

Curriculum Vitae

Full name **Khalid Abdullah Abdurrahman Al-Ghanim**
Place of birth **Riyadh**
Nationality **Saudi Arabia**
Marital status **married**
Telephone **+00966114696127**
Address **Department of Zoology, College of Science, King
Saud University, P.O. Box 2455, Riyadh-11451,
Saudi Arabia**
Email **kghanim@ksu.edu.sa**
Website **<http://faculty.ksu.edu.sa/24498/Pages/24498.aspx>
<http://fac.ksu.edu.sa/kghanim>**

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.
 - ❖ **109Zoo** 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).

POSTGRADUATE SUPERVISIONS :

Successfully completed:

- 1- One successfully completed MSc titled as " Effect of Replacement of Fish Meal by Different Plant Sources on Growth Rate and Feed Efficiency of Nile Tilapia, *Oreochromis niloticus*, (Linnaeus, 1758)" (2018).

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 – Salman 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.**

Book Chapters:

- 1- Mahmoud A. O. Dawood, Fawzy I. Magouz, Mohamed Mansour, Ahmed A. Saleh, Amel M. El Asely, Sabreen E. Fadl, Hamada A. Ahmed, **Khalid A. Al-Ghanim**, Shahid Mahboob and Fahad Al-Misned. 2022. Evaluation of Yeast Fermented Poultry By-Product Meal in Nile Tilapia (*Oreochromis niloticus*) Feed: Effects on Growth Performance, Digestive Enzymes Activity, Innate Immunity, and Antioxidant Capacity; Book title: Fish Nutrition, Metabolism and Physiology. Kang-le Lu, Samad Rahimnejad, Chunnuan Zhang, Bahram Falahatka (Eds.). pp 16-23 Frontiers.**
- 2- Abdul Rauf Shakoori, Saira Aftab, and **Khalid Al-Ghanim**. 2017. Structural Changes in Chromosomes. Book title: Chromosome Structure and Aberrations, DOI:10.1007/978-81-322-3673-3_12.**
- Scholarship from King Saud University to the University of Arizona in the United States of America for two years from 2009-2010.**

January – May 2009 : English training program at the Centre of English as Second Language (CESL).

June – December 2009 : The effects of different salinities on the growth of *Salicornia bigelovii*.

January – February 2010: The potential of Tilapia in reducing *Vibrio* counting and stimulate shrimp immunity.

March – August 2010 : Marana Brine Study, the growth of Tilapia and Mollie Fish at different salinities.

presented our first research results at the 2010 World Aquaculture Meetings in March 2010. I am planning to have these research findings published 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.

- 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-kaheem, 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-kaheem, 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-kaheem, 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. Muhammad Umar Ijaz, Aqsa Ahmed, **Khalid Abdullah Al-Ghanim**, Fahad Al-Misned, Mian Nadeem Riaz, Zahid Ali Kaimkhani and Shahid Mahboob. (2023). Evaluation of the Possible Protective Role of Nobiletin against Arsenic-Induced Liver Damage in Male Albino Rats. Toxics-MDPI. <https://doi.org/10.3390/toxics11020110>. (Q2 Journal 4.472 IF).
2. Nathiya Thiagarajulu, Paramasivam Deepak, Chinnaperumal Kamaraj, **Khalid A. Al-Ghanim**, Aranganathan Lakshminarayanan, Marcello Nicoletti, Sivakumar Arumugam and Marimuthu Govindarajan. (2023). Synthesis and characterization of reduced graphene oxide nanosheets using *Saraca indica* leaves and their antioxidant, antibacterial, and anticancer applications. Biomass Conversion and Biorefinery. <https://doi.org/10.1007/s13399-023-04769-7>. (Q2 Journal 4.0 IF).

