, A.R.**, AFROZ, S., AND KHURSHED, N., 1999. Isolation and characterization of *Bacillus* spp. from soil samples and their evaluation as bioinsecticides against the house fly, *Musca domestica*. *Insect Sci. Its Applicat. (Kenya)*, **18**:301-306.
256. **SHAKOORI, A.R.**, ANWAR, S., KHURSHED, N. AND HAQ, R.U. 1999. Biocidal activity of *Bacillus* species isolated from soil for *Anopheles* larvae. *Folia biologica. (Praha)*, **47**:143-148.
257. **SHAKOORI, A.R.**, IFTIKHAR, N. AND KHURSHED, N., 1999. Evaluation of different species of *Bacillus* isolated from soil samples as bioinsecticides against housefly, *Musca domestica*. *Pakistan J. Zool.*, **31**: 379-383.
258. SHAKOORI, F.R., RAFIQUE, H., QURESHI, F., ALI, S.S. AND **SHAKOORI, A.R.**, 1999. Degradation of organochlorine insecticide, Endosulfan, in polluted soil through bacteria. *Proc. Pakistan Congr. Zool.*, **19**: 283-298.
259. **SHAKOORI, A.R.** AND ZAHRA, B., 1999. Hydrocarbon degrading bacteria isolated from soil samples and industrial effluents and their potential use in environmental clean up. *Proc. Pakistan Congr. Zool.*, **19**: 309--338.
260. ALI, S.S., SAMAD, Z. AND **SHAKOORI, A.R.**, 1999. Isolation and characterization of pentachlorophenol degrading bacteria from industrial wastes. *Punjab Univ. J. Zool.*, **14**: 127-139.
261. DRISSI, H., LUC, Q., **SHAKOORI, A.R.**, LOPES, S.C.D.S., CHOI, J.Y., TERRY, A., HU, M., JONES, S., NEIL, J.C., LIAN, J.B., STEIN, J.L., VAN WIJNEN, A. J., AND STEIN, G.S., 2000., Transcriptional autoregulation of the bone related CBFA1/RUNX2 gene. *J. Cell. Physiol. (USA)*, **184**:341-350.
262. **SHAKOORI, A.R.**, JAMIL, R. AND NASIM, A., 2000. Insecticide degrading yeast strains isolated from industrial effluents. *Pakistan J. Zool.*, **32**: 1-10.
263. SALEEM, M.A., **SHAKOORI, A.R.**, WILKINS, R.M. AND MANTLE, D., 2000. *In vitro* effects of deltamethrin, pirimiphos-methyl and gamma-HCH on proteases in insecticides resistant and susceptible strains of *Tribolium castaneum*. *Pakistan J. Zool.*, **32**: 53-60.
264. **SHAKOORI, A.R.**, JABEEN, S., SHAKOORI, F. R., DAR, N., HAQ, R.U. AND NASIM, A., 2000. Cadmium resistant yeast from industrial effluents: Role in environmental clean up. *Proc. Pakistan Acad. Sci.*, **37**: 151-163.
265. **SHAKOORI, A.R.** MAKHDOOM, M. AND HAQ, R.U. 2000. Hexavalent chromium reduction by a dichromate resistant Gram positive bacterium isolated from effluents of tanneries. *Appl. Microbiol. Biotech. (Germany)*, **53**:348-351.
266. SALEEM, M.A., **SHAKOORI, A.R.**, WILKINS, R.M., AND MANTLE, D., 2000. *In vivo* effects of deltamethrin, pirimiphos methyl and gamma HCH on proteases in insecticide-resistant and susceptible strains of *Tribolium castaneum*. *Pakistan J. Zool.*, **32**: 53-59.
267. SALEEM, M.A. AND **SHAKOORI, A.R.**, 2000. Synergistic effects of diflubenzuron and permethrin on some macromolecules of *Tribolium castaneum* larvae. *Pakistan J. Zool.*, **32**:165-178.
268. **SHAKOORI, A.R.** AND QURESHI, F., 2000. Cadmium resistant bacteria from industrial effluents and their role in environmental cleanup. *Pakistan J. Zool.*, **32**: 165-178.
269. MUJEEB, K.A. AND **SHAKOORI, A.R.**, 2000. Toxicity of an organophosphate Actellic 50EC (Pirimiphos Methyl) against different developmental stages of three strains of *Tribolium castaneum*. *Pakistan J. Zool.*, **32**: 263-266.
270. RIZVI, A.R. AND **SHAKOORI, A.R.**, 2000. Effect of aflatoxin B1 feeding on liver function in broiler chicken. *Pakistan J. Agric. Res.*, **16**: 72-75.
271. HAQ, R. AND **SHAKOORI, A.R.**, 2000. Microorganisms resistant to heavy metals and toxic chemicals as indicators of environmental pollution and their use in bioremediation. *Folia biol. (Krakow)*, **48**: 143-147..
272. SALEEM, M.A. AND **SHAKOORI, A.R.**, 2000. Effects of mixture of diflubenzuron and cypermethrin on *Tribolium castaneum* larvae. *Pakistan J. Zool.*, **32**:289-299.
273. MUJEEB, K.A., RAHI, M.S. AND **SHAKOORI, A.R.**, 2000. Toxicity of synthetic pyrethroids, Talstar 10EC and K-Othrine 25WP, and mixture of an organophosphorus and synthetic pyrethroid, Pro-Store 420EC to adult beetles of Pakistan strain of *Tribolium castaneum* (Herbst). *Pakistan J. Zool.*, **32**: 285-288.

274. HAQ, R.U., REHMAN, A. AND **SHAKOORI, A.R.**, 2000. Effect of dichromate on population and growth of various protozoans isolated from industrial effluents. *Folia Microbiol. (Praha)*, **45(3)**: 275-278.
275. ALI, S.S., HUSSAIN, A. AND **SHAKOORI, A.R.**, 2000. Haematological effects of hexavalent chromium on freshwater teleost, *Oreochromis mossambicus*. *J. Ecotoxicol. Environ. Monit.*, **10**: 3-10.
276. ALI, S.S., ALI, N. S., RASHID, S. AND **SHAKOORI, A.R.**, 2000. Toxicity of Baythroid TM: Haematological effects in growing chicks of *Gallus domesticus*. *Punjab Univ. J. Zool.*, **15**: 151-160.
277. **SHAKOORI, A.R.**, MUJEEB, K.A., MAQBOOL, S. AND ALI, S.S., 2000. Studies on esterases of adult beetles of lesser grain borer, *Rhyzopertha dominica*, collected from different godowns in Punjab and Karachi, Pakistan. *Insect Sci Its Appl. (Kenya)*, **20**: 207-213.
278. BASHIR, S., MAHBOOB, S., IKRAM, A., NADEEM, S. AND **SHAKOORI, A.R.**, 2000. Studies on the optimization of fermentation conditions for better amino acid production. *Proc. Pakistan Congr. Zool.*, **20**: 1-16.
279. **SHAKOORI, A.R.**, CHOUDHARY, A., AND ALI, S.S., 2000. Carbonsulfan (a carbanmate) and quinalphose (an organophosphate) degrading bacteria isolated from insecticide contaminated soil and industrial effluents have potential to clean up the environment. *Proc. Pakistan Congr. Zool.*, **20**: 199-222.
280. **SHAKOORI, A.R.** AND FAROOQ, H., 2000. Mercury resistant yeast and its possible use in bioremediation of industrial waste water. *Proc. Pakistan Congr. Zool.*, **20**: 243-260.
281. **SHAKOORI, A.R.**, JABEEN, N., MUJEEB, K A., SHAKOORI, F.A. AND ALI, S.S., 2000. Lead resistant yeast strains isolated from industrial effluents of tanneries and their utilization in waste water treatment. *Proc. Pakistan Congr. Zool.*, **20**: 285-303.
282. NAHEED, M., SHAMIM ,M., RAZA, T.A., TAYYAB, M., MUGHAL, M.I., HUSSAIN, T. AND **SHAKOORI, A.,R.**, 2000. AgNORs staining in normal albino rat testes. *Medical Forum Monthly*, **11**: 1-4.
283. NAHEED, M., SHAMIM ,M., RAZA, T.A., TAYYAB, M., MUGHAL, M.I., HUSSAIN, T. AND **SHAKOORI, A.,R.**, 2000. Nucleolar Organizing Regions (NORs) in spermatogenic cycle of normal human testes. *Medical Forum Monthly*, **11**: 11-13.
284. SALEEM, M.A., AND **SHAKOORI, A.R.**, 2000. Synergistic effects of permethrin and cypermethrin on the toxicity of gamma HCH I. Studies on some..... *Pakistan Entmol.*
285. SALEEM, M.A., AND **SHAKOORI, A.R.**, 2000. Synergistic effects of permethrin and cypermethrin on the toxicity of gamma HCH II. Studies on some..... *Pakistan Entmol*
286. MUNEER, B., LATIF, Q., AHMAD, K., ALI, S.S. AND **SHAKOORI, A.R.**, 2001. Microbiological assessment of drinking water supply in University of the Punjab. *Pakistan J. Zool.*, **33**: 61-68.
287. IKRAM, A., NADEEM, S., BASHIR, S., MAHBOOB, S. AND **SHAKOORI, A.R.**, 2001. Improvement of *Escherichia coli* isolate for better l-lysine production through MNNG treatment. *Pakistan J. Zool.*, **33**: 82-85.
288. REHMAN, A. AND **SHAKOORI, A.R.**, 2001. Heavy metal resistant *Chlorella* spp., isolated from tannery effluents, their role in remediation of hexavalent chromium in industrial waste water. *Bull. Environ. Contam. Toxicol. (USA)*, **66** (4) 542-547.
289. HAQ, R.U., REHMAN, A. AND **SHAKOORI A.R.**, 2001. Survival, culturing adaptation and metal resistance of various rotifers and a gastrotrich (minor phyla) isolated from heavily polluted industrial effluent. *Pakistan J. Zool.*, **33**: 247-253.
290. **SHAKOORI, A.R.**, MUNIR, S., MUJEEB, K.A. AND SHAKOORI, F.R., 2001. Hydrocarbon degrading bacteria isolated from industrial effluents, as potential bioremediator of industrial wastewater. *Proc. Pakistan Acad. Sci.*, **38**: 97-110.
291. MAHBOOB, S., SHERI, A.N., **SHAKOORI, A.R.**, RAZA, S.H. AND ANDLEEB, S., 2001. Effect of nitrate and nitrite pollution on some haematological parameters of rabbits. *Pakistan J. Agric. Sci.*, **38**: 44-46.
292. AHMAD, B. AND **SHAKOORI, A.R.**, 2001. Isolation and characterization of R-plasmid from antibiotic resistant clinical isolates of *Shigella* species. *Pakistan J. Zool.*, **33**: 99-104.
293. KAZMI, F., HAFEEZ, M.A. AND **SHAKOORI, A.R.**, 2001. Toxicity of a sublethal dose of the organophosphate, chlorpyrifos, in Sparague-Dawley rats; Biochemical and morpho-histopathological effects on liver following short term exposure. *Proc. Pakistan Acad. Sci.* **38**: 31-40.
294. SHAKOORI, F.R. AND **SHAKOORI A.R.**, 2001. Danitol induced retarded body growth and haematological and biochemical abnormalities in the Chicks of *Gallus domesticus*. *Pakistan J. Zool.*, **33**: 323-332.
295. SALEEM, M.A., ASHFAQ, M., ALI S.S., HUSSAIN, R. AND **SHAKOORI, A.R.**, 2001. Effect of permethrin and cypermethrin on the toxicity of Gamma-HCH II. Studies on some biochemical components of adult beetles of *T. castaneum*. *Pakistan J. Zool.*, **33**: 333-340.
296. REHMAN, A. AND **SHAKOORI, A.R.**, 2001. Accumulation and reduction of hexavalent chromium by *Suaeda fruticosa* and *Trianthema mongyna*. *Pakistan J. Zool.*, **33**: 341-342.
297. ALI, S.S., MUJEEB, K A., SALEEM, M. A., RASHID, S. AND **SHAKOORI, A.R.**, 2001. Toxicity of Baythroid on various biochemical components of blood in growing chicks of *Gallus domesticus*. *Punjab Univ. J. Zool.*, **16**: 115-125.
298. MAHBOOB, S., REHMAN, K.U. AND **SHAKOORI, A.R.**, 2001. Some pathological changes in rabbits associated with nitrate and nitrite pollution. *Punjab Univ. J. Zool.*, **16**: 23-26.
299. SALEEM, M.A., ALI, S.S., ASHFAQ, M., HUSSAIN, R. AND **SHAKOORI A.R.**, 2001. Synergistic effects of permethrin and cypermethrin on the toxicity of gamma HCH: I. Studies on some enzymes of adult *Tribolium castaneum* (Herbst.). *Punjab Univ. J. Zool.*, **16**: 9-22.
