

RESEARCH PUBLICATIONS:

ORIGINAL ARTICLES

1. 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.
2. 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 of liver of rabbit. *Proc. Pakistan Congr. Zool.*, **10**: 61-81.
3. Shakoori, A.R. and **Aziz, F.**, 1991. Effect of freezing (-20C) on the electrophoretic pattern and estimation of blood serum protein of fresh water fish, *Labeo rohita*. *Pakistan J. Zool.*, **23**: 369-372.
4. 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.
5. Shakoori, A.R., Alam, J., **Aziz, F.**, Sabir, M. and Aslam, F., 1992. Toxic effects of Bifenthrin (Talstar) on the liver of *Gallus domesticus*. *J. Ecotoxicol. Environ. Monitor. (India)*, **2**: 1-11.
6. Shakoori, A.R., Aslam, F, **Aziz, F.**, Sabir, M. and Alam, J., 1992. Toxicological effects of orally administered synthetic pyrethroid Talstar (=Bifenthrin) on the gastrocnemius muscle of *Gallus domesticus*. *Bangladesh J. Zool.*, **21**: 23-33.
7. Shakoori, A.R., Butt, U., Rifat, R. and **Aziz, F.**, 1992. Toxic effects of short term oral administration of Danitol on the blood and liver of rabbit. *Punjab Univ. J. Zool.*, **7**: 13-26.
8. Shakoori, A.R., Ilyas, M. and **Aziz, F.**, 1992. Toxicity of sublethal doses of Trebon (Ethofenprox) on total blood serum protein, acetylcholinesterase activity and SDS-PAGE patter of blood serum proteins of *Cirrhina mrigala*. *Pakistan J. Zool.*, **24**: 235-241.
9. Shakoori, A.R. and **Aziz, F.**, 1992. Toxic effect of mercuric chloride on the blood serum protein and free amino acids of fresh water fish, *Labeo rohita*. *Pakistan J. Zool.*, **24**: 362-364.
10. **Aziz, F.**, Amin, M. and Shakoori, A.R., 1993. Toxic effects of cadmium chloride on the hematology of fish, *Tilapia mossambica*. *Proc. Pakistan Congr. Zool.*, **13**: 141-154.
11. Younus, 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**: 325-339.
12. Shakoori, A.R., Butt, U., Riffat, R. and **Aziz, F.**, 1994. Hematological and biochemical effects of Danitol administered for two months on the blood and liver of rabbit. *Z. Angew Zool. (Germany)*, **80**: 165-180.

