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**EDUCATION**

- 2015 Ph.D Biology. Flinders University, Adelaide, Australia  
Thesis: Cultivation of Microalgae in Phototrophic, Heterotopic and Mixotrophic Conditions
- 2006 M.Sc Marine science (Aquaculture). King Abdulaziz University, Jeddah  
Thesis: Cultivation of *Spirulina Platensis* in Seawater
- 2000 B.Sc. Aquatic Wealth Development. King Faisal University. Alhasa

**ACADEMIC CAREER**

- 2016- present Assistant professor
- 2009-2015 lecturer
- 2008-2009 Administrator

**PROFESSIONAL EXPERIENCE**

- 2020 - Present Director of Fish Resources Research Center, KFU
- 2023- Present Director of water and Environmental Study Center
- 2022- 2023 Acting Director of Water Study Center. KFU
- 2019 - 2020 Assistant director, Fish Resources Research Center, KFU
- 2004-2008 Researcher, Fish Farming Center, Agriculture Ministry, Jeddah

**COMMITTEE MEMBERSHIPS**

- 2021-present Member of the Standing Committee for the Development of Research Centers and Scientific Chairs
- 2020 -present Member of the Environmental Protection Unit
- 2020-present Member of the Committee of Laboratory and Safety
- 2019- 2020 President of the committee of student activities and Public Relations and Media
- 2019- 2020 Member of the Committee of Academic Affairs in the College
- 2016-2018 Secretary of the Committee of student activities
- 2017-2019 Representative of the College at the Supporting Studies Center
- 2015- 2016 Member of the Committee on Development and Quality Assurance

**PUBLICATION**

1. **Ahmed Alkhamis, Y.**, Sultana, A., Tareq Arafat, S., Abdur Rouf, M., Mustafizur Rahman, S., Thomas Mathew, R., Ganesan, N., Sultana, A., Saleh Alngada, R., Abdul Whed, R. and Abdulaziz Aljaafari, N (2023) The Impact of Biofloc Technology on Water Quality in Aquaculture: A Systematic Meta-Analysis. *Aquaculture Nutrition*, doi.org/10.1155/2023/9915874
2. **YA Alkhamis**, TS Mohona, RT Mathew, MA Chisty, MM Rahman, MM Noby, SM Rahman (2023) Male-female Interactions for the Expression of Phenotypic Traits and Behavioral Performance of Male Giant Freshwater Prawn (*Macrobrachium rosenbergii*). *Egyptian Journal of Aquatic Biology & Fisheries*, 27: 295-306.
3. G Nagarajan, A Aruna, **YA Alkhamis**, RT Mathew, C Chang (2023): Effects of Osmotic Stress on the mRNA Expression of prl, prlr, gr, gh, and ghr in the Pituitary and Osmoregulatory Organs of Black Porgy, *Acanthopagrus schlegelii*. *International Journal of Molecular Sciences*, 24, 5318. <https://doi.org/10.3390/ijms24065318>
4. **YA Alkhamis**, RT Mathew, G Nagarajan, SM Rahman and MM Rahman (2022): pH induced stress enhances lipid accumulation in microalgae grown under mixotrophic and autotrophic condition. *Frontiers in Energy Research*. DOI 10.3389/fenrg.2022.1033068
5. G Nagarajan, A Aruna, **YA Alkhamis**, RT Mathew, C Chang (2022): Localization of neuropeptide arginine vasotocin and its receptor in the osmoregulatory organs: gill, kidney and intestine. *International Journal of Molecular Sciences*. 23:2614
6. AH Alhajji, HH Hsu, **YA Alkhamis**, AS Alsaqufi, S Khan, Z Nazeeri (2022) Maturity and reproduction in the Arabian carpet shark, *Chiloscyllium arabicum* from the Saudi Arabian waters of the Arabian Gulf. *Marine Biology Research*. doi.org/10.1080/17451000.2022.2131824.
7. AT Mansour, WM Fayed, AS Alsaqufi, AA Hadir, **YA Alkhamis**, GR Sallam (2022) Ameliorative effects of zeolite and yucca extract on water quality, growth performance, feed utilization, and hematobiochemical parameters of European seabass reared at high stocking densities. *Aquaculture Reports*. 26:101321

