

Publications :

1. Mahmoud A. O. Dawood, Fawzy I. Magouz, Mohamed Mansour, Ahmed A. Saleh, Amel M. El Asely, Sabreen E. Fadl, Hamada A. Ahmed, **Khalid A. Al-Ghanim**, Shahid Mahboob and Fahed Al-Misned. (2020). Evaluation of Yeast Fermented Poultry By-Product Meal in Nile Tilapia (*Oreochromis niloticus*) Feed: Effects on Growth Performance, Digestive Enzymes Activity, Innate Immunity, and Antioxidant Capacity. *Frontiers in Veterinary Science*. Doi: 10.3389/fvets.2019.00516. **Q1**
2. Young Ock Kim, Shahid Mahboob, Ponnuswamy Viayaraghavan, Devadhasan Biji, **Khalid Abdullah Al-Ghanim**, Fahid Al-Misned, Zubair Ahmed, Jun-Tack Kwon, Sae Won Na and Hak-Jae Kim. (2020). Growth promoting activity of *Penaeus indicus* by secondary metabolite producing probiotic bacterium *Bacillus subtilis* isolated from the shrimp gut. *Journal of King Saud University – Science*. <https://doi.org/10.1016/j.jksus.2019.12.023>. **(Q2 Journal 2.83 IF)**.
3. Munipally Praveen Kumar, Estari Mamidala, **Khalid A. Al-Ghanim**, F. Al-Misned and Shahid Mahboob. (2019). Evaluation of the andrographolides role and its indoleamine 2,3-dioxygenase inhibitory potential and attendant molecular mechanism against STZ-induced diabetic rats. *Saudi Journal of Biological Sciences*. <https://doi.org/10.1016/j.sjbs.2019.12.007>. **(Q1 Journal 2.82 IF)**.
4. Chidhambaram Manikkaraja, Shahid Mahboob, **Khalid A. Al-Ghanim**, Durairaj Rajesha, Kumaresan Selvaraja, Muthusamy Sivakumard, Fahad Al-Misned, Zubair Ahmed and Govindaraju Archunan. (2019). A novel method to detect bovine sex pheromones using l-tyrosine-capped silver nanoparticles: Special reference to nanosensor based estrus detection. *Journal of Photochemistry & Photobiology, B: Biology*. <https://doi.org/10.1016/j.jphotobiol.2019.111747>. **Q1**
5. Ghazala Ghazala, Salma Sultana, **K. A. Al-Ghanim**, Shahid Mahboob. (2019). The Effect of Profenofos on the Nutritive Composition of Major Carp

- for Estimating Maximum Allowable Toxicant Concentration of the Pesticide. *Pol. J. Environ. Stud.* Vol. 28(3): 1-7.
6. Hak-Jae Kim, Shahid Mahboob, Ponnuswamy Viayaraghavan, **Khalid Abdullah Al-Ghanim**, Fahad Al-Misned, Young Ock Kim and Zubair Ahmed. (2019). Determination of toxic effects of lead acetate on different sizes of zebra fish (*Danio rerio*) in soft and hard water. *Journal of King Saud University – Science*. <https://doi.org/10.1016/j.jksus.2019.11.032>. (Q2 Journal 2.83 IF).
 7. Tayyaba Sultana, Sadia Mahmood, Salma Sultana, **K.A. Al-Ghanim**, Z. Ahmed, Tehniat Shahid, Ashfaq Ahmad and Shahid Mahboob. (2019). Update on the genotyping distribution, epidemiology and associated risk factors in inflammatory disorder in adult subjects: A cross-sectional study. *Journal of King Saud University – Science*. <https://www.sciencedirect.com/science/article/pii/S1018364719318087>. (Q2 Journal 2.83 IF).
 8. S. Sultana, F. Jabeen, T. Sultana, **K. A. AL-Ghanim**, F. Al-Misned and S. Mahboob. (2019). Assessment of heavy metals and its impact on DNA fragmentation in different fish species. *Brazilian Journal of Biology*. <https://doi.org/10.1590/1519-6984.221849>. Q3
 9. Rahat Andleeb, Asma Ashraf, Saima Muzammil, Shabana Naz, Farkhanda Asad, Tayyaba Ali, Rida Rafi, **K.A. Al-Ghanim**, F. Al-Misned, Z. Ahmed and Shahid Mahboob. (2019). Analysis of bioactive composites and antiviral activity of *Iresine herbstii* extracts against Newcastle disease virus in ovo. *Saudi Journal of Biological Sciences*. Vol. 7: 335-340. <https://doi.org/10.1016/j.sjbs.2019.10.002>. (Q1 Journal 2.82 IF).
 10. **K. A. Al-Ghanim**, Shahid Mahboob, P. Vijayaragavan, F. A. Al-Misned and Young Ock Kim. (2020). Sub-lethal effect of synthetic pyrethroid pesticide on metabolic enzymes and protein profile of non-target *Zebra fish, Danio rerio*. *Saudi Journal of Biological Sciences*. vol. 27: 441 - 447. <https://doi.org/10.1016/j.sjbs.2019.11.005>. (Q1 Journal 2.82 IF).
 11. Shengming Sun, Ying Wu, Xianping Ge, Ivan Jakovlić, Jian Zhu, Shahid Mahboob, **Khalid Abdullah Al-Ghanim**, Fahad Al-Misned and Hongtuo Fu. (2020). Disentangling the interplay of directional and purifying selective pressures that shaped mitochondrial genomes of *Gammarus pisinnus* and *Gammarus lacustris*.

- Royal Society Open Science. <http://dx.doi.org/10.6084/m9.figshare.c.4777508>. (Q2 Journal 2.515 IF).
12. Zubia Rashid, Syed Muddassar Hussain Gilani, Asma Ashraf, Sitwat Zehra, Abid Azhar, **K.A. Al-Ghanim**, F. Al-Misned, S. Mahboob and Saddia Galani. (2019). Benchmark taxonomic classification of chicken gut bacteria based on 16S rRNA gene profiling in correlation with various feeding strategies. Journal of King Saud University – Science. <https://doi.org/10.1016/j.jksus.2019.09.013>. (Q2 Journal 2.83 IF).
 13. Tayyaba Sultana, Anam Raza, Salma Sultana, **K.A. Al-Ghanim**, F. Al-Misned, Tehniat Shahid and Shahid Mahboob. (2019). A54T polymorphism in fatty acid binding protein 2 gene is associated in Type 2 Diabetes Mellitus in adult subjects. Journal of King Saud University – Science. <https://doi.org/10.1016/j.jksus.2019.09.004>. (Q2 Journal 2.83 IF).
 14. Bilal Hussain, Maleeha Fatima, **K.A. Al-Ghanim**, F. Al-Misned and Shahid Mahboob. (2019). Assessment of DNA integrity through MN bioassay of erythrocytes and histopathological changes in Wallago attu and Cirrhinus mirigala in response to freshwater pollution. Saudi Journal of Biological Sciences. Vol. 27 : 251- 260. <https://doi.org/10.1016/j.sjbs.2019.09.003>. (Q1 Journal 2.82 IF).
 15. He Zhou, Zi-Xin Zhuang, Yu-Qing Sun, Qi Chen, Xin-Yi Zheng, YuTing Liang, Shahid Mahboob, Qian Wang, Rui Zhang, **Khalid A. Al-Ghanim**, ChangWei Shao and Ya-Juan Li. (2019). Changes in DNA methylation during epigenetic-associated sex reversal under low temperature in Takifugu rubripes. PLOS ONE. <https://doi.org/10.1371/journal.pone.0221641>. Q1
 16. Shahid Mahboob, **Khalid A. Al-Ghanim**, H. F. Al-Balawi, F. Al-Misned and Z. ahmed. (2019). Toxicological effects of heavy metals on histological alterations in various organs in Nile tilapia (Oreochromis niloticus) from freshwater reservoir. Journal of King Saud University – Science. <https://doi.org/10.1016/j.jksus.2019.07.004>. (Q2 Journal 2.83 IF).
 17. Dong Zhang, Hong Zou, Cong-Jie Hua, Wen-Xiang Li, Shahid Mahboob, **Khalid Abdullah Al-Ghanim**, Fahad Al-Misned, Ivan Jakovli, and Gui-Tang Wang. (2019). Mitochondrial Architecture Rearrangements Produce Asymmetrical Nonadaptive Mutational Pressures That Subvert the

