

(CURRICULUM VITAE) of **Prof. Khalid A. Al-Ghanim**

Name: Professor Khalid Al-Ghanim
Date of Birth: 05/10/1967
Nationality: Saudi Arabian
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Educations

- **Bachelor's Degree in Zoology**
 - King Saud University, College of Science, Riyadh, Saudi Arabia.
27. 10. 1992
 - **Master's Degree in Animal Ecology and Pollution**
 - King Saud University, College of Science, Riyadh, Saudi Arabia.
14. 01. 2001
 - **Philosophy doctorate in Animal Ecology and Pollution**
 - King Saud University, College of Science, Riyadh, Saudi Arabia.
29. 01. 2006
 - **Post-Doctoral in Aquaculture**
 - University of Arizona, College of Science, Tucson - AZ, USA
12. 2010
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Academic positions

- **Professor of aquatic ecology**
 - Zoology Department, College of Science, King Saud University
03. 2016 – present
- **Associate Professor of Aquatic Ecology**
 - Zoology Department, College of Science, King Saud University
19. 08. 2013 – 01. 03. 2016
- **Associate Professor of Animal Ecology and Pollution**
 - College of Science and Humanity Studies, Salman bin Abdulaziz University
15. 03. 2012
- **Assistant Professor of Animal Ecology and Pollution**
 - College of Science and Humanity Studies, Salman Bin Abdulaziz University
2007 – 2012
- **Science and Biology teacher**
 - Intermediate & secondary grades in public schools, Riyadh, Ministry of Education
1993 – 2007

Administrative Positions

- **Head of Department, Physics**
 - College of Science and Humanities, Salman Bin Abdulaziz University
23/5/1428 – 30/11/1429 H
- **Academic Counsellor**
 - College of Science and Humanities, Salman Bin Abdulaziz University
2007 – Present
- **Supervisor, Student Affairs Unit**
 - College of Science and Humanities, Salman Bin Abdulaziz University
17/03/1432 – 20/8/1433 H
- **Head of Department, Biology**
 - College of Science and Humanities, Salman Bin Abdulaziz University
20/8/1433 – 01/10/1434 H
- **Council Member, Department of Zoology**
 - College of Science, King Saud University
12/10/1434 H – Present

Teachings

- Taught undergraduate courses in the General Preparation Department, College of Science and Humanities at Salman Bin Abdulaziz University and King Saud University
 - **General Biology Courses**
 - 1080Bio, College of Science and Humanity Studies, *since 2010*.
 - 106Bio, College of Medicine, Dentistry, Pharmacy, and Applied Medical Science, *since 2008*.
 - **General Zoology Courses**
 - 145Zoo, College of Medicine, Dentistry, Pharmacy, and Applied Medical Science, King Saud University, *from 2013 – present*.
 - 109Zoo, College of Medicine, Dentistry, Pharmacy, and Applied Medical Science, King Saud University, *from 2013 – present*.
 - 103 Zoo, College of Science, King Saud University, *from 2013 – present*.
 - **Specialized Zoology Courses (Graduate Level)**
 - 521 Zoo, Aquatic Animals, College of Science, King Saud University.
 - 571 Zoo, Animal Ecology and Pollution, College of Science, King Saud University.
 - 673 Zoo, Aquatic Animals Ecology, College of Science, King Saud University.
 - **Specialized Zoology Course (Undergraduate Level)**
 - 374 Zoo, Aquatic Ecology, College of Science, King Saud University.
- **Taught the Scientific Research course for officers starting from 29-4-1434 H**

Scientific Books

- Contributed to 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).

Postgraduate Supervisions

- **MSc Supervision (Completed)**
 - **Title:** *Effect of Replacement of Fish Meal by Different Plant Sources on Growth Rate and Feed Efficiency of Nile Tilapia, Oreochromis niloticus (Linnaeus, 1758).*
Completion Year: 2018

Committee and Council Memberships

- **Member, Saudi Biological Society**
 - Faculty of Science, King Saud University
Since 2011
- **Chairman, Examination Committee**
 - College of Science and Humanities in Al Kharj, King Saud University
13.03.1428 – 01.10.1434 H
- **Chairman, Creativity and Excellence Committee (Faculty Members)**
 - College of Science, Al Kharj, King Saud University
13.03.1428 – 01.08.1429 H
- **Member, Students' Problem Committee**
 - College of Science and Humanities, Salman Bin Abdulaziz University
01.07.1428 – 01.10.1434 H
- **Member, Discipline of Students Committee**
 - College of Science and Humanities, Salman Bin Abdulaziz University
20.01.1432 – 01.10.1434 H
- **Member, Excellence Center for Biodiversity**
 - Faculty of Science, King Saud University
2007 – 2013
- **Member, Council of the General Preparation Department**
 - College of Science and Humanities, Salman Bin Abdulaziz University
15.10.1431 – 20.08.1433 H
- **Chairman, Laboratory Transferring Committee**
 - College of Science and Humanities, Salman Bin Abdulaziz University
20.08.1432 – 01.10.1434 H
- **Member, Council of Department of Zoology**
 - College of Science, King Saud University
Since 12.10.1434 H

- **Joint Council Member, MSc in Environmental Sciences**
 - King Saud University
Since 02.11.1434 H
 - **Member, Committee for Community Service, Cultural, and Social Relations**
 - Department of Zoology, College of Science, King Saud University
Since 02.11.1434 H
 - **Member, Committee for Labs, Devices, and Services**
 - Department of Zoology, College of Science, King Saud University
Since 15.04.1436 H
 - **Member, Higher Committee for Development of Department of Zoology**
 - College of Science, King Saud University
Since 15.04.1436 H
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Grants, Awards & Scholarship

