

Curriculum Vitae

Full name **Khalid Abdullah Abdurrahman Al-Ghanim**
Place of birth **Riyadh**
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ACADEMIC BACKGROUND

***Bachelor of Science in Zoology – Zoology Department – Faculty of Science – King Saud University, 27-10-1992.**

***Master of Science in Zoology (Animal Ecology and Pollution) – Faculty of Science - King Saud University, 14-1-2001.**

*** Philosophy doctorate of Science in Zoology - Zoology Department – Faculty of Science – King Saud University, 29-1-2006.**

COURSES AND WORKSHOPS

- **Course in Computer skills (Windows 95), Riyadh Computer Club, Ministry of Education, 1997.**
- **Course in Computer skills (Word 97), Riyadh Computer Club, Ministry of Education, 1997.**
- **Course in Science Teaching Strategies at the Department of Education and Training, Riyadh, Ministry of Education, 2001.**

- Course in the evaluation of advanced student, Riyadh -Ministry of Education, 2006.

Academic position

- Professor of aquatic ecology, Zoology Department, College of Science, King Saud University, from 01. 03. 2016 till present.
- Associate professor of aquatic ecology, Zoology Department, College of Science, King Saud University, from 19. 08. 2013 till present.
- Associate professor of animal Ecology and Pollution – College of Science and Humanity Studies – Salman bin Abdulaziz University from 15-3-2012.
- Assistant professor of animal Ecology and Pollution – College of Science and Humanity Studies – Salman Bin Abdulaziz University from 2007 - 2012.
- Science and Biology teacher in intermediate and secondary grades in public schools – Riyadh – Ministry of Education, from 1993 until 2007.

TEACHING

- Teaching undergraduate students, a number of University courses, General Preparation Department, College of Science and Humanity Studies – Salman Bin Abdulaziz University and King Saud University:
 - ❖ 1080Bio General Biology course, College of Science and Humanity Studies from 2010.
 - ❖ 106Bio General Biology course, College of Medicine, Dentistry, Pharmacy, and Applied Medical Science from 2008.
 - ❖ 145Zoo General Zoology course, College of Medicine, Dentistry, Pharmacy, and Applied Medical Science. King Saud University from 2013 until present time.
 - ❖ 103Zoo General Zoology course, College of Science - King Saud University from 2013 until present time.
 - ❖ 521Zoo Aquatic animals course for graduate students, College of Science - King Saud University.

- ❖ 571Zoo Animal ecology and pollution course for graduate students, College of Science - King Saud University.
- ❖ 374Zoo Aquatic ecology course for undergraduate students, College of Science - King Saud University.
- ❖ 673Zoo Aquatic animals ecology course for graduate students, College of Science - King Saud University.

Financed projects as PI

- Financed projects as PI Research groups project. RGP-341- 2013-2014.
- Financed projects as PI Research groups project. RGP-1436-11- 2015. Until the present time.

Financed projects as CoI

- Financed projects as CoI Research groups project. RGP-1435-012. 2014-2015. until the present time.

- Teaching the constituent course (Scientific research) for officers from 29-4-1434 H.

SCIENTIFIC BOOKS

- Contributed in producing one chapter in an international multi-author reference book (Animal Resources in Africa and Their Biodiversity, published by Encyclopedia of Life Supporting Systems (EOLSS) UNESCO (Letter of Acceptance, 2011).

PROFESSIONAL DEVELOPMENT (Participation in Conferences, Symposia) :

- Participation in the Fifth International Conference of the Egyptian Association for Environmental Development (about the future prospects of environmental development in the Arab World and the challenge confrontation). April 13-16, 2008. Guesthouse - Ain Shams University. (Attendance).
- Participation in the World Aquaculture Conference, "Integrated Fish and Halophytes Production: "Effects of salinity on Growth and Osmotic Adjustment of *Salicornia bigelovii* and *Allenrolfea occidentalis*" Authors: Khalid A. AL-Ghanim*, Rafael Martinez-Garcia, Edward P. Glenn, Stephen G. Nelson, Kevin M. Fitzsimmons and Brendan Ambrose. San Diego-California, USA on March 1-5, 2010. (Poster presentation).