- Phylogenetic Reconstruction in Isopoda. *Genome Biol. Evol.* 11(7):1797–1812. Doi:10.1093/gbe/evz121.
18. Tayyaba Sultana, Iza Iftikhar, Salma Sultana, **K.A. Al-Ghanim**, F. Al-Misned, Tehniat Shahid and Shahid Mahboob. (2019). C677T genotypes in methyltetrahydrofolate reductase gene in student obesity. *Journal of King Saud University – Science.* –<https://doi.org/10.1016/j.jksus.2019.05.009>. **(Q2 Journal 2.83 IF)**.
 19. Shahid Mahboob, **Khalid Abdullah Al-Ghanim**, Fahad Al-Misned, Tehniat Shahid, Salma Sultana, Tayyaba Sultan, Bilal Hussain and Zubair Ahmed. (2019). Impact of Water Pollution on Trophic Transfer of Fatty Acids in Fish, Microalgae, and Zoobenthos in the Food Web of a Freshwater Ecosystem. *Biomolecules.* Vol. 9(231):1-12. Doi:10.3390/biom9060231. **(Q1 Journal 5.583 IF)**.
 20. Hong Zou, Dong Zhang, Cong-Jie Hua, Shahid Mahboob, **Khalid A. Al-Ghanim**, Wen-Xiang Li, Ivan Jakovlić, Gui-Tang Wang. (2019). Asymmetry between the evolutionary time and skew magnitude in crustacean mitogenomes: exceptional mutational pressures in Cymothoidae and Corallanidae. *Biology Letters.* **Q1. In press.**
 21. Mu Naushad, Tansir Ahamad, **Khalid A. Al-Ghanim**, Ala'a H. Al-Muhtaseb, Gaber E. Eldesoky, and Azmat Ali Khan d. (2019). A highly porous nanocomposite (Fe₃O₄@BFR) for the removal of toxic Cd(II) ions from aqueous environment: Adsorption modelling and regeneration study. *Composites Part B : Engineering.* <https://doi.org/10.1016/j.compositesb.2019.05.046>. **Q1**
 22. Zaib-Un-Nisa, Salma Sultana, Tayyba Sultana, **K. A. Al-Ghanim**, Meshal K. Al-Ghanem, F. Al-Misned, Shahid Mahboob. (2019). Environmental Exposure to Metals and Bioaccumulation in the Liver of Three Freshwater Species of Turtles from Two Different Rivers. *Polish Journal of Environmental Studies.* Vol. 28(5) : 1-8. DOI: 10.15244/pjoes/90786.
 23. Chengxue Ma, Patteson Chula Mwagona, Hongxian Yu, Xiaowen Sun, Liquan Liang and Shahid Mahboob and **Khalid Abdullah Al-Ghanim**. (2019). Seasonal dynamics of zooplankton functional group and its relationship with physico-chemical variables in high turbid nutrient-rich Small Xingkai

- Wetland Lake, Northeast China. *Journal of Freshwater Ecology*. Vol. 34(1): 65-79.
24. Yongsheng Zhou, Yingchun Zhu, Bingshe Xu, Xueji Zhang, **Khalid A. Al Ghanim** and Shahid Mahboob. (2019). Cobalt Sulfide Confined in N Doped Porous Branched Carbon Nanotubes for Lithium Ion Batteries. *Nano-Micro Letters*. 11:29. <https://doi.org/10.1007/s40820-019-0259-z>. Q1
 25. Chengxue Ma, Patteson Chula Mwagona, Hongxian Yu, Xiaowen Sun, Liqun Liang, **K. A. Al-Ghanim** and Shahid Mahboob. (2019). Spatial and temporal variation of phytoplankton functional groups in extremely alkaline Dali Nur Lake, North China. *Journal of Freshwater Ecology*. Vol. 34(1): 91-105. DOI: 10.1080/02705060.2018.1554545
 26. Congmin Zhu, Junyi Zhang, Muhammad Zohaib Nawaz, Shahid Mahboob, **Khalid A. Al-Ghanim**, Iqrar Ahmad Khan, Zuhong Lu, Ting Chen. (2019). Seasonal succession and spatial distribution of bacterial community structure in a eutrophic freshwater Lake, Lake Taihu. *Science of the Total Environment*. Vol. 669: 29-40. <https://doi.org/10.1016/j.scitotenv.2019.03.087>. Q1
 27. Bilal Hussain, Maleeha Fatima, **Khalid Abdullah Al-Ghanim**, Shahid Mahboob. (2019). Environmentally induced nephrotoxicity and histopathological alternations in *Wallago attu* and *Cirrhinus mrigla*. *Saudi Journal of Biological Sciences*. <https://doi.org/10.1016/j.sjbs.2019.02.003>. Q1
 28. **Khalid Abdullah AL-GHANIM**, Zubair AHMAD, Hmoud Alkahem Al-Balawi, Fahad AL-MISNED, Shahid MAHBOOB, El-Amin SULIMAN. (2019). Accumulation and histological transformation in the gills, liver, muscle and skin in *Oreochromis niloticus* induced by mercury. *Turk J Vet Anim Sci*. Vol. 43. Doi:10.3906/vet-1710-50. Q3
 29. Syed Awais Attique, Muhammad Hassan, Muhammad Usman, Rana Muhammad Atif, Shahid Mahboob, **Khalid A. Al-Ghanim**, Muhammad Bilal, Muhammad Zohaib Nawaz. (2019). A Molecular Docking Approach for Evaluating the Potential Drugs Candidates against Hypertension 4 from Natural Sources. *Int. J. Environ. Res. Public Health*. Vol. 16 (923) [doi:10.3390/ijerph16060923](https://doi.org/10.3390/ijerph16060923) Q2
 30. Rai S. Ali Khan, Mudasser Habib, Waqas Ali, Muhammad Salah Ud Din Shah, Asma Ashraf, Zahid Ali Tahir, Zeinab H. Helal, Mazhar I. Khan, Shahid Mahboob,

- Khalid A-Al-Ghanim**, F. Al-Misned. (2019). Phylogenetic analysis of Infectious Bursal Disease viruses according to newly proposed model of classification into geno-groups. *Journal of Infection and Public Health*. Vol. 981: 1-9. <https://doi.org/10.1016/j.jiph.2018.12.012>. **Q2**
31. Bilal Hussain, Tayyaba Sultana, Salma Sultana, **Khalid Abdullah Al-Ghanim**, F. Al-Misned, Shahid Mahboob. (2019). Influence of habitat degradation on the fatty acid profiles of fish, microalgae, and zoobenthos in a river ecosystem. *Process Safety and Environmental Protection*. vol. 122: 24 - 32. **(Q1 Journal 3.441 IF)**.
32. Soumble Zulfiqar, Khuram Shehzad, Sana Tahir, **Khalid A. Al-Ghanim** and Abdul Rauf Shakoori. (2019). Dual Role of Multicopper Oxidase of *Klebsiella pneumoniae* as a Copper Homeostatic Element and a Novel Alkaline Laccase with Potential Application in Green Chemistry. *Pakistan Journal of Zoology*. Vol. 51(1) :107-115. DOI: <http://dx.doi.org/10.17582/journal.pjz/2019.51.1.107.115>.
33. Shahid Mahboob, **K.A. Al-Ghanim**, F. Al-Misned, H.F. Alkahem Al-Balawi, Asma Ashraf, Norah M.A. Al-Mulhim. (2019). Genetic diversity in tilapia populations in a freshwater reservoir assayed by randomly amplified polymorphic DNA markers. *Saudi Journal of Biological Sciences*. <https://doi.org/10.1016/j.sjbs.2018.11.015>. **Q1**
34. Asma Ashraf, Sara Zafar, Khizra Zahid, Muhammad Salahuddin Shah, **Khalid A. Al-Ghanim**, F. Al-Misned, Shahid Mahboob. (2019). Synthesis, characterization, and antibacterial potential of silvernanoparticles synthesized from *Coriandrum sativum* L., *Journal of Infection and Public Health*. <https://doi.org/10.1016/j.jiph.2018.11.002>. **Q2**
35. S. Mahboob, **K. A. Al-Ghanim**, H. F. Alkahem Al- Balawi, F. Al-Misned and Z. Ahmed. (2019). Study on assessment of proximate composition and meat quality of fresh and stored *Clarias gariepinus* and *Cyprinus carpio*. *Brazilian Journal of Biology*. DOI: 10.1590/1519-6984.187647.
36. Guangyao Zhang, Dan Shan, Haifeng Dong, Serge Cosnier, **Khalid Abdullah Al-Ghanim**, Zubair Ahmad, Shahid Mahboob and Xueji Zhang. (2018). DNAMediated Nanoscale Metal-Organic Frameworks for Ultrasensitive Photoelectrochemical Enzyme-Free Immunoassay. **Anal. Chern.** 90: 12284-12291. **Q1**