13. Van Wijnen, A.J., **Aziz, F.**, Grana-Amat, X., Deluca, A., Desai, R.K., Jaarsveld, K., Last, T.J., Soprano, K., Giordano, A., Lian, J.B., Stein, J.L. and Stein, G.S., 1994. Transcription of histone H4, H3 and H1 cell cycle genes: promoter factor HiNF-D contains CDC2, Cyclin A and an RB related protein. *Proc. Natl. Acad. Sci., USA*, **91**: 12882-12886.
14. Shakoory, A.R., Van Wijnen, A.J. Cooper, C., **Aziz, F.**, Birnbaum, M., Reddy, G.P.V., Grana, X., Deluca, A., Giordano, A., Lian, J.B., Stein, J.L., Quesenberry, P. and Stein, G.S., 1995. Cytokine-induction of proliferation and expression of CDC2 and cyclin A in FDC-P1 myeloid hematopoietic progenitor cells: regulation of ubiquitous and cell cycle dependent histone gene transcription factors. *J. Cell Biochem., (USA)*, **58**: 291-302.
15. Vaughan, P.S., **Aziz, F.**, van Wijnen, A.J., Wu, S., Harada, H., Taniguchi, T., Soprano, K., Stein, J.L., Stein, G.S., 1995. Activation of a cell-cycle-regulated histone gene by the oncogenic transcription factor IRF-2. *Nature (UK)*, **337**: 362-365.
16. Birnbaum, M.J., Wright, K.L., van Wijnen, A.J., Ramsey-Ewing, A.L., Boutke, M.T., Last, T.J., **Aziz, F.**, Frenkel, B. Rao, B.R., Aronin, A., Stein, G.S. and Stein, J.L., 1995. Functional role for Sp1 in the transcriptional amplification of a cell regulated histone H4 gene. *Biochemistry (USA)*, **34**: 7648-7558.
17. Van Wijnen, A.J., Cooper, C., Odgren, P., **Aziz, F.**, Deluca, A., Shakoory, A.R., Giordano, A., Quesenberry, P.J., Lian, J.B., Stein, G.S., Stein, J.L., 1997. Cell cycle dependent modifications in activities of pRb-related tumor suppressors and proliferation-specific CDP/CUT Homeodomain factors in murine hematopoietic progenitors cells. *J. Cell. Biochem., (USA)*, **66**: 512-523.
18. **Aziz, F.**, van Wijnen, A.J., Vaughan, P.S., Wu, S., Shakoory, 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-gene: mechanistic differences between distinct H4 genes. *Molecular Biology Reports (USA)*, **25**: 1-12.
19. Vaughan, P.S., van der Meijden, C.M.J. **Aziz, F.**, Harada, H., Tadatsugu, T., van Wijnen, A.J., Stein, J.L. and Stein, G.S., 1998. Cell cycle regulation of histone H4 gene transcription requires the oncogenic factor IRF-2. *J. Biol. Chem. (USA)*, **273**(1): 194-199.
20. **Aziz, F.**, van Wijnen, A.J., Stein, J.L. AND Stein, G.S., 1998. HiNF-D (CDP-cut)/CDC2/cyclin A pRB-Complex) influences the timing of IRF-2 dependent cell cycle activation of human histone H4 gene transcription at the G1/S phase transition. *J. Cell Physiol., (USA)*, **177**(3): 453-464.
21. **Shakoory, F.R.**, Rafique, H., Qureshi, F., Ali, S.S. and Shakoory, A.R., 1999. Degradation of organochlorine insecticide, Endosulphan, in polluted soil through bacteria. *Proc. Pakistan Congr. Zool.*, **19**: 283-298.
22. Shakoory, A.R., Jabeen S., **Shakoory, F.R.**, Dar, N., Haq, R.U. and Nasim, A., 2000. Cadmium resistant yeast from industrial effluents: Role in environmental cleanup. *Proc. Pakistan Acad. Sci.*, **37**: 151-163.
23. Shakoory, A.R., Jabeen N. Mujeeb K.A., **Shakoory F.R.** and Ali S.S., 2000. Lead resistant yeast strains isolated from industrial effluents of tanneries and their utilization in wastewater treatment. *Proc. Pakistan Congr. Zool.*, **20**: 285-303.

24. Shakoori, A.R., Muneer, 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.
25. **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.
26. **Shakoori, F.R.**, Rafiq, A., Khawaja, K. and Shakoori, A.R, 2001. Zinc resistant bacteria from industrial effluents and their role in Environment clean up *Proc. Pakistan Congr. Zool.*, **21**:101-122.
27. Haq, R., Afshan, A., **Shakoori, F.R** and Shakoori, A.R., 2001. Dichromate resistant yeast isolated from industrial waste water and their role in Bioremediation of heavy metals. *Proc. Pakistan Congr. Zool.*, **21**:181-226.
28. **Shakoori, F.R.**, Chodhry, 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 waste water after heavy metal uptake. *Proc. Pakistan Congr. Zool.*, **22**: 205-22.
29. Ahmad, K, **Shakoori, F.R** and Shakoori, A.R, 2003. Aetiology of Shigellosis in Northern Pakistan. *J. Hth. Popul Nut.*, **21**(1):32-39.
30. Ahmad, 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**: 1-8.
31. **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.
32. **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.
33. **Shakoori, F.R.**, Shezad. M., Bukhari D.A.A and Shakoori A.R, 2005.Silver resistant yeast strains isolated from industrial waste water and their ability to up take Silver from the medium. *Pakistan J. Zool* . **37** (3): 221-228.
34. Ahmed, K., **Shakoori, F.R.** and Shakoori, A.R. 2005. Etiology of Salmonellosis in Northren areas of Pakistan. *Journal of health and population in developing countries / URL: <http://www.jhpdc.unc.edu/USA>*.
35. 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, USA*,**76**:907-913.
36. Rehman A., **Shakoori, F.R.** and Shakoori, A.R. 2006. Uptake of Heavy Metals by a Ciliate, *Tachysoma pellationella*, Isolated from industrial Effluents and its Potential Use in Bioremediation of Toxic Wastewater. *Bull. Environ .Contam. Toxicol, USA*. **77**:469-476.