300. NADEEM, S., IKRAM, A., RANA, S.M., YAQOUB, N., QURESHI, M.J. AND **SHAKOORI, A.R.**, 2001. Enhanced l-lysine production by an *Escherichia coli* mutant WARN 30522 after MNNG treatment. *Int. J. Agric. Biol.*, **3**: 448-450.

301. SALEEM, M.A., ALI, S.S., ASHFAQ, M., HUSSAIN, R. AND **SHAKOORI, A.R.**, 2001. Synergistic effects of permethrin and cypermethrin on the toxicity of gamma HCH. I. Studies on some enzymes of adult *Tribolium castaneum*. *Punjab Univ. J. Zool.*, **16**: 9-22.
302. MAHBOOB, S., REHMAN, K.U. AND **SHAKOORI, A.R.**, 2001. Some pathological changes in rabbits associate with nitrate and nitrite pollution. *Punjab Univ. J. Zool.*, **16**: 23-26.
303. ALI, S.S., MUJEEB, K.A., SALEEM, M. A., RASHID, S. AND **SHAKOORI, A.R.**, 2001. Toxicity of Baythroid on various biochemical components of blood in growing chicks of *Gallus domesticus*. *Punjab Univ. J. Zool.*, **16**: 115-126.
304. **SHAKOORI, A.R.**, JAVED, S., KHURSHID, N. AND REHMAN, A., 2001. Seasonal variation in chromium-resistant bacterial population in industrial effluents. *Proc. Pakistan Congr. Zool.*, **21**: 23-52.
305. **SHAKOORI, A.R.**, QURESHI, A.T. AND SAQIB, Z.A., 2001. Endosulfan degrading yeast from food industry effluents and their role in environmental clean up. *Proc. Pakistan Congr. Zool.*, **21**: 69-94.
306. HAQ, R.U., AFSHAN, A., SHAKOORI, F. AND **SHAKOORI, A.R.**, 2001. Dichromate resistant yeasts isolated from industrial waste water and their role in bioremediation of heavy metals. *Proc. Pakistan Congr. Zool.*, **21**:181-226.
307. SHAKOORI, F.R., RAFIQ, A., KHAWAJA, K. AND **SHAKOORI, A.R.**, 2001. Zinc resistant bacterias from industrial effluents and their role in environmental clean up. *Proc. Pakistan Congr. Zool.*, **21**:101-122.
308. HAQ, R., AFSHAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2001. Dichromate resistant yeasts isolated from industrial waste water and their role in bioremediation of heavy metals. *Proc. Pakistan Congr. Zool.*, **21**:181-226.
309. **SHAKOORI, A.R.** AND MUNEER, B., 2002. Copper resistant bacteria from industrial effluents and their role in remediation of heavy metals in waste water. *Folia Microbiologica*, **47**: 43-50.
310. AHMED, K. AND **SHAKOORI, A.R.**, 2002. *Vibrio cholerae* AI Tor, Ogawa 01 as the main etiological agent of the two major outbreaks of gastroenteritis in the northern areas of Pakistan. *Paistan J. Zool.*, **34**: 73-79.
311. AHMED, K. AND **SHAKOORI, A.R.**, 2002. *Vibrio cholerae* AI Tor, Ogawa 01 as the main etiological agent of the two major outbreaks of gastroenteritis in the northern areas of Pakistan. *J. Hlth. Popul. Nutr.*, **20**: 96-97.
312. AHMAD, I., HOESSLI, D.C., CHOUDHARY, M.I., HUSSAIN, S.A., IKRAM, M.A., WALKER-NASIR, E., KHURSHID, A., SALEEM, M.A., **SHAKOORI, A.R.** AND NASIR-UD-DIN, 2002. Mammalian lectins – A review. *Pakistan J. Zool.*, **34**: 81-100.
313. NADEEM, S.A., MAHBOOB, R.S. AND **SHAKOORI, A.R.**, 2002. Characterization and media optimization for improved l-lysine production by a mutant, WARN 30522. *Pakistan J. Zool.*, **34**: 113-118.
314. AHMAD, I., HOESSLI, D.C., CHOUDHARY, M.I., KHURSHID, A., SALEEM, M., HUSSAIN, S.A., **SHAKOORI, A.R.** AND NASIR-UD-DIN, 2002. Selectins: Cell-Cell adhesion molecules (A-review). *Proc. Pakistan Acad. Sci.*, **39**: 97-114.
315. **SHAKOORI, A.R.**, SARWAR, S. AND DAR, N., 2002. Cadmium resistant yeast strains isolated from industrial waste water and their possible role in bioremediation. *Pakistan J. Zool.*, **34**: 247-256.
316. KAZMI, F., HAFEEZ, M.A. AND **SHAKOORI, A.R.**, 2002. The organophosphate, chlorpyrifos, long term toxic effect on the biochemistry and morphology of liver in Sprague-Dawley rat. *Proc. Pakistan Acad. Sci.*, **39**: 241-250.
317. RIAZ, S. AND **SHAKOORI, A.R.**, 2002. Effect of media composition on the production of amino acids through microbial fermentation by utilizing agricultural wastes. *Pakistan J. Zool.*, **34**: 325-330.
318. **SHAKOORI, A.R.**, KHALID, N. AND SATTAR, S., 2002. Cadmium resistant bacteria from industrial wastewater and their use as bioremediator. *Pakistan J. Zool.*, **34**: 265-278.
319. AHMAD, I., HOESSLI, D.C., SALEEM, M., SAEED, Z., **SHAKOORI, A.R.** AND NASIR-UD-DIN, 2002. Integrins: Cell-cell and cell-matrix adhesion molecules – A review. *Pakistan J. Zool.*, **34**: 339-358.
320. **SHAKOORI, A.R.**, MAHJABEEN, G., RAHILA, K., ANJUM, F. AND ALI, S.S., 2002. Effect of mercuric chloride on liver function tests during regeneration following partial hepatectomy in rabbits. *Proc. Pakistan Congr. Zool.*, **22**: 145-156.
321. Gill, N. AND **SHAKOORI, A.R.**, 2002. Effect of thyroxine (T4) on extensor digitorum longus muscle in Sprague Dawley rats. *Proc. Pakistan Congr. Zool.*, **22**:157-174.
322. GILL, N. AND **SHAKOORI, A.R.**, 2002. Regeneration following transplantation of free plantaris muscle in rabbits, *Oryctolagus cuniculus*. *Proc. Pakistan Congr. Zool.*, **22**:193-203.
323. SHAFIQUE, M. AND **SHAKOORI, A.R.**, 2002. Prevalence of hydropericardium syndrome in poultry in Punjab, Pakistan. *Proc. Pakistan Congr. Zool.*, **22**:183-192.
324. FAROOQ, H. AND **SHAKOORI, A.R.**, 2002. Evidences for evolution of man independent of other primates: Basis for a new classification. *Proc. Pakistan Congr. Zool.*, **22**: 1-20.
325. SHAKOORI, F.R., CHODARY, F.S. AND **SHAKOORI, A.R.**, 2002. Effect of pH on growth and precipitation of lead-resistant bacteria – a strategy for removal of bacteria from the wastewater after heavy metal uptake. *Proc. Pakistan Congr. Zool.*, **22**: 205-221.
326. SALEEM, M.A., ASHFAQ, M., HUSSAIN, R. AND **SHAKOORI, A.R.**, 2002. Some macromolecular abnormalities developed by interaction of malathion+cypermethrin in *Truibloim castaneum* (Herbst) larvae. *Univ. J. Zool. Rajshahi Univ.*, **21**:9-11.
327. AHMED, K., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2003. Incidence of gastroenteritis infections in children of under 5 year of age in Northern Areas, Pakistan. *Pakistan J. Zool.*, **35**(1): 1-8.

328. WALKER-NASIR, E., AHMED, I., HOESSLI, D. C., SAEED, Z., **SHAKOORI, A.R.** AND NASIR-UD-DIN, 2003. Sialic acid in health and diseases. *Pakistan J. Zool.*, **35**(1): 51-67..
329. AHMED, K., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2003. Aetiology of shigellosis in northern Pakistan. *J. Hlth. Popul. Nutr.*, **21**(1):32-39.
330. AHMAD, I., KHURSHID, A., WALKER-NASIR, E., HOESSLI, D.C., OVAIS, M., SALEEM, M., **SHAKOORI, A.R.**, AND NASIR UD DIN, 2003. Artificial neural networks and protein modification predictions: glycosylation in mammalian proteins. *Pakistan J. Zool.*, **35**: 139-149.
331. ALI, S.N., MUNIR, M., ALI, S.S. AND **SHAKOORI, A.R.**, 2003. Efficacy of mixtures of an organophosphate malathion and a synthetic pyrethroid, talstar against lesser grain borer, *Rhyzopertha dominica*. *Pakistan J. Zool.*, **35**: 163-167..
332. KAZMI, F., **SHAKOORI, A. R.**, HAFEEZ, M.A., AND ALI, S.S., 2003. Long term effects of chlorpyrifos on haematology and blood biochemistry of the Sprague Dawley rat. *Proc. Pakistan Acad. Sci.*, **40**: 53-60.
333. SALEEM, M.A., WILKINS, R.M., MANTLE, D. AND **SHAKOORI, A.R.**, 2003. Effect of starvation on proteases in insecticide-resistant and susceptible strains of *Tribolium castaneum*. *Pakistan J. Zool.*, **35**: 197-204.
334. AHMAD, I., KHURSHID, A., WALKER-NASIR, E., HOESSLI, D.C., KHAN, A.B., HUSSAIN, S.A., OVAIS, M., **SHAKOORI, A.R.** AND NASIR UD DIN, 2003. Protein modification predictions: interplay between phosphorylation and glycosylation in mammalian proteins. *Pakistan J. Zool.*, **35**: 221-230.
335. KAZMI, F., **SHAKOORI, A.R.**, HAFEEZ, M.A. AND ALI, S.S., 2003. Short term effects of chlorpyrifos on hematology and biochemical components of blood of the Sprague Dawley rat. *Pakistan J. Zool.*, **35**: 237-244.
336. **SHAKOORI, A.R.**, SATTAR, S. AND KHALID, N. 2003. Zinc resistant bacteria from industrial wastewater and their use as bioremediator. *Pakistan J. Zool.*, **35**: 245-257.
337. KHURSHID, A., AHMED, I., OVAIS, M., WALKER-NASIR, E., **SHAKOORI, A.R.** AND NASIR UD DIN., 2003. Identification and characterization of predicted glycosylation in selectins using microarrays. *Pakistan J. Zool.*, **35**: 259-262.
338. SHAKOORI, F.R., KHAWAJA, K., RAFIQ, A., AND **SHAKOORI, A.R.**, 2003. Nickel resistant bacteria isolated from industrial effluents and their role in bioremediation. *Proc. Pakistan Acad. Sci.*, **40**: 1-14.
339. SALEEM, M.S. WILKINS, R.M., MANTLE, D., AHMAD, S. AND **SHAKOORI, A.R.**, 2003. Effect of starvation on proteases in insecticides-resistant and susceptible strains of *Musca domestica*. *Pakistan J. Zool.*, **35**: 311-318.
340. AHMAD, I., WALKER-NASIR, E., HOESSLI, D.C., KHURSHID, A., **SHAKOORI, A.R.** AND NASIR UD DIN, 2003. Control of platelet aggregation based on post-translational modifications of the cytoplasmic domain of alpha Iib beta-3 platelet integrin. *Pakistan J. Zool.*, **35**: 329-336.
341. REHMAN, A. AND **SHAKOORI, A.R.**, 2003. Isolation, growth, metal tolerance and metal uptake of the green alga, *Chlamydomonas* (Chlorophyta) and its role in bioremediation of heavy metals.. *Pakistan J. Zool.*, **35**: 337-342.
342. WALKER-NASIR, E., AHMAD, I., HOESSLI, D.C., **SHAKOORI, A.R.** AND NASIR UD DIN, 2003. Mucin glycoproteins. *Proc. Pakistan Acad. Sci.*, **40**: 205-232.
343. SHER, F., **SHAKOORI, A.R.**, AND ALI, S.S., 2003. Toxicity of phosphine against 4th instar larvae of *Trogoderma granarium* collected from different godowns. *Proc. Pakistan Congr Zool.*, **23**: 67-76.
344. SHAKOORI, F.R., ALI, N.M., MUGHAL, M.S. AND **SHAKOORI, A.R.**, 2003. Microbiological analysis of honey of *Apis mellifera*. *Proc. Pakistan Congr Zool.*, **23**: 237-242.
345. **SHAKOORI, A.R.**, KAUSAR, N. AND LONE, K.P., 2003. Effect of single dose of dimethazine on regeneration of partially hepatectomized rabbit liver. *Proc. Pakistan Congr Zool.*, **23**: 243-270.
346. ANWAR, K.K., ALI, S.S. AND **SHAKOORI, A.R.**, 2004. Effect of a single sublethal dose of permethrin on the biochemical components of developing muscles in chick embryo. *Pakistan J. Zool.*, **36**: 7-12.
