CURRICULUM VITAE

PERSONAL DETAILS

Name : KHALID AWADH AL-MUTAIRI
Correspondence Address : Biology Department of Faculty of Science
University of Tabuk
Tabuk, 741
Saudi Arabia
Contact No. : (04) 4251201 (Office) 0544096611(Cell No)
Email : kmutairi@ut.edu.sa
Nationality : Saudi
Languages : English

Google scolar : https://scholar.google.com/citations?user=jzAKK8wAAAAJ&hl=en

Area of Experitise : Environmental Science, Ecology, Plant Biodiversity, Environmental Conservation, Environmental Pollution and Assessment.

EDUCATIONAL BACKGROUND

2008 -2012
Qualification : Ph.D. (Plant Ecology)
Thesis Title : "Floristic Diversity and Dynamics in the Farasan Islands, Red Sea, Saudi Arabia"
Faculty : School of Biological Sciences
Name of Institution : Universiti Sains Malaysia, Penang, Malaysia

2001 -2004
Qualification : Master of Science (Crop Science) with GPA 4.41.
Thesis Title : Research mode with thesis entitled "Effect of Seeding Rate and Irrigation Level on the Growth and Production of Barely"
Faculty : Faculty of Agricultural Sciences
Name of Institution : King Saud University, Riyadh, Saudi Arabia

1993-1996
Qualification : Bachelor Science (Plant Production)
: Faculty of Agricultural Sciences
Name of Institution : King Saud University, Riyadh, Saudi Arabia

AWARDS

October 2012: Certificate for Excellent Achievement for Ph.D. degree awarded by the culture attaché of Saudi Embassy, Malaysia.
October 2016- July 2017: Sabbatical leave at Jinan University-China
February 2019: Professor Excellence Award–Faculty of Science-University of Tabuk

EMPLOYMENT HISTORY

- General supervisor of the scientific production base from June 2019 till now
- Supervisor of managing conferences and seminars from 7 August 2020 till now
- Consultant to the Vice-Chancellor for Graduate and Scientific Research on Research centers Chairs from 22 March 2019 till now.
- Associate Professor, Biology Department Faculty of Science, from December 2018 until now.
- Vice Dean of Faculty of Science from November 2017 until now.
- Chairman Horizon For Environmental Studies from 2018 till now
- Vice Dean of Faculty of Science for Graduate Studies and Scientific Research from October 2013 –December 2016.
- Chairman of Department of Biology.
- Assistant Professor, Department of Biology, Faculty of Science, University of Tabuk, from September 2013 – November 2018.

Duties and Responsibilities:

- Conducting Ecology and Environmental studies and Plant Biodiversity research with remarkable efforts in developing the current research themes in the Faculty of Science.
- Teaching undergraduate courses.
- Supervise and assist the final year students in their research projects.
- Revise and evaluate research proposals.
- Deliver several seminars and presentations in environmental studies.
- Chairman of Postgraduate and Scientific Research committee.
- Member in Training and Scholarships committee.
- Develop the current policies for scientific research and funding programs.
- Organize several training workshops for the demonstrator, lecturers and faculty staff.
- Chairman of laboratories and instruments committee
- Chairman of public relations and media committee
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PUBLICATIONS

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i) International Peer-Reviewed Journals:

1. Chen, J., Yang, Y., Yang, F., Gao, X., Hu, G., Xiong, Z., Al-Mutairi, K. A., Yan, L., Li, J., & Dai, X. (2025). Copper and vanadium induce oxidative stress and pyroptosis in the duck brain via activating the TLR4/NF-κB-p65 signaling pathway. BioMetals, 38(6), 1731–1745. https://doi.org/10.1007/s10534-025-00728-z

2. Al-Mutairi, K. A. (2025). Anthropocene imprints on the Persian Gulf (Arabian Gulf): A comprehensive review of pollution and conservation challenges. Applied Ecology and Environmental Research, 23(5), 9167–9196. https://doi.org/10.15666/aeer/2305_91679196

3. Yap, C.K., & Al-Mutairi, K.A. (2025). Tissue-specific nickel accumulation and detoxification in *Pomacea insularum*: A biomonitoring tool for freshwater ecosystems. *Polish Journal of Environmental Sciences*. DOI: https://doi.org/10.15244/pjoes/204564

4. Al-Mutairi, K. A. (2025). Literature analysis and synthesis of the Red Sea mangrove ecosystem: Decades of human impacts and knowledge gaps. Applied Ecology and Environmental Research, 23(4), 7031–7067. https://doi.org/10.15666/aeer/2304_70317067