37. A. Al-Thobaiti, **K. Al-Ghanim**, Z. Ahmed, E. M. Suliman and S. Mahboob. (2018). Impact of replacing fish meal by a mixture of different plant protein sources on the growth performance in Nile Tilapia (*Oreochromis niloticus* L.) diets. *Brazilian Journal of Biology*. vol.78 (3):525-534.
38. Muhammad Tariq Zahid, Farah Rauf Shakoori, Soumble Zulfiqar, **Khalid A. Al-Ghanim** and Abdul Rauf Shakoori. (2018). Growth Characteristics, Metal Uptake and Expression Analysis of Copper Metallothionein in a Newly Reported Ciliate, *Tetrahymena farahensis*. *Pakistan J. Zool.*, vol. 50(3):1171-1181.
39. Hong Zou, Ivan Jakovlić, Dong Zhang, Rong Chen, Shahid Mahboob, **Khalid Abdullah Al-Ghanim**, Fahad Al-Misned, Wen-Xiang Li, Gui-Tang Wang. (2018). The complete mitochondrial genome of *Cymothoa indica* has a highly rearranged gene order and clusters at the very base of the Isopoda clade. *PLOS ONE*. doi.org/10.1371/journal.pone.0203089. **Q1**
40. Bilal Hussain, Tayyaba Sultana, Salma Sultana, **Khalid Abdullah Al-Ghanim**, Muhammad Shahreef Masoud and Shahid Mahboob. (2018). Use of statistical analysis to validate ecogenotoxicology findings arising from various comet assay components. *Environmental Science and Pollution Research*. vol. 25(10): 9730-9736. **Q2**
41. S. Ahmad, Z. Saleem, F. Jabeen, B. Hussain, T. Sultana, S. Sultana, **K. A. Al-Ghanim**, N. M. A. Al-Mulhim and S. Mahboob. (2018). Potential of natural repellents methylantranilate and anthraquinone applied on maize seeds and seedlings against house sparrow (*Passer domesticus*) in captivity. *Brazilian Journal of Biology*. vol.78 (4): 667-672.
42. Bintong Huang, Lili Xiao, Haifeng Dong, Xueji Zhang, Wei Gan, Shahid Mahboob, **Khalid Abdullah Al-Ghanim**, Qunhui Yuan and Yingchun Li. (2017). Electrochemical sensing platform based on molecularly imprinted polymer decorated N, S co-doped activated graphene for ultrasensitive and selective determination of cyclophosphamide. *Talanta*. 164: 601–607. **Q1**
43. S. Ahmad, Z. Saleem, F. Jabeen, B. Hussain, T. Sultana, S. Sultana, **K. A. Al-Ghanim**, N. M. A. Al-Mulhim and S. Mahboob. (2018). Potential of natural repellents ethylantranilate and anthraquinone applied on maize seeds and

- seedlings against house sparrow (*Passer domesticus*) in captivity. **Brazilian Journal of Biology**. <http://dx.doi.org/10.1590/1519-6984.171686>. **Accepted. Q4**
44. Bilal Hussain, Tayyaba Sultana, Salma Sultana, **Khalid Abdullah Al-Ghanim**, Muhammad Shahreef Masoud, Shahid Mahboob. (2018). Use of statistical analysis to validate ecogenotoxicology findings arising from various comet assay components. **Environmental Science and Pollution Research**. <https://doi.org/10.1007/s11356-018-1268-z>. **Q2**
45. Shahid Mahboob, **K.A. Al-Ghanim** and Norah M. A. Al-Mulhim1. (2017). Fish Exposure to Sub-Lethal Toxicity of Nano-Titanium Oxide and Changes in Muscular Antioxidant Enzymes and Protective Role of Vitamins C and E in *Clarias Gariepinus*. **INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY**. Vol. 19 (6) : 1505–1510. **Q2**
46. **Khalid Al-Ghanim**, Ahmed Al-Thobaiti, Hmoud F. Alkahem Al-Balawi, Zubair Ahmed and Shahid Mahboob. (2017). Effects of Replacement of Fishmeal with other Alternative Plant Sources in the Feed on Proximate Composition of Muscle, Liver and Ovary in Tilapia (*Oreochromis niloticus*). **BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY**. Vol.60: e16160376. <http://dx.doi.org/10.1590/1678-4324-2016160376>.
47. Rahat Naveed, Salma Sultana, Muhammad Nawaz, Ihsan Ullah, **Khalid Abdullah Al-Ghanim**, Ahmed Al-Thobaiti and Shahid Mahboob. (2017). Genetic Variability in *Labeo rohita*, *Catla catla* and their Hybrid (*Labeo rohita* ♂ × *Catla catla* ♀) Populations Employing Randomly Amplified Polymorphic (RAPD)-Inter Simple Sequence Repeat (ISSR) Assays. **INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY**. Vol. 19 (4) : 643–648. **Q2**
48. Shahid Mahboob, Salma Sultana, **K.A. Al-Ghanim**, F. Al-Misned, Tayyaba Sultana, Bilal Hussain and Z. Ahmed. (2017). Distribution and Accumulation of Polychlorinated Biphenyls (PCB), Polycyclic Aromatic Hydrocarbons (PAHs) and Organo-chlorine Residues in the Muscle Tissue of *Labeo rohita*. **INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY**. Vol. 19 (4) : 701–706. **Q2**
49. Muhammad Bilal, Muhammad Zohaib Nawaz, Hafiz M.N. Iqbal, Jialin Hou, Shahid Mahboob, **Khalid A. Al-Ghanim**, Cheng Hairong. (2018).

- Engineering ligninolytic consortium for bioconversion of lignocelluloses to ethanol and chemicals. *Protein and Peptide Letter*. Vol. 25 : DOI : 10.2174/0929866525666180122105835 Q4
50. B. Niaz¹, M. I. Rajoka, K. A. Al-Ghanim, S. Yousaf, S. Mahboob and S. Nadeem. (2017). OPTIMIZING THE CONCENTRATION OF BIOTIN FOR L-GLUTAMIC ACID PRODUCTION BY A LOCALLY ISOLATED CORYNEFORM STRAIN. *The J. Anim. Plant Sci*. 27(4): 1217-1224. Q3
51. Shumei Gu, Kefeng Ma, Jinming Kong, Khalid A. Al-Ghanim, Shahid Mahboob, Ying Liu and Xueji Zhang. (2017). Functionalized Polyethyleneimine-gold Nanoparticles-Porphyrin Nanocomposite for Electrochemical Glucose Biosensing. *International Journal of ELECTROCHEMICAL SCIENCE*. 12 : 5092 – 5103, Doi: 10.20964/2017.06.85. Q3
52. Aqib Zafar Khan, Ayesha Shahid, Cheng Hairong, Shahid Mahboob, Khalid A. Al-Ghanim, Muhammad Bilal, Fang Liang and Muhammad Zohaib Nawaz. (2018). Omics Technologies for Microalgae-based Fuels and Chemicals: Challenges and Opportunities. *Protein and Peptide Letter*. vol. 25 :1-9. Q4
53. Tayyaba Sultana, Aqsa Afzal, Salma Sultana, Khalid Al-Ghanim, Tehniat Shahid, Zahra Jabeen, Nusrat Turab, Z. Ahmed, Shahid Mahboob. (2017). Epidemiological estimates of Respiratory diseases in the hospital population, Faisalabad, Pakistan. *BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY*. Vol.60: e17160358, <http://dx.doi.org/10.1590/1678-4324-2017160358> ISSN 1678-4324 Online Edition.
54. Abdul Rauf Shakoori, Saira Aftab, and Khalid Al-Ghanim. (2017). Structural Changes in Chromosomes, Chapter (12). Springer India. pp 245-274. DOI 10.1007/978-81-322-3673-3_12.
55. Bilal Hussain, Tayyaba Sultana, Salma Sultana, K. A. Al-Ghanim, Shahreef Masood, Muhammad Ali and Shahid Mahboob. (2017). Microelectrophoretic study of environmentally induced DNA damage in fish and its use for early toxicity screening of freshwater bodies. *Environ Monit Assess*. 189:115. DOI 10.1007/s10661-017-5813-x. Q3