- Western Division of the American Fisheries Society, "Health risks associated with pesticide residues in water, sediments and the muscle tissues of *Catla catla*. Authors: Shahid Mahboob, Fakhra Niazi, K. Al-Ghanim, Salma Sultana, F. Al-Misned and Z. Ahmed. At head Balloki on the River Ravi". Mazatlan, Mexico, April 7-11, 2014. (Presented a paper).
- Western Division of the American Fisheries Society, "A study on the effect of poultry droppings on the primary productivity, and growth of major carps in polyculture system" Authors: Shahid Mahboob, K. A. Al-Ghanim. Mazatlan, Mexico, April 7-11, 2014. (Presented a paper).
- World Aquaculture Adelaide 2014, "Replacing fish meal with a blend of alternative plant proteins on the growth performance of *Catla catla* and *hypophthalmichthys molitrix*" Authors: Shahid Mahboob, K. A. Al-Ghanim*, Fahad Al-Misned and Z. Ahmed. Adelaide Australia, June 7-11, 2014. (Poster presentation).
- Tenth International Conference on Recirculating Aquaculture. Roanoke, Virginia, USA. On August 22 - 24, 2014. (Attendance).
- Participation in a Research Symposium at Salman bin Abdulaziz University, "hope and reality" in Mars 20-2011. (Attendance).
- 17th International Conference entitled "Discovery, Utilization, and Control of Bioactive Components and Functional Foods", "Bioaccumulation of heavy metals in tissues of four selected Red Sea fish" Authors: Al-Ghanim Khalid*, Abdelatty Magda, Abdelfattah Lyla. The University of San Diego, CA, USA on November 18-19, 2014. (Poster presentation).
- Novel Immunotherapeutics Summit 2015 "3rd Immunogenicity and Immunotoxicity" "Fish Scales as a Nonlethal screening tools for assessing the effects of surface water contaminants in *Cyprinus Carpio*" Authors: Shahid Mahboob, Hafiz Muhammad Ashraf, S. Sultana, T. Sultana, K. Al-Ghanim*, F. Al-Misned and Z. Ahmad. San Diego, CA, USA on January 29-30, 2015. (Poster presentation).
- Aquaculture America 2015. "Isolation and characterization of collagen for fish waste material – skin, scales and fins of *Catla catla* and *Cirrhinus mrigala*" Authors: Shahid Rana, Khalid Al-Ghanim, and Salma Sultana. New Orleans, Louisiana USA on February 19-22, 2015. (Oral presentation).

- The 12th International Symposium on Persistent Toxic Substance 2015. "MAPPING OF DIFFERENTIAL TRACE METALS ACCUMULATION IN TISSUES OF *Clarias gariepinus* (Burchell, 1822) FROM WADI HANFAH, SAUDI ARABIA". Khalid Al-Ghanim and Shahid Mahboob. University of California, Riverside, CA. USA on November 16-20, 2015. (Poster presentation).
- The ninth annual Algae Biomass Summit In Washington, DC. USA on September 30 – October 2, 2015. (Attendance).
- The 2nd Saudi International Conference on Scientific Publishing 2015. Deanship of Scientific Research at King Saud University, Riyadh, Kingdom of Saudi Arabia. During the 11th – 13th October 2015, 28th – 30th Thul-Hijjah 1436 AH.
- Aquaculture 2016, International Conference & Exposition. Cholinesterases: Cholinergic Biomarkers For The Detection Of Sublethal Effects Of Organophosphorous And Carbamates In *Catla catla*. Shahid Rana, Ghazala Ghazala, Khalid Al-Ghanim. February 22-26, 2016. Las Vegas, Nevada USA. (Poster Presentation).

ADMINISTRATIVE POSITIONS

- Head of the Department of Physics at the College of Science and Humanity Studies – Salman bin Abdulaziz University, from 23/5/1428 – 30/11/1429 H.
- Academic Counsellor, College of Science and Humanity Studies – Salman bin Abdulaziz University from 2007.
- Supervisor of Student Affairs Unit, College of Science and Humanity Studies – Salman bin Abdulaziz University, from 17/03/1432 – 20/8/1433 H.
- Head of the Department of Biology at the College of Science and Humanity Studies – Salman bin Abdulaziz University, from 20/8/1433 – 01/10/1434 H.
- Member in the council of the Department of Zoology in College of Science - King Saud University since 12/10/1434H until present time.

PROFESSIONAL MEMBERSHIP

1. Chairman of the committee for Preparation of Biology Department laboratories - College of Science and Humanities - Salman bin Abdulaziz University 2013.
2. Member in the council of College of Science and Humanities - Salman bin Abdulaziz University from 20/8/1433 – 01/10/1434 H.
3. Member of the permanent committee for postgraduate deanship council - Salman bin Abdulaziz University from 20/8/1433 – 29/03/1434 H.