347. ANWAR, K.K., ALI, S.S. AND **SHAKOORI, A.R.**, 2004. Effect of a single sublethal dose of permethrin on the development of liver in chick embryo. *Pakistan J. Zool.*, **36**: 59-68.
348. AHMAD, I., OVAIS, M., FAYYAZUDDIN, CHAUDHRY, M.I., **SHAKOORI, A.R.** AND NASIRUDDIN, 2004. Prediction of the role of post-translational modifications in processing of transforming growth factor β 1 in *Mus musculus*. *Pakistan J. Zool.*, **36**: 85-88.
349. QAMER, S. AND **SHAKOORI, A.R.**, 2004. Increased hydroxymethylfurfural and decreased diastase activity as indicators of degradation of quality of honey. *Pakistan J. Zool.*, **36**: 165-167.
350. **SHAKOORI, A.R.**, REHMAN, A. AND HAQ, R.U., 2004. Multiple metal resistance in the ciliate *Vorticella microstoma*, isolated from industrial effluents and its potential in bioremediation of toxic waste. *Bull. environ. Contam. Toxicol.*, **72**: 1046-1051.
351. **SHAKOORI, A.R.**, ISMAIL, S., ZULFIQAR, S. AND MUJEEB, K.A., 2004. Effect of α Cypermethrin on esterases of 6th instar larvae and 10 days old adults of three different strains of *Tribolium castaneum*. *Pakistan J. Zool.*, **36**: 173-188.
352. AHMAD, I., HOESSLI, D.C., WALKER-NASIR, E., KHURSHID, A., RAFIK, S.M., **SHAKOORI, A.R.** AND NASIR-UD-DIN, 2004. Protein modification and functional implications for Oct-4 in human stem cells. *Pakistan J. Zool.*, **36**: 211-218.
353. SALEEM, M.A., WILKINS, R.M., MANTLE, D. AND **SHAKOORI, A.R.**, 2004. *In vivo* effects of cyfluthrin on proteolytic enzyme activities of malathion-resistant and susceptible strains of *Tribolium castaneum*. *Pakistan J. Zool.*, **36**: 239-246.
354. **SHAKOORI, A.R.**, AHMED, I., KHURSHID, A., AND NASIRUDDIN, 2004. Possible functional role of selectins: Prediction based on post-translational modification sites. Proceedings of two day seminar on "Bioinformatics, Information Technology and Biostatistics" (ed. M. Ahmad), pp. 1-12, organized by Islamic Society of Statistical

- Sciences, held at National College of Business Administration & Economics, Lahore, Pakistan on December 27-28, 2003.
355. NASIRUDDIN, AHMAD, I., KHURSHID, A., WALKER-NASIR, E., FAYYAZUDDIN, AND **SHAKOORI, A.R.**, 2004. Evolving new concepts in pursuit of expanding vision: Bioinformatics as a source of new approaches – combinatorial metabolism in *Plasmodium falciparum*. Proceedings of two day seminar on “*Bioinformatics, Information Technology and Biostatistics*” (ed. M. Ahmad), pp. 13-29, organized by Islamic Society of Statistical Sciences, held at National College of Business Administration & Economics, Lahore, Pakistan on December 27-28, 2003.
356. KHURSHID, A., AHMAD, I., FAYYAZUDDIN, **SHAKOORI, A.R.** AND NASIRUDDIN, 2004. Bioinformatics current development: A tool for biologists. . Prococeedings of two day seminar on “*Bioinformatics, Information Technology and Biostatistics*” (ed. M. Ahmad), pp. 31-42, organized by Islamic Society of Statistycal Sciences, held at National College of Business Administration & Economics, Lahore, Pakistan on December 27-28, 2003.
357. AHMAD, I., KHURSHID, A., FAYYAZUDDIN, NASIRUDDIN AND **SHAKOORI, A.R.**, 2004. Predicting the role by post-translational modification in functional control of integrins as model and integrin mediated drug targeting- an application of bioinformatics. . Prococeedings of two day seminar on “*Bioinformatics, Information Technology and Biostatistics*” (ed. M. Ahmad), pp. 43-57, organized by Islamic Society of Statistical Sciences, held at National College of Business Administration & Economics, Lahore, Pakistan on December 27-28, 2003.
358. SHER, F., ALI, S.S. AND **SHAKOORI, A.R.**, 2004. Phosphine-induced changes in various esterase levels in 4th instar larvae of *Trogoderma granarium*. *Pakistan J. Zool.*, **36**: 257-260.
359. REHMAN, A. AND **SHAKOORI, A.R.**, 2004. Tolerance and uptake of cadmium and nickel by *Cholrella* sp isolated from tannery effluents. *Pakistan J. Zool.*, **36**: 327-332.
360. AHMAD, I., WALKER-NASIR, E., **SHAKOORI, A.R.**, SALEEM, M., RAFIK, M.S., HUSSAIN, S.A. AND NASIR-UD-DIN, 2004. Interplay of glycosylation and phosphorylation in murine Oct-2 regulates its POU domain binding. *Pakistan J. Zool.*, **36**: 333-338.
361. **SHAKOORI, A.R.**, BIBI, S., ALI, S.S. AND LONE, K.P., 2004. Effect of anabolic steroid, dimethazine, on the hepatic enzymes of regenerating liver in the partially hepatectomized rabbits. *Proc. Pakistan Congr. Zool.*, **24**: 1-18.
362. AHSAN, M.M. AND **SHAKOORI, A.R.**, 2004. Biochemical and haematological abnormalities in human population exposed to hexavalent chromium in in effluents of tanneries in industrial area of Kasur District. *Proc. Pakistan Congr. Zool.*, **24**: 213-236.
- Total IF for 2004**
363. RAZA, M., CHAUDHRY, B. AND **SHAKOORI, A.R.**, 2005. Effect of diabetes on the blood sugar, cholesterol, triglycerides, and creatinine level of normal, overweight, and obese subjects. *Proc. Pakistan Congr. Zool.*, **25**: 99-112.
364. ASHRAF, S., BUKHARI, D.A., QUREISHI, Z.A., AND **SHAKOORI, A.R.**, 2005. PCR based identification of *Pasteurella multocida* serotype B that causes haemorrhagic septicaemia in cattle and buffaloes of Pakistan. *Proc. Pakistan Congr. Zool.*, **25**: 113-121.
365. QAMAR, S., MUZAFFAR, N., ALI, S.S. AND **SHAKOORI, A.R.**, 2005. Physicochemical analysis of Pakistani unifloral honey from different nectar sources. *Proc. Pakistan Congr. Zool.*, **25**: 123-130.
366. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2005. Toxicity and uptake of chromium and lead in protozoa – A review. *Proc. Pakistan Congr. Zool.*, **25**: 163-178.
367. SAQIB, Z.A. AND **SHAKOORI, A.R.**, 2005. Insecticide tolerant bacteria as bioremediators of endosulphan and heptachlor contaminated soil – A review. *Proc. Pakistan Congr. Zool.*, **25**: 179-216.
368. **SHAKOORI, A.R.**, HUMA, Z., DAR, N. AND ALI, S.S., 2005. Lead resistant yeast from industrial wastewater capable of decontaminating it of heavy metals. *Pakistan J. Zool.*, **37**: 1-12.
369. AHMED, K., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2005. Etiology of Salmonellosis in Northern Areas of Pakistan. *J. Hlth. Popul. Develop. Count.*, URL: <http://www.jhpd.unc.edu/pp.> 1-13. Published 17 March 2005.
370. REHMAN, A., ASHRAF, S., QAZI, J.I. AND **SHAKOORI, A.R.**, 2005. Uptake of lead by a ciliate, *Stylonychia mytilus*, isolate from industrial effluents: Poitential use in bioremediation of wastewater. *Bull. Environ. Contam. Toxicol. USA*, **75**: 290-296.
371. AHMAD, I., HOESSLI, D.C., WALKER-NASIR, E., FAYYAZ-UD-DIN, **SHAKOORI, A.R.**, AND NASIR-UD-DIN, 2005. Recognition of protease binding site in bovine pancreatic RNase B: Role of Thr45 modification by O-GlcNAc, phosphate and their interplay. *Pakistan J. Zool.*, **37**: 81-86.
372. ABBAS, N. AND **SHAKOORI, A.R.**, 2005. The cloning of PreS gene from Pakistanian isolates of hepatiutis B virus into a high expression vector pKK-2323-3. *Pakistan J. Zool.*, **37**: 165- 186.
373. SHAKOORI, F.R., SHAHZAD, M., BUKHARI, D.A. AND **SHAKOORI, A.R.**, 2005. Silver resistant yeast strains isolated from industrial waste water and their abiolity to uptake silver from the medium. *Pakistan J. Zool.*, **37**: 221-228.
374. KHURSHEED, N. AND **SHAKOORI, A.R.**, 2005. Characterization of locally isolated strains of *Bacillus thuringiensis* and their evaluation as potential biocides against house fly *Musca domestica*. *Pakistan J. Zool.*, **37**: 249-255.
375. AHMAD, I., HOESSLI, D.C., WALKER-NASIR, E., QAZI, W.M., **SHAKOORI, A.R.**, AND NASIR-UD-DIN, 2005. Prediction of Tyr residues oinvolved in autophosphorylationm of FLT3 positive leukemias. *Pakistan J. Zool.*, **37**: 289-292.
376. **SHAKOORI, A.R.**, AHMAD, I. AND NASIRDUDIN, 2005. *In vivo* protein –structure function. Proceedings of the 8th Islamic Countries Conference on Statistdcal Sciences (ed. M. Ahmad), volume 13, pp. 435-439. Islamic Countries Society of Statistical Sciences, December 19-22, 2005, held in Lahore, Pakistan.

377. AHMAD, I., WALKER-NASIR, E., QAZI, W.M., HOESSLI, D.C., **SHAKOORI, A.R.** AND NASIRDUDIN, 2005. Regulation of Oct-2 binding and activation: Interplay of phosphorylation and glycosylation. Proceedings of the 8th Islamic Countries Conference on Statistical Sciences (ed. M. Ahmad), volume 13, pp. 447-452. Islamic Countries Society of Statistical Sciences, December 19-22, 2005, held in Lahore, Pakistan.
- Total IF for 2005**
378. AHMAD, I., HOESSLI, D.C., WALKER-NASIR, E., RAFIK, S.M., **SHAKOORI, A.R.**, AND NASIR-UD-DIN, 2006. Oct-2 DNA binding transcription factor: functional consequences of phosphorylation and glycosylation. *Nucleic Acids Res.*, **34**: 175-184.
379. QAZI, W.M., AHMED, M., HOESSLI, D.C., AHMAD, I., KHAWAJA, I., WAJAHAT, T., KALEEM, A., WALKER-NASIR, E., RAHMAN, N., **SHAKOORI, A.R.** AND NASIRUDDIN, 2006. Consensus sequences as targets for phosphorylation of amino acids in phosphoproteins: statistical computing analysis. *Pakistan J. Zool.*, **38**: 55-63.
380. AHMAD, I., HOESSLI, D.C., WALKER-NASIR, E., CHOUDHARY, M.I., RAFIK, S.M., **SHAKOORI, A.R.**, AND NASIR-UD-DIN, 2006. Phosphorylation and glycosylation interplay: Protein modifications at hydroxyamino acids and prediction of signaling functions of the human $\beta 3$ integrin family. *J. Cell. Biochem.*, (Published on line in April, 2006), **99(3)**:706-718.
381. REHMAN A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2006. Heavy metal resistant ciliate, *Euplotes mutabilis*, isolated from industrial effluents can decontaminate wastewater of heavy metals. *Bull. Environ. Contam. Toxicol.*, **76**: 907-913.
382. WAJAHAT, T., KALEEM, A., AHMAD, I., HOESSLI, D.C., WALKER-NASIR, E., QAZI, W.M., SALEEM, M., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2006. Mammalian epidermal growth factor receptor. Role of phosphorylation and glycosylation. *Pakistan J. Zool.*, **38**: 85-92.
383. KALEEM, A., AHMAD, I., WAJAHAT, T., HOESSLI, D.C., WALKER-NASIR, E., HUSSAIN, S.A., QAZI, W.M., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2006. Somatic cell cycle regulation by histone H3 modifications: action of OGT and kinases. *Pakistan J. Zool.*, **38**: 137-144.
384. AHSAN, M.M., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2006. Biochemical and haematological abnormalities in factory workers exposed to hexavalent chromium in tanneries of Kasur District. *Pakistan J. Zool.*, **38**: 239-253.
385. AHSAN, M.M. AND **SHAKOORI, A.R.**, 2006. Chromium as an environmental contaminant – A review. *Pakistan J. Zool. Suppl. Ser.*, **8**: 1-30.
