**CURRICUM VITAE**

**DR. ZUBAIR AHMAD**

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# SAUDI ARABIA

**PERMANENT ADDRESS**:

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***U.P. (INDIA)***

**NATIONALITY: INDIAN**

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**MARITAL STATUS: MARRIED**

**ACADEMIC POSITION**: ***SCIENTIFIC RESEARCHER* 1/12/1985-12/9/2009**

**PRESENT POSITION: *ASSISTANT PROFESSOR***

13/9/2009 Till Now

**ACADEMIC QUALIFICATIONS:**

**Ph. D.** *(ICHTHYOLOGY AND FISHERIES)*

*ALIGARH MUSLIM UNIVERSITY, ALIGARH*

*(INDIA) (1984).*

**M. Phil**. (*ICHTHYOLOGY AND FISHERIES)*

*ALIGARH MUSLIM UNIVERSITY, ALIGARH*

*(INDIA) (1981)*

**M. Sc.** **(***Specialization in Ichthyology and Fisheries)*

*ALIGARH MUSLIM UNIVERSITY, ALIGARH*

*(INDIA)(1977)*

**B. Sc.** ***(Hon****.) ( ZOOLOGY, BOTANY AND CHEMISTRY)*

*ALIGARH MUSLIM UNIVERSITY, ALIGARH*

*(INDIA)(1975)*

**PROFESSIONAL EXPERIENCE:**

**RESEARCH**

**:**  ***Published various papers in National and International Scientific journals in the field of Ecology, Environmental Biology of Fish and Fishery Biology.***

**TEACHING***: Have been teaching under-graduate and post graduate courses in General Biology, Icthyology and Fisheries courses.*

**PROFESSIONAL MEMBERSHIP:**

* **Asian Fisheries Science ( philippines)**
* **Saudi biological society (Saudi Arabia)**
* **National Academy of Sciences (India)**

**CURRENT FIELD OF RESEARCH:**

## Aquatic Ecology, Toxicology and Fish Biology

**TITLE OF M. Sc. PROJECT :**

**Diurnal variations of planktons in a freshwater pond ( Chautal) at Aligarh.**

**TITLE OF M. Phil. DISSERTATION:**

**Ecological study of Baigul and Nanaksagar reservoirs with special reference to plankton and benthic fauna**

**TITLE OF Ph. D. THESIS:**

**Ecology of impoundments and study of the environmental physiology of fishes with special reference to growth and condition.**

**FELLOWSHIPS AWARDED:**

1. **Junior Research Fellowship (Department of Science and Technology, DST, India) from September.1982 to September, 1984.**
2. **Senior Research Fellowship (Department of Science and Technology, DST, India) from September.1984 – September, 1985.**

**RESEARCH PROJECTS IN PROGRESS:**

1. **Research Group Project (RGP- 341)**
2. **Research Group Project (RGP 1435-12)**
3. **NPST project (13-ENV1323-02-R)**

**Research papers Published: 62 Research papers have been published in various national and international refereed journals.**