5. Alharbi, O., Al-Mutairi, K. A., Ibrahim, M. M., Ramu, R., & AL-Ghorbani, M. (2025). New pyranopyrazole-based indolin-2,3-dione hybrid as effective inhibitors of xanthine oxidase: Synthesis, in vitro, and molecular modeling approaches. Chemistry and Biodiversity, 22(5), e202402104. https://doi.org/10.1002/cbdv.202402104

6. AL-Ghorbani, M., Gouda, M. A., Alharbi, O., Al-Mutairi, K. A., & Ramu, R. (2025). Synthesis and biological evaluation of new N-(4-acetylphenyl)-2-cyanoacetamide derivatives with docking, and molecular

dynamics insights. Russian Journal of General Chemistry, 95(1), 155–172. https://doi.org/10.1134/S1070363224611219

7. Yap, C. K., & Al-Mutairi, K. A. (2025). Zinc bioaccumulation and detoxification mechanisms in Pomacea insularum: Implications for biomonitoring in metal-contaminated ecosystems. Turkish Journal of Fisheries and Aquatic Sciences, 25(8), TRJFAS27166. https://doi.org/10.4194/TRJFAS27166

8. Al-Mutairi, K. A. (2025). From desert margins to global insights: Floristic diversity and conservation strategies in the arid regions of Tabuk and Khulais, Saudi Arabia: A bibliometric and ecological synthesis. Frontiers in Forests and Global Change, 8, 1669742. https://doi.org/10.3389/ffgc.2025.1669742

9. Yap, C. K., & Al-Mutairi, K. A. (2025). The potentials of Perna viridis shells as biomonitoring tools for cadmium contamination in coastal area of Peninsular Malaysia. Applied Ecology and Environmental Research, 23(3), 4473–4498. https://doi.org/10.15666/aeer/2303_44734498

10. Yap, C. K., & Al-Mutairi, K. A. (2025). Assessment of copper and zinc contamination in paddy soils and grains from Kemuning and Kelaweh, Kelantan: Implications for sustainability and planetary health. Applied Ecology and Environmental Research, 23(3), 4313–4334. https://doi.org/10.15666/aeer/2303_43134334

11. Yap, C. K., & Al-Mutairi, K. A. (2025). Mangrove ecosystems in Western Asia: A literature review of trends, conservation gaps, and sustainable management strategies. Frontiers in Forests and Global Change, 8, 1556158. https://doi.org/10.3389/ffgc.2025.1556158

12. Yap, C. K., & Al-Mutairi, K. A. (2025). Evaluation of copper and zinc concentrations in dried fruits collected from marketplaces of Peninsular Malaysia: Health risk assessment, food security implications, and the necessity for regular monitoring. Applied Ecology and Environmental Research, 23(2), 3429–3445. https://doi.org/10.15666/aeer/2302_34293445

13. Yap, C. K., & Al-Mutairi, K. A. (2025). Cadmium bioaccumulation and detoxification mechanisms in Pomacea insularum: Implications for biomonitoring in freshwater ecosystems. Frontiers in Environmental Science, 13, 1548453. https://doi.org/10.3389/fenvs.2025.1548453

14. Yap, C. K., & Al-Mutairi, K. A. (2025). Chernobyl nuclear catastrophe: Lessons for sustainability and UNSDGs in health, energy, and environmental recovery. Frontiers in Public Health, 13, 1552122. https://doi.org/10.3389/fpubh.2025.1552122

15. Galal, T. M., Mansour, K. H., Alghamdi, H. M., Al-Mutairi, K. A., Ali, E. F., & Gharib, F. A. (2024). Nutrient remediation potential and forage quality of the emergent jointed flatsedge (Cyperus articulatus L.) grown in eutrophic waterbodies. Polish Journal of Environmental Studies, 34(5), 6133–6143. https://doi.org/10.15244/pjoes/192106

16. Galal, T. M., Kawey, S. M. A., El-Gamalm, A., Hassan, L. M., Al-Mutairi, K. A., & El-Bakry, A. A. (2024). Control of seedling mortality in the long-leaved saucer-berry Cordia sinensis Lam. in Kharga Oasis, Egypt: An in situ physiological, chemical, and biological approach. Applied Ecology and Environmental Research, 22(6), 6113–6128. https://doi.org/10.15666/aeer/2206_61136128

17. Joshi, K. R., Devkota, H. P., Al-Mutairi, K. A., Sugimura, K., Yahara, S., Khadka, R., Thapa, S., Shekh, M. U., Poudel, S., & Watanabe, T. (2024). Therapeutic potential of Leea asiatica: Chemical isolation and validation of ethnomedicinal claims through in vitro and in silico assessment of antioxidant and anti-inflammatory properties. Heliyon, 10(19), e38074. https://doi.org/10.1016/j.heliyon.2024.e38074