37. 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** (3): 239-253.
38. Rehman, A., **Shakoori, F.R.** and Shakoori, A.R., 2006. Toxicity and Uptake of Chromium and Lead by Protozoa-A Review. *Proc. Pakistan. Congr. Zool.*, **26**: 131-153.
39. 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., UK.* **23**:753-758.
40. 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 use in wastewater treatment. *Bull. Environ. Contam. Toxicol, USA.* **79**(4): 410-414.
41. Rehman, A., **Shakoori, F.R.** and Shakoori, A.R., 2007. Seasonal variation in protozoan population in tannery effluents. *Pakistan. J. Zool.*, **39** (2): 69-76.
42. Rehman, A., **Shakoori, F.R.** and Shakoori, A.R. 2007., Potential use of Ciliate, *Vorticella microstoma*, surviving in lead contaminated industrial effluent in waste water treatment . *Pakistan. J. Zool.*, **39** (4): 259-264.
43. 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 wastewater. *Pakistan. J. Zool.*, **39** (5): 289-297.
44. Rehman, A. **Shakoori, F.R.** and Shakoori, A.R., 2008. Uptake of heavy metals by *Stylonychia mytilus* and its possible use in decontamination industrial wastewater. *World J Microbiol Biotechnol, UK.* **24**: 47-53.
45. Rehman, A. **Shakoori, F.R.** And Shakoori, A.R., 2008. Isolation Of A Ciliate, *Euplotes Mutabilis*, Resistant To Heavy Metals From Industrial Effluents, And Its Potential Use In Wastewater Treatment. *Biores. Biotechnol, Usa.* 99: 3890-3895.
46. Rehman, A. **Shakoori, F.R.** and Shakoori, A.R., 2008. Heavy metal resistant rotifers from a chromium contaminated wastewater can help in environmental clean-up treatment. *Pakistan. J. Zool.*, **40** (5): 309-316.
47. Muneer, B., **Shakoori, F.R.**, Rehman, A., and Shakoori, A.R., 2009. Evaluation of consortia of microorganisms for efficient removal of hexavalent chromium from industrial waste water. *Bull. Environ. Contam. Toxicol, USA.* **82**: 597-600.
48. Rehman, A., **Shakoori, F.R.** and Shakoori, A.R., 2009. Heavy metals uptake by *Euplotes mutabilis* and its possible use in bioremediation of industrial waste water. *Bull. Environ. Contam. Toxicol, USA.* **83**: 130-135.
49. Rehman, A., **Shakoori, F.R.** and Shakoori, A.R., 2009. Heavy metal induced total proteins profile of ciliates isolated from industrial wastewater. *Pakistan. J. Zool.*, **41** (4): 245-251.
50. Ahmed B., **Shakoori, F.R.** Ali, S.S. And Shakoori, A.R. 2009. Antimicrobial Resistance And Plasmid Profile Analysis Of Clinically Isolated Escherichia Coli From Patients Suffering From Acute Diarrhoea In Azad Kashmir, Pakistan. *Pakistan J. Zool.*, 41 (5): 371-380.