**PAPERS PRESENTED/ ACCEPTED FOR PRESENTATION AT SYMPOSIA AND CONFERENCES:**

1. **Toxicity of DDT to carp, *Barbus stigma.* Presented at 52 annual session of National Academy of Sciences, India, held at Bhawanagar on October 31, to November,02, 1982.**
2. **Diurnal variations in physico-chemical conditions and plankton of Baigul and Nanaksagar reservoirs (Nainital). Presented at 52 nd annual session of National Academy of Sciences, India, held at Bhawanagar on October 31 to November, 02, 1982.**
3. **Growth and condition of high altitude fish and potential of hill streams. Presented at National Conference on pollutional stress in major Indian riversbasin held at Aligarh from March 19 to 21, 1984.**
4. Taxonomic characterstics of high altitude fish and potential of hill stream. Presented at National Conference on pollutional stress in major Indian river basin held at Aligarh from march 19 to 21, 1984.
5. **Effect of uranium salt of low radiotoxicity on catfish, *Heteropneustes fossilis*. Presented at 3rd symposium on our environment held at singapore. (1984).**
6. **Effect of cadmium on the cichlid fish, *Oreochromis niloticus*: Behavioural and physiological responses. Presented at 10th symposium on the biological aspects of Saudi Arabia held at the Mateorology and Environmental Protection Administration, Jeddah (April 20 – 24, 1987).**
7. **Biochemical and behavioural responses of common carp, *Cyprinus carpio* to sulphuric acid. Presented at 10th symposium on the biological aspects of Saudi Arabia held at the Mateorology and Environmental Protection Administartion, Jeddah (April, 20 – 24, 1987).**
8. **Shahid Mahboob, Hmoud F. Alkahem-Al-Balawi, Ali S. Al-Akel, Fahad Al-Misned and Zubair Ahmad (2009). Status and Developmental trends of aquaculture in Saudi Arabia. Presented in 29th  Pakistan Congress of Zoology held at University of Sindh, Jamshoro (February 24 to 26, 2009). P-157**.

**LIST OF PUBLICATIONS**

1. Mustafa, S. and Ahmad, Z. (1982). Diversity and productivity of benthic Macrofauna of Baigul and Nanaksagar reservoirs (Nainital). Zeitschrift fur Angewandte Zoologie. 69:337-344.

2. Mustafa, S. and Ahmad, Z. (1982). Environmental factors and planktonic communities of Baigul and Nanksagar reservoirs, Nanital. J. Bombay Nat. Hist. Society 82: 13-23.

3. Mustafa, S.; Ahmad, Z.; Rahman, N. and Haque, N. (1984). Effect of pituitary extract on the breeding of catfish, *Heteropneustes fossilis.*Progressive fish Culturist.

4. Alkahem, H.F. and Ahmad, Z. (1987). Studies on the oxygen consumption of *Oreochromis nilticus* and *Cyprinus carpio.* Zeitschrift fur Angewandte Zoologie. 74: 471-477.

5. Alkahem, H. F.; Al-Akel, A. S.; Shamsi, M. J. K. and Ahmad, Z. (1988). Food selection of various size groups of the cyprinid fish, *Cyprinion* *mhalensis* Al-kahem and Behnke, 1983 from Saudi Arabia. Arab Gulf J. Scient. Res. (Sci.) B6: 419-427.

6. Al-Akel, A. S.; Shamsi,M. J. K.; Alkahem, H. F.; Chaudhary, M. A. and Ahmad, Z. (1988). Effect of cadmium on the cichlid fish, *Oreochromis niloticus*: Behavioural and physiological responses. J. Univ. Kuwait, 15: 341-346.

7 Chaudhary, M. A.; Alkahem, H. F.; Al-Akel, A. S.; Ahmad, Z. and Shamsi, M. J. K. (1988). Thyroxine and blood chemistry of carp, *Cyprinus* *carpio.* German J. Appl Zool. 75: 345-353.

8. Alkahem, H. F.; Al-Akel, A. S.; Shamsi, M. J. K.; Ahmad, Z. and Al- Shawa, Y. R. (1990). Food selectivity of an Arabian peninsula’s Cyprinid fish, *Cyprinion Acinaces*. J. king Saud Univ. (Sci.) 2: 37- 42.

9. Alkahem, H. F.; Al-Akel, A. S.; Ahmad, Z. Shamsi, M. J. K. and Chaudhary, M. A. (1990). Biochemical and behavioural Responses of common carp, *Cyprinus carpio*, to sulphuric acid. J. King Abdul Aziz Univ. (Sci.). 2: 55-62.

10. Alkahem, H. F.; Behnke, R. J. and Ahmad, Z. (1990). Some osteological distinction among four Arabian cyprinid species. Japanese J. Ichthyol. 36: 477-482.

11. Alkahem, H. F., Ahmad, Z. and Al-Omer, I. (1994). A study on the behavioural response and haematological profile of carp, *Cyprinus carpio*, exposed to exogenus urea. German J. Appl. Zool. 80: 97-105.