18. Guo, P., Li, Q., Wang, S., Jiang, X., Yang, Q., Yu, W., Al-Mutairi, K. A., Tang, Z., Han, Q., & Liao, J. (2024). Hesperidin alleviates terbuthylazine-induced ferroptosis via maintenance of mitochondria-associated endoplasmic reticulum membrane integrity in chicken hepatocytes. Comparative Biochemistry and Physiology Part C: Toxicology and Pharmacology, 284, 109989. https://doi.org/10.1016/j.cbpc.2024.109989

19. Chen, J., Liao, J., Yu, W., Cao, H., Hu, G., Tang, Z., Al-Mutairi, K. A., & Yang, F. (2024). Copper toxicity in the liver of broiler chicken: Insights from metabolomics and AMPK-mTOR mediated autophagy perspective. Poultry Science, 103(9), 104011. https://doi.org/10.1016/j.psj.2024.104011

20. Al-Mutairi, K. A., & Yap, C. K. (2024). Human health risk, potentials of biomonitoring and phytoremediation of copper using Amaranthus viridis. Applied Ecology and Environmental Research, 22(4), 3315–3346. https://doi.org/10.15666/aeer/2204_33153346

21. Yap, C. K., & Al-Mutairi, K. A. (2024). A conceptual model relationship between Industry 4.0–Food-Agriculture nexus and agroecosystem: A literature review and knowledge gaps. Foods, 13(1), 150. https://doi.org/10.3390/foods13010150

22. Yap, C. K., & Al-Mutairi, K. A. (2024). Depuration kinetics of potentially toxic metals (Hg, Co and Cr) in Perna viridis: Implications for biomonitoring, environmental management, and planetary health. Journal of Fisheries, 13(1), 131202. https://doi.org/10.17017/j.fish.751
23. Yap, C. K., & Al-Mutairi, K. A. (2024). Zinc in commercial marine fish from Peninsular Malaysia: Biomonitoring, health risks, and UNSDGs' connection. Journal of Fisheries, 13(1), 131201. https://doi.org/10.17017/j.fish.746
24. Yap, C. K., & Al-Mutairi, K. A. (2024). Genetic differentiation and heavy metal pollution influence on horseshoe crab Tachypleus gigas populations in Peninsular Malaysia: A comprehensive allozyme analysis. Journal of Fisheries, 12(3), 123205. https://doi.org/10.17017/j.fish.743
25. Yap, C. K., & Al-Mutairi, K. A. (2024). Bioaccumulation of iron (Fe) and lead (Pb) in various body tissues of Telescopium telescopium in Peninsular Malaysia: Implications for biomonitoring and sustainability. Journal of Fisheries, 12(3), 123203. https://doi.org/10.17017/j.fish.724
26. Yap, C. K., & Al-Mutairi, K. A. (2023). Lower health risks of potentially toxic metals after transplantation of aquacultural farmed mussels from a polluted site to unpolluted sites: A biomonitoring study in the Straits of Johore. Foods, 12(10), 1964. https://doi.org/10.3390/foods12101964

27. Yap, C. K., & Al-Mutairi, K. A. (2023). Biomonitoring–health risk nexus of potentially toxic metals on Cerithidea obtusa: A biomonitoring study from Peninsular Malaysia. Foods, 12(8), 1575. https://doi.org/10.3390/foods12081575

28. Yap, C. K., & Al-Mutairi, K. A. (2023). Effective microorganisms as halal-based sources for biofertilizer production and some socio-economic insights: A review. Foods, 12(8), 1702. https://doi.org/10.3390/foods12081702

29. Yap, C. K., & Al-Mutairi, K. A. (2023). Byssus of green-lipped mussel Perna viridis as a biomonitoring biopolymer for zinc pollution in coastal waters. Biology, 12(4), 523. https://doi.org/10.3390/biology12040523

30. Yap, C. K., & Al-Mutairi, K. A. (2023). Potentially toxic metals in the tropical mangrove non-salt secreting Rhizophora apiculata: A field-based biomonitoring study and phytoremediation potentials. Forests, 14(2), 237. https://doi.org/10.3390/f14020237

31. Yap, C. K., & Al-Mutairi, K. A. (2023). The ecological-health risks of potentially toxic metals in the surface sediments and leaves of salt-secreting Avicennia officinalis as potential phytoremediators: A field-based biomonitoring study from Klang mangrove area. Biology, 12(1), 43. https://doi.org/10.3390/biology12010043

2022

8. Patil, S. M., Al-Mutairi, K. A., Firdose, N., Ramu, R., Martiz, R. M., & P, A. (2022). Pharmacoinformatics based screening discovers swertianolin from Lavandula angustifolia as a novel neuromodulator targeting epilepsy, depression, and anxiety. South African Journal of Botany, 149, 712–730. https://doi.org/10.1016/j.sajb.2022.06.054