386. RASHID, M.U., ZAIDI, A., TORRES, D., SULTAN, F., BENNER, A., NAQVI, B., **SHAKOORI, A.R.**, SEIDEL-RENKERT, A., FAROOQ, H., NAROD, S., AMIN, A. AND HAMANN, U., 2006. Prevalence of BRCA1 and BRCA2 mutations in Pakistani breast and ovarian cancer patients. *Int. J. Cancer*, published on line 22 September 2006, **119**: 2832-2839.
387. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2006. Uptake of heavy metals by a ciliate, *Tachysoma pellionella*, isolated from industrial effluents and its potential use in bioremediation of toxic wastewater. *Bull. Environ. Contam. Toxicol.*, **77**: 469-476.
388. ALI, N.S., ALI, S.S. AND **SHAKOORI, A.R.**, 2006. Survival and body weight loss of starved adults of lesser grain borer, *Rhyzopertha dominica* (Coleoptera:Bostrichidae) at different relative humidities. *Pakistan J. Zool.*, **38**: 317-320.
389. KALEEM, A., WAJAHAT, T., AHMAD, I., HOESSLI, D.C., NASIR, E.W., QAZI, W.M., **SHAKOORI, A.R.** AND NASIR UD DIN, 2006. Regulation of apoptosis by histone H2B modifications. *Pakistan J. Zool.*, **38**: 305-312.
390. CHAUDHARY, Z.I., AHMED, R.S., HUSSAIN, S.M.I., AND **SHAKOORI, A.R.**, 2006. Detection of *Toxoplasma gondii* infection in butchers and buffaloes by polymerase chain reaction and latex agglutination test. *Pakistan J. Zool.*, **38**: 333-336.
391. SAMI, A.J. AND **SHAKOORI, A.R.**, 2006. Heterogeneity among insect cellulases. *Pakistan J. Zool.*, **38**: 337-340.
392. YOUSAFZAI, A.M. AND **SHAKOORI, A.R.**, 2006. Bioaccumulation of chromium, nickel, lead, copper and zinc in the skin of *Tor putitora* as an indicator of the presence of heavy metal load in River Kabul, Pakistan. *Pakistan J. Zool.*, **38**: 341-344.
393. YOUNAS, M., CHAUDHARY, Z.I., KHAN, M.A., MUNIR, M.A., **SHAKOORI, A.R.**, MEHMOOD, N. AND TIPU, M.Y., 2006. Prevalence of *Salmonella* species in poultry eggs in Lahore through polymerase chain reaction (PCR). *Sci. Int.*, **18**: 220-233.
394. YOUNAS, M., CHAUDHARY, Z.I., KHAN, M.A., MUNIR, M.A., **SHAKOORI, A.R.**, MEHMOOD, N. AND TIPU, M.Y., 2006. Prevalence of *Salmonella* species in poultry meat in Lahore through polymerase chain reaction (PCR). *Sci. Int.*, **18**: 309-312.
395. ABBAS, N., ARSHAD, Y., AND **SHAKOORI, A.R.**, 2006. Mutations in the hepatitis B virus core gene and its efficacy as a vaccine – A Review. *Proc. Pakistan Congr. Zool.*, **26**: 103-129.
396. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2006. Toxicity and uptake of heavy metals in protozoa - A Review. *Proc. Pakistan Congr. Zool.*, **26**: 131-153.
397. YOUSAFZAI, A.M. AND **SHAKOORI, A.R.**, 2007. Heavy metal bioaccumulation in the muscles of Mahaseer, *Tor putitora* as an evidence of heavy metal pollution in River Kabul, Pakistan. *Pakistan J. Zool.*, **39**: 1-8.
398. KALEEM, A., KHAN, T.S., AHMAD, W., SALEEM, M., KHAWAJA, A. R., HUSSAIN, S.A., **SHAKOORI, A.R.**, AND NASIR UD DIN, 2007. Post-translational modifications of non-histone high mobility group nucleosomal proteins. *Pakistan J. Zool.*, **39**: 57-64.

399. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2007. Seasonal variation in protozoan population in tannery effluents. *Pakistan J. Zool.*, **39**: 69-76.
400. KALEEM, A., AHMAD, W., KHAN, T.S., AHMAD, I., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2007. *In silico* post-translational modification of histone H1: redgulation of transcription. *Pakistan J. Zool.*, **39**: 87-94.
401. QAMER, S., EHSAN, M., NADEEM, S. AND **SHAKOORI, A.R.**, 2007. Free amino acids content of Pakistani unifloral honey pproduced by *Apis mellifera*. *Pakistan J. Zool.*, **39**: 99-102.
402. AHMAD, I., HOESSLI, D., GUPTA, R., WALKER-NASIR, E., RAFIK, S.M., CHAUDHARY, M.I., **SHAKOORI, A.R.** AND NASIRUDDIN, 2007. *In silico* determination of intracellular glycosylation and phosphorylation sites in human selectins: implications for biological function. *J. Cell. Biochem, USA*, **100**: 1558-1572.
403. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2007. Heavy metal resistant *Distigma proteus* (Euglenophyta) isolated from industrial effluents and its possible role in bioremediation of contaminated wastewater. *World J. Microbiol. Biotechnol. Published on line 31 October 2006* (<http://dx.doi.org/10.1007/s11274-006-9291-5>) *World J. Microbiol. Biotechnol.*, **23**: 753-758.
404. REHMAN, A., ALI, A., MUNEER, B. AND **SHAKOORI, A. R.**, 2007. Resistance and biosorption of mercury by bacteria isolated from industrial effluents. *Pakistan J. Zool.*, **39**: 137-146.
405. SALEEM, M.A., WILKINS, R.M., MANTLE. D. AND **SHAKOORI, A.R.**, 2007. *In vivo* effect of β -cyfluthrin on proteolytic enzyme activities in insecticide-resistant and -susceptible strains of *Musca domestica*. *Pakistan J. Zool.*, **39**: 171-178.
406. ALI, N.S., MUNIR, M., ALI, S.S. AND **SHAKOORI, A.R.**, 2007. Efficacy of mixtures of an organophosphate malathion and a synthetic pyrethroid deltamethrin against lesser grain borer, *Rhyzopertha dominica*. *Pakistan J. Zool.*, **39**: 179-184.
407. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2007. Multiple metal resistance and uptake by a ciliate, *Stylonychia mytilus*, isolated from industrial effluents and its possible use in wastewater treatment. *Bull. Environ. Contam. Toxicol. Published on line DOI 10.1007/s00128-007-9270-z. Bull. Environ. Contam. Toxicol.*, **79**:410-414.
408. SHUJA, R.N. AND **SHAKOORI, A.R.**, 2007. Identification, cloning and sequencing of a novel stress inducible metallothionein gene from locally isolated *Tetrahymena tropicalis lahorensis*. *Gene* (2007), doi:10.1016/j.gene.2007.08.019. *Gene*, **405**: 19-26.
409. ABBAS, N., AHMAD, A. AND **SHAKOORI, A.R.**, 2007. Overexpression and purification of PreS region of hepatitis B virus antigenic surface protein adr subtype in *Escherichia coli*. *J. Biochem. Mol. Biol.*, **40**: 1002-1008.
410. YOUSAFZAI, A.M. AND **SHAKOORI, A.R.**, 2007. Toxic effects of aquatic pollution on the white muscle of mahaseer, *Tor putitora* (Hamilton) from River Kabul, NWFP, Pakistan. *Pakistan J. Zool.*, **39**: 215-227.
411. AHMAD, I., AHMAD, W., WALKER-NASIR, E., SALEEM, M., **SHAKOORI, A.R.** AND NADIRUDDIN, 2007. Histone H1 sub-types in mouse: Interplay between phosphorylation and O-glycosylation. *Pakistan J. Zool.*, **39**: 245-257.
412. ABBAS, N., BAIG, I.A. AND **SHAKOORI, A.R.**, 2007. Faecal contamination of drinking water from deep aquifers in Multan, Pakistan. *Pakistan J. Zool.*, **39**: 271-277.
413. MUNEER, B., SHAKOORI, F.R., REHMAN, A. AND **SHAKOORI, A.R.**, 2007. Chromium resistant yeast with multi-metal resistance isolated from industrial effluents and their possible use in microbial consortium for bioremediation of waste water. *Pakistan J. Zool.*, **39**: 289-297.
414. MALIK, S.A., AHMAD, I., KHAN, T.S., **SHAKOORI, A.R.** AND NASIRUDDIN, 2007. RUNX1 transcription repression and stability: Interplay between phosphorylation and O-ClcNAc modification. *Pakistan J. Zool.*, **39**: 299-309.
415. MUJEEB, K.A. AND **SHAKOORI, A.R.**, 2007. Toxicity of synthetic pyrethroid, Fury, against different developmental stages of three strains of *Tribolium castaneum* (Herbst.). *Pakistan J. Zool.*, **39**: 361-366.
416. REHMAN, A., FAROOQ, H. AND **SHAKOORI, A.R.**, 2007. Copper tolerant yeast, *Candida tropicalis*, isolated from industrial effluents: its possible use in wastewater treatment. *Pakistan J. Zool.*, **39**: 405-412.
417. IQBAL, Q.J., ANDLEEB, S., REHMAN, A. AND **SHAKOORI, A.R.**, 2007. Hexavalent chromium resistant bacteria isolated from industrial effluents and their potential; use in bioremediation of toxic waste waters. *Proc.Pakistan Congr. Zool.*, **27**: 1-17.
418. SAMI, A.J. AND **SHAKOORI, A.R.**, 2007. Extracts of plant leaves have inhibitory effect on the cellulose activity of whole body extracts of insects – a possible recipe for bioinsecticides. *Proc.Pakistan Congr. Zool.*, **27**: 105-118.
419. ABBAS, N. AND **SHAKOORI, A.R.**, 2007. Hepatitis B virus: X gene. *Proc.Pakistan Congr. Zool.*, **27**: 127-136.
420. KALEEM, A., HOESSLI, D.H., AHMAD, I., WALKER-NASIR, E., NASIM, A., **SHAKOORI, A.R.** AND NASIRUDDIN, 2007. Immediate-early gene regulation by interplay between different post-translational modifications on human histone H3. *J. cell. Biochem.*, Published on line DOI 10.1002/jcb.21454, June 2007, **103**: 835-851, 2008.
421. RASHID, M.U., TORRES, D., ZAIDI, A., RASHEED, F., SULTAN, F., **SHAKOORI, A.R.** AMIN, A. AND HAMANN, U., 2007. No association between *BRCA* mutations and sex ratio in offsprings of Pakistani *BRCA* mutation carriers. *Breast Cancer Res. Treat.*, Published on line DOI 10.1007/s10549-007-9521-z. *Breast Cancer Res. Treat.*, **107**: 155-156, 2008.
422. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.** 2007. Uptake of heavy metals by *Stylonychia mytilus* and its possible use in decontamination of industrial wastewater. *World J. Microbiol. Biotechnol. Published on line* (<http://dx.doi.org/10.1007/s11274-006-9291-5>). *World J. Microbiol. Biotechnol.*, **24**: 47-53, 2008.
423. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.** 2007. Heavy metal resistant freshwater ciliate, *Euplotes mutabilis*, isolated from industrial effluents has potential to decontaminate wastewater of toxic metals. *Bioresource Technology, Published on line doi:10.1016/j.biortech.2007.08.007 . Bioresource Technology*, **99**: 3890-3895, 2008.

424. KHWAJA, T.A., WAJAHAT, AHMAD, I., HOESSLI, D.C., WALKER-NASIR, E., KALEEM, A., QAZI, W.M., **SHAKOORI, A.R** AND NASIRUDDIN, 2007. *In silico* modulation of apoptotic Bcl2 proteins by mistletoe lectin-1: Functional consequences of protein modifications. *J. cell. Biochem.*, DOI 10.1002/jcb.21412 May 2007, *J. cell. Biochem.*, **103**: 479-491, 2008.
425. AHMAD, I., KHAN, T.S., HOESSLI, D.C., WALKER-NASIR, E., KALEEM, A., **SHAKOORI, A.R** AND NASIR-UD-DIN, 2008. *In silico* modulation of HMGN-1 binding to histones and gene expression by interplay of phosphorylation and O-GlcNAc modification. *Prot. Pept. Lett.*, **15**: 193-199.
426. RAZA, M., CHAUDHARY, B. AND **SHAKOORI, A.R.**, 2008. Relationship of tumor necrosis factor alpha genotypes with various biochemical parameters of normal, over-weight and obese human subjects. *Pakistan J. Zool.*, **40**: 1- 12.
427. QAMER, S., AHMAD, F., LATIF, F., ALI, S.S. AND **SHAKOORI, A.R.**, 2008. Physicochemical analysis of *Apis dorsata* honey from Terai Forests, Nepal. *Pakistan J. Zool.*, **40**: 53-58.
428. SAMI, A.J., YASMEEN, N. AND **SHAKOORI, A.R.**, 2008. Cellulolytic activity of microbial flora of agricultural insects. *Pakistan J. Zool.*, **40**: 60-63.