- **Certificate of Appreciation for Publishing in the Top 10% of Journals**
King Saud University:
 - ***Ceramics International:*** "Fabrication of Neodymium (Nd), Cadmium (Cd) and Nd-doped hybrid copper oxide nanocomposites: Evaluation of their antibacterial activity and cytotoxicity against human L132 cell line" 2023.
 - ***Science of the Total Environment:*** "Process and technoeconomic analysis of bioethanol production from residual biomass of marine macroalgae *Ulva lactuca*" 2023.
 - ***Bioresource Technology:*** "Dual strategy for bioconversion of elephant grass biomass into fermentable sugars using *Trichoderma reesei* towards bioethanol production" 2023.
 - ***Pakistan Veterinary Journal:*** "Ameliorative Potential of Kaempferide to Counteract Paraquat Instigated Nephrotoxicity in Rats, 2024"
 - ***Environmental Research:*** "Biovalorization of lignin-derived substrates to vanillylamine via a self-sufficient amino donor and cofactor recycling whole-cell platform, 2024"
 - ***Science of the Total Environment:*** "Bacterial screening in Indian coastal regions for efficient polypropylene microplastics biodegradation, 2024"
 - ***PAKISTAN VETERINARY JOURNAL:*** "Evaluation of Possible Ameliorative Role of Robinetin to Counteract Polystyrene Microplastics Instigated Renal Toxicity in Rats, 2024"
 - ***BIORESOURCETECHNOLOGY:*** "Elucidating the bioremediation potential of laccase and peroxidase enzymes from *Bacillus ligniniphilus* L1 in antibiotic degradation: A computationally guided study, 2024"
 - ***ENVIRONMENTAL RESEARCH:*** "Discovery of putative inhibitors of human Pkd1 enzyme: Molecular docking, dynamics and simulation, QSAR, and MM/GBSA, 2024"

- **Stanford University Top 2% Scientist Ranking** (2021)
- **Research Grant (RSP), King Saud University**
 - Researcher Supporting Project
 - Year 2018 – Present
- **Dean's Award for Research**
Faculty of Science and Humanities, Salman Bin Abdulaziz University (2012)
- **Best Website Award**
Faculty of Science, King Saud University - Al Kharj (2007–2008)
 - Presented research at the 2010 World Aquaculture Meetings, with plans to publish in the *Journal of the World Aquaculture Society* and other journals.
- **Financed Projects**
 - **Principal Investigator (PI)**
 - Research Groups Project, RGP-341 (2013–2014)
 - Research Groups Project, RGP-1436-11 (2015–Present)
 - **Co-Investigator (CoI)**
 - Research Groups Project, RGP-1435-012 (2014–Present)
- **Scholarship from King Saud University**
University of Arizona, USA (2009–2010)
 - **06 – 12. 2009:** Study on the effects of different salinities on the growth of *Salicornia bigelovii*
 - **01 – 02. 2010:** Investigation of Tilapia's potential to reduce Vibrio count and stimulate shrimp immunity
 - **03 – 08. 2010:** Marana Brine Study on the growth of Tilapia and Mollie Fish at different salinities

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).
- **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. 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.

Mazatlán, 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 a polyculture system.

Authors: Shahid Mahboob, K. A. Al-Ghanim.

Mazatlán, 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. August 22–24, 2014. *(Attendance)*.

- **Research Symposium at Salman bin Abdulaziz University**

Hope and reality.

March 20, 2011. *(Attendance)*.

- **17th International Conference on Discovery, Utilization, and Control of Bioactive Components and Functional Foods**

Bioaccumulation of heavy metals in tissues of four selected Red Sea fish.

Authors: Khalid Al-Ghanim*, Magda Abdelatty, and Lyla Abdelfattah.

The University of San Diego, California, USA. November 18–19, 2014. *(Poster presentation)*.

- **Novel Immunotherapeutics Summit 2015**

Fish scales as a nonlethal screening tool 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. Ahmed.

San Diego, California, USA. January 29–30, 2015. *(Poster presentation)*.

- **Aquaculture America 2015**

Isolation and characterization of collagen from 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. 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 Hanifah, Saudi Arabia.

Authors: Khalid Al-Ghanim and Shahid Mahboob.

University of California, Riverside, California, USA. November 16–20, 2015. *(Poster presentation)*.

- **The Ninth Annual Algae Biomass Summit**

Washington, DC, USA. 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. October 11–13, 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.
Authors: Shahid Rana, Ghazala Ghazala, and Khalid Al-Ghanim.
Las Vegas, Nevada, USA. February 22–26, 2016. (Poster presentation).

Thesis and Scientific Publication Reviewing

- **Reviewer**, *African Journal of Environmental Science and Technology* (2012)
- **Reviewer**, *Journal of Toxicology and Environmental Health Sciences* (2012)
- **Reviewer**, *African Journal of Biotechnology* (2012)
- **Reviewer**, *African Journal of Microbiology Research* (2011)

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. 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.
2. 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.
3. 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.

4. 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 CARBMATES TO CATLA CATLA FINGERLINGS. J. Anim. Plant Sci., vol. 24(6): 1795-1801.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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>.
14. 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.
15. 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.
16. 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.

17. 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.
18. 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.
19. Shahid Nadeem, Bushra Niaz, M.I. Rajoka, **K.A. Al-Ghanim**, H. M. Muzammil, Shahid Mahboob, Ahmad Nadeem, Shumaila Yousaf 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.
20. 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.
21. 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.
22. 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.
23. Songhao Zhang, Jun Cui, 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. **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).

29. **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.
30. **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.
31. 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.
32. 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.
33. **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.
34. Hmoud Fares Alkkaheem 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.
35. 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.
36. 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.
37. **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.
38. **Al-Ghanim, 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.
39. **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.
40. **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.
41. 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.
42. **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.

43. 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.
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