56. 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. *Fresenius Environmental Bulletin*. Vol. 25: 5935-5943.
57. Chuanju Dong¹, Lin Chen¹, Jingyan Feng, Jian Xu, Shahid Mahboob, **Khalid Al-Ghanim**, Xuejun Li and Peng Xu. (2016). Genome Wide Identification, Phylogeny, and Expression of Aquaporin Genes in Common Carp (*Cyprinus carpio*). *PLOS ONE*. DOI:10.1371/journal.pone.0166160. **Q1**
58. Fang Xu, Haifeng Dong, Yu Cao, Huiting Lu, Xiangdan Meng, Wenhao Dai, Xueji Zhang, **Khalid Abdullah Al-Ghanim**, and Shahid Mahboob. (2016). Ultrasensitive and Multiple Disease-Related MicroRNA Detection Based on Tetrahedral DNA Nanostructures and Duplex-Specific Nuclease-Assisted Signal Amplification. *ACS APPLIED MATERIALS & INTERFACES*. 8 Issue: 49 Pages: 33499-33505. **Q1**
59. Cuiyun Lu, Muhammad Younis Laghari, Xianhu Zheng, Dingchen Cao, Xiaofeng Zhang, Youyi Kuang, Chao Li, Lei Cheng, Shahid Mahboob, **Khalid A Al-Ghanim**, Shu Wang, Guoliang Wang, Jing Sun, Yan Zhang and Xiaowen Sun (2016). Mapping Quantitative Trait Loci and Identifying Candidate Genes Affecting Feed Conversion Ratio Based onto Two Linkage Maps in Common carp (*Cyprinus carpio* L.). *Aquaculture*. vol. 468 : 585–596. <http://dx.doi.org/10.1016/j.aquaculture.2016.10.040>. **Q2**
60. Likun Jiang, Songhao Zhang, Chuanju Dong, Baohua Chen, Jingyan Feng, Wenzhu Peng, Shahid Mahboob, **Khalid A. Al-Ghanim**, Peng Xu. (2016). Genome-wide identification, phylogeny, and expression of fibroblast growth genes in common carp. *GENE*. vol. 578 : 225–231. **Q3**
61. 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. **(IF 2.76 - Q2)**.
62. You-Yi Kuang, Xian-Hu Zheng, Chun-Yan Li, Xiao-Min Li, Ding-Chen Cao, Guang-Xiang Tong, Wei-Hua Lv, Wei Xu, Yi Zhou, Xiao-Feng Zhang, Zhi-Peng Sun, Shahid Mahboob, **Khalid A. Al-Ghanim**, Jiong-Tang Li and Xiao-Wen Sun.

- (2016). The genetic map of goldfish (*Carassius auratus*) provided insights to the divergent genome evolutions in the Cyprinidae family. [Scientific Reports](#). DOI: 10.1038/srep34849. www.nature.com/scientificreports. Q1
63. Farah Anjum, Farah R. Shakoori, **K.A. Al-Ghanim** and Abdul Rauf Shakoori. (2016). Effect of Inorganic Mercury on Drug Metabolizing Enzymes of Promethazine-Pretreated and Phenobarbitone-Pretreated Male Rabbit. *Pakistan J. Zool.*, vol. 48(5):1485-1494.
64. S. Sultana, A. Zahra, T. Sultana, **K. A. Al- Ghanim** and S. Mahboob. (2016). EFFECT OF DIFFERENT ARTIFICIAL FFEDS FORMULATED FROM LOCAL INGREDIENTS ON THE MEAT QUALITY OF INDIAN MAJOR CARPS. [The Journal of Animal and Plant Sciences](#). 26(4) :1140-1145. Q3
65. Suliman, **Khalid A. Al-Ghanim**. (2016). Appraisal of heavy metal levels in some marine organisms gathered from Vellar and Uppanar estuaries, South East Coast of Indian Ocean. [BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY](#). **In press**.
66. Abdul Rauf Shakoori, Muhammad Tariq Zahid, Farah Rauf Shakoori, Soumble Zulfiqar and **Khalid A. Al-Ghanim**. (2016). Growth characteristics, metal uptake and expression analysis of copper metallothionein in a newly reported ciliate, *Tetrahymena farahensis*. [World Journal of Microbiology and Biotechnology](#). **Accepted**.
67. Shahid Mahboob, Shazia Kausar, Farhat Jabeen, S. Sultana, T. Sultana, **K.A. Al-Ghanim**, Bilal Hussain, Fahad Al-Misned1 and Z. Ahmed. (2016). Effect of Heavy Metals on Liver, Kidney, Gills and Muscles of *Cyprinus carpio* and *Wallago attu* inhabited in the Indus. [BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY](#). Vol.59: e16150275. <http://dx.doi.org/10.1590/1678-4324-2016150275>.
68. Asma Ashraf, Mohammad Slah U Din, Muhammad Habib, Mujahid Hussain, Shahid Mahboob and **Khalid Al-Ghanim**. (2016). Isolation, Identification and Molecular Characterization of Highly Pathogenic Newcastle Disease Virus From Field Outbreaks. [BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY](#). Vol.59: e16160301. <http://dx.doi.org/10.1590/1678-4324-2016160301>.

69. RAAZIA TASADDUQ1, JONATHAN GORDON, **KHALID A. AL-GHANIM**, JANE B. LIAN, ANDRE J. VAN WIJNEN, JANET L. STEIN, GARY S. STEIN AND ABDUL RAUF SHAKOORI. (2016). Ethanol Extract of *Cissus quadrangularis* Enhances Osteoblast Differentiation and Mineralization of Murine Pre-Osteoblastic MC3T3-E1 Cells. **Journal of Cellular Physiology**. DOI 10.1002/jcp.25449. **Q2**
70. Bilal HUSSAIN, Tayyaba SULTANA, Salma SULTANA, **K. A. AL-GHANIM**, Shahid MAHBOOB. (2016). Effect of pollution on DNA damage and essential fatty acid profile in *Cirrhinus mrigala* from River Chenab. Chinese Journal of Oceanology and Limnology. <http://dx.doi.org/10.1007/s00343-017-5304-5>.
71. Sana Ullah, Zaqhim Hussain, Shahid Mahboob, **Khalid Al-Ghanim**. (2016). Heavy Metals in Garra gotyla, *Cyprinus carpio* and *Cyprinion watsoni* from the River Panjkora, District, Lower Dir, Khyber Pakhtunkhwa, Pakistan. BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY. Vol. 59 : e16160321.
72. Tayyaba Sultana, Khadija Butt, Salma Sultana, **K. A. Al-Ghanim**, Rabia Mubashra, Nouman Bashir, Z. Ahmed, Asma Ashraf and Shahid Mahboob. (2016). Histopathological Changes in Liver, Gills and Intestine of *Labeo rohita* Inhabiting Industrial Waste Contaminated Water of River Ravi. Pakistan J. Zool., vol. 48(4) : 1171-1177.
73. 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., vol. 48(3): 875-880.
74. Bilal Hussain, Tayyaba Sultana, Salma Sultana, Shahid Mahboob, Muhammad Farooq, **Khalid Al-Ghanim**, and Shahid Nadeem. (2016). First report on fish cysteine as a biomarker of contamination in the River Chenab, Pakistan. **Environmental Science and Pollution Research**. DOI 10.1007/s11356-016-6711-4. **Q1**
75. Bilal Hussain, Tayyaba Sultana, Salma Sultana, Shahid Mahboob, **K. A. Al-Ghanim**, and Shahid Nadeem. (2016). Variation in genotoxic susceptibility