4. Member of the Scientific research deanship council – Salmam bin Abdulaziz University from 29-4-1434 to 01-10-1434 H.
5. Member of the executive committee for strategic plan in College of Science and Humanity Studies at Salman bin Abdulaziz University from 20/3/1434 – 01/10/1434 H.
6. Member of the Department of Biology in College of Science and Humanity Studies at Salman bin Abdulaziz University from 2012 -2013.
7. Member of the permanent committee for postgraduate studies at Salman bin Abdulaziz University from 29/03/1434 – 01/10/1434 H.
8. Member of Faculty Member File Checking Committee in College of Science and Humanity Studies – Salman bin Abdulaziz University from 29/03/1433 – 01/10/1434 H.
9. Member of the permanent committee for Computer awards in Salman bin Abdulaziz University from 25/11/1433 – 01/10/1434 H.
10. Member of Follow Up Committee in College of Science and Humanity Studies – Salman bin Abdulaziz University from 5/3/1433 – 01/10/1434 H.
11. Member of Scholarships Affairs Committee in the General Preparation Unit in College of Science and Humanity Studies – Salman bin Abdulaziz University from 13/03/1433 – 01/10/1434 H.
12. Member of the Committee of Sorting Advanced Files in Culture Missions – Salman bin Abdulaziz University from 22/2/1433 – 01/10/1434 H.
13. Member of Employing Competition Committee in College of Science and Humanity Studies – Salman bin Abdulaziz University from 18/10/1433 – 01/10/1434 H.
14. Member of Student Interviewing Unified Program of Health. College of Science and Humanity Studies – Salman bin Abdulaziz University from 20/8/1433 – 01/10/1434 H.
15. Member of the Standing Committee to Examine the System Offers to the Competition and Government Procurement. Salman bin Abdulaziz University from 15/04/1432 – 01/10/1434 H.
16. Member of Saudi Biological Society in Faculty of Science - King Saudi University from 2011.
17. Chairman of the Examination Committee – College of Science and Humanity Studies in Al Kharj - King Saud University from 13/3/1428 – 01/10/1434 H.
18. Chairman of the Creativity and the Excellence Committee of the faculty members - College of Science - Al Kharj – King Saud University from 13/3/1428 – 01/08/1429 H.
19. Member of the Students' Problem Committee – College of Science and Humanity Studies – Salman Bin Abdulaziz University from 01/7/1428 – 01/10/1434 H.

20. Member of the Discipline of Students Committee – College of Science and Humanity Studies – Salman Bin Abdulaziz University from 20/01/1432 – 01/10/1434 H.
21. Member of Excellence center for Biodiversity – Faculty of Science - King Saud University from 2007-2013.
22. Member of the Council of the General Preparation Department - College of Science and Humanity Studies – Salman Bin Abdulaziz University from 15/10/1431 – 20/08/1433 H.
23. Chairman of the Committee of laboratory Transferring at College of Science and Humanity Studies – Salman Bin Abdulaziz University from 20/8/1432 – 01/10/1434 H.
24. Member in the council of Department of Zoology - College of Science - King Saud University since 12/10/1434 H until present.
25. The Joint Council Member of Master of Science in Environmental Sciences at King Saud University since 2/11/1434 H until present.
26. Member of the Committee of community service and public cultural and social relations - Department of Zoology - College of Science - King Saud University since 02/11/ 1434 until present.
27. Member of the Committee labs and devices and services. Department of Zoology - College of Science - King Saud University since 15/04/1436 H until present.
28. Member of the Higher Committee for the development of the Department of Zoology - College of Science - King Saud University since 15/04/1436 H until present.

GRANTS AND AWARDS

- Winning Dean Award for Research, Faculty of Science and Humanity Studies, Salman Bin Abdulaziz University, 2012.
- Winning Award for the best website in the King Saud University - Faculty of Science - Al Kharj from 2007 until 2008.
- A grant from the King Saud University to the University of Arizona, USA, 2009-2010 as follow :

- 1 January – May 2009 : English training program at the Centre of English as Second Language (CESL).
- 2 June – December 2009: The effects of different salinities on the growth of *Salicornia bigelovii*.
- 3 January – February 2010 : The potential of *Tilapia* in reducing *Vibrio* counting and stimulate shrimp immunity.
- 4 March – August 2010 : Marana Brine Study, the growth of *Tilapia* and Mollie Fish at different salinities.
- 5 Presented our first research results at the 2010 World Aquaculture Meetings in March 2010. I am planning to publish these research findings in the Journal of the World Aquaculture Society, the Journal Aquaculture Research, and/or the Journal Aquaculture. I have also already published an article for the Global Aquaculture Advocate.