8. **YA Alkhamis**, B Mondal, RT Mathew, SM Rahman, MM Rahman, MM Rahman (2022): Periodic Effects of Salinity on Compensatory Expression of Phenotypic Traits in Nile Tilapia (*Oreochromis niloticus*). Pakistan Journal of Zoology, 00, 1-9. DOI:10.17582/journal.pjz/20220116050126.
9. MA Almalki, AYZ Khalifa, **YA Alkhamis** (2022). In vitro Antibiosis of *Chlorella vulgaris* Extract against the Phytopathogen, *Stenotrophomonas maltophilia*. Journal of Pure Applied Microbiology, 16(1): 630-637. DOI:10.22207/JPAM.16.1.64
10. G Nagrajan, A Aruna, **YA Alkhamis**, RT Mathew, C Chang (2022). Expression and Transcript Localization of star, sf-1, and dax-1 in the Early Brain of the Orange-Spotted Grouper *Epinephelus coioides*. International Journal of Molecular Sciences, 23: 2614. DOI: 10.3390/ijms23052614
11. S Debnath, DS Sarkar, P Kundu, MS Parvez, ST Arafat, RT Mathew, **YA Alkhamis**, MM Rahman, SM Rahman (2021) Growth, survival and body protein content of swordtail (*Xiphophorus helleri*) Fed Live and Formulated Feeds. Advances in Animal and Veterinary Sciences, 10(2): 335-341. DOI: 10.17582/journal.aavs/2022/10.2.335.341
12. RT Mathew, S Debnath, P Kundu, **YA Alkhamis**, M M Rahman, M M Rahman, MG Sarower, SM Rahman (2022). Growth and Survival of Goldfish (*Carassius auratus*) Juveniles Fed Tubifex, Custard Meal and Commercial Feeds. Journal of King Faisal University, 23(1).000 DOI: 10.37575/b/vet/210080
13. SM Rahman, AS alsqufi, P Kundu, AT Mansoor Mansour, **YA Alkhamis**, RT Mathew, MY Ali, S Ray, G Sarower (2022) Effect of dietary supplementation of synbiotics “Powerlac®” on growth performance, phenotypic traits and digestive enzyme activities of monosex Nile tilapia (*Oreochromis niloticus*). Fresenius Environmental Bulletin, 31: 1521-1530
14. SM Rahman, RT Mathew, **YA Alkhamis**, AS Alsaqufi, J Golder, I Noor, MM Rahman (2022). Effects of periodic salinity variation on the expression of some phenotypic traits in striped dwarf catfish (*Mystus vittatus*). The Journal of Animal and Plant Sciences. 32:1-14.
15. SM Rahman, SS Khan, **YA Alkhamis**, RT Mathew, MM Rahman, MM Islam, M Asadujjaman, MG Sarower (2022): Exposing Proximate Components of Some Selected Fishes Available in Coast of the Bay of Bengal. Pakistan Journal of Zoology. <https://dx.doi.org/10.17582/journal.pjz/20210602100635>

16. MM Rahman, S Kundu, SM Rahman, RT Mathew, **YA Alkhamis**, MS Parvez, MA Rouf, MM Rahman, M Asaduzzaman (2021) Polyandrous fertilization enhances offspring survival rate in an Indian major carp *Labeo rohita*. Intl J Agric Biol 26:656–660.
17. SM Rahman, MA Habib, AR Khan, MN Ahsan, ST Arafat, MM Rahman, AS Alsaqufi, RT Mathew, YN Alrashada, **YA Alkhamis** (2021). Cryopreservation studies on silver carp (*Hypophthalmichthys molitrix*) embryos. CryoLetters. 42:178-187.
18. Rahman SM, Mathew RT, **Alkhamis YA**, Alsaqufi AS, Golder J, Noor I and Rahman MM (2021) Effects of periodic salinity variation on the expression of some phenotypic traits in striped dwarf catfish (*Mystus vittatus*). The Journal of Animal and Plant Science. 32:1
19. Abdallah Tageldein Mansour AT, Alsaqufi AS, **Alkhamis YA**, Al-Gazar FF, Zaki MA, Nour AM, Ramadan KM (2021) The evaluation of *Arthrospira platensis* bioactivity and their dietary supplementation to Nile tilapia vegetarian diet on growth performance, feed utilization, body composition and hemato-biochemical parameters. Annals of Animal Science. DOI: 10.2478/aoas-2021-0003.
20. Mathew RT, **Alkhamis YA**, Rahman SM, Alsaqufi AS (2021) Effects of microalgae *Chlorella vulgaris* density on the larval performances of fresh water prawn *Macrobrachium rosenbergii*. Indian Journal of Animal Research. 55:303-305 .
21. Alsaqufi AS, Rahman SM, Mathew RT, **Alkhamis YA**. (2021). Influences of photoperiod and shelter on some phenotypic traits in African catfish (*Clarias Gariepinus Burchell 1822*) Larvae. Pakistan Journal of Zoology.1-15.
22. Rahman SM, **Alkhamis YA**, Alsaqufi AS, Rahman MM, Ahsan MN, Mathew RT, Hossain Q Z. (2020) Short-term storage of Asian walking catfish (*Clarias batrachus Linnaeus, 1758*) gametes. Advances in Animal and Veterinary Sciences. 8:1394-1401
23. **Alkhamis Y**, Qin JG. 2015. Comparison of pigment and proximate compositions of *Tisochrysis lutea* in phototrophic and mixotrophic cultures. J Appl Phycol. 27:2231-2238
24. **Alkhamis Y**, Qin JG. 2014. Comparison of N and P requirements of *Isochrysis galbana* under phototrophic and mixotrophic conditions. J Appl Phycol. 28:35-42
25. **Alkhamis Y** and Qin JG. 2013. Cultivation of *Isochrysis galbana* in phototrophic, heterotrophic and mixotrophic conditions. BioMed Research International (formerly titled Journal of Biomedicine and Biotechnology), Vol 2013, Article ID 983465, 9 p., <http://dx.doi.org/10.1155/2013/983465>.

**CHAPTER OF BOOK**

- Mathew, R. T., & Alkhamis, Y. A. (2024). Contribution of Sustainable Fisheries and Aquaculture to Food Security in Saudi Arabia. In Food and Nutrition Security in the Kingdom of Saudi Arabia, Vol. 1: National Analysis of Agricultural and Food Security (pp. 181-205). Cham: Springer International Publishing.

**TRANSLATION BOOK**

- Marine Biology (under revision)

**REVIEWING MANUSCRIPTS for JOURNALS**

- 2 manuscripts for Journal of Applied Phycology
- 3 manuscript for Scientific Journal