- and biomarker responses in *Cirrhinus mrigala* and *Catla catla* from different ecological niches of the River Chenab. **Environmental Science and Pollution Journal**. DOI 10.1007/s11356-016-6645-x. **Q1 (IF 2.282)**.
- 76.** Yang Zhang, Meiqin Zhang, Qianhui Wei, Yongjie Gao, Lijuan Guo, **Khalid A. Al-Ghanim**, Shahid Mahboob and Xueji Zhang. (2016). An Easily Fabricated Electrochemical Sensor Based on a Graphene-Modified Glassy Carbon Electrode for Determination of Octopamine and Tyramine. **Sensors**. 16 : 535. Doi :10.3390/s16040535 **Q1**
- 77.** Ming Ming Han, Jianguo Lu, Le Wang, Shahidd Mahboob, **Khalid A. Al-Ghanim** and Xiao-Wen Sun. (2016). Complete mitochondrial genome of the *Triplophysa bombifrons* and *Triplophysa strauchii*. **Mitochondrial DNA**. DOI : 10.3109/19401736.2015.1106513.
- 78.** Ghazala Ghazala, Shahid Mahboob, **K. A. Al-Ghanim**, Salma Sultana, Tayyaba Sultana, F. Almisned, L. Ahmed, Tehniat Shahid, Zubair Ahmad. (2016). A STUDY ON CHRONIC EFFECT OF PROFENOFOS ON ACETYLCHOLINESTERASE AND BUTYRYLCHOLINESTERASE ACTIVITIES AND PROTEIN CONTENTS IN VARIOUS TISSUES IN MAJOR CARPS. **Afr J Tradit Complement Altern Med**. 13(3) :54-59.
- 79.** Ming-Ming Han, Jian-Guo Lu, Le-Wang, Li-Na-Peng, Shahidd Mahboob, **Khalid A. Al-Ghanim** and Xiao-Wen Sun. (2016). Cloning and Analysis of N-Acetyltransferase 9 Genes in Yellow Catfish *Pelteobagrus fulvidraco*. **Biochemistry & Physiology**. Vol. 5 (1) : 1-5. **Not ISI**
- 80.** Ming-Ming Han, Le-Wang, Li-Na-Peng, Shahidd Mahboob, **Khalid A. Al-Ghanim**, Jian-Guo Lu and Xiao-Wen Sun. (2016). Microfibrillar-Associated Protein 4 (MFAP4) Genes in *Pelteobagrus fulvidraco* play a Novel Role in Innate Immune Response. **Biochem Physiol**. 5:1. <http://dx.doi.org/10.4172/2168-9652.1000198>. **Not ISI**
- 81.** Farah Anjum, Farah R. Shakoori, **K. A. Al-Ghanim** and Abdul Rauf Shakoori. (2016). Effect of inorganic mercury on drug metabolizing enzymes of promethazine-pretreated and phenobarbitonepretreated male rabbit. *Pakistan J. Zool.*, vol. 48(5):1485-1494.
- 82.** Bibi Nazia Murtaza, Shareen Doak, Claire Morgan, Muhammad Shahid Nadeem, **Khalid A. Al-Ghanim** and Abdul Rauf Shakoori. (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. [Journal of Cellular Biochemistry](#). 9999 :1–6. **Q2**
- 83.** Ying-Chun Li, Lu Zhang, Jiang Liu, Shu-Feng Zhou, **Khalid Abdullah Al-Ghanem**, Shahid Mahboob, Bang-Ce Ye and Xueji Zhang. (2016). A novel sensitive and selective electrochemical sensor based on molecularly imprinted polymer at nanoporous gold leaf modified electrode for warfarin sodium determination. [RSC Advances](#). 6: 43724-43731. DOI: 10.1039/C6RA05553B. **Q1**
- 84.** Salma Sultana, Sadia Tabassum, Tayyaba Sultana, **K. A. Al-Ghanim**, Komal Shah, Tehniat Shahid and Shahid Mahboob. (2016). A CYTOGENIC MONITORING APPROACH OF HOSPITAL WORKERS OCCUPTIONALLY EXPOSED TO IONIZING RADIATIONS USING MICRONUCLEUS ASSAY. [Afr J Tradit Complement Altern Med](#). Vol. 13(2) :185-190.
- 85.** Rim A. Hussein, **Khalid A. Al-Ghanim**, Magda M. Abd-El-Atty, Laila A. Mohamed. (2016). Contamination of Red Sea Shrimp (*Palaemon serratus*) with Polycyclic Aromatic Hydrocarbons : A Health Risk Assessment Study. [Pol. J. Environ. Stud](#). Vol. 25(2) : 1-8.
- 86.** 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.](#), vol. 48(2) : 513-518.
- 87.** Likun Jiang, Weiwei You, Xiaojun Zhang, Jian Xu, Yanliang Jiang, Kai Wang, Zixia Zhao, Baohua Chen, Yunfeng Zhao, Shahid Mahboob, **Khalid A. Al-Ghanim**, Caihuan Ke and Peng Xu. (2016). Construction of the BAC Library of Small Abalone (*Haliotis diversicolor*) for Gene Screening and Genome Characterization. [Mar Biotechnol](#). vol. 18(1) :49-56. **Q1**
- 88.** Xiang liu, Shangqi Li, Shuaisheng Feng, Wenzhu Peng, Jianxin Feng, Shahid Mahboob, **Khalid A. Al-Ghanim** and Peng Xu. (2016). Genome-Wide Identification, Characterization and Phylogenetic Analysis of ATP-Binding

- Cassette (ABC) Transporter Genes in Common Carp (*Cyprinus carpio*). **PLOS ONE**. DOI:10.1371/journal.pone.0153246. **Q1**
89. Tailin Xu, Nikki Scafa, Li-Ping Xu, Shufeng Zhou, **Khalid A. Al-Ghanim**, Shahid Mahboob, Bunshi Fugetsue and Xueji Zhanga. (2016). Electrochemical hydrogen sulfide biosensors. **Journal Analyst**. 141 : 1185-1195. **Q1**
90. Dong, HaiFeng, Cao, Yu; Feng, Xiaoyan, Dai, Wenhao, **Al-Ghanim, Khalid A.**, Mahboob, Shahid, Lu, Huiting and Zhang, Xueji. (2016). Size-Dependent and Carboxyl-Related Photothermal/Photodynamic Therapy Efficiency of Nano-Graphene Oxide Sheets. **Journal of Materials Chemistry B. Or The Journal of Physical Chemistry Part: Part C**. In press. **Q1**
91. Muhammad Tariq Zahid, Farah Rauf Shakoori, Soumble Zulifqar, Ishtiaq Ahmed, **Khalid Al-Ghanim**, Shahid Mehboob and Abdul Rauf Shakoori. (2016). Molecular Characterization of a Copper Metallothionein Gene from a Ciliate Tetrahymena farahensis. **Journal of Cellular Biochemistry**. 117:1843-1854. **Q2**.
92. **K. A. Al-Ghanim**. (2016). Effect of Different Storage Temperatures on Chemical Composition and Sensory Attributes of the Flesh of *Cyprinus carpio* and *Clarias gariepinus*. **Pakistan J. Zool.**, vol. 48(2) : 305-310.
93. Zubair Ahmad, **K. A. Al-Ghanim**. (2016). Study on acute toxicity, haematological and biochemical alterations induced by the exposure of DDT to catfish. **Chinese Journal of Oceanology and Limnology**. In press.
94. Chuanju Dong, Likun Jiang, Wenzhu Peng, Jian Xu, Shahid Mahboob, **Khalid A. Al-Ghanim**, Xiaowen Sun, Peng Xu. (2015). Phylogenetic and Evolutionary Analyses of the Frizzled Gene Family in Common Carp (*Cyprinus carpio*) Provide Insights into Gene Expansion from Whole-Genome Duplications. **PLOS ONE**. 10(12) : e0144037. Doi : 10.1371/journal.pone.0144037. **Q1**
95. Zubair Ahmad, **Khalid. A. Al-Ghanim**, 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* and their concentration in water and sediment of dam lake of Wadi