Thesis and scientific publication reviewing

1. Reviewer in African Journal of Environmental Science and Technology, 2012.
2. Reviewer in Journal of Toxicology and Environmental Health Sciences, 2012.
3. Reviewr in African Journal of Biotechnology, 2012.
4. Reviewer in African Journal of Microbiology Research, 2011.

Community Services

- 1- Working as principal investigator in the Research groups project RGP-1436-11- (2015).
- 2- Won the award for Research from the Dean, Faculty of Science and Humanity Studies, Salman Bin Abdulaziz University, 2012.
- 3- Won the Award For the best website in the King Saud University
 - Faculty of Science - Al Kharj in 2007 and 2008.

- 4- Worked as principal investigator in Research groups project. RGP-341- 2013-2014.
- 5- Worked as Co investigator in Research groups project. RGP-1435-012. 2014-2015. Until the present time.
- 6- VPP - Prof. Dr. A.R. Shakoori from Apr. 2014 till to Date for capacity building for faculty students and others for introduction of new research biomolecular technique in KSU.
- 7- NPST Code Number: 13-ENV1323-02R. From March 2014 till to Date.
- 8- Participation in the measurement and evaluation tests of the Community College, King Saud University – Riyadh, 2007.
- 9- Participation in a program about the performance of employees, King Saud University from 27-29 /05/2008.
- 10- Faculty and staff supervisor and coordinator – (Gate of King Saud University and Computer Department - College of Science and Humanity Studies, 2007- 2008.
- 11- Participating in a workshop about “Using the Academic system and the Electronic Gateway and preparing Academic Schedules, Salman bin Abdulaziz University, 15/6/2011.
- 12- Participating in a workshop about the city and its offered civil services to encourage scientific research, Salman bin Abdulaziz University 18/6/ 2011.
- 13- Workshop entitled (Introduction to Leadership Academy) and held in 4/4/2012 in the Meridian Hotel in Al Khobar - Ministry of Higher Education.
- 14- Reviewed many research articles of national and international journals.
- 15- Assisted many students in their research Project at bachelor level Assisted 5 students in their research project at master level Assisted two students in their research project at Ph. D. level.
- 16- Served as external examiner for one master student.
- 17- Working as coordinator of the practical class for the course Zoo 145 in the Department of Zoology, colleg of Sciens, KSU, 1434/1435 H.
- 18- Attended DNA isolation and gel electrophoresis Undergraduate and postgraduate students, 6/2/1434 H.

- 19- Attended In vitro fertilization and cloning for sheep Undergraduate and postgraduate students, 25/6/1434 H.
- 20- Attended Microtechniques students, 2/2/1435 H.
- 21- Attended Technique of Chromosomes Preparation from Bone Marrow postgraduate students, 25 /10/1433 H.
- 22- Attended Applications of Attune Acoustic Focusing Cytometer Undergraduate and postgraduate students, 03/11/2014.
- 23- Attended Immunofluorescence and fluorescence microscopy Undergraduate and postgraduate students, 19/11/2013.
- 24- Attended Principle of protein detection via chemiluminescence and near infrared fluorescence postgraduate students and scientists, 24/11/2014.
- 25- Attended ETTAN-DIGE Workshop postgraduate students and scientists, 02/10/2011.
- 26- Attended Native mosquito larvicidal bacteria isolates as new candidates for control of mosquito-borne diseases in Saudi Arabia Staff members, Postgraduate and undergraduate students, 15-16/2/1436 H.
- 27- Attended Forensic entomology Staff members, Postgraduate and undergraduate students, 11/2/1436 H.
- 28- Attended IVF production of cloned sheep embryo at the lab. Staff members, Postgraduate and undergraduate students, 25/6-1434 H.

MASTER AND DOCTORAL RESEARCH

- 1- 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.
- 2 - 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. Sci. 10(2):335-341.
- 3- 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.

4- Al-kahem, H.F., Ahmad, Z. and **Al-Ghanim, K.A.** (2002). Length-Weight relationship and monthly changes in different indices of *Oreochromis niloticus*. *Pakistan J. Sci.* 54(1-2) :9-13.

