

Curriculum Vitae

Full name **Khalid Abdullah Abdurrahman Al-Ghanim**
Place of birth **Riyadh**
Nationality **Saudi Arabia**
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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. **Soumble Zulfiqar¹, Khuram Shehzad¹, Sana Tahir¹, Khalid A. Al-Ghanim², Abdul Rauf Shakoori^{1,2*}.** (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**
3. **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>.
4. **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**
5. **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**
6. Shahid Mahboob, Khalid Al-Ghanim. (2017). Engineering ligninolytic consortium for bioconversion of lignocelluloses to ethanol and chemicals. *Protein and Peptide Letter*. Accepted. **Q4**
 7. 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**
 8. 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**
 9. Shahid Mahboob, Khalid Al-Ghanim. (2017). Omics technologies for microalgae-based fuels and chemicals; challenges and opportunities. *Protein and Peptide Letter*. Accepted. **Q4**
 10. 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**
 11. 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**

12. 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.
13. 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.
14. 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.
15. 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**
16. 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**
17. 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**
18. 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**
19. 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)**.
 20. 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**
 21. 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.
 22. 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**
 23. 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**.
 24. 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**.
 25. 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](#)

- BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY.** Vol.59: e16150275.
<http://dx.doi.org/10.1590/1678-4324-2016150275>.
26. 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>.
 27. 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**
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