- Namar, Saudi Arabia. [Journal of Environmental Biology](#). Vol. 36(1): 295-299.
96. Shahid Mahboob, **K. A. Al-Ghanim**, Salma Sultana, H. F. Alkahem Al-Balawi, Tayyaba Sultana, Asma Ashraf, F. Al-Misned and Z. Ahmed. (2015). Assessment of Meat Quality and Dressing Losses in Wild and Farmed *Cyprinus carpio*. [Pakistan J. Zool.](#), vol. 46(6) :1753-1759.
97. **Khalid. A. Al-Ghanim**, Zubair Ahmad, Hmoud F. Alkahem Al-Balawi, Fahad Al-Misned, Shahid Mahboob and El-Amin M. Suliman. (2016). Effects of a low- radiotoxicity uranium salt (uranyl acetate) on biochemical and haematological parameters of the catfish, *Clarias gariepinus*. [Chinese Journal of Oceanology and Limnology](#). Vol. 34 (1) : 109-117.
98. Tong Shu, Lei Su, Shu-Feng Zhou, **Khalid A. Al-Ghanim**, Shahid Mahboob, Bunshi Fugetsu, Xueji Zhang. (2016). Recent Advances in Gold (I) Complexes Based Biological Applications. [American Journal of Biomedical Sciences](#). ISSN: 1937-9080. [Not ISI](#)
-
99. S. Mahboob, H. M. Ashraf, S. Sultana, T. Sultana, **K. A. Al-Ghanim**, Z. Ahmed and F. Al-Misned. (2015). FISH SCALES - A NON-INVASIVE ASSESSMENT TOOL FOR EVALUATING THE EFFECT OF POLLUTION ON CIRRHINUS MRIGALAFROM THE RAVI RIVER, PAKISTAN. [The Journal of Animal & Plant Sciences](#). 25(4) : 1135-1139.
100. Xiao-Min Li, Ying-Nan Song, Gui-Bao Xiao, Bai-Han Zhu, Gui-Cai Xu, Ming-Yuan Sun, Jun Xiao, Shahid Mahboob, **Khalid A. Al-Ghanim**, Xiao-Wen Sun and Jiong-Tang Li, (2015). Gene Expression Variations of Red-White Skin Coloration in Common Carp (*Cyprinus carpio*). [International Journal of Molecular Sciences](#). Vol. 16(9): 21310-21329. [Q2](#)
101. Likun Jiang, Baohua Chen, Jianxin Feng, Shahid Mahboob, and **Khalid A. Al-Ghanim**. (2015). Intraspecific mitochondrial variations between *Rhinogobio typus* from the Yellow River and Yangtze River. [Mitochondrial DNA](#). DOI: 10.3109/19401736.2015.1074206.
102. Likun Jiang, Weiwei You, Xiaojun Zhang, Jian Xu, Yanliang Jiang, Kai Wang, Zixia Zhao, Baohua Chen, Yunfeng Zhao, Shahid Mahboob, **Khalid A. Al-Ghanim**, Caihuan Ke and Peng Xu. (2015). Construction of the

- BAC library of small abalone (*Haliotis diversicolor*) for gene screening and genome characterization. [Marine Biotechnology](#). DOI 10.1007/s10126-015-9666-4.
103. Likun Jiang, Baohua Chen, Shahid Mahboob, **Khalid A. Al-Ghanim** and Jianxin Feng. (2015). Complete mitochondrial genomes of two ornamental fishes. [Mitochondrial DNA](#). DOI: [10.3109/19401736.2015.1038790](#).
 104. Jun Cui, Jian Xu, Songhao Zhang, Kai Wang, Yanliang Jiang, Shahid Mahboob, **Khalid A. Al-Ghanim** and Peng Xu. (2015). Transcriptional Profiling Reveals Differential Gene Expression of Amur ide (*Leuciscus waleckii*) during Spawning Migration. [International Journal of Molecular Sciences](#). Doi: 10.3390/ijms160613959.
 105. Likun Jiang, Songhao Zhang, Baohua Chen, Shahid Mahboob, **Khalid A. Al-Ghanim** and Jianxin Feng. (2015). Complete mitochondrial genomes of two ornamental fishes. [Mitochondrial DNA](#). DOI: [10.3109/19401736.2015.1038790](#).
 106. Shahid Mahboob, Salma Sultana, Hafiz Muhammad Ashraf, Tayyaba Sultana, **Khalid Abdullah Al-Ghanim** and Fahad Al-Misned. (2015). Fish scales as a nonlethal screening tool for assessing the effects of surface water contaminates in *Cyprinus Carpio*. [Fresenius Environmental Bulletin](#). Vol. 24 (12b): 4628 – 4634.
 107. **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 Journal of Animal & Plant Sciences](#). 25(2): 567-571.
 108. **Khalid A. Al-Ghanim**, Magda Abdelatty, Lyla Abdelfattah and Shahid Mahboob. (2015). Differential Uptake of Heavy Metals by Gill, Muscles and Liver of Four Selected Fish Species from Red Sea. [Pakistan J. Zool.](#), vol. 47(4): 1031-1036.
 109. **K.A. Al-Ghanim**, Shahid Mahboob, Sadia Seemab, S. Sultana, T. Sultana, Fahad Al-Misned and Z. Ahmed. (2015). Monitoring of trace metals

- in tissues of *Wallago attu* (lanchi) from the Indus River as an indicator of environmental pollution. [Saudi Journal of Biological Sciences](#). 23 : 72–78.
110. Farah R. Shakoori, **K. Al-Ghanim**, Shahid Mehboob and Abdul Rauf Shakoori. (2015). Effect of Inorganic Mercury on Drug Metabolizing Enzymes of Promethazine-Pretreated and Phenobarbitone–Pretreated Male Rabbit. [Journal of Environmental Pathology, Toxicology and Oncology \(USA\)](#). [\(In press\)](#).
111. Aftab Ahmad, Sadia Ashraf, **Khalid Al-Ghanim**, Shahid Mehmoob, Rabail Hassan Toor and Abdul Rauf Shakoori. (2015). Anti-proliferative Effects of Arsenic, Cadmium and Lead on Rat Pups Brain Cells. [Pakistan J. Zool.](#), 47(2) : 515-522.
112. 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.](#), vol. 47(2): 461-466.
113. Shahid Mahboob, Fakhra Niazi, **K. Al-Ghanim**, Salma Sultana, F. Al-Misned and Z. Ahmed. (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](#). Vol. 187(3): 4285.
114. Ghazala Ghazala, Shahid Mahboob, Salma Sultana, **Khalid Abdullah Al -Ghanim**, Laeeq Ahmad, Muhammad Rafique Asi, T. Sultana, Fahad Almisned and Zubair Ahmed. (2015). FISH CHOLINESTERASES : BIOMARKERS OF NEUROTOXCITY OF SUBLETHAL EFFECTS OF CARBOSULFAN AND PARATHION IN CIRRHINUS MRIGALA. [Fresenius Environmental Bulletin](#). Vol. 24 : 565 – 569.
115. Muhammad Tahir Asghar, **K. Al-Ghanim**, Shahid Mahboob, Muhammad Sharif, Jawad Nazir, Abdul Rauf Shakoori. (2015). Sphingomonas sp. is a Novel Cell Culture Contaminant. [Journal of Cellular Biochemistry](#). 116(6):934–942.
-
116. Basharat Ahmed, **K. Al- Ghanim**, Shahid Mahboob, Farah R. Shakoori and A. R. Shakoori. (2014). Plasmid Profile Analysis and