12. Alkahem, H. F.; Ahmad, Z. and Arrasheed, M. A. (1995). Comparative study on the rates of respiration of a native Saudi Arabian fish, *Aphanius dispar* (Ruppell, 1828) andan introduced competitor, *Gambusia affinis* (Baird and Girard, 1853) under laboratory conditions. J. King Saud Univ. (Sci.) 7: 245-253.

13. Al-Akel, A. S.; Alkahem, H.F.; Shamsi, M. J. K. and Ahamad, Z. (1996). Selection of food in various size group of Nile Tilapia, O*reochromis niloticus* (L.), in wadi Haneefah stream, Saudi Arabia. Pakistan J. Zool. 28: 271-275.

14. Alkahem, H. F. and Ahmad, Z. (1996). Haematological responses of cichli fish, *Oreochromis niloticus* (Linnaeus, 1758), exposed to Arabian crude oil. Egyptian J. Appl. Sci. 11: 12-21.

15. Alkahem, H. F.; Al-Akel, A. S.; Ahmad, Z. and Shamsi, M. J. K. (1997). Length-weight relationship, condition co-efficient (K) and relative contiontion co-efficient (Kn) of *Oreochromis niloticus* From Wadi Haneefah Stream, Saudi Arabia. Geobios. 24: 3-9.

16. Alkahem, H. F. Al-Akel, A. S. and Ahmad, Z. (1998). Carbohydrate metabolism and ethological responses of cichlid fish, *Oreochromis iloticus*, exposed to trichlorfon. Geobios. 25: 10-16.

17. Al-Akel, A. S.; Shamsi, M. J. K.; Alkahem, H. F. and Ahmad, Z. (1998). Haematological effects of mangnese toxicity on freshwater fish, *Oreochromis niloticus*, (Perciformes, cichlodae). Pakistan J. Zool. 30: 178-183.

18. Alkahem, H. F.; Al-Akel, A. S.; Shamsi, M. J. K. and Ahmad, Z. (1998). Planktonic biomass and physico-chemical parameters of Wadi Haneefah Stream, Saudi Arabia. Dirasat. 25: 363-376.

19. Alkahem, H. F.; Ahmad, Z.; Al-Akel; A. S. and Shamsi, M. J. K. (1998). Toxicity bioassay and changes in haematological parameters of *Oreochromis niloticus* induced by trichlorfon. Arab Gulf J. scient.

Res. 16; 581-593.

20 Alkahem, H. F.; Shamsi, M. J. K. and Ahmad, Z. (1999). Effect of water polluted with zinc sulphate on survival, bahaviour, carbohydrate *metaboloism* and blood parametrs of cichlid fish, *Oreochromis* niloticus (Linnaeus, 1758). Saudi J. Biol. Sci. 6: 35-45.

21. Alkahem, H. F.; Ahmad, Z. and Alghanim,A. A. (2002). Lenth-weight relationship and monthly changes in different indices of *Oreochromis niloticus*. Pakistan J. Sciece. 54 (3-4).

22. Alkahem, H. F.; Ahmad, Z. and Aldahi, A. A. (2003). Length-weight progression and codition factor of *Epinephelus chlorostigma* and *Epinephelus areolatus* from Arabian Gulf. J. Indian Fisheries Association. (accepted).

23. Alkahem,H. F., Ahmad Z. and Aldhahi, A.A.A. (2004). Studies on age and growth of *Epinephelus chlorostigma* and Epinephelus Areolatus from Arabian Gulf. Agricul. Res. J. Suez Canal Univ. 3(1):27-31.

24. Alkahem, H.F.; Ahmad, Z. and Alghanim, A. A. ( 2005 ). Monthly variations in haematological parameters and biochemical composition of plasma, liver and white muscle of *Oreochromis* *niloticus*. Geobios, 32: 105-112.

25. Alkahem, H. F., Al-Ghanim, K. A. A. and Ahmad, Z. (2007). Studies on feeding ecology of sailfin molly (Poecilia latipinna) dwelling in Wadi Haneefah stream, Riyadh. Pakistan J. Biol. Sci. 10:335-341.