429. AHMAD, I., HOESSLI, D.C., QAZI, W.M., KHURSHID, A., MAHMOOD, A., WALKER-NASIR, E., AHMAD, M., **SHAKOORI, A.R** AND NASIRUDDIN, 2008. MAPREes: An efficient method to analyze protein sequence around post-translational modification sites. *J. cell. Biochem.*, **104**: 1220-1231.
430. REHMAN, A., ALI, A. AND **SHAKOORI, A.R.**, 2008. Biosorption of mercury by bacteria isolated from industrial effluents: potential use in bioremediation of wastewater. *Pakistan J. Zool.*, **40**: 115-122.
431. YOUSAFZAI, A.M., KHAN, A.R. AND **SHAKOORI, A.R.**, 2008. Hematological and biochemical responses of blood of an endangered south asian freshwater fish, *Tor putitora* against aquatic pollution. *Pakistan J. Zool.*, **40**: 123-134.
432. KALEEM, A., KHURSHID, A., AHMAD, I., NASIR, E.W., KHAN, S., CHAUDHARY, M.I., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2008. Terminal galactose as cancer recognition marker: computing analysis with implications of vicinal sugars, linkage and anomery. *Pakistan J. Zool.*, **40**: 135-144.
433. SAMI, A.J., AWAIS, M. AND **SHAKOORI, A.R.**, 2008. Preliminary studies on the production of endo-1,4- β -D-glucanases activity produced by *Enterobacter cloacae*. *African J. Biotechnol.*, **7** (9):1318-1322.
434. ALI, S.A., ZAIDI, S.K., DACWAG, C.S., SALMA, N., YOUNG, D.W., **SHAKOORI, A.R.**, MONTECINO, M.A., LIAN, J.B., van WIJNEN, A.J., IMBALZANO, A.N., STEIN, G.S., AND STEIN, J.L., 2008. Phenotypic transcription factors epigenetically mediate cell growth control. *Proc. Nat. Acad. Sci. USA*, www.pnas.org/cgi/doi/10.1073/pnas.0800970105, *PNAS*, **105**: 6632-6637.
435. NASIRUDDIN, AHMAD, I., **SHAKOORI, A.R** AND HOESSLI, D.C., 2008. Developing protein structure-function relationship in silico. *Curr. Organic Chem.*, **12**: **957-971**.
436. YOUSAFZAI, A.M., KHAN, A.R. AND **SHAKOORI, A.R.**, 2008. An assessment of chemical pollution in River Kabul and its possible impacts on fisheries. *Pakistan J. Zool.*, **40**: 199-210.
437. AHMAD, I., QAZI, W.M., KHURSHID, A., AHMAD, M., HOESSLI, D.C., KHAWAJA, I., CHOUDHARY, M.I., **SHAKOORI, A.R** AND NASIRUDDIN, 2008. MAPREes: Mining association patterns among preferred amino acid residues in the vicinity of amino acids targeted for post-translational modifications. *Proteomics*, **8**: 1954-1958.
438. SAMI, A.J. AND **SHAKOORI, A.R.**, 2008. Biochemical characterization of endo-1,4 β -D-gluconase activity of a green insect pest *Aulacophora foveicollis* (Lucas). *Life Sci. J.*, **5**(2): 30-36.
439. REHMAN, A., SHUJA, R. AND **SHAKOORI, A.R.**, 2008. Tolerance of two ciliates, *Stylonychia mytilus* and *Paramecium caudatum*, isolated from industrial effluents to an organophosphate, endosulphan and their potential use in bioremediation of insecticide-contaminated wastewater. *Pakistan J. Zool.*, **40**: 255-261.
440. RASHID, M.U., TORES, D., ZAIDI, A., RASHEED, F., SULTAN, F., **SHAKOORI, A.R.**, AMIN, A. AND HAMANN, U., 2008. No association between BRCA mutations and sex ratio in offspring of Pakistani BRCA mutation carriers. *Breast Cancer Res Treat.* **107**(1): 155-156.
441. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2008. Heavy metals resistant rotifers from a chromium contaminated wastewater can help in environmental cleanup. *Pakistan J. Zool.*, **40**: 309-316.
442. MUMTAZ, N., CHASUDHRY, Z.I., MAHMOOD, N., AND **SHAKOORI, A.R.**, 2008. Reliability of PCR for detection of bovine tuberculosis in Pakistan. *Pakistan J. Zool.*, **40**: 347-352.
443. YOUSAFZAI, A.M., KHAN, A.R. AND **SHAKOORI, A.R.**, 2008. Heavy metal pollution in River Kabul affecting the inhabitant fish population. *Pakistan J. Zool.*, **40**: 331-340.
444. KALEEM, A., AHMAD, I., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2008. Regulation of neurofibromin by post-translational modifications. *Pakistan J. Zool.*, **40**: 417-422.
445. YOUSAFZAI, A.M. AND **SHAKOORI, A.R.**, 2008. Heavy metal accumulation in gills of an endangered south Asian freshwater fish as an indicator of aquatic pollution. *Pakistan J. Zool.*, **40**: 423-431.
446. RASHID, M.U., TORES, D., RASHEED, F., SULTAN, F., **SHAKOORI, A.R.**, AMIN, A., SCHLAEFER, K. AND HAMANN, U., 2009. No association of miscarriage and BRCA carrier status in Pakistani breast/ovarian cancer patients with a history of parental consanguinity. *Breast Cancer Res Treat.* DOI 10.1007/s10549-008-0095-1. **116**(1):211-213.
447. KALEEM, A., AHMAD, I., HOESSLI, D.H., WALKER-NASIR, SALIM, M., **SHAKOORI, A.R** AND NASIRUDDIN, 2009. Epidermal growth factor receptors: function modulation by phosphorylation and glycosylation interplay. *Mol. Biol. Rep.*, DOI 10.1007/s11033-008-9223-6. *Mol. Biol. Rep.*, **36**: 631- 639 , 2009.
448. YOUSAFZAI, A.M., KHAN, A.R. AND **SHAKOORI, A.R.**, 2009. Trace metal accumulation in the liver of an endangered South Asian freshwater fish dwelling in sub-lethal pollution. *Pakistan J. Zool.*, **41**: 35-41.

449. ELAHI, S., KALEEM. A., AHMAD, I., HAQ, I.U., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2009. Functional regulation of glutamate receptor GluR1: Long term potentiation and depression of GluR1 by post translational modifications. *Pakistan J. Zool.*, **41**: 71-78.
450. DURRANI, A.Z. AND **SHAKOORI, A.R.**, 2009. Study on ecological growth conditions of cattle *Hyalomma* ticks in Punjab, Pakistan. *Iranian J. Parasitol.*, **4**: 24-30.
451. MUNNEER, B., REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2009. Evaluation of consortria of microorganisms for efficient removal of hexavalent chromium from industrial wastewater. *Bull. Environ. Contam. Toxicol.*, DOI.1007/s00128-009-9662-3. *Bull. Environ. Contam. Toxicol.*, **82(5)**: 597- 600 .
452. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2009. Heavy metal uptake by *Euplotes mutabilis* and its possible use in bioremediation of industrial wastewater. *Bull. Environ. Contam. Toxicol.*, DOI.10.1007/s00128-009-9725-5. *Bull. Environ. Contam. Toxicol.*, **82 (1)**: 130-135.
453. AHMAD, I., MEHMOOD, A., KHURSHID, A., QAZI, W.M., HOESSLI, D.C., WALKER-NASIR, E., **SHAKOORI, A.R.** AND NASIRUDDIN, 2009. Phosphoproteome sequence analysis and significance: mining association patterns around phosphorylation sites utilizing MAPRES. *J. cell. Biochem.*, DOI 10.1002/jcb.22220. **108**:64-74, 2009.
454. REHMAN, A., BUKHARI, D.A.A., SHAKOORI, F.A. AND **SHAKOORI, A.R.**, 2009. Heavy metal induced total proteins profile of ciliates isolated from industrial wastewater. *Pakistan J. Zool.*, **41**: 245-252.
455. QAMER, S., MUZAFFAR, N., ALI, S.S., AND **SHAKOORI, A.R.**, 2009. Effect of storage on various honey quality parameters of unifloral sidder honey from Pakistan. *Pakistan J. Zool.*, **41**: 313-316.
456. AHMED, B., SHAKOORI, F.R., ALI, S.S. AND **SHAKOORI, A.R.**, 2009. Antimicrobial resistance pattern and plasmid analysis of *Escherichia coli* from patients suffering from acute diarrhea in Azad Kashmir, Pakistan. *Pakistan J. Zool.*, **41**: 371-380.
457. YOUNAS, M., CHAUDHART, Z.I., KHAN, M.A., MUNIR, M.A., **SHAKOORI, A.R.**, AND MEHMOOD, N., 2009. Detection of *Salmonella* sp. in poultry feed through PCR in Lahore. *Pakistan J. Zool.*, **41**: 421-424.
458. DURRANI, A.Z., MAQBOOL, A., MAHMOOD, N., KAMAL, K. AND **SHAKOORI, A.R.**, 2009. Chemotherapeutic trials with *Calotropis procera* against experimental infection with *Theileria annulata* in cross bred cattle in Pakistan. *Pakistan J. Zool.*, **41**: 389-398.
459. NASIR-UD-DIN, KALEEM, A., AHMAD, I., WALKER-NASIR, E., HOESSLI, D.C. AND **SHAKOORI, A.R.**, 2009. Effect on the Ras/Raf signaling pathway of post translational modifications of neurofibromin: *In silico* study of protein modification responsible for regulatory pathways. *J. cell. Biochem.*, DOI 10.1002/jcb.22301. **108**:816-824, 2009.
460. SALEEM, M.A., ASHFAQ, M., AND **SHAKOORI, A.R.**, 2009. *In vivo* effect of spinosad on proteases of insecticide-resistant and susceptible strains of *Musca domestica*. *Pakistan J. Zool.*, **41**: 455-462.
461. AHMED, B., SHAKOORI, F.R., ALI, S.S. AND **SHAKOORI, A.R.**, 2009. Antimicrobial resistance and plasmid profile analysis of clinically isolated *Shigella dysenteriae* in Azad Kashmir, Pakistan. *Pakistan J. Zool.*, **41**: 495-503.
462. SHUJA, R.N. AND **SHAKOORI, A.R.**, 2009. Identification and cloning of first cadmium metallothionein like gene from locally isolated ciliate, *Paramecium* sp. *Mol. Biol. Rep.*, DOI 10.1007/s 1103-008-9213-8. *Mol. Biol. Rep.*, **36(3)**: 549-560.
463. BUKHARI, D.A.A. AND **SHAKOORI, A.R.**, 2009. Cloning and expression of *Bacillus thuringiensis* cry11 crystal protein gene in *Escherichia coli*. *Mol. Biol. Rep.*, **36 (7)** :1661-1670.
464. DURRANI, A.Z., KAMAL, **SHAKOORI, A.R.** AND YOUNAS, R.M., 2009. Prevalence of post parturient haemogloniuria in buffalo and therapeutic trials with toldimfos sodium and tea leaves. *Turkish J. Vet. Anim. Sci.*, **34**: 45-51..
465. BUKHARI, D.A.A. AND **SHAKOORI, A.R.**, 2010. Isolation and molecular characterization of cry4 harbouring *Bacillus thuringiensis* isolates from Pakistan and mosquitocidal activity of their spores and total proteins. *Pakistan J. Zool.*, **42**: 1-15.
466. SALEEM, F. AND **SHAKOORI, A.R.**, 2010. Characterization of cry2A-type gene(s) from Pakistani isolates of *Bacillus thuringiensis* toxic to lepidopteran and dipteran insects. *Pakistan J. Zool.*, **42**: 181-193.
467. DURRANI, A.Z., KAMAL, N., MEHMOOD, N. AND **SHAKOORI, A.R.**, 2010. Prevalence of pestes des petits ruminants (KATA) in sheep and goats of Punjab. *Pakistan J. Zool.*, **42**: 205-210.
468. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2010. Multiple heavy metal tolerant ciliates, *Oxytricha fallax* and *Paramecium caudatum*, isolated from industrial effluents and their potential use in wastewater treatment. *Pakistan J. Zool.*, **42**: 301-309.
469. SHAKOORI, F.R., AZIZ, I., REHMAN, A., AND **SHAKOORI, A.R.**, 2010. Isolation and characterization of arsenic reducing bacteria from industrial effluents and their potential use in bioremediation of wastewater. *Pakistan J. Zool.*, **42**: 331-338.
470. DURRANI, A.Z., KAMAL, N., **SHAKOORI, A.R.** AND YOUNUS, R.M., 2010. Prevalence of post parturient haemoglobinuria in buffalo and therapeutic trials with toldimfos sodium and tea leaves in Pakistan. *Turkish J. Vet. Anim. Sci.*, **34**: 45-51.