SCIENTIFIC RESEARCH

1. 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**
2. 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**
3. Soumble Zulfiqar, Khuram Shehzad, Sana Tahir, **Khalid A. Al-Ghanim** and Abdul Rauf Shakoori. (2018). Dual role of multicopper oxidase of *Klebsiella pneumoniae* as a copper homeostatic element and a novel alkaline laccase with potential application in green chemistry. *Canadian J. Microbiol.* **In press**. **Q3**
4. **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>.
5. 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**
6. 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**
 7. Shahid Mahboob, **Khalid Al-Ghanim**. (2017). Engineering ligninolytic consortium for bioconversion of lignocelluloses to ethanol and chemicals. **Protein and Peptide Letter**. **Accepted**. **Q4**
 8. 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**
 9. 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**
 10. Shahid Mahboob, **Khalid Al-Ghanim**. (2017). Omics technologies for microalgae-based fuels and chemicals; challenges and opportunities. **Protein and Peptide Letter**. **Accepted**. **Q4**
 11. A. Al-Thobaitia, **K. Al-Ghanima**, Z. Ahmeda, E. M. Sulimana and S. Mahboob. (2017). 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**. <http://dx.doi.org/10.1590/1519-6984.172230>. **Q4**
 12. 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. **Q4**
- 13.** 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.
 - 14.** 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**
 - 15.** 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.
 - 16.** 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**
 - 17.** 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**
 - 18.** 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**

19. 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**
20. 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 category)**.
21. 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**
22. 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.
23. 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**
24. 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**.
25. 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**.
26. 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>.
27. 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>.
28. 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**
29. 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>.
30. 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.
31. 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.
32. 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.
33. 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**
 34. 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)**.
 35. 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**
 36. 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.
 37. 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.
 38. 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**

39. 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**
40. 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.
41. 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**
42. 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**
43. 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.
44. 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.
45. 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.
46. 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**
 47. 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**
 48. 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**
 49. 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**
 50. 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**
 51. **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.
 52. 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.

53. 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**
 54. 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.
 55. 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.
 56. **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.
 57. 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**
-
58. 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.
 59. 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](#)
60. 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](#).
 61. 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.
 62. 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](#).
 63. 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.
 64. 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](#).
 65. 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.
 66. **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.

67. **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.
68. **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.
69. 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 \(USA\)](#). [\(In press\)](#).
70. 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.
71. 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.
72. 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.
73. Ghazala Ghazala, Shahid Mahboob, Salma Sultana, **Khalid Abullah 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.
74. 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.

-
75. 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.
76. 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.
77. 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.
78. 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.
79. 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.
80. 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](#).
81. 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.
82. 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 *Ctenopharyngodon idella*. *Pakistan J. Zool.*, vol. 46(5): 1391-1397.
 83. 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.
 84. 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.
 85. Shahid Mahboob, H.F. Alkkahem 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.
 86. 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.
 87. Ghazala Mustafa, Shahid Mahboob, **K.A. Al-Ghanim**, Salma Sultan, H.F. Alkahem 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>.
 88. 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.

89. 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.](#)
90. 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.
91. 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.](#)
92. 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.](#)
93. 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.
94. 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.
95. 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.
96. 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.
97. 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.](#)
 98. 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.
 99. 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.
 100. 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.
 101. 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.
 102. **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).
 103. **Khalid A. Al-Ghanim** (2014). Effect of a Synthetic Pyrethyroid, 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.

104. **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.

105. 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.
106. 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.
107. **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.
108. 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.
109. 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.

110. 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.
111. **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.

112. **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.
 113. **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.
 114. **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.
 115. 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.
 116. **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.
 117. 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.
 118. 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).
-
119. **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.

120. **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.
121. 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.
122. 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 arameters and reproduction in *Clarias gariepinus*. African Journal of Biotechnology Vol. 10(53): 11039-11047.
123. **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.
124. 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.

125. Fitzsimmons, Kevin, **Al-Ghanim, K. A.** and Naim, Sidrotun Z. (2009). Tilapia Production, Market Report Production, Consumption Increase Despite Economic Downturn. Global aquaculture advocate.

126. **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.
127. 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.

128. 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.
-
129. 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.
-
130. 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.
-
131. Al-kahem, H.F., Ahmad,Z. and Al-Ghanim, K.A. (2002). Length-Weight relationship and monthly changes in different indices of *Oreochromis niloticus*. *Pakistan J. Sci.* 54(1-2):9-13.
-

RESEARCH IN PRGRESS:

1. Abdel-Rahman, G. H. and Al-Ghanim, K. A. Ameliorative role of Lycopene against nephrotoxicity induced by arsenic in male rats. (In press).
2. Lotfi Rabaoui, Radhouane El Zrelli, Mohammed Ben Mansour, Rafik Balti, Sabiha Tlig-Zouari, Mokhtar Guerfe and Khalid Abdullah Al-Ghanim. On the relationship between the diversity and structure of benthic macroinvertebrate communities and sediment enrichment with heavy-metals in the Gulf of Gabes, south-eastern Tunisia. (In press).