3. Ramachandran Ishwarya, Govindan Tamilmani, **Khalid A. Al-Ghanim**, Marimuthu Govindarajan, Marcello Nicoletti, and Baskaralingam Vaseeharan. (2023). Biosynthesis of zinc oxide nanoparticles from molted feathers of *Pavo cristatus* and their antibiofilm and anticancer activities. *Green Processing and Synthesis*. <https://doi.org/10.1515/gps-2023-0090>. (Q2 Journal 4.3 IF).
4. Thirupathi Balaji, Chethakkad Manikkan Manushankar, **Khalid A. Al-Ghanim**, Chinnaperumal Kamaraj, Durairaj Thirumurugan, Sundaram Thanigaivel, Marcello Nicoletti, Nadezhda Sachivkina and Marimuthu Govindarajan. (2023). *Padina boergesenii*-Mediated Copper Oxide Nanoparticles Synthesis, with Their Antibacterial and Anticancer Potential. *MDPI - Biomedicines*. <https://doi.org/10.3390/biomedicines11082285>. (Q1 Journal 4.7 IF).
5. Ashokkumar Sibiya, **Khalid A. Al-Ghanim**, Marimuthu Govindarajan, Marcello Nicoletti, Nadezhda Sachivkina and Baskaralingam Vaseeharan. (2023). Biochemical Patterns and Genotoxicity of the Endocrine Disruptor Metformin in the Freshwater Fish *Labeo rohita*. *MDPI – Fishes*. <https://doi.org/10.3390/fishes8070380>. (Q2 Journal 2.3 IF).
6. Tamilselvan Vinotha, Narendrakumar Umamaheswari, Jeganathan Pandiyan, **Khalid A. Al-Ghanim**, Marcello Nicoletti and Marimuthu Govindarajan. (2023). Biofuel Production from Mango and Orange Peel and Tapioca Shells by Fermentation Using Consortium of Bacteria: Agricultural and Food Waste Valorization. *MDPI – Fermentation*. <https://doi.org/10.3390/fermentation9070678>. (Q2 Journal 5.123 IF).
7. Kasi Gopinath, Sathishkumar Gnanasekar, **Khalid A. Al-Ghanim**, Marcello Nicoletti, Marimuthu Govindarajan, Ayyakannu Arumugam, Chinnasamy Balalakshmi and Sarinthip Thanakkasaranee. (2023). Fabrication of Neodymium (Nd), Cadmium (Cd) and Nd:Cd doped hybrid copper oxide nanocomposites: Evaluation of their antibacterial activity and cytotoxicity against human L132 cell line. *Ceramics International* <https://doi.org/10.1016/j.ceramint.2023.06.251>. (Q1 Journal 5.582 IF).
8. Athirstam Ponsankar, Sengottayan Senthil-Nathan, Prabhakaran Vasanthasrinivasan, Raghuraman Pandiyan, Sengodan Karthi1, Kandaswamy

- Kalaivani, Muthiah Chellappandian, Radhakrishnan Narayanaswamy, Annamalai Thanigaivel, Krutmuang Patcharin, Shahid Mahboob and **Khalid Abdullah Al-Ghanim**. (2023). Systematic induced resistance in *Solanum lycopersicum* (L.) against vascular wilt pathogen (*Fusarium oxysporum* f. sp. *lycopersici*) by *Citrullus colocynthis* and *Trichoderma viride*. PLOS ONE. <https://doi.org/10.1371/journal.pone.0278616>. (Q1).
9. Khriebu Bizo Pelesinuo, Govindharajan Sattanathan, Nazrul Haque, **Khalid A. Al-Ghanim**, Marcello Nicoletti, Nadezhda Sachivkina and Marimuthu Govindarajan. (2023). Synthesis and Characterization of Mithun (*Bos frontalis*) Urine-Based Antibacterial Copper Oxide Nanoparticles. MDPI – Biomedicines. <https://doi.org/10.3390/biomedicines11061690>. (Q1 Journal 4.757 IF).
10. Chinnaperumal Kamaraj, Rajappan Chandra Satish Kumar, **Khalid A. Al-Ghanim**, Marcello Nicoletti, V. Sathiyamoorthy, Sabarathinam Sarvesh, Chinnasamy Ragavendran and Marimuthu Govindarajan. (2023). Novel Essential Oils Blend as a Repellent and Toxic Agent against Disease-Transmitting Mosquitoes. MDPI – Toxics. <https://doi.org/10.3390/toxics11060517>. (Q2 Journal 4.472 IF).
11. Munusamy Tharani, Shanmugam Rajeshkumar, **Khalid A. Al-Ghanim**, Marcello Nicoletti, Nadezhda Sachivkina and Marimuthu Govindarajan. (2023). Terminalia chebula-Assisted Silver Nanoparticles: Biological Potential, Synthesis, Characterization, and Ecotoxicity. Biomedicines. <https://doi.org/10.3390/biomedicines11051472>. (Q1 Journal 4.757 IF).
12. Mahendrakumar Mani, Aruna Sharmili Sundararaj, **Khalid A. Al-Ghanim**, Shiny Punalur John, Kuppusamy Elumalai, Marcello Nicoletti, and Marimuthu Govindarajan. (2023). Rapid synthesis of copper nanoparticles using *Nepeta cataria* leaves: An eco-friendly management of disease-causing vectors and bacterial pathogens. Green Processing and Synthesis. <https://doi.org/10.1515/gps-2023-0022>. (Q2 Journal 3.97 IF).
13. Kanagavalli Ramasubbu, Siddharth Padmanabhan, **Khalid A. Al-Ghanim**, Marcello Nicoletti, Marimuthu Govindarajan, Nadezhda Sachivkina and Vijayarangan Devi Rajeswari. (2023). Green Synthesis of Copper Oxide Nanoparticles Using *Sesbania grandiflora* Leaf Extract and Their