51. 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** (6): 495-503.
52. **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.*, **41** (2): 331-338.
53. 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** (2): 301-309.
54. **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** (4): 481-487.
55. 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**(5): 587-595.
56. **Shakoori, F.R.**, Tabassum, S., Rehman, A. and Shakoori, A.R. 2010. Isolation and characterization of Cr⁶⁺ reducing bacteria and their potential use in bioremediation of chromium containing waste water. *Pakistan J. Zool.*, **42**(6): 651-658.
57. 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. *Environmental Progress & sustainable Energy*, **29**(4):481-486.
58. **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**(3): 569-574.
59. Ali, M.N., **Shakoori, F.R.**, and Shakoori, A.R., 2011. Improvement in Methionine Production by Local Bacterial Isolates. *Pakistan J. Zool.*, **43**(3): 611-614.
60. **Shakoori, F.R.**, Zahid, M.T., Bukhari, D.A.A. and Shakoori, A.R., 2011. Cloning and Expression of *Cry11B* gene from a local isolate of *Bacillus thuringiensis* and its mosquitocidal activity. *Pakistan J. Zool.*, **43**(4): 701-713.
61. Ali, M.N., **Shakoori, F.R.**, and Shakoori, A.R., 2011. Improvement in Cysteine Production by Local Bacterial Isolates. *Pakistan J. Zool.*, **43**(4): 805-808.
62. **Shakoori, F.R.**, Butt, A.M., Ali, M.N., Zahid, M.T., Rehman, A and Shakoori, A.R., 2012. Optimization of Fermentation Media for the Enhanced Amino Acids Production by Bacteria Isolated from Natural Sources. *Pakistan J. Zool.*, **44**(4): 1145-1157.

63. 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 Waste water. *Pakistan J. Zool.*, **45(1)**: 247-254.
64. Shehzadi, A., **Shakoori, F.R.**, and Shakoori, A.R., 2013 Immunoinformatics study of promiscuous HLA Binding Antigenic Nanomers of Surface Glycoprotein of Influenza A (H1N1)Pdm90 of Asian Origin. *Pakistan J. Zool.*, **45(4)**: 733-740.
65. Shuja, R.N., Taimuri, S.A., **Shakoori, F.R.**, Shakoori, A.R. 2013. Efficient expression of truncated recombinant cadmium-metallothionein gene of a ciliate, *Tetrahymena tropicalis lahorensis* in *Escherichia coli*. *Molecular Biology Reports*, **40**: 7061-7068.
66. 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 wildtype and mutated *Plasmodium falciparum* cytochrome b: A computational approach. *Pakistan J. Zool.*, **46(3)**: 841-851.
67. **Shakoori, F.R.**, Tasneem, F., Al-Ghanim, K., Mahboob, S., Al-Misned, 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.* **115**: 2077-2088
68. Iqbal, Z., Hassan, M., Munir, J., Mariam, I., **Shakoori, F.R.**, Shakoori, A.R. and Nasir-ud-Din., 2014. Identification of novel dihydrofolate reductase inhibitor as potential antimalarial drug:in silico studies. *Pakistan J. Zool.*, **46(5)**: 1263-1270
69. 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 other members of the genus. *Pakistan J. Zool.*, **46(5)**: 1433-1445.
70. Riaz,T., **Shakoori, F.R.** and Ali ,S.S. 2014.Effect of temperature, fecundity and longevity of stored grain pest, *Trogoderma granium*. *Pakistan J. Zool.*, **46(6)**: 1433-1445.
71. Abbas, S.Z., Riaz, M., Ramzan, N., Zahid, M.T., **Shakoori, F.R.** and Rafatullah, M., 2014. Isolation and characterization of arsenic resistant bacteria from wastewater. *Brazilian Journal of Microbiology*, **45(4)**: 1309-1315.
72. 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(6)**: 1605-1616.
73. **Shakoori, F.R.**, Shokat, M., Saleem, F. and Riaz, T., 2015. Screening, optimization and characterization of xylanase by locally isolated bacteria. *Punjab Univ. J. Zool.*, **30(2)**: 065-071.
74. Kaleem, A., Aziz, S., Iqtedar, M., Abdullah, R., Aftab, M., Rashid, F., **Shakoori, F.R.** and Naz, S., 2015. Investigating changes and effect of peroxide values in cooking oils subjected to light and heat. *FUUAST Journal of Biology*, **5(2)**: 191-196
75. Saleem, F., Rani, N., **Shakoori, F.R.**, Aftab, M., Abdullah, R., Iqtedar., M., Kaleem., A. and Naz, S., 2015. Gamma irradiation of sheep meat: Taking food safety to next level. *FUUAST Journal of Biology*, **5(2)**: 257-261