9. Yap, C. K., Tan, W. S., Cheng, W. H., Syazwan, W. M., Wahid, N., Kumar, K., Go, R., Nulit, R., Ibrahim, M. H., Mustafa, M., Omar, H., Chew, W., Edward, F. B., Okamura, H., Al-Mutairi, K. A., Al-Shami, S. A., Sharifinia, M., Keshavarzifard, M., You, C. F., Riahi Bakhtiari, A. R., Bintal, A., Zakaly, H. M. H., Arai, T., Naji, A., Saleem, M., Abd Rahman, M. A. A., Ong, G. H., Subramaniam, G., & Wong, L. S. (2022). Ecological–health risk of antimony and arsenic in Centella asiatica, topsoils, and mangrove sediments: A case study of Peninsular Malaysia. Frontiers in Environmental Science, 10, 939860. https://doi.org/10.3389/fenvs.2022.939860

10. Yap, C. K., & Al-Mutairi, K. A. (2022). High ecological health risks of potentially toxic metals in polluted drainage sediments: Is there a need for public concern during flash floods? Water, 14(15), 2316. https://doi.org/10.3390/w14152316

11. Ahmed, N., & Al-Mutairi, K. A. (2022). Earthworms effect on microbial population and soil fertility as well as their interaction with agriculture practices. Sustainability, 14(13), 7803. https://doi.org/10.3390/su14137803

12. Lalarukh, I., Al-Dhumri, S. A., Al-Ani, L. K. T., Hussain, R., Al-Mutairi, K. A., Mansoora, N., Amjad, S. F., Abbas, M. H. H., Abdelhafez, A. A., Poczai, P., Meena, K. R., & Galal, T. M. (2022). A combined use of rhizobacteria and moringa leaf extract mitigates the adverse effects of drought stress in wheat (Triticum aestivum L.). Frontiers in Microbiology, 13, 813415. https://doi.org/10.3389/fmicb.2022.813415

13. Ismail, M. S., Ilias, Z., Ismail, M. N., Goeden, G. B., Yap, C. K., Al-Mutairi, K. A., & Al-Shami, S. A. (2022). Coral health assessment in Malaysia: A case study of Pulau Anak Datai, Langkawi. Environmental Science and Pollution Research, 29(30), 45860–45871. https://doi.org/10.1007/s11356-022-19133-x

14. Maradesha, T., Patil, S. M., Al-Mutairi, K. A., Ramu, R., Madhunapantula, S. V., & Alqadi, T. (2022). Inhibitory effect of polyphenols from the whole green jackfruit flour against α-glucosidase, α-amylase, aldose reductase and glycation at multiple stages and their interaction: Inhibition kinetics and molecular simulations. Molecules, 27(6), 1888. https://doi.org/10.3390/molecules27061888

15. Yap, C. K., Yaacob, A., Tan, W. S., Al-Mutairi, K. A., Cheng, W. H., Wong, K. W., Edward, F. B., Ismail, M. S., You, C. F., Chew, W., Nulit, R., Ibrahim, M. H., Amin, B., & Sharifinia, M. (2022). Potentially toxic metals in the high-biomass non-hyperaccumulating plant Amaranthus viridis: Human health risks and phytoremediation potentials. Biology, 11(3), 389. https://doi.org/10.3390/biology11030389

16. Yap, C. K., & Al-Mutairi, K. A. (2022). Comparative study of potentially toxic nickel and their potential human health risks in seafood (fish and mollusks) from Peninsular Malaysia. Biology, 11(3), 376. https://doi.org/10.3390/biology11030376

17. Galal, T. M., Gharib, F. A., Al-Yasi, H. M., Al-Mutairi, K. A., Mansour, K. H., & Eid, E. M. (2022). Nutrient remediation efficiency of the sedge plant (Cyperus alopecuroides Rottb.) to restore eutrophic freshwater ecosystems. Sustainability, 14(5), 2823. https://doi.org/10.3390/su14052823

18. Al-Mutairi, K. A. (2022). Do spatially structured soil variables influence the plant diversity in Tabuk arid region, Saudi Arabia? Sustainability, 14(5), 2611. https://doi.org/10.3390/su14052611

19. Yap, C. K., & Al-Mutairi, K. A. (2022). Copper and zinc levels in commercial marine fish from Setiu, East Coast of Peninsular Malaysia. Toxics, 10(2), 52. https://doi.org/10.3390/toxics10020052

20. Yap, C. K., & Al-Mutairi, K. A. (2022). Ecological-health risks of potentially toxic metals in mangrove sediments near estuaries after years of piggery farming bans in Peninsular Malaysia. Sustainability, 14(3), 1525. https://doi.org/10.3390/su14031525