- Evaluation of Anti-Diabetic, Cytotoxic, Anti-Microbial, and Anti-Inflammatory Properties in an In-Vitro Approach. MDPI – Fermentation. <https://doi.org/10.3390/fermentation9040332>. (Q2 Journal 5.123 IF).
14. Shanmugam Rajeshkumar, Royapuram Parthasarathy Parameswari, Dayalan Sandhiya, **Khalid A. Al-Ghanim**, Marcello Nicoletti and Marimuthu Govindarajan. (2023). Green Synthesis, Characterization and Bioactivity of *Mangifera indica* Seed-Wrapped Zinc Oxide Nanoparticles. MDPI – Molecules. <https://doi.org/10.3390/molecules28062818>. (Q2 Journal 4.927 IF).
15. Muthukumar Abinaya, Sathappan Shanthi, Jesudasan Palmy, **Khalid A. Al-Ghanim**, Marimuthu Govindarajan and Baskaralingam Vaseeharan. (2023). Exopolysaccharides-Mediated ZnO Nanoparticles for the Treatment of Aquatic Diseases in Freshwater Fish *Oreochromis mossambicus*. MDPI – Toxics. <https://doi.org/10.3390/toxics11040313>. (Q2 Journal 4.472 IF).
16. **Khalid A. Al-Ghanim**, Kaliyamoorthy Krishnappa, Jeganathan Pandiyan, Marcello Nicoletti, Baskar Gurunathan and Marimuthu Govindarajan. (2023). Insecticidal Potential of *Matricaria chamomilla*'s Essential Oil and Its Components (E)-B-Farnesene, Germacrene D, and α -Bisabolol Oxide A against Agricultural Pests, Malaria, and Zika Virus Vectors. MDPI – Agriculture. <https://doi.org/10.3390/agriculture13040779>. (Q1 Journal 3.408 IF).
17. Rajeshkumar Shanmugam, Tharani Munusamy, Santhoshkumar Jayakodi, **Khalid A. Al-Ghanim**, Marcello Nicoletti, Nadezhda Sachivkina and Marimuthu Govindarajan. (2023). Probiotic-Bacteria (*Lactobacillus fermentum*)-Wrapped Zinc Oxide Nanoparticles: Biosynthesis, Characterization, and Antibacterial Activity. MDPI – Fermentation. <https://doi.org/10.3390/fermentation9050413>. (Q2 Journal 5.123 IF).
18. Jeyaraj Jeyavani, Ashokkumar Sibiya, Thambusamy Stalin, Ganesan Vigneshkumar, **Khalid A. Al-Ghanim**, Mian Nadeem Riaz, Marimuthu Govindarajan and Baskaralingam Vaseeharan. (2023). Biochemical, Genotoxic and Histological Implications of Polypropylene Microplastics on Freshwater Fish *Oreochromis mossambicus*: An Aquatic Eco-Toxicological

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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).