76. Rafique , M., Saleem, F.,Munir, N., Bashir, R., **Shakoori, F.R.**, and Naz, S., 2015. Small G- protein structure, function and regulation *J.Innov.Sci.* **1(2):68-71**
77. Zahid, M.T., **Shakoori, F.R.**, Zulifqar, S., Ahmed, I., Al-Ghanim, K., Mehboob, S., and Shakoori, A.R., 2016. Molecular Characterization of a Copper Metallothionein Gene from a Ciliate *Tetrahymena farahensis*. *Journal of cellular biochemistry.* **117:1843-1854.**
78. **Shakoori, F.R.**, Feroz, A. and Riaz, T. 2016. Effect of sublethal doses of phosphine on macromolecular concentrations and metabolites of adult beetles of stored grain pest, *Trogoderma granarium*. *Pakistan J. Zool.* **48 (2): 583-588**
79. Sami, A.J., Bilal,S., Khalid, M., **Shakoori, F.R** and Shakoori, A.R 2016. Effect of crude neem (*Azadirachta indica*) powder and *azadirachtin* on the growth and acetylcholinesterase activity of *Tribolium castaneum*. (Herbst) (Insecta: Coleoptera: Tenebrionidae) *Pakistan J. Zool.* **48(3): 881-886.**
80. Riaz, T., **Shakoori, F. R.**, Ali, S. S., 2016. Toxicity of phosphine against tolerant and susceptible populations of *Trogoderma granarium* collected from Punjab, Pakistan. *Punjab Univ. J. Zool.* **31 (1), pp. 025-030**
81. Anjum, F., **Shakoori, F. R.**, Al-Ghanim K. and Shakoori,A.R. 2016. Effect of inorganic mercury on drug metabolizing enzymes of promethazine-pretreated and phenobarbitone–pretreated male rabbit. *Pakistan J. Zool.*, **48(5): 1485-1494.**
82. 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): 1495-1501.**
83. Hafiz, A., Riaz, T. and **Shakoori, F. R.**, 2017. Metabolic profile of a stored grain pest *Trogoderma granarium* exposed to deltamethrin. *Pakistan J. Zool.*, **49(1): 183-188**
84. Riaz, T., **Shakoori, F. R.**, Shakoori, A. R. and Ali, S. S., 2017. Effect of phosphine on larvae and adult beetles of phosphine-exposed populations of stored grain pest, *Trogoderma granarium* collected from different godowns of Punjab. *Pakistan J. Zool.*, **49(3):819-824**
85. Tasneem, F., **Shakoori, F. R.** and Shakoori, A. R., 2017. Phylogenetic relationship of locally isolated *Paramecium* species inferred from Histone H4 genes. *Pakistan J. Zool.*, **49(5):1767-1774**
86. Riaz, T., **Shakoori, F. R.**, Shakoori, A. R. and Ali, S. S., 2018. Phosphine-induced alterations in microsomal enzymes of a stored grain pest *Trogoderma granarium* collected from godowns of Punjab, Pakistan. *Pakistan J. Zool.*, **50(1):291-297**
87. Zahid, M.T., **Shakoori, F.R.**, Zulifqar, S., Al-Ghanim, K. and Shakoori, A.R., 2018. Growth characteristics, metal uptake and expression analysis of copper metallothionein in a newly reported ciliate, *Tetrahymena farahensis*. *Pakistan J. Zool.*, **50(3):1171-1181**
88. Hafiz, A., Riaz, T. and **Shakoori, F. R.**, 2018. Deltamethrin induced changes in the activities of various esterases in deltemethrin resistant population of *Trogoderma granarium*. *Pakistan J. Zool.*, **50(4): 1475-1482**
89. **Shakoori, F.R.**, Feroz, A., Gondal, A., Akram, S. and Riaz, T. 2018. Impact of λ - cyhalothrin on carbohydrate metabolizing enzymes and macromolecules of a stored grain pest, *Trogoderma granarium*. *Pakistan J. Zool.* **50(4): 1467-1474**
90. Abbas, S.Z., Rafatullah, M., Ismail. N. and **Shakoori, F.R.** 2018. Electrochemistry and microbiology of microbial fuel cells treating marine sediments polluted with heavy metals. *Royal Society of chemistry RSC Advances* **8(4): 18800-18813.**