26. Al-Ghanim, Khalid  A., Al-Kahem Al-Balawi, Hmoud F., Al-Akel, Ali S., Al-Misned, Fahad, Ahmad, Zubair, and Annazri, A. (2008). Ethological response and haematological and biochemical profiles of carp (Cyprinus carpio) exposed to trichlorfon. J. Food Agricult. Environ. 6 (3&4):473-479.

27. Al-Kahem Al-Balawi, H.  F., Al-Ghanim, K.  A., Ahmad, Z., Temraz, T. A., Al-Akel, A. S., Al-Misned, F. and Annazri, A. (2008). A threatened fish species (Aphanius dispar) in Saudi Arabia, A case study. Pakistan J. Biol. Sci. 11(19):2300-2307.

**28. Al-Ghanim, K.  A, Al-Akel, A. S., Al-Misned, F., Al-Kahem Al-Balawi, H.  F., Ahmad, Z., and Annazri, A. (2008). Seasonal variations and community structure of plankton in relation to some environmental variables in Wadi Haneefah Stream, Riyadh, Saudi Arabia. Thalassia Salentina, 31:145-162.**

**29.  El Amin, M. S., Al-Akel, A. S., Alkahem Al-Balawi, H. F., Al-Misned, F. and Ahmad, Z. (2010). Spawning of the endangered killi fish, *Aphanius dispar dispar*, (Ruppel, 1829), under laboratory conditions. Animal. Biol. J. 1(4): 185-191.**

**30. Al-Akel, A. S., Al-Misned, F. Alkahem Al-Balawi, H.F., Al-ghanim, K. A., Ahmad, Z. and Annazri, H. (2010). Reproductive biology of sailfin molly, *Poecilia latipinna*, (Lesueur, 1821) in wadi Haneefah stream, Riyadh Saudi Arabia. Pakistan J. Zool. 42 (1) :169-176. (ISI).**

**31. Al-Akel, A. S., Alkahem-Al-Balawi, H. F., Al-Misned, F., Mahboob, S., Ahmad, Z. and Suliman, E. M. (2010). Effects of dietary copper exposure on accumulation, growth, and hematological parameters in *Cyprinus carpio.* J. Toxicol. Environ. Chem. 92:1865-1878.**

**32. Mahboob, S., Sultana, G. S., Al-Akel, A. S., Al-Kahem Al-Balawi, H. F., Al-Misned, F. and Ahmad, Z. (M. Zubair) (2011). Pesticide residues in flesh of *Cirrhinus mrigala* collected from a commercial farm and river Chenab at Trimu Head, Jhang. Pakistan J. Zool. 43:97-101. (ISI)**

**33. Ahmad, Z., Alkahem, H. F. and Aldhahi, A. A. A. (2011). Fecundity, sex ratio and gonado-somatic index of epinephelus chlorostigma and Epinephelus areolatus sampled from Arabian Gulf. Animal Biol. J. 2(3):87-96.**

**34. Alkahem Al-Balawi, H.F., Ahmad, Z., Al-Akel A. S., Al-Misned, F., Suliman, E.M. and Al-Ghanim K.A. (2011). Toxicity bioassay of lead acetate and effects of sub-lethal exposure on growth, haematological parameters and reproduction in *Clarias gariepinus*. Afr. J. Biotech. 10: 11039-11047. (ISI).**

**35. Ahmad, Z. (2011). Acute toxicity and haematological changes in common carp (*Cyprinus carpio*) caused by diazinon exposure. Afr. J. Biotech. 10: 13852-13859. (ISI)**

**36. Ahmad, Z. (2012). Toxicity bioassay and effects of sub-lethal exposure of malathion on biochemical composition and haematological parameters of *Clarias gariepinus*. Afr. J. Biotech. 11: 8578-8585. (ISI)**