- Antimicrobial Resistance Pattern of *Shigella flexneri* Strains Isolated from Azad Kashmir, Pakistan. *Pakistan J. Zool.*, vol. 46(6):1605-1616.
117. Raheela Chaudhry, Muhammad Tausif Chaudhry, Khalid Al-Ghanim, Shahid Meboob and Abdul Rauf Shakoori. (2014). Structure modeling of small subunit ribosomal RNA (SSU rRNA) of copper resistant ciliates. *Pakistan J. Zool.*, 46:1625-1632.
 118. 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. *J. Anim. Plant Sci.*, vol. 24(6): 1802-1810.
 119. Ghazala, S. Mahboob, **K. A. Al-Ghanim**, S. Sultana, H. F. Alkahem Al-Balawi, T. Sultana, F. Al-Misned and Z. Ahmed. (2014). ACUTE TOXICITY II: EFFECT OF ORGANOPHOSPHATES AND CARBAMATES TO *CATLA CATLA* FINGERLINGS. *J. Anim. Plant Sci.*, vol. 24(6): 1795-1801.
 120. A. Ashraf, S. Mahboob, **K. Al-Ghanim**, T. Huma and M. S. Shah. (2014). Immunogenic Activity of Lipopolysaccharides from *Pasteurella Multocida* in Rabbits. *J. Anim. Plant Sci.*, vol. 24(6): 1780-1785.
 121. Shahid Mahboob, H.F. Alkahem Al-Balwai, **K.A. Al-Ghanim**, F. Al-Misned, Z. Ahmed and 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. *Toxicological & Environmental Chemistry*. **Vol. 96(4) : 624-632.**
 122. Ghazala Ghazalaa, Shahid Mahboob, **K.A. Al-Ghanim**, Salma Sultana, H.F. Alkahem Al-Balawi, Tayyaba Sultana, F. Al-Misned and Z. Ahmed (2014). Profenofos-induced effect on esterase activity and protein content in liver, kidney, brain, blood, and muscles in Indian major carp. *Toxicological & Environmental Chemistry*. **Vol. 96(4) : 633-640.**
 123. 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 *Ctenophryngodon idella*. Pakistan J. Zool., vol. 46(5): 1391-1397.
124. Farah R. Shakoori, Fareeda Tasneem, **K. Al-Ghanim**, S. Mahboob, F. Al-Misned, Nusrat Jahan, and Abdul Rauf Shakoori. (2014). Variability in Secondary Structure of 18S Ribosomal RNA as Topological Marker for Identification of *Paramecium* species. Journal of Cellular Biochemistry. Vol. **115(12): 2077-2088**.
 125. Shahid Mahboob, **K.A. Al-Ghanim**, H.A. Fares Al-Balwi, F. Al-Misned and Z. Ahmad. (2014). Carbofuran-induced effects on acetylcholinesterase (AChE) in erythrocytes and liver of *Cyprinus carpio*. Toxicological & Environmental Chemistry. Vol. **96(4) : 614-623**.
 126. Shahid Mahboob, H.F. Alkkaheem Al-Balwai, F. Al-Misned, **K.A. Al-Ghanim** 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. Toxicological & Environmental Chemistry. Vol. **96(5): 808-813**.
 127. Yanliang Jiang, Songhao Zhang, Jian Xu, Jianxin Feng, Shahid Mahboob, **Khalid A. Al-Ghanim**, Xiaowen Sun, Peng Xu. (2014). Comparative Transcriptome Analysis Reveals the Genetic Basis of Skin Color Variation in Common Carp. **PLOS ONE. Vol. 9 (9): e108200**.
 128. Ghazala Mustafa, Shahid Mahboob, **K.A. Al-Ghanim**, Salma Sultan, H.F. Alkkaheem Al- Balawi, Tayyaba Sultan, F. Al-Misned and Z. Ahmed. (2014). Acute toxicity I: effect of profenofos and triazophos (organophosphates) and carbofuran and carbaryl (carbamates) to *Labeo rohita*. Toxicological & Environmental Chemistry. <http://dx.doi.org/10.1080/02772248.2014.952517>.
 129. Songhao Zhang, Yanliang Jiang, Jun Cui, Shahid Mahboob, **K. Al-Ghanim**, Peng Xu, and Jinsheng Sun. (2014). The complete mitochondrial genome of *Microdevario kubotai* (Cypriniformes: Cyprinidae: Danioninae: *Microdevario*). **Mitochondrial DNA. ISSN: 27(2): 1150-1151**.
 130. Chuanju Dong, Baohua Chen, Likun Jiang, Jian Xu, Shahid Mahboob, **Khalid A. Al-Ghanim**, Peng Xu, and Xiaowen Sun. (2014).

- Complete mitochondrial genome of yellowfin goby (*Acanthogobius hasta*). [Mitochondrial DNA. 27\(2\): 1231-1232.](#)
131. Muhammad Younis Laghari, Punhal Lashari, Xiaofeng Zhang, Peng Xu, Naeem Tariq Narejo, Yongxin Liu, Shahid Mehboob, **K. Al-Ghanim**, Yan Zhang and Xiaowen Sun. (2014). Mapping QTLs for Swimming Ability Related Traits in *Cyprinus carpio* L. Marine Biotechnology Journal. DOI 10.1007/s10126-014-9578-8.
132. Jun Cui, Punhal Lashari, Songhao Zhang, Kai Wang, Jian Xu, Muhammad Younis Laghari, Shahid Mahboob, **Khalid A. Al-Ghanim**, Yan Zhang, and Peng Xu. (2014). The complete mitochondrial genome of *Channa marulius* (Perciformes: Channidae: Channa). [Mitochondrial DNA. 27\(2\): 1148-1149.](#)
133. Chuanju Dong, Baohua Chen, Jian Xu, Shahid Mahboob, **K. Al-Ghanim**, Peng Xu, and Xiaowen Sun. (2014). The complete mitochondrial genome of Russian sturgeon (*Acipenser gueldenstaedti*). [Mitochondrial DNA. 27\(2\): 986-987.](#)
134. Shahid Nadeem, Bushra Niaz, M.I. Rajoka, **K.A. Al-Ghanim**, H. M. Muzammil, Shahid Mahboob, Ahmad Nadeem, Shumaila Yousaf1 and A.R. Shakoori. (2014). Optimizing Different Vitamins for L-Glutamic Acid Production by Brevibacterium Strain NIAB SS59. Pakistan J. Zool., 46(3): 733-739.
135. Ghazala Mustafa, Shahid Mahboob, **K.A. Al-Ghanim**, Salma Sultana, H.F. Alkahem Al- Balawi, Tayyaba Sultana, F. Al-Misned and Z. Ahmed. (2014). Acute toxicity I: Effect of profenofos and triazophos (organophosphates) and carbofuran and carbaryl (carbamates) to *Labeo rohita*. Toxicological & Environmental Chemistry. Vol. 96(3): 466 – 473.
136. Zubair Ahmad, **Khalid. A. Al-Ghanim**, Hmoud F. Al-Kahem Al-Balawi, Fahad Al-Misned, Shahid Maboob and El-Amin M. Suliman. (2014). Effect of exogenous ovarian steroids on growth and muscle composition of catfish, *Heteropneustes fossilis*. Afinidad, Vol. 80: 568.
137. Mobeen Akhtar, Shahid Mahboob, Salma Sultana, Tayyaba Sultana, **Khalid Abdullah Al-Ghanim** and Zubair Ahmed. (2014). Assessment of

- Pesticide Residues in Flesh of *Catla catla* from Ravi River, Pakistan. The Scientific World Journal, Article ID 708532, 8 pages. Project No. RG- 341.
138. Songhao Zhang, Jun Cui¹, Chun-Yan Li, Shahid Mahboob, **K. Al-Ghanim**, Peng Xu and Jinsheng Sun. (2014). The complete mitochondrial genome of *Rasbora borapetensis* (Cypriniformes: Cyprinidae: Rasbora). [Mitochondrial DNA. 27\(2\): 861-862.](#)
139. Shahid Mahboob and **Khalid A. Al-Ghanim** (2014). Effect of Poultry Droppings on the Primary Productivity and Growth Performance of Major Carps in Polyculture System. Pakistan J. Zool., vol. 46(3) : 799-803. Project No. RG-341.
140. S. Mahboob, H. F. Alkahem Al- Balawi, F. Al-Misned, **K. A. Al-Ghanim**, and Z. Ahmed (2014). AN EVALUATION OF WATER POLLUTION IN THE WADI HANEFAH, A NATURAL RESERVOIR IN SAUDI ARABIA USING OXIDATIVE STRESS INDICATORS IN *Poecilia latipinna*. The Journal of Animal & Plant Sciences, 24(2): 2014, Page: 475-480 ISSN: 1018-7081. RG-341.
141. Shahid Mahboob, Ghazala, **K.A. Al-Ghanim**, S. Sultana, Fahad Al-Misned and Z. Ahmed (2014). [Cholinesterases II : Fish Cholinesterases as Biomarkers of Sublethal Effects of Parathion and Carbosulfan in Tissues of freshwater fish.](#) Pakistan J. Zool., vol. 46(1) : 121-128. RGP-VPP-341.
142. Ghazala, Shahid Mahboob, L. Ahmad, S. Sultana, **K. Al-Ghanim**, F. Al-Misned and Z. Ahmad (2014). Fish Cholinesterases as Biomarkers of Sublethal Effects of Organophosphorus and Carbamates in Tissues of *Labeo Rohita*. Journal Biochem Molecular Toxicology, vol. 28(3): 137-142. RGP-VPP-341.
143. **Khalid Abdullah Al-Ghanim** (2014). Effect of an Organophosphate Insecticide Diazinon on the Activity of Acetylcholinesterase and Lipid Peroxidation of a Common Carp, *Cyprinus Carpio* L. Pakistan J. Zool., 46(1): 161-166. (PJZ-1572-13).
144. **Khalid A. Al-Ghanim** (2014). Effect of a Synthetic Pyrethroid, Cypermethrin, on Aminotransferases and Glutamate Dehydrogenases Activities in Gill, Liver and Muscles of a Freshwater Fish, *Cyprinus carpio*. Pakistan J. Zool., 46(4): 997-1001.