21. Yap, C. K., Chew, W., Al-Mutairi, K. A., Nulit, R., Ibrahim, M. H., Wong, K. W., Riahi Bakhtiari, A. R., Sharifinia, M., Ismail, M. S., Leong, W. J., Tan, W. S., Cheng, W. H., Okamura, H., You, C. F., & Al-Shami, S. A. (2022). Assessments of the ecological and health risks of potentially toxic metals in the topsoils of different land uses: A case study in Peninsular Malaysia. Biology, 11(1), 2. https://doi.org/10.3390/biology11010002

22. Yap, C. K., & Al-Mutairi, K. A. (2022). Ecological-health risk assessments of heavy metals (Cu, Pb, and Zn) in aquatic sediments from the ASEAN-5 emerging developing countries: A review and synthesis. Biology, 11(1), 7. https://doi.org/10.3390/biology11010007

23. Yap, C. K., Tan, W. S., Wong, K. W., Ong, G. H., Cheng, W. H., Nulit, R., Ibrahim, M. H., Chew, W., Edward, F. B., Okamura, H., Al-Mutairi, K. A., Al-Shami, S. A., Sharifinia, M., Mustafa, M., Leong, W. J., & You, C. F. (2021). Antioxidant enzyme activities as biomarkers of Cu and Pb stress in Centella asiatica. Stresses, 1(4), 253–265. https://doi.org/10.3390/stresses1040018

24. Khilji, S. A., Aqeel, M., Maqsood, M. F., Khalid, N., Tufail, A., Sajid, Z. A., Al-Surhanee, A. A., Hashem, M., Alamri, S., Al-Mutairi, K. A., & Noman, A. (2021). Hemarthria compressa–Aspergillus niger–Trichoderma pseudokoningii mediated trilateral perspective for bioremediation and detoxification of industrial paper sludge. Sustainability, 13(21), 12266. https://doi.org/10.3390/su132112266

25. Yap, C. K., Sharifinia, M., Cheng, W. H., Al-Shami, S. A., Wong, K. W., & Al-Mutairi, K. A. (2021). A commentary on the use of bivalve mollusks in monitoring metal pollution levels. International Journal of Environmental Research and Public Health, 18(7), 3386. https://doi.org/10.3390/ijerph18073386

26. Al-Mutairi, K. A., & Yap, C. K. (2021). A review of heavy metals in coastal surface sediments from the Red Sea: Health-ecological risk assessments. International Journal of Environmental Research and Public Health, 18(6), 2798. https://doi.org/10.3390/ijerph18062798

27. Al-Shami, S. A., Md Rawi, C. S., Suhaila, S. A., Nurul Huda, N. H., Rusli, M. Z., Mohd Adnan, W. N. A. W., Mohd Ishadi, N. A., Zakeyuddin, M. S., Al-Qormuti, S. A., Al-Mutairi, K. A., & Yap, C. K. (2021). Congruence patterns of aquatic communities in a tropical river basin, Malaysia. Acta Ecologica Sinica, 41(1), 50–56. https://doi.org/10.1016/j.chnaes.2020.12.001

28. Yap, C. K., Chew, W., Al-Mutairi, K. A., Al-Shami, S. A., Nulit, R., Ibrahim, M. H., Wong, K. W., Riahi Bakhtiari, A. R., Sharifinia, M., Cheng, W. H., Okamura, H., Ismail, M. S., & Saleem, M. (2021). Invasive weed Asystasia gangetica as a potential biomonitor and a phytoremediator of potentially toxic metals: A case study in Peninsular Malaysia. International Journal of Environmental Research and Public Health, 18(9), 4682. https://doi.org/10.3390/ijerph18094682

29. Yap, C. K., Wong, K. W., Al-Shami, S. A., Nulit, R., Cheng, W. H., Aris, A. Z., Sharifinia, M., Riahi Bakhtiari, A. R., Okamura, H., Saleem, M., Chew, W., Ismail, M. S., & Al-Mutairi, K. A. (2021). Human health risk assessments of trace metals on the clam Corbicula javanica in a tropical river in Peninsular Malaysia. International Journal of Environmental Research and Public Health, 18(1), 195. https://doi.org/10.3390/ijerph18010195

29. **AL-Mutairi, K** Ahmed H. Alfifi, Saad B. Aljahni, Abdulkareem M.T. Albalawi (2019). Climate Changes Knowledge and Awareness among People in Tabuk Region, Saudi Arabia. Acta Scientific Agriculturae.:(3)4 184-188.

30. **.AL-MUTAIRI, K. A.** – MOBIN, M. – KHAN, M. N (2019) a comparison of bioactive constituents and in vitro antioxidant potential of asthma weed (euphorbia hirta), with those of other antiasthmatic plants growing in Tabuk region, Saudi Arabia applied ecology and environmental research 17(6):13989-14000

31. . **AL-Mutairi, K.,** Hongqu T. (2017). Public Knowledge and Awareness of Climate Changes Among People in China. Current World Environment 12(2):231-236.