**37. Alkahem Al-balawi, H. F., Al-Misned, F., Ahmad, Z. and Mahboob, S. (2013). A study on the concentration of heavy metals in water and sediments of natural water reservoir in Wadi Hanefah, Saudi Arabia and uptake of metals by a fish, *Poecilia latipinna*. Pak. J. Zool. 42:613-618.**

**38. Alkahem Al-balawi, H. F., Al-Akel, A. S., Al-Misned, F., Suliman, E. M., Al-Ghanim K. A., Mahboob, S. and Ahmad, Z. (2013). Effects of sub-lethal exposure of lead acetate on histopathology of gills, liver, kidney and muscle and its accumulation in these organs of *Clarias gariepinus*. Braz. Arch. Biol. Technol. 56(2):293-302 (ISI).**

**39. Ahmad, Z. Al-harsi, I., AlKahem Al-balawi, H. F. and Al-akel, A. S. (2013). Studies on the feeding ecology of Cyprinion mhalensis dwellin in Wadi Bua, Taif, Saudi Arabia. Pak. J. Zool. 351-358 (ISI).**

**40. Mahboob, S., Niazi, F., Sultana, S. and Ahmad, Z. (2013). Assessment of pesticide residues in water, sediments and muscles of *Cyprinus Carpio* from Head Balloki in the River Ravi. Life Sci. J., 10: 32-38. (ISI)**

**41. Hakami, A. H., Alkahem Al-Balawi, H. F., Ahmad, Z., Mahboob, S., Elamin M. Suliman. and. Al-Ghanim, K. A. (2013). Studies on Feeding Ecology of fresh water fish (*Barbus arabicus*) Dwelling in "Beesh Dam", Jazan, Saudi Arabia. Life Sci. J., 10:39-45.(ISI)**

**42. Mahboob, S., Ashraf, S., Al-Misned, F., Ahmad, Z. and Sultana, S. (2013). Determination of fluoride concentration in underground water from different urban areas of Faisalabad city. Life Sci. J., 10: 60-70. (ISI)**

**43. Mahboob, S., Zaib-U-Nisa , Alkahem Al-Balawi, H. F., Al-Misned, F., Ahmad, Z. and Sultana, S. (2013). Study on avian diversity of Thal desert (district Jhang), Punjab, Pakistan. Life Sci. J., 10:1-8. (ISI)**

**44. Ahmad, Z. (2013). Growth and body composition of catfish, *Heteropneustes fossilis* fed testes 3x supplemented diet. Life Sci. J., 10: 123-128. (ISI)**

**45. Mahboob, S. Alkahem Al-Balawi, H. F., Al-Misned, F., Al-Quraishy, S. and Ahmad, Z. (2014). Tissue metal distribution and risk assessment for important fish species from Saudi Arabia. Bull. Environ. Contam. Toxicol. 92: 61-66. (ISI)**

**46. Mahboob, S., Alkahem Al-Balawi, H. F., Al-Misned, F. and Ahmad, Z. (2014). Investigation on the genotoxicity of mercuric chloride to freshwater *Clarias gariepinus*. Pak. Vet. J. 34(1): 100-103. (ISI).**

**47. Ghazala, Mahboob, S., Ahmad, L., Sultana, S., Al-Ghanim, K., Al-Misned, F. and Ahmad, Z. (2014). Fish cholinesterases as biomarkers of sub-lethal effects of organophosphorus and carbamates in tissue of *Labeo rohita*. J. Biochem. Mol. Toxicol. 28(3): 137-142.**

**48. Mahboob, S., Alkahem Al-Balawi, H. F., Al-Misned, F., K. A. Al-Ghanim, and Ahmad, Z. (2014). An evaluation of environmental pollution at Wadi Hanefah, a natural reservoir in Saudi Arabia using oxidative stress indicators in *Poicilia latipinna*. J. Animal and Plant Sci. 24(2):475-480.**

**49. Shahid Mahbooba, H.F. Alkkahem Al-Balwaia, F. Al-Misneda, K.A.Al-Ghanima and Z. Ahmad (2014). A study on the accumulation of nine heavy metals in some important fish species from a natural reservoir in Riyadh, Saudi Arabia. Toxicol. Environ. Chem. 96(5):783-798. DOI:10.1080/02772248.2014.957485**