91. **Shakoori, F.R.**, Riaz, T., Ramzan, U., Feroz, A. and Shakoori, A.R., 2018. Toxicological effect of esfenvalerate on carbohydrate metabolizing enzymes and macromolecules of a stored grain pest, *Trogoderma granarium*. **Pakistan J. Zool.** **50 (6): 2185-2192.**
92. Riaz, T., **Shakoori, F. R.**, Mansoor, H., Khan, S. and Saleem. M, A., 2019. Efficacy of Mixture of Pesticides on the Mortality and Energy Reserves of a Stored Grain Pest *Trogoderma granarium* Everts. **Pakistan J. Zool.** **51 (6): 2297-2309.**
93. Tasneem, F., **Shakoori, F. R.**, Ilyas, M., Shahzad, N., Potekhin, A. and Shakoori, A. R., 2019. Genetic diversity of Paramecium species on the basis of multiple loci analysis and ITS secondary structure models. **Journal of cellular biochemistry.** 1-17. DOI: 10.1002/jcb.29546.
94. Feroz, A., **Shakoori, F.R.**, Riaz, T and Shakoori, A.R., 2020. Development of resistance in stored grain pest, *Trogoderma granarium* (Everts) against deltamethrin and its effective control by synergistic toxicity of bifenthrin and chlorpyrifos. **Journal of Stored Products Research.** 88: 101673.
95. Feroz, A., Shakoori, A.R., and **Shakoori, F.R.**, 2020. Effect of Sublethal Doses of Bifenthrin and Chlorpyrifos Administered Alone and in Combinations on Esterases of Stored Grain Pest, *Trogoderma granarium*, **Pakistan J. Zool.** **52 (6): 2161-2171.**
96. Khalid, Z., Yousaf, M. A., Khan, A. T., **Shakoori, F. R.**, Munir, M. and Shakoori, A. R., 2020. Debunking Myths about COVID-19, Paranoiac Misconceptions, Recent Developments and its Current Stance. **Pakistan J. Zool.** **52 (6): 2377-2387.**
97. Fatima, M., Syed, M., Zeeshan, R., **Shakoori, F. R.**, Shahzad, N., Ali, M., and Mutahir, Z., 2020. Cytotoxic Effect of *MTH1* Gene Silencing in Gemcitabine Resistant Breast Cancer Cells. **Pakistan J. Zool.** **52 (6): 2145-2151.**
98. Riaz, T., **Shakoori, F. R.**, Ali, S.S., and Saleem, M. A., 2021. Phosphine Induced Abnormalities in Carbohydrate Metabolism and Macromolecular Concentrations of *Trogoderma granarium* Everts over Various Exposure Periods. **Pakistan J. Zool.** **52.** DOI: <http://dx.doi.org/10.17582/journal.pjz/2020.52>
99. Imran, M., Zulfiqar. S., Saeed, H., and **Shakoori, F.R.**, 2021. Multi Metal Resistant Klebsiella pneumonia KW is an Efficient Copper Accumulator and Bioremediator of Industrial Waste Water. **Pakistan J. Zool.**, vol .xx (0), PP 000-000, DOI: <https://dx.doi.org/10.17582/.....>