32. .**AL-Mutairi, K** (2017). Influence of soil physical and chemical variables on the species composition and richness of plants in the arid region of Tabuk, Saudi Arabia. Ekologia 36(2):112-120.

33. .**AL-Mutairi, K** (2017) Effect of environmental variables on taxonomic distinctness of plant species in arid region. Arid Ecosystem.

34. Salman Abdo Al-Shami, , Che Salmah Md Rawi, Abu Hassan Ahmad, Madziatul Rosmahanie Madrus,Suhaila Abdul Hamid, Wan Mohd Hafezul Wan Abdul Ghani, Nadi Awad Alharbi, **Khalid Awadh Al-Mutairi** (2017)Biodiversity patterns of aquatic macroinvertebrates in tropical forests streams as a response to logging activities and deforestation. Acta Ecologica Sinica.

35. .Nasir Khan, M. Mobin, M. Zahid Khorshid Abbas, **Khalid A. AlMutairi**, Zahid H. Siddiqui(2016)Role of nanomaterials in plants under challenging environments. Plant Physiology and Biochemistry (10) 194-209.

36. Ali A. Keshk, Meshari A AlSharif, **Khalid A. Al-Mutari**, Ahmed A. Al-Magrby, Sahar M. Al-Asser, Mohsen M. Zareh(2016) Evaluation of Water Quality in Parts of Wadi Fatimah, Western Saudi Arabia.International Journal of Enviromental and Agricultural Research 2 (7) 177-182.
37. **AL-Mutairi, K.,** Al-Shami S.A , Khorshid, Z , Moawad M (2016). Floristic diversity and phytogeographical distribution of plants in Tabuk region, Saudi Arabia. Journal of Animal and Plant Sciences 26(4):1019-1025.

38. Nasir Khan, M. Mobin, M Zahid Khorshid Abbas, **Khalid A. ALMutairi** (2016).Impact of varying elevations on growth and activities of antioxidant enzymes of some medicinal plants of Saudi Arabia. Acta Ecologica Sinica (36) 141–148.

39. .Mohammad Mobin, Mohammad Nasir Khan, Zahid Khorshid Abbas, HabibRahman Ansari & **Khalid Al-Mutairi** (2016).Significance of sulfur in heat stressed cluster bean (Cymopsis tetragonoloba L. Taub) genotypes:responses of growth, sugar and antioxidative metabolism. Archives of Agronomy and Soil Science.63(2):288-295.
40. AL-Mutairi, K., Al-Shami S.A. (2015) Scientific research in Saudi universities: current status and future expectations. Global Institute Journal of Science. 4(3):85-90.

41. AL-Mutairi, K., Al-Shami S.A., Alajlan A. AL-Atawi A. (2015). Woodcutting activities in Tabuk Region: assessment of conservation knowledge. Aceh InternationalJournal of Science and Technology. 4(2): 54-58.

42. Nasir Khan, Mobin, M. Zahid Khorshid Abbas and Khalid A. ALMutairi (2015). Acclimation of Teucrium polium Plants to Seasonal Variations by Alterations in the Activities of Antioxidant Enzymes and Protein Accumulation. British Journal of Applied Science & Technology 11(5): 1-9.

43. Al-Shami S.A., Che Salmah M. R., Abu Hassan A., Madrus M. R. and Al-Mutairi K. A. (2014). Importance of regional diversity and environmental conditions on local species richness of aquatic macro-invertebrates in tropical forested streams. Journal of Tropical Ecology. 30(4)335-346.

44. AL-Mutairi, K., Al-Shami S.A. (2014). Spatial and Environmental determinants of plant diversity in Farasan Archipelago, Saudi Arabia. Life Science Journal 11(7):61-69.

45. AL-Mutairi, K., EL-Bana, M., Mansor, M., Al-Rowaily, S., and Asyraf, M. (2012). Floristic diversity, composition, and environmental correlates on the Arid, coralline islands of the Farasan Archipelago, Red Sea, Saudi Arabia. Arid Land Research and Management 26:2,137-150.

46. Hassan Sher, Khalid ALMutairi and Mashhor Mansor. (2012).Study on the ethnopharmaceutical values and traditional uses of Capparis spinosa L. African Journal of Pharmacy and Pharmacology 6(16):1255-1259.
47. Hassan Sher, Mohammed N. El-Yemeni and Khalid ALMutairi (2012).Uptake of nutrients and heavy metals in cultivated and non-cultivated plant under atmospheric air pollution of Al-jubail Industrial City, Saudi Arabia. African Journal of Agricultural Research 7(12): 1805-1811.

iii) Conferences and Symposia

1. Al-Mutairi, K (2017). Influence of soil physical and chemical variables on the species composition and richness of plants in the arid region of Tabuk, Saudi Arabia.3rd International Conference on On Advance in Environment Research(ICAER2017).Beijing, China, May 23-25.