**50. Ghazala Mustafaab, Shahid Mahboobac, K.A. Al-Ghanimc, Salma Sultanaa, H.F. Alkahem Al- Balawic, Tayyaba Sultanaa, F. Al-Misnedc & Z. Ahmed (2014). Acute toxicity I: effect of profenofos and triazophos organophosphates) and carbofuran and carbaryl (carbamates) to *Labeo rohita.* Toxicol. Environ. Chem. 96(3): 466-473.** [**http://www.tandfonline.com/loi/gtec20**](http://www.tandfonline.com/loi/gtec20)

**51. Shahid Mahbooba, K.A. Al-Ghanima, H.A. Fares Al-Balwia, F. Al-Misneda and Z. Ahmad (2014). Carbofuran-induced effects on acetylcholinesterase (AChE) in erythrocytes and liver of *Cyprinus carpio.* Toxicol. Environ. Chem. 96(4): 614-623.** [**http://www.tandfonline.com/loi/gtec20**](http://www.tandfonline.com/loi/gtec20)

**52. Shahid Mahboob, H. F. Al-kahem Al-Balawi, K. A. Al- Ghanim, F. Al-Misned and Z. Ahmad (2014). Study on Complete Replacement of Fish Meal by Plant Sources Meal as a Dietary Protein for *Labeo rohita* and *Ctenophyryngodon idella.* Pakistan J. Zool., vol. 46(5): 1391-1397.**

**53. Shahid Mahbooba, H.F. Alkkahem Al-Balwaia, K.A. Al-Ghanima, F. Al-Misneda, Z. Ahmeda & El-Amin M. Suliman (2014). Biomarkers of oxidative stress as indicators of water pollution in Nile tilapia (Oreochromis niloticus) from a water reservoir in Riyadh, Saudi Arabia. Toxicol. Environ. Chem. 96(4): 624-632.** [**http://www.tandfonline.com/loi/gtec20**](http://www.tandfonline.com/loi/gtec20)

**54. Ghazala, Shahid Mahboobac, K.A. Al-Ghanimc, Salma Sultanaa, H.F. Alkahem Al-Balawic, Tayyaba Sultanaa, F. Al-Misnedc & Z. Ahmed (2014). Profenofos-induced effect on esterase activity and protein content in liver, kidney, brain, blood, and muscles in Indian major carp. Toxicol. Environ. Chem. 96(4):633-640.** [**http://www.tandfonline.com/loi/gtec20**](http://www.tandfonline.com/loi/gtec20)

**55. Ghazala, S. Mahboob, K. A. Al-Ghanim, S. Sultana, H. F. Alkahem Al- Balawi, T. Sultana, F. Al-Misned1and Z. Ahmed (2014). Acute toxicity II: Effect of organophosphates and carbmates to *Catla catla fingerlings*. The J. Animal & Plant Sci. 24(6): 1795-1801.**

**56. S. Mahboob, S. Haider, S. Sultana, K. A. Al- Ghanim, F. Al-Misned, H. F. Al-Kahem Al-Balawi and Z. Ahmad (2014). Isolation and characterisation of collagen from the waste material of two important freshwater fish species*.* The J. Animal & Plant Sci. 24(6): 1802-1810.**

**57. Shahid Mahboob, K.A. Al-Ghanim, F. Al-Misned and Z. Ahmed (2014). Determination of pesticide residues in muscle of Cyprinus carpio from River Ravi. Toxicol. Environ. Chem., 96: 799-807.**

**58. Zubair Ahmad, Hmoud F. Al-Kahem Al-Balawi, Fahad Al-Misned, Shahid Maboob and El-Amin M. Suliman (2015). Accumulation of heavy metals in the fish, *Oreochromis niloticus* and *Poecilia latipinna* (Leseuer, 1821) and their concentration in water and sediment of dam lake of Wadi Namar, Saudi Arabia. J. Environ. Biol. 34(1):295-299.**