BOOK:

Shakoori, AR., Aftab, S. and **Shakoori, FR.** 2016. Numerical Changes in Chromosomes. In: *Chromosomes: Structure and Abberations* (eds. T.A. Bhat and A.A.Wani). Springer Verlag.

PATENTS

Sr. No	Accession No.	Detail
1.	HE653999	<i>Bacillus cereus</i> partial 16S rRNA gene, isolate A9.
2.	HE653997	<i>Bacillus</i> sp. MZ-2012-S6 partial 16S rRNA gene, isolate S6.
3.	HE653995	<i>Escherichia coli</i> partial 16S rRNA gene, isolate H.
4.	HE653998	<i>Bacillus anthracis</i> partial 16S rRNA gene, isolate A1.
5.	HE653996	<i>Escherichia coli</i> partial 16S rRNA gene, isolate M2
6.	FR869987	<i>Paramecium</i> sp. para200 partial 18S rRNA gene, isolate para200.
7.	FR869988	<i>Stylonychia</i> sp. StyloJ3 partial 18S rRNA gene, isolate StyloJ3.

8.	FR869986	definition <i>Paramecium</i> sp. paraGC partial 18S rRNA gene, isolate paraGC
9.	HE662765	<i>Paramecium caudatum</i> partial 18S rRNA gene, isolate FT9.
10.	HE662763	<i>Paramecium caudatum</i> partial 18S rRNA gene, isolate FT7.
11.	HE662761	<i>Paramecium multimicronucleatum</i> partial 18S rRNA gene, isolate FT5.
12.	HE650906	<i>Paramecium multimicronucleatum</i> partial 18S rRNA gene, clone FT1.
13.	HE650907	<i>Paramecium multimicronucleatum</i> partial 18S rRNA gene, clone FT3.
14.	HE662764	<i>Paramecium caudatum</i> partial 18S rRNA gene, isolate FT8.
15.	HE662762	<i>Paramecium multimicronucleatum</i> partial 18S rRNA gene, isolate FT6.
16.	HE662760	<i>Paramecium jenningsi</i> partial 18S rRNA gene, isolate FT4.
17.	HE971994	<i>Bacillus cereus</i> partial 16S rRNA gene, strain MBZ4
18.	HE971995	<i>Klebsiella pneumoniae</i> partial 16S rRNA gene, strain MBZ6
19.	HE820726	<i>Tetrahymena</i> sp. 1.7 partial 18S rRNA gene, isolate 1.7
20.	HE820725	<i>Tetrahymena</i> sp. 1.7 CuMT gene for metallothionein, isolate 1.7
21.	HE662762	(<i>Paramecium multimicronucleatum</i> partial 18S rRNA gene, isolate FT6) Isolation, identification and molecular
22.	HE662761	<u>(<i>Paramecium multimicronucleatum</i> partial 18S rRNA gene, isolate FT5)</u> Isolation, identification and molecular
23.	KP844456	16S rRNA gene of <i>Citrobacter freundii</i>
24.	KP844457	16S rRNA gene of <i>Klebsiella pneumoniae</i>
25.	KP844458	16S rRNA gene of <i>Klebsiella pneumoniae</i>
26.	KP844459	16S rRNA gene of <i>Klebsiella</i>