145. **Khalid Abdullah Al-Ghanim**, Magda Magdy Abd El-Salam and Shahid Mahboob (2014). Assessment of Water Quality for Some Roof Tanks : a Case Study in Alkharj Governorate, KSA. *Pakistan J. Zool.*, 46(4): 1003-1012.
-
146. Tamer El-Sayed Ali, **Khalid Al-Ghanim** and Juliette Legler (2013). Novel non-estrogenic endpoints of alkylphenol toxicity in fish. *Indian Journal of Geo-Marine Sciences*. Vol. 42(6): 770-774.
147. Ali H. Hakami, Hmoud F. Alkahem Al-Balawi, Zubair Ahmad, Shahid Mahboob, Elamin M. Sulaiman, **K. A. Al-Ghanim**. (2013). Studies on Feeding Ecology of fresh water fish (*Barbus arabicus*) Dwelling in Beesh Dam, Jazan, Saudi Arabia. *Life Science Journal*, (11s):39-45.
148. **Khalid Abdullah Al-Ghanim** (2013). Study on the effect of diazinon on haematological indices in common carp (*Cyprinus carpio* L.). *Life Science Journal*, (10s):327-332.
149. Hmoud Fares Alkkahem Al-Balwai, Fahad Al-Misned, Zubair Ahmad, **Khalid Al-Ghanim** and Shahid Mahboob (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*. *Pakistan J. Zool.*, 45(3), 589-593.
150. Hmoud Fares Alkahem Al-Balawi, Ali Sulaiman Al-Akel, Fahad Al-Misned, El Amin Mohamed Sulaiman, **Khalid Abdullah Al-Ghanim**, Shahid Mahboob and Zubair Ahmad (2013). Effects of sublethal exposure of lead acetate on histopathology of gills, liver, kidney and muscle and its accumulation these organs of *Clarias gariepinus*. *Brazilian Archives of Biology and Technology*, 56, 293-302.
-
151. Pearlstein, S.L., Felger, R.S., Glenn, E.P., Harrington, J., **Al-Ghanim**, K.A., Nelson, S.G. (2012). Nipa (*Distichlis palmeri*): A perennial grain crop for saltwater irrigation. *Journal of Arid Environments*, 82: 60-70.
152. **Khalid Abdullah Al-Ghanim**. (2012) Chronic toxic effect of malathion on haematological parameters in *Oreochromis niloticus*. *African Journal of Agricultural Research* Vol. 7(23): 3459-3463.

153. **Al-Ghanem, K. A.** (2012). Malathion toxicity in Nile tilapia, *Oreochromis niloticus* - A haematological and biochemical study. African Journal of Agricultural Research, Vol. 7(4): 561-567.
154. **Al-Ghanem, K. A.** (2012). Acute toxicity and effects of sub-lethal malathion exposure on biochemical and haematological parameters of *Oreochromis niloticus*. Scientific Research and Essays Vol. 7(16): 1674-1680.
155. **Khalid A. Al-Ghanim.,** Shahid Mahboob Rana. (2012). Effect of sodium cyanide on the activities of some oxidative enzymes and metabolites in *Clarias gariepinus*. African Journal of Biotechnology. Vol. 11(41): 849-9854.
156. Mahboob S., Farooq M., Mahmood S., Nasir N., Sultana S., Chaudhry A.S., Al-Akel A.S., Alkahem Al-Balawi H.F., Al-Misned F. and **Al-Ghanim K.A.** (2012). Phylogenetic relationship of cultured and wild *Labeo Rohita* and *Cirrhinus Mrigala* based on muscles proteins profile in different weight groups : A new tool in phylogenetic analysis. International Journal of Food Properties. Vol. 15:949–960.
157. **Al-Ghanim, K. A.** (2012). “Spatio-Temporal Distribution and Composition of Zooplankton in Wadi Hanifah Stream Riyadh (Saudi Arabia) and Abu Zabaal Lakes (Egypt)”. Pakistan J. Zool., vol. 44 (3): 727-736.
158. Shahid Mahboob, Abdul Rauf, Muhammed Ashraf, Tayyaba Sultana, Salma Sultana, Farhat Jabeen, Muhammad Ibrahim Rajoka Alkahem Al-Balawi, H. F and **Khalid, A. Al-Ghanim.** (2012). High-density growth and crude protein productivity of a thermotolerant *Chlorella vulgaris*: Production kinetics and thermodynamics. Aquacult Int., Vol. 20: 455–466.
159. Gamal, M. El-Shabrawy and Khalid **A. Al-Ghanim.** (2012). Aquatic Habitats in Africa. In Samir Ghabbour (ed) Animal Resources in Africa and Their Biodiversity, *Encyclopedia of Life Supporting Systems* (EOLSS) UNESCO (Letter of Acceptance 2011).
-
160. **Al-Ghanim, K. A.** (2011). Effect of cobalt-supplemented diets on bioaccumulation, digestive enzyme activities and growth of *Cyprinus carpio*. Journal of Toxicological and Environmental Chemistry, 93 (5): 985-995.

161. **Al-Ghanim, Khalid Abdullah.** (2011). Impact of Ni on Hematological parameters and behavioral changes in *Cyprinus carpio* (Common carp). African Journal of Biotechnology, Vol. 10 (63): 13860 - 13866.
162. Shahid Mahboob Rana, Muhammad Rafique Asi, Fakhirah Niazi, Salma Sultana, Ghazala & **K.A. Al-Ghanim** (2011). Determination of organochlorine and nitrogen containing pesticide residues in *Labeo rohita*, Toxicological and Environmental Chemistry, Vol. 93: 1851–1855.
163. Hmoud Fares Alkahem Al-Balawi, Zubair Ahmad*, Ali Sulaiman Al-Akel, Fahad Al-Misned, El-Amin Mohamed Sulaiman and **Khalid Abdullah Al-Ghanim.** (2011). Toxicity bioassay of lead acetate and effects of its sublethal exposure on growth, haematological parameters and reproduction in *Clarias gariepinus*. African Journal of Biotechnology Vol. 10(53): 11039-11047.
164. **Al-Ghanim, K. A.,** Alam, Aftab, Al-afedh, Yousef, S. and Fitzsimmons, Kevin. (2011). Tilapia Aquaculture In Saudi Arabia Farming With Seaweed May Improve Economic, Environmental Sustainability. Global aquaculture advocate.
165. 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.
-
166. Fitzsimmons, Kevin, **Al-Ghanim, K. A.** and Naim, Sidrotun Z. (2009). Tilapia Production, Market Report Production, Consumption Increase Despite Economic Downturn. Global aquaculture advocate.
-
167. **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.
168. 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.

169. Al-Ghanim, K. A, Al-Akel, A. S., Al-Mesnad, 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. *J. Thalassia Salentina*, 31: 145-162.
-
170. Al-kahem, H.F, Al-Ghanim K.A. and Ahmad, Z. (2007). Studies on feeding of Sailfin Molly (*P. latipinna*) Dwelling in Wadi Haneefah stream, Riyadh, Kingdom of Saudi Arabia. *Pakistan J. Biol. Sce.* 10(2):335-341.
-
171. Al-kahem, H.F., Ahmad, Z. and Al-Ghanim, K.A. (2005). Monthly innovations in haematological profile and biochemical composition of liver and white muscle of *Oreochromis niloticus* (Linnaeus,1758). *Geobios* 32(2-3):105-112.
-
172. Al-kahem, H.F., Ahmad, Z. and Al-Ghanim, K.A. (2002). Length-Weight relationship and monthly changes in different idices of *Oreochromis niloticus*. *Pakistan J. Sci.* 54(1-2):9-13
-