**59. Mahboob Shahid, Niazi Fakhra, Al-Ghanim K., Sultana Salma, Al-Misned F. and Ahmad Z. (2015). Health risks associated with pesticide residues in water, sediments and the muscle tissues of Catla catla at Head Balloki on the River Ravi. Environ. Monit. Assess. 187: 81-**

**60. Ghazala Ghazala, Mahboob Shahid, Sultana Salma Al-Ghanim K. A., Ahmad L., Asi M. R., Sultana T., Al-Misned F. and Ahmad Z. (2015). Fish cholinesterases: biomarkers of neurotoxicity of sublethal effects of carbosufan and parathion in Cirrhinus mrigala. Fresenius Environ. Bull. 24: 565-**

**61. Shahid Mahboob, Ghazala, K.A. Al-Ghanim, Salma Sultana, H. F. Alkahem Al-Balawi,Tayyaba Sultana, F. Al-Misned and Z. Ahmed (2015). A Study on Acute Toxicity of Triazophos, Profenofos, Carbofuran and Carbaryl Pesticides on *Cirrhinus mrigala*. Pakistan J. Zool., 47(2): 461-466.**

**62. K. A. Al- Ghanim , S. Mahboob, H. F. Al-Kahem Al-Balawi, A.S. Al-Akel, F. Al-Misned and Z. Ahmad (2015). Nitrogen input II: performance evaluation of buffalo manure on the production of natural fish food and growth performance of major carps.. The J. Animal & Plant Sci., 25(2): 567-571.**

**63. S. Mahboob, H. M. Ashraf, S. Sultana, T. Sultana, K. A. Al-Ghanim Z. Ahmed and F. Misned (2015). Fish scales - a non-invasive assessment tool for evaluating the effect of pollution on *Cirrhinus mrigala from* the Ravi river, Pakistan. The J. Animal & Plant Sci., 25(4): 1135-1139.**

**64. Mahboob, S., Al-Ghanim, K. A., Sultana, S., Alkahem Al- Balawi, H. F., Sultana, T., Ashraf, A., Al- Misned, F. and Ahmed, Z. (2015). Assessment of meat quality and dressing losses in wild and farmed *Cyprinus carpioa.* Pakistan J. Zool., 46:1753-1759.**

**65. Al-Ghanim, K. A., Ahmad, Z., Al-Kahem Al-Balawi, H. F., Al-Misned, F., Mahboob S., Suliman, El-Amin (2016). Effects of a low- radiotoxicity uranium salt (uranyl acetate) on biochemical and haematological parameters in the catfish, *Clarias gariepinus.* Chinese J. Oceanol. Limnol. 34 (1): 109-117.** [**http://dx.doi.org/10.1007/s00343-015-4392-3**](http://dx.doi.org/10.1007/s00343-015-4392-3)

**66. Ghazala Ghazala, Shahid Mahboob, K. A. Al-Ghanim, Salma Sultana, Tayyaba Sultana, F. Al- Misned, L. Ahmed, Tehniat Shahid and Z. Ahmad (2016).**

**A study on chronic effect of profenofos on acetylcholinesterase and butyrylcholinesterase activities and protein contents in various tissues in major corps. Afr. J. Tradit. Complement Altern. Med., 13(3):54-59.**

**67. Shahid Mahboob, Khalid Abdullah Al-Ghanim, H. F. Alkahem Al-Balawi, F. Al-Misned and Z. Ahmed (2016). Assessment of Accumulation of Trace Elements in Muscles, Gills, Liver and Intestine of *Clarias gariepinus* (Burchell, 1822) from Wadi Hanefah, Saudi Arabia. Pakistan J. Zool. 48(3): 875-880.**

**68. Khalid Al-Ghanim; Ahmed Al-Thobaiti, Humoud F. Alkahem Al-Balawi, Zubair Ahmed; Shahid Mahboob (2016). Effects of Replacement of Fishmeal with other Alternative Plant Sources in the Feed on Proximate Composition of Muscle, Liver and Ovary in Tilapia (*Oreochromis nioloticus*). Braz. Arch. Biol. Technol. v.59: e16160376, Jan/Dec 2016**