471. ALI, S.A., ZAIDI, S.k., DOBSON, J.R., **SHAKOORI, A.R.**, LIAN, J.B., STEIN, J.L., VAN WIJNEN, A.J., AND STEIN, G.S., 2010. Transcriptional corepressor TLE1 functions with Runx2 in epigenetic repression of ribosomal RNA genes. *Proc. Natl. Acad. Sci. USA*, **107(9)**: 4165-4169.
472. NASIR-UD-DIN, AHMAD, I., ELAHI, S., HOESSLI, D.C. AND **SHAKOORI, A.R.**, 2010. The function of GluR1 and GluR2 in cerebellar and hippocampal; LTP and LTD is regulated by interplay of phosphorylation and O-GlcNAc modification. *J. cell. Biochem.*, **109 (3)**:585-597.

473. ASLAM, A., CHAUDHARY, Z.I., REHMAN, H., ASHRAF, K., AHMAD, N., YAQUB, T., MAQBOOL, A. AND **SHAKOORI, A.R.**, 2010. Comparative evaluation of parasitological, serological and DNA amplification methods for diagnosis of natural trypanosomal infection in equines. *Pakistan J. Zool.*, **42**: 371-376.
474. DURRANI, A.Z., MEHMOOD, N. AND **SHAKOORI, A.R.**, 2010. Comparison of three diagnostic methods for *Theileria annulata* in Sahiwal and Friesian cattle in Pakistan. *Pakistan J. Zool.*, **42**: 467-472.
475. SHAKOORI, F.R., WAHEED, S., BUKHARI, D.A.A. AND **SHAKOORI, A.R.**, 2010. Spectrum of antibiotic resistance in *cry4* positive local isolates of *Bacillus thuringiensis*. *Pakistan J. Zool.*, **42**: 481-488.
476. NADEEM, M.S., RAUF, A., MUSTAFA, M., IQBAL, M. AND **SHAKOORI, A.R.**, 2010. Selective precipitation based economical methods for purification of human serum albumin from the out-dated blood bank samplers. *Pakistan J. Zool.*, **42**: 498-501.
477. AHMED, B., SHAKOORI, F.R., ALI, S.S. AND **SHAKOORI, A.R.**, 2010. Characterization of multiple antimicrobial resistant *Shigella sonnei* isolated from diarrhoeal patients in Azad Kashmir, Pakistan. *Pakistan J. Zool.*, **42**: 587-596.
478. SALEEM, M.A., WILKINS, R.M. AND **SHAKOORI, A.R.**, 2010. *In vivo* effects of lambda-cyhalothrin on proteases of various body compartments of *Periplaneta americana* (Forsk). *Pakistan J. Zool.*, **42**: 603-610.
479. SALEEM, M.A., WILKINS, R.M. AND **SHAKOORI, A.R.**, 2010. Comparative effects of cyfluthrin on intracellular protease activities in insecticide-resistant and susceptible strains of *Musca domestica* L. *Pakistan J. Zool.*, **42**: 623-630.
480. CHAUDHRY, R. AND **SHAKOORI, A.R.**, 2010. Isolation and characterization of a novel copper-inducible metallothionein gene of a ciliate, *Tetrahymena tropicalis lahorensis*. *J. cell. Biochem.*, **110**: 630-644.
481. RAUF, A., NADEEM, M.S., ALI, A., IQBAL, M., MUSTAFA, M., LASTIF, M.M., LATIF, M.M., AHMED, N. AND **SHAKOORI, A.R.**, 2010. Prevalence of hepatitis B and C in internally displaced persons of war against terrorism in Swat, Pakistan. *European J. Publ. Hlth.*, doi:10.1093/eurpub/ckq084 21 (5): 638-642, 2011.
482. SHAKOORI, F.R., TABASSUM, S., REHMAN, A. AND **SHAKOORI, A.R.**, 2010. Isolation and characterization of Cr^{6+} reducing bacteria and their potential use in bioremediation of chromium containing wastewater. *Pakistan J. Zool.*, **42**: 651-658.
483. AKHTAR, R., CHAUDHARY, Z.I., **SHAKOORI, A.R.**, AHMAD, M.U.D., AND ASLAM, A., 2010. Comparative efficacy of conventional diagnostic methods and evaluation of polymerase chain reaction for the diagnosis of bovine brucellosis. *Vet. World.*, **3**: 53-56.
484. ANWAR, K. AND **SHAKOORI, A.R.**, 2010. Cypermethrin toxicity in the liver of developing chick embryo. *Pakistan J. Zool.*, **42**: 725-734.
485. NASIR UD DIN, KALEEM, A., IQBAL, Z. AND **SHAKOORI, A.R.**, 2010. The *in silico* interplay between post-translational modification in histone H4 and its role in mouse spermatogenesis. *Pakistan J. Zool.*, **42**: 787-794.
486. YOUSAFZAI, A.M., KHAN, A.R. AND **SHAKOORI, A.R.**, 2010. Pollution of large, subtropical rivers - River Kabul Khyberpukhtunkhwa, Province, Pakistan: Physico-chemical indicators. *Pakistan J. Zool.*, **42**: 795-808.
487. BAIG, D.N., BUKHARI, D.A.A. AND **SHAKOORI, A.R.**, 2010. *cry* genes profiling and the toxicity of isolates of *Bacillus thuringiensis* from soil samples against American bollworm, *Helicoverpa armigera*. *J. Appl. Microbiol.*, doi:10.11114.1365-2672.2010.04826.x. **109**: 1967-1978.
488. SAMI, A.J., TABASSUM, F. AND **SHAKOORI, A.R.**, 2010. Biodegradation of cellulose and xylan by a paddy pest *Oxya chinensis*. *Anals. Biol. Res.*, **1(3)**: 1-12. Available online at www.scholarsresearchlibrary.com
489. REHMAN, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2010. Resistance and uptake of heavy metals by *Vorticella microstoma* and its potential use in industrial wastewater treatment. *Environ. Progr. Sustain. Energy*, **29(4)**: 481-486. DOI 10.1002/ep
490. MUIEED, M.A., CHAUDHARY, Z.I. AND **SHAKOORI, A.R.**, 2010. Comparative studies on the sensitivity of polymerase chain reaction (PCR) and microscopic examination for the detection of *Trypanosoma evansi* in horses. *Turkish J. Vet. Anim. Sci.*, **34 (6)**: 507-512.
491. KALEEM, A., HOESSLI, D.C., IKRAM-UL-HAQ, WALKER-NAASIR, E., BUTT, A., IQBAL Z., ZAMANI, Z., **SHAKOORI, A.R.** AND NASIR-UD-DIN, 2011. CREB in Long term potentiation in hippocampus: Role of post-translational modifications-Studies *in silico*. *J. cell. Biochem.*, **112**: 138-146.
492. DURRANI, A.Z., YOUNAS, M., KAMAL, N., MEHMOOD, N. AND **SHAKOORI, A.R.**, 2011. Prevalence of ovine *Theileria* species in District Lahore, Pakistan. *Pakistan J. Zool.*, **43**: 57-60.
493. YOUSAFZAI, A.M. AND **SHAKOORI, A.R.**, 2011. Hepatic responses of a freshwater fish against aquatic pollution. *Pakistan J. Zool.*, **43**: 209-221.
494. NADEEM, S., NIAZ, B., MUZAMMIL, H.M., RANA, S.M., RAJOKA, M.I., **SHAKOORI, A.R.**, 2011. Optimising carbon and nitrogen sources for L-glutamic acid production by *Brevibacterium* strain NIAB SS-67. *Pakistan J. Zool.*, **43**: 285-290.
495. NADEEM, M.S., NISSAR, A., SHAHID, S., IMTIAZ, A., MAHFOOZ, M., ASGHAR, M.T. AND **SHAKOORI, A.R.**, 2011. Purification and characterization of lactate dehydrogenase from the heart ventricles of river buffalo (*Bubalus bubalis*). *Pakistan J. Zool.*, **43**: 315-319.
496. SAMI, A.J., NAZIR, M.T., JABEEN, Z., AND **SHAKOORI, A.R.**, 2011. Gene study within the 5' flanking regions of growth hormone gene of first exon in *Bos indicus*. *African J. Biotech.*, **10**: 332-336.
497. SAMI, A.J. AND **SHAKOORI, A.R.**, 2011. Cellulase activity inhibition and growth retardation of associated bacterial strains of *Aulacophora foviecollis* by two glycosylated flavonoids isolated from *Mangifera indica* leaves. *J. Medicin. Plants Res.*, **5(2)**: 184-190.

498. SHAKOORI, F.R., ZAFAR, M.F., FATEHULLAH, A., REHMAN, A. AND **SHAKOORI, A.R.**, 2011. Response of glutathione level in a protozoan ciliate, *Stylonychia mytilus*, to increasing uptake of and tolerance to nickel and zinc in the medium. *Pakistan J. Zool.*, **43**: 569-574.
499. ALI, N.M., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2011. Improvement in methionine production by local bacterial isolates. *Pakistan J. Zool.*, **43**: 611-614.
500. SAMI, A.J., ANWAR, M.A., REHMAN, F. AND **SHAKOORI, A.R.**, 2011. Digestive cellulose hydrolyzing enzyme activity (endo- β -1,4-D-glucanase) in the gut and salivary glands of blister beetle, *Mylabris pustulata*. *Pakistan J. Zool.*, **43**: 393-401.
501. SHAKOORI, F.R., ZAHID, M.T., BUKHARI, D.A.A. AND **SHAKOORI, A.R.**, 2011. Cloning and expression of cry 11B from a local isolate of *Bacillus thuringiensis* and its mosquitocidal activity. *Pakistan J. Zool.*, **43**: 701-713.
502. CHAUDHRY, R. AND **SHAKOORI, A.R.**, 2011. Identification of a new copper resistant protist isolate *Tetrahymena* RT-1 subsp.nov. *Pakistan J. Zool.*, **43**: 781-788.
503. ALI, N.M., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2011. Improvement in cysteine production by local bacterial isolate. *Pakistan J. Zool.*, **43**: 805-808.
504. ALI, N.S., ALI, S.S. AND **SHAKOORI, A.R.**, 2011. Effects of sub-lethal doses of Talstar on biochemical components of malathion-resistant and-susceptible adults of *Rhyzopertha dominica*. *Pakistan J. Zool.*, **43**: 879-887
505. BUTT, A., KALEEM, A., IQBAL, Z., WALKER-NASIR, E., SALEEM, M., **SHAKOORI, A.R.** AND NASIR-UD-DIN, 2011. Functional regulation of DNA binding FOXO1 by post translational modifications: *In silico* study. *Pakistan J. Zool.*, **43**:1167-1175.
506. CHAUDHRY, R. AND **SHAKOORI, A.R.**, 2011. Characterization of copper resistant ciliates: Potential candidates for consortia of organisms used in bioremediation of wastewater. *African J. Biotech.*, **10** (45): 9101-9113.
507. TASNEEM, W., ZAHEER, H., **SHAKOORI, A.R.**, 2011. Effect of hexavalent chromium on leydig cells. *Proc. Sheikh Zayed Post Grad. Med. Inst.*, **25**: 73-78.
508. AHMAD, A., SHEHARBANO AND **SHAKOORI, A.R.**, 2011. Effect of chromium and arsenic on growth and morphology of mice fetal calvarial cells (MFCC). *FUUAST J. Biol.*, **1**: 23-28.
509. ZAHID, N., ZULFIQAR, S. AND **SHAKOORI, A.R.**, 2012. Functional analysis of cus operon promoter of *Klebsiella pneumoniae* using *E. coli* lacZ assay. *Gene*, 495: 81-88.
510. SULEMAN, A. AND **SHAKOORI, A.R.**, 2012. Evaluation of physiological importance of metallothionein protein expressed by *Tetrahymena cadmium metallothionein I (TMCd1)* gene in *Escherichia coli*. *J. cell. Biochem.*, DOI: 10.1002/jcb.24030. *J. cell. Biochem.*, **113**:1616-1622.
511. MUJEEB, K.A. AND **SHAKOORI, A.R.**, 2012. Effect of an organophosphate, Pirimiphos-Methyl, on esterases of different developmental stages of stored grain pest red flour beetle, *Tribolium castaneum* (Herbst.) – Spectrophotometric analysis. *Pakistan J. Zool.*, **44**: 301-312
512. AHMAD, A., ALI, M. AND **SHAKOORI, A.R.**, 2012. Isolation and culture of cardiac progenitor and cardiomyocytes from adult mouse. *Pakistan J. Zool.*, **44**: 511-516.
513. SMITH, B. N., EVANS, C., ALI, A., ANCLIFF, P.J., HAYEE, B., SEGAL, A. W., HALL, G., KAYA, Z., **SHAKOORI, A.R.**, LINCH, D.C. AND GALE, R.E., 2012. Phenotypic heterogeneity and evidence of a founder effect associated with *G6PC3* mutations in patients with severe congenital neutropenia. *Br. J. Haematol.*, 158(1): 146-149.