2. Al-Mutairi, K., Al-Shami S.A., Alajlan A. AL-Atawi A. (2015). Woodcutting activities in Tabuk Region: assessment of conservation knowledge. The Association for Tropical Biology and Conservation (ATBC) 12-17 July 2015.

3. Attended International Conference on Energy, Ecology, Environment and Sustainable Development to be held in Miami, World Academy of Science, Engineering and Technology-USA, 9-10 March 2015.

4. AL-Mutairi, K., Al-Shami S.A. (2014). Spatial and Environmental determinants of plant diversity in Farasan Archipelago, Saudi Arabia. Canadian International Conference of Science and Technology, Canadian Research Centre for Humanities and Science-Canada.14/11/2014

5. Al-Mutairi, K., Al-Shami S.A. (2014). Spatial and Environmental determinants of plant diversity in Farasan Archipelago, Saudi Arabia.at the 2nd Annnual International Conference on Ecology, Ecosystems And Climate Change 14-17 July 2014, Athens, Greece. http://www.atiner.gr/ecology.htm.

6. Al-Shami S.A., Che Salmah M. R., Abu Hassan A., Madrus M. R. and Al-Mutairi K. A. (2014). Importance of regional diversity and environmental conditions on local species richness of aquatic macro-invertebrates in tropical forested streams. International Conference on Science and Technology Humber College 14th -15th November2014, Toronto-Canada.

7. Al-Mutairi, K., Mashhor, M., El-Ban, M., Asyraf, M (2012) Descriptive Study of Flora in the Farasan Archipelago, Red Sea, Saudi Arabia. Proceeding of the 6th PPSKH Postgraduate Biocolloquium, February 2012. Universiti Sains Malaysia, Penang, Malaysia.

8. Al Mutairi, K., Mashhor,M., El-Ban,M., Asyraf, M. (2011). Plant Diversity and Life Form Spectra of Plant Communities on Some Islands of Red Sea, 12th Annual EEF Congress.25-29 September2011, Avila, Spain.

9. Al Mutairi, K., Mashhor, M., El-Ban, M., Asyraf, M. (2011). Analysis of plant species diversity with respect to island characteristics on the Farasan Archipelago, Saudi Arabia. 19th International Congress of Biometeorology. The University of Auckland. 4-8 December,. New Zealand.

10. Al-Mutairi, K., Mashhor, M., El-Ban, M., Asyraf, M. (2011). Vegetation Analysis of The Farasan Archipelago, Red Sea, Saudi Arabia In: 5th International Conference of The International Biogeography Society.7-11 January, Irakleio Crete, Greece. PP.102.

11. Al -Mutairi, K., Mashhor, M., El-Ban, M., Asyraf, M. (2011). Influences of island c haracteristics on plant community structure of Farasan Archipelago, Saudi Arabia: island biogeography and nested pattern In: International Conference of Spatial Ecology and Conservation, Birmingham University.5-7 September, UK.

12. Al Mutairi, K., Mashhor, M., El-Ban, M., Asyraf, M (2011) Pattern Distribution and Population of Some Islands In The Red Sea, Proceeding of the 6th PPSKH Postgraduate Biocolloquium. Universiti Sains Malaysia, Penang, Malaysia.

13. Al Mutairi, K., Mashhor, M., El-Bana, M., Asyraf, M (2011) Research Proposal and Experimental Design. Biocolloquium,. Universiti Sains Malaysia, Penang, Malaysia.(proposal).

14. Al-Mutairi, K., El-Ban, M., Mashhor, M., Asyraf, M. (2010). Floristic Diversity and Phytogeography on The Coralline Islands of Archipelago, Saudi Arabia. In: The 2010 International of The Association For Tropical Biology and Conservation: 19-23 July2010, Bali, Indonesia, PP.123.

15. Al-Mutairi, K., Mashhor, M., El-Ban, M., Asyraf, M. (2010).Diversity and Distribution of Medicinal Plant In Farasan Archipelago, Saudi Arabia. In: International Conference on Natural Products 2010. 10-12 December 2010. Penang-Malaysia. PP.140. 1-ISSN: 1675-7319.

16. Al-Mutairi, K., El-Ban, M., Mashhor, M., Asyraf, M. (2010). Plant Diversity and Enviromental Correlates on Farasan Archpilago. In: International Conference on Impact of Climate Change on Agriculture and Biodiversity in the Arab Region, 30 November-December 2010, Kuwait.