**69. Ghazala, Shahid Mahboob, K. A. Al-Ghanim, Salma Sultana, H. F. Alkahem Al- Balawi, Tayyaba Sultana, F. Al-Misned, L. Ahmed and Z. Ahmed (2016). Effect of Triazophos on Esterase Activity and Protein Contents of Liver, Kidney, Brain, Blood and Muscles of *Catla catla, Labeo rohita* and *Cirrhinus mrigala.* Pakistan J. Zool. 48(2): 513-518.**

**70. Tayyaba Sultana, Amir Siddique, Salma Sultana, Shahid Mahboob, Khalid Al-Ghanim and Z. Ahmed (2016). Fish scales as a non-lethal tool of the toxicity of wastewater from the River Chenab. Environ. Sci. Pollut. Res. DOI 10.1007/s11356-016-7962-9**

**71. Tayyaba Sultana, Khadija Butt, Salma Sultana, K. A. Al-Ghanim, Mubashra, Nouman Bashir, Z. Ahmed, Asma Ashraf and Shahid Mahboob (2016). Histopathological Changes in Liver, Gills and Intestine of *Labeo rohita* Inhabiting Industrial Waste Rabia Contaminated Water of River Ravi. Pakistan J. Zool., 83(4): 1171-1177.**

**72. K.A. Al-Ghanim, Shahid Mahboob, Sadia Seemab, S. Sultana, T. Sultana, Fahad Al-Misned, Z. Ahmed (2016). Monitoring of trace metals in tissues of Wallagoattu (lanchi) from the Indus River as an indicator of environmental pollution. Saudi J. Biol. Sci. 23:72-78.** [**http://dx.doi.org/10.1016/j.sjbs.2015.03.012**](http://dx.doi.org/10.1016/j.sjbs.2015.03.012)

**73. Zubair Ahmad, Khalid A. Al-Ghanim, Hmoud F. Alkahem Al-Balawi, F. Al-Misned and Shahid Mahboob (2016). Study on acute toxicity, haematological and biochemical alterations induced by the exposure of DDT to catfish. (Accepted for publication in Fresenius Environmental Bulletin)**

GRADUATE RESEARCH PROJECTS ASSISTED AND AKNOWLEDGED

1. Taxonomic studies on freshwater fishes of Riyadh and Adjacent region.
2. Taxonomic studies on freshwater fishes of Wadi Jizan.
3. Tolerance of different Ph values prepared with different acids and comparision of oxygen consumptiom between *Aphanius dispar* and *Gambusia affinis.*
4. Effect of insecticide on *Oreochromis niloticus*: Tolerance and behavioural changes.
5. Effect of cadmium chloride on African catfifish, *Clarias gariepinus*.
6. Effect of crude oil on *Oreochromis niloticus*.
7. Effect of Lindane-6 on *Oreochromis niloticus*.
8. Effect of diazinon on *Clarias gariepinus*
9. Effect of diazinon on *Cyprinus carpio*

MASTER PROJECTS ASSISTED AND ACKNOWLEDGED

1. Biological studies on hexagonal-spotted grouper, *Epinephelus chlorostigms* (Valenciennes, 1828) and areolated grouper, *Epinephelus areolatus* (Forsskal, 1775) from Arabian Gulf.
2. Some ecological studies and seasonal changes in biochemical and biological parameters of Tilapian fishes (*Oreochromis sp*.) from an effluent water body in Wadi Haneefah, Saudi Arabia.
3. Biological study of freshwatyer fish, *Cyprinion mhalensis* (Alkahem and Behnke, 1983) from Wadi Bouwa, Taif, Saudi Arabia.

Ph. D. WORK ASSISTED AND ACKNOWLEDGED

1. Ecology of sailfin molly, *Poecilia latipinna* (Lesueur, 1821) in Wadi Haneefah Stream, Riyadh, Saudi Arabia.