514. AHMAD, A., AND **SHAKOORI, A.R.**, 2012. Cytotoxic effect of cigarette smoke condensate on mice and rat mesenchymal stem cells and HeLa cells. *Turk. J. med. Sci.*, **42**: doi:10.3906/sag-1105-19.
515. SHAKOORI, T.A., SIN, D.D., BOKHARI, S.N.H., GHAFOR, F. AND **SHAKOORI, A.R.**, 2012.SP-D Polymorphisms and the risk of COPD. *Disease Markers* 33: 91-100.
516. MUJEEB, K.A. AND **SHAKOORI, A.R.**, 2012. Effect of Fury, a synthetic pyrethroid, on esterases of different developmental stages of stored grain pest, red flour beetle, *Tribolium castaneum* (Herbst.)- Spectrophotometric analysis. *Pakistan J. Zool.*, **44**: 601-613.
517. MUJEEB, K.A. AND **SHAKOORI, A.R.**, 2012. Effect of Pirimiphos-Methyl, on esterases of different developmental stages of three strains of *Tribolium castaneum* (Herbst.) – An electrophoretic study. *Pakistan J. Zool.*, **44**: 859-868.
518. CHAUDHRY, R. AND **SHAKOORI, A.R.**, 2012. A new subspecies of a ciliate *Euplotes musicola* isolated from industrial effluents. *Pakistan J. Zool.*, **44**: 809-822.
519. SHAKOORI, F.R., BUTT, A.M., ALI, N.M., ZAHID, M.T. REHMAN, A. AND **SHAKOORI, A.R.**, 2012. Optimization of fermentation media for enhanced amino acids production by bacteria isolated from natural sources. *Pakistan J. Zool.*, **44**: 1145-1157.
520. AHMAD, A., AND **SHAKOORI, A.R.**, 2012. Isolation and growth of human keratinocytes from plucked hairs. *Pakistan J. Zool.*, **44**: 1187-1190.
521. AHMAD, A., AND **SHAKOORI, A.R.**, 2012. Isolation and differentiation of murine mesenchymal stem cells into osteoblasts in the presence and absence of dexamethasone. *Pakistan J. Zool.*, **44**: 1417-1422.
522. DAR, S., SHUJA, R.N. AND **SHAKOORI, A.R.**, 2012. A synthetic cadmium metallothionein (*PMCd1 syn*) of *Paramecium* species: expression, purification and characteristics of metallothionein protein. *Mol. Biol. Rep.* DOI 10.1007/s11033-012-2140-8. DOI 10.1007/s11033-012-2140-8 *Mol Biol Rep* (2013) 40:983–997.
523. AHMAD, A., MUNEER, B. AND **SHAKOORI, A.R.**, 2012. Effect of chromium, cadmium, and arsenic on growth and morphology of HeLa cells. *J. Basic. Appl. Sci.*, **8**: 53-58.

524. KHAN, A., CHAUDHARY, Z.I., **SHAKOORI, A.R.**, MAHMOOD, N., IJAZ, M., KHAN, M.Z.U., SAIMA, JAN, I., AND ALI, M.M., 2012. Detection of *Mycobacterium bovis* in buffaloes blood through polymerase chain reaction (PCR) and tuberculin test. *J. Anim. Pl. Sci.*, **22**: 237-241.
525. ZULFIQAR, S. AND **SHAKOORI, A.R.**, 2012. Molecular characterization, metal uptake and copper induced transcriptional activation of efflux determinants in copper resistant isolates of *Klebsiella pneumoniae*. *Gene*, **510**: 32-38.
526. **SHAKOORI, A.R.**, HOESSLI, D.C. AND NASIRUDDIN, 2012. Post translational modifications in activation and inhibition of Oct-1-DNA binding complex in H2B and other diverse gene regulation: Prediction of interplay sites. *J. cell Biochem.*, DOI 10.1002/jcb.24382. **114**: 266-274 (2013)
527. IQBAL, Z., HOESSLI, D.C., KALEEM, A., MUNIR, J., SALEEM, M., AFZAL, I., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2012. Influence of the sequence environment and properties of neighbouring amino acids on amino-acetylation: Relevance for Structure-Function analysis. *J. cl. Biochem.* DOI 10.1002/jcb.24426 **114**: 874-887 (2013)
528. MURTAZA, B.N., BIBI, A., NADEEM, M.S., CHAUDHRI, M.S. AND **SHAKOORI, A.R.**, 2012. Identification of a novel mutation in codon 31 of Kirstein Rat Sarcoma Viral Oncogene Homologue in Colon Cancer: Another evidence of non-canonical mutational pathway. *Pakistan J. Zool.*, **44**: 1671-1676.
529. AHMAD, A., UMER, R. AND **SHAKOORI, A.R.**, 2013. Umbilical cord blood serum, a better alternative of fetal bovine serum. *Pakistan J. Zool.*, **45**: 167-175.
530. QURRATULAIN AND **SHAKOORI, A.R.**, 2013. Frequency of *Kras* gene mutations in endometrioid carcinoma of uterus in Pakistani population. *Pakistan J. Zool.*, **45**: 197-201.
531. ALI, N.S., ALI, S.S. AND **SHAKOORI, A.R.**, 2013. Effects of sublethal doses of malathion on biochemical components of malathion-resistant and -susceptible adults of *Rhyzopertha dominica*. *Pakistan J. Zool.*, **45**: 203-212.
532. MUNEER, B., IQBAL, M.J., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2013. Tolerance and biosorption of mercury by microbial consortia: Potential use in bioremediation of wastewater. *Pakistan J. Zool.*, **45**: 247-254.
533. ALI, B., ANJUM, A., MAHMOOD, S., WADOOD, M.A. AND **SHAKOORI, A.R.**, 2013. Identification of bovine and human tuberculosis in AFB positive and negative patients. *Pakistan J. Zool.*, **45**: 255-260.
534. AHMAD, M.S. AND **SHAKOORI, A.R.**, 2013. Isolation, molecular characterization and toxicity of *cryI* gene harboring *Bacillus thuringiensis* from different habitats and localities of Pakistan. *Pakistan J. Zool.*, **45**: 261-271
535. ALI, A., SIDDIQUE, M.K. AND **SHAKOORI, A.R.**, 2013. Frequency of FLT3/ITD mutations in Pakistani acute myeloid leukemia patients. *Pakistan J. Zool.*, **45**: 495-501.
536. RAUF, A., NADEEM, M.S., ARSHAD, M., RIAZ, H., LATIF, M.M., IQBAL, M., LATIF, M.Z., AHMED, N. AND **SHAKOORI, A.R.**, 2013. Prevalence of hepatitis B and C virus in the general population of Hill Surang area, Azad Jammu and Kashmir, Pakistan. *Pakistan J. Zool.*, **45**: 543-548.
537. AHMAD, A., ZIAUDDIN, A. AND **SHAKOORI, A.R.**, 2013. Isolation and culture of human amniotic fluid stem cells (AFSCS). *Pakistan J. Hlth. Res.*, **1**: 32-35.
538. SHAHZADI, A., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2013. Immunoinformatics study of promiscuous HLA binding antigenic nanomers of surface glycoproteins of influenza A (H1N1) pdm09 of Asian origin. *Pakistan J. Zool.*, **45**: 733-740.
539. QAMER, S., AHAMED, F., ALI, S.S., AND **SHAKOORI, A.R.**, 2013. Effect of storage on various honey quality parameters of *Apis dorsata* honey from Nepal. *Pakistan J. Zool.*, **45**: 741-747.
540. AHMAD, M.S. AND **SHAKOORI, A.R.**, 2013. Cloning and molecular characterization of *cryIc_a* and *cryIc_b* genes from locally isolated *Bacillus thuringiensis* strains. *Pakistan J. Zool.*, **45**: 759-767.
541. BUKHARI, D.A., ZAHID, N. AND **SHAKOORI, A.R.**, 2013. Molecular characterization of *cry4B* gene from local isolates of *Bacillus thuringiensis* encoding 70kDa crystal protein. *Pakistan J. Zool.*, **45**: 779-791.
542. AFTAB, N., MURTAZA, B.N., BIBI, A. AND **SHAKOORI, A.R.**, 2013. Association of sequence variation 713-8delC in intron 4 of transforming growth Factor β 1 gene and low bone mineral density in Pakistani female osteoporotic population. *Pakistan J. Zool.*, **45**: 847-855.
543. SALEEM, F. AND **SHAKOORI, A.R.**, 2013. A rapid DNA extraction method for *Bacillus thuringiensis*. *Pakistan J. Zool.*, **45**: 1473-1475.
544. AHMAD, A. **SHAKOORI, A.R.**, 2013. Cytotoxic and genotoxic effects of Arsenic and Lead on Human Adipose Derived Mesenchymal Stem Cells (AMSCs). *J. Stem Cells. Regen. Med.*, **9(2)**: 29-36.
545. ALI, A., SIDDIQUE, M.K., GALE, R.E. AND **SHAKOORI, A.R.**, 2013. Frequency of NPM1 mutations in Pakistani acute myeloid leukemia patients. *Pakistan J. Zool.*, **45**: 1429-1436.
546. AZIZ, I., RASHID, M.U., SULTAN, F. AND **SHAKOORI, A.R.**, 2013. Frequency of Pro allele on codon 72 of *TP53* in female breast cancer patients of Pakistan: Molecular stress or Geography. *Pakistan J. Zool.*, **45**: 1437-1446.
547. SHUJA, R.N., TAIMURI, S.U., SHAKOORI, F.R. AND **SHAKOORI, A.R.**, 2013. Efficient expression of truncated recombinant cadmium-metallothionein gene of a ciliate, *Tetrahymena tropicalis lahorensis* in *Escherichia coli*. *Molec. Biol. Rep.*, DOI 10.1007/s1103-013-2827-5. **40**: 7061-7068.
548. MURTAZA, A., BIBI, A., RASHID, M.U., KHAN, Y.I., CHAUDHRI, M.S. AND **SHAKOORI, A.R.**, 2013. Spectrum of *K ras* mutations in Pakistani colorectal cancer patients. *Brazilian J. Med. Biol.*, <http://dx.doi.org/10.1590/1414-431x20133046>. (2014) **47(1)**: 35-41,
549. RAUF, A., NADEEM, M.S., RIAZ, H., LATIF, M.M., LATIF, M.Z., AHMED, N., AND **SHAKOORI, A.R.**, 2013. Tuberculosis and hepatitis infections among the underprivileged orphan children of Northern Pakistan. *Pakistan J. Zool.*, **45**: 1765-1770.

550. AHMAD, A., SHAH, A. AND **SHAKOORI, A.R.**, 2013. Anti-proliferative effect of arsenic cadmium and lead on human placental cells. *RADS J. Biol. Res. Appl. Sci.*, **4**: 67-74
551. QAZI, W.M., IQBAL, Z., KHAN, M.S., REHAN, M., MUNIR, J., **SHAKOORI, A.R.**, AND NASIRUDDIN, 2014. GEARS: A genetic algorithm based machine learning technique to develop prediction models. *Pakistan J. Zool.*, **46**: 409-416.
552. AHMAD, A., SHAH, A., AND **SHAKOORI, A.R.**, 2014. Anti-proliferative effect of arsenic, cadmium and lead on human placental chorion cells. *Pakistan J. Zool.*, **46**: 561-566.
553. SAMI, A.J., ALI, M., **SHAKOORI, A.R.**, 2014. Growth promoting activity of crude protein extract of ruminant placental peptides. *Pakistan J. Zool.*, **46**: 580-583.
554. NADEEM, S., NIAZ, B., RAJOKA, M.L., AL-GHANIM, K.A., MUZAMMIL, H.M., MAHBOOB, S., NADEEM, A., YOUSAF, S. AND **SHAKOORI, A.R.**, 2014. Optimizing different vitamins for L-Glutamic acid production by *Brevibacterium* strain NIAB SS59. *Pakistan J. Zool.*, **46**: 733-739.
555. MUNIR, J., IQBAL, Z., SALEEM, M., SHAKOORI, F.R., MAHMOOD, Z., **SHAKOORI, A.R.** AND NASIR UD DIN, 2014. The 3D modeling and characterization of wild type and mutated *Plasmodium falciparum* cytochrome b: A computational approach. *Pakistan J. Zool.*, **46**: 841-851.
556. HASHMI, A.H., AHMAD, N., RIAZ, S., ALI, L., SIDDIQI, S., KHAN, K.M., **SHAKOORI, A.R.** AND MANSOOR, A., 2014. Genotype CC of rs12979860 is providing protection against infection rather than assisting in treatment response for HCV genotype 3a infection. *Genes and Immunity*, (2014), 1-3. Doi:10.1038/gene.2014.31
557. AHMAD, A., TOOR, R.H., AFTAB, S., AND **SHAKOORI, A.R.**, 2014. Anti-proliferative and genotoxic effect of arsenic and lead on human brain cancer cell line. *Pakistan J. Zool.*, **46**: 1069-1076.