PROFESSIONAL COURSES

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17. Scientific writing workshop organized by School of Biological Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia. School of Biological Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia.
18. Research proposal writing conducted by School of Biological Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia. School of Biological Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia.
19. Writing a thesis conducted by School of Biological Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia. School of Biological Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia.
20. Statistical technique workshop organized by School of Biological Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia.
21. Introductory Data Analysis and Statistical Process Control conducted by the School of Mathematical Sciences, Universiti Sains Malaysia (USM), Penang, Malaysia .

22. Preparing data for multivariate analysis organized by Institute of Postgraduate Studies, Universiti Sains Malaysia (USM), Penang, Malaysia .
23. Managing your preference using endnote organized by Institute of Postgraduate Studies, Universiti Sains Malaysia (USM), Penang, Malaysia .
24. Conference scientific presentation organized by Institute of Postgraduate Studies, Universiti Sains Malaysia (USM), Penang, Malaysia .
25. Effective public speaking organized by Institute of Postgraduate Studies, Universiti Sains Malaysia (USM), Penang, Malaysia .
26. Presentation your scientific: what your listeners wants, organized by Institute of Postgraduate Studies, Universiti Sains Malaysia (USM), Penang, Malaysia .
27. Collection and tabulation of statistical data, which was held at the Institute of Management, Riyadh, Saudi Arabia
28. Classification of palm, which was held at the Faculty of Agricultural Science and food for two weeks with excellent record
29. English language course with excellent record
30. Prepare the self-study report procedures 25/10/2013
31. The design of an electronic questionnaire
32. Information and communication technology applications course in learning and teaching , 22-24/12/2013
33. calendar scheduled plan, 24-25/8/2014
34. radon measurement in the environment in a manner counting nuclear impact of 26-30 /10/2014, the Atomic Energy Commission
35. How to get research funding 2014, at the University of Tabuk
36. Training course in molecular biology 16-18/2018,at the University of king Saud
37. Training course of academic leaders 3-6 Jan 2019 at Tabuk University.
38. Training course of Combating illegal trade in fungal organisms and their products and the application of the CITES Convention from 4-8 Mar2019 at Tabuk University. .

RESEARCH PROFILES, EXPERIENCES AND INTERESTS

Research Profiles:

39. Plant Ecology
40. Rangeland
41. Biogeography
42. Biodiversity, Conservation and Climate Changes
43. Crop Science
44. Environmental Science
45. Environmental Monitoring and Assessment
46. Ecology
47. Environmental Pollution
48.

Teaching Experiences:

49. Botany (BIO202)
50. Research project (BIO 491) The students received an award for excellence for research students at the college level
51. General Animal (BIO 251)
52. Basics of Ecology (477)
53. General Biology(69)
54. Flora of Saudi Arabia (402)
55. Pollution (401)
56. General botany 2 (1044)

SUPPLEMENTARY INFORMATION

Professional Activities and Scientific Collaborations:

1. Member, Society of Biogeography.

2. Member, New Zealand Ecological Society.

Research and Technical Skills:

- Dealing with the laboratory equipments such as different types of compound Microscopes, Spectrophotometer, Atomic Absorption Spectrometry (AAS).

57. Knowledge in several of ecological analyses software packages.
58. Knowledge in several computer and statistical programs of SPSS, PC-ORD, R and multivariate software of CANOCO in addition to the other professional software packages for analyzing the ecological data (nestedness calculator, TWINSPAN).

Personal Strengths:

59. Passionate to academic teaching and scientific research with high motivation toward knowledge development.
60. Strong and active to contribute to conferences, seminar papers and publications in the Plant Ecology area.
61. Strong interpersonal skills to interact effectively with students, academic and professional staff within the school and university.
62. Responsible, patient, hardworking and with high adaptation capability.

Administration experience:

63. Member of the standing committee for academic promotion
64. Member of the supreme committee to supervise research centers and chairs
65. Member of the standing committee for the reward for research excellence
66. Member of the standing committee for the research excellence award
67. Secretary of the Faculty of Science council.
68. Member of the Standing Committee of the scholarship and training
69. Member of the Standing Committee for teaching assistants, lecturers and language teachers and research assistants.
70. President of the Jury in the Sub-Faculty of Sciences of the Forum V students for students in the University of Tabuk.
71. Chairman of the ceremony and exhibition graduates 1434/1435 AH.
72. Chairman of the Organizing Committee of the Forum for the first Physics held on 8-12/3/2015
73. Chairman of the Committee on Graduate Studies and Research of the Faculty of Science
74. Chairman of the committee of laboratories and equipment 4/11/2017 till now.
75. Chairman of the committee on information and public relation. 2/2/2018 till now.
76. Chairman of the website committee at the faculty of science 11/4/2017 till now.