558. SAMI, A.J., AND **SHAKOORI, A.R.**, 2014. Potential of Azadirachtin and neem (*Azadirachta indica*) based as biopesticides for *in vitro* insect pests cellulose (Beta 1,4 endoglucanase) enzyme inhibition and *in vivo* repellency on *Tribolium castaneum*. *British Biotechnol. J.*, **4**: 904-917.
559. SAMI, A.J. AND **SHAKOORI, A.R.**, 2014. Isolation of a growth hormone variant from pituitary of water buffalo *Bubalus bubalis* identical to GH from Sei Whale (*Balenoptera borealis*). *Proc. Pakistan Congr. Zool.*, **34**:
560. SHAKOORI, F.R., TASNEEM, F., AL-GHANIM, K., MAHBOOB, S., AL-MISNEH, F., JAHAN, N. AND **SHAKOORI, A.R.**, 2014. Variability in secondary structure of 18S ribosomal RNA as topological marker for identification of *Paramecium* species. *J. cell. Biochem.*, DOI 10.1002/jcb.24885. *JCB* **115**: 2077-2088.
561. SAMI, A.J., AHMAD, N., AND **SHAKOORI, A.R.**, 2014. Computational analysis of an acidic lipase of *Tribolium castaneum*. *Pakistan J. Zool.*, **46**: 805-812.
562. ALI, N.S., ALI, S.S. **SHAKOORI, A.R.**, 2014. Biochemical response of malathion-resistant and -susceptible adults of *Rhyzopertha dominica* to the sublethal doses of deltamethrin. 853- *Pakistan J. Zool.*, **46**: 853-861
563. AHMAD, A. AND **SHAKOORI, A.R.**, 2014. Anti-proliferative and genotoxic effects of arsenic and lead on human cells *in vitro*. *Toxicol. Environ. Health. Sci.*, DOI 10.1007/13530-014-0199-4. **6**(3): 148-154
564. ZAHID, M.T., SHAKOORI, F.R., ZULFIQAR, S., JAHAN, N. AND **SHAKOORI, A.R.**, 2014. A new ciliate species, *Tetrahymena farahensis*, isolated from the industrial wastewater and its phylogenetic relationship with the other members of the genus *Tetrahymena*. *Pakistan J. Zool.*, **46**: 1433-1445.
565. IQBAL, Z., HOESSLI, D.C., QAZI, W.M., AHMAD, M., **SHAKOORI, A.R.**, AND NASIR-UD-DIN, 2014. Exploring the sequence context of phosphorylatable amino acids: The contribution of the upgraded MAPRes tool. *J. Cell. Biochem.*, DOI 10.1002/jcb.24983. *J. cell. Biochem.*, **116**: 370-379, 2015.
566. SALEEM, F., ASLAM, R., SALEEM, Y., NAZ, S., SYED, Q., MUNIR, N., KHURSHID, N., **SHAKOORI, A.R.**, 2014. Analysis and evaluation of growth parameters for optimum production of polyhydroxybutyrate (PHB) by *Bacillus thuringiensis* strain CMBL-BT-6. *Pakistan J. Zool.*, **46**: 1337-1344.
567. IQBAL, Z., HASSAN, M., MUNIR, J., MARIAM, I., SHAKOORI, F.R. AND **SHAKOORI, A.R.** AND NASIR UD DIN, 2014. Identification of novel dihydrofolate reductase inhibitor as potential antimalarial drug. *Pakistan J. Zool.*, **46**: 1263-1270.
568. AHMED, B., AL-GHANIM, K., MAHBOOB, S., SHAKOORI, F.R., AND **SHAKOORI, A.R.**, 2014. Plasmid profile analysis and antimicrobial resistance pattern of *Shigella flexneri* strains isolated from Azad Kashmir, Pakistan. *Pakistan J. Zool.*, **46**: 1605-1616.
569. SALEEM, F., YOUNAS, A., BASHIR, R., NAZ, S., MUNIR, N. AND **SHAKOORI, A.R.**, 2014. Molecular cloning and characterization of *Exoichitinase A* gene of indigenous *Bacillus thuringiensis* isolates. *Pakistan J. Zool.*, **46**: 1491-1501.
570. CHAUDHRY, R., CHAUDHRY, M.T., AL-GHANIM, K., MEHBOOB, S., AND **SHAKOORI, A.R.**, 2014. Structure modeling of small subunit ribosomal RNA (SSU rRNA) of copper resistant ciliates. *Pakistan J. Zool.*, **46**: 1625-1632.
571. MUNIR, J., IQBAL, Z., HOESSLI, D.C., **SHAKOORI, A.R.** AND NASIR UD-DIN, 2014. *In silico* analysis of 2,4 substituted heterocycles and glutamic acid containing antifolates as inhibitors of malarial (*Plasmodium falciparum*) protein, dihydrofolate reductase-thymidylate synthase. *J. Proteom. Bioinform.*, **7** (11): 367-373.
572. AHMAD, A., AFTAB, S., TOOR, R.H., AND **SHAKOORI, A.R.**, 2015. Cytotoxic and genotoxic effect of arsenic and lead on rat mesenchymal stem cells (rMSCs). *Pakistan J. Zool.*, **47**: 41-47.
573. AHMAD, A., ASHRAF, S. AND **SHAKOORI, A.R.**, 2015. Cytotoxic and genotoxic effects of arsenic and lead on primary human breast cancer cell lines. *Pakistan J. Zool.*, **47**: 79-87.

574. ALI, S.A., JUSTILIEN, V., BUKHARI, S.Z.H., LEE, J. AND **SHAKOORI, A.R.**, 2015. Role of transcription regulatory complexes and epigenetic modifications in driving the cell fate decisions. *Pakistan J. Zool.*, **47**: 287-293.
575. ASGHAR, M.T., AL-GHANIM, K., MAHBOOB, S., SHARIF, M., NAZIR, J., AND **SHAKOORI, A.R.**, 2015. *Sphingomonas* sp. is a novel cell culture contaminant. *J. cell. Biochem.*, DOI:10.1002/jcb.25044. JCB, 116: 934-942.
576. AHMAD, A., ASHRAF, S., AL-GHANIM, K., MEHBOOB, S., TOOR, R.H., AND **SHAKOORI, A.R.**, 2015.. Anti-proliferative effects of arsenic, cadmium and lead on rat pups brain cells. *Pakistan J. Zool.*, **47**: 515-522.
577. KHAN, Z., HUSSAIN, S. Z., REHMAN, A., ZULFIQAR, S. AND **SHAKOORI, A. R.**, 2015. Evaluation of cadmium resistant bacterium, *Klebsiella pneumonia*, isolated from industrial wastewater for its potential use to bioremediate environmental cadmium. *Pakistan J. Zool.*, **47**: 1533-1543.
578. SALEEM, F., NISAR, U., YOUNAS, A., JABEEN, F., QAZI, J.I., KHURSHEED, N., MUNIR, N., NAZ, S. AND **SHAKOORI, A. R.**, 2015. Molecular characterization of *Bacillus* chitinase for bioconversion of chitin waste. *Natural Product Research*, DOI:10.1080/14786419.2015.1040789.
579. RAMZAN, M., AIN, N.U., ILYAS, S., UMER, M., BANO, S., SARWAR, S., SHAHZAD, N., AND **SHAKOORI, A. R.**, 2015. A cornucopia of screening and diagnostic techniques for human papilloma virus associated cervical carcinoma. *J. Virol. Meth.*, 222: 192-201.
580. SAMI, A.J., JABBAR, B., AHMAD, N., NAZIR, M.T., AND **SHAKOORI, A. R.**, 2015. In silico analysis of structure-function relationship of a neutral lipase from *Tribolium castaneum*. *Proc. Pakistan Congr. Zool.*, **35**:
581. ZAHID, M.T., SHAKOORI, F.R., ZULFIQAR, S., AHMAD, I., AL-GHANIM., K., MEHBOOB, S. AND **SHAKOORI, A. R.**, 2016. Molecular characterization of a copper metallothionein gene from a ciliate *Tetrahymena farahensis*. *J. cell. Biochem.*, DOI 10.1002/jcb.25484. *J. Cell. Biochem.*, **117**:1843-1854.
582. MURTAZA, B.N., DOAK, S., MORGAN, C., NADEEM, M.S., AL-GHANIM, K.A. AND **SHAKOORI, A. R.**, 2016. A crosstalk between K ras (Kirsten Rat Sarcoma Viral Oncogene Homologue) and adherence molecule complex leads to disassociation of cells – a possible contribution towards metastasis in colorectal cancer. *J. Cell. Biochem.*, DOI 10.1002/jcb.25531 *J. Cell. Biochem.*, **117**:2340-2345.
583. SAMI, A.J., BILAL, S., KHALID, M., SHAKOORI, F.R., REHMAN, F.U., AND **SHAKOORI, A. R.**, 2016. Effect of crude neem (*Azadirachta indica*) powder and Azadirachtin on the growth and acetylcholinesterase activity of *Tribolium castaneum* (Herbst) (Coleoptera:Tenebrionidae). *Pakistan J. Zool.*, **48(3)**: 781-787.
584. SALEEM, F., AMJAD, Q., KALEEM, A., ABDULLAH, R., IQTEDAR, M., NAZ, S. AND **SHAKOORI, A. R.**, 2016. In silico analysis of loop residues of the receptor binding domain of *Bacillus thuringiensis* Cry2Ac11 toxin. *Pakistan J. Zool.*, **48(3)**: 821-828.
585. MUNEER. B., LALI, T., IQBAL, M.J., SHAKOORI, F.R. AND **SHAKOORI, A. R.**, 2016. Arsenic processing of yeast isolates IIB-As1 and IIB-As2 and production of glutathione under stress conditions. *J. Basic Microbiol.*, DOI:10.1002/jobm.201600092
586. TASADDUQ, R., GORDON, J., AL-GHANIM, K.A., LIAN, J.B., VAN WIJNEN, A.J., STEIN, J.L., STEIN, G.S., AND **SHAKOORI, A. R.**, 2016. Ethanol extract of *Cissus quadrangularis* enhances osteoblast differentiation and mineralization of murine pre-osteoblastic MC3T3-E1 Cells. *J. Cell. Physiol.*, DOI: 10.1002/jcp.2525449.
587. ANJUM, F., SHAKOORI, F.R., AL-GHANIM, K.A., AND **SHAKOORI, A. R.**, 2016. Effect of inorganic mercury on drug metabolizing enzymes of promethazine-pretreated and phenoibarbitone-pretreated male rabbit. *Pakistan J. Zool.*, **48(5)**: 1485-1494.
588. MUNEER. B., IQBAL, M.J., SHAKOORI, F.R. AND **SHAKOORI, A. R.**, 2016. Isolation, identification, and cadmium processing of *Pseudomonas aeruginosa* (EP-Cd1) isolated from soil contaminated with electroplating industrial wastewater. *Pakistan J. Zool.*, **48(5)**: 1495-1502.
589. KHAN, Z., REHMAN, A., HUSSAIN, S.Z., NISAR, M.A., ZULFIQAR, S. AND **SHAKOORI, A. R.**, 2016. Cadmium resistance and uptake by bacterium, *Salmonella enterica* 43C, isolated from industrial effluent. *AMB Expr* (2016)6:54. DOI 10.1186/s13568-016-0225-9
590. SAMI, A. J., KHALID, M., IQBAL, S., AFZAL, M. AND **SHAKOORI, A. R.**, 2016. Synthesis and application of chitosan-starch based nanocomposite in wastewater treatment for the removal of anionic commercial dyes. *Pakistan J. Zool.*, DOI <http://dx.doi.org/10.17582/journal.pjz/2016.xx.xxx.xxx>.
591. ZAHID, A. AND **SHAKOORI, A. R.**, 2016. Frequency of E6 and E7 oncogenes of human papillomavirus types 16 and 18 in cervical cancer patients in Pakistani women. *Pakistan J. Zool.*, **48 (6)** : 1911-1917.
592. QAYYUM, A., NAGI, A.H., MURTAZA, B.N. AND **SHAKOORI, A. R.**, 2016. Prevalence of colorectal adenocarcinoma in northern regions of Pakistan: A cross sectional study. *Pakistan J. Zool.*, **48 (6)** : 1885-1890.
593. RAUF, A., NADEEM, M.S., KHAN, J.A., MUHAMMAD, K., AND **SHAKOORI, A. R.**, 2016. Highly immunogenic recombinant HBV core protein from Pakistani isolates: A potential candidate vaccine for hepatitis B in Pakistan. *Pakistan J. Zool.*, **48 (6)** : 1919-1924.
594. ALI, A., GALE, R.E. AND **SHAKOORI, A. R.**, 2016. Detection of FLT3/TKD and IDH1 mutations in Pakistani acute myeloid leukemia patients by denaturing HPLC. *J. Cell. Biochem.*, DOI 10.1002/jcb.25761.
595. IJPH (Basharat)
596. Zahid WJMB
597. Faiza
598. Soumble (IBB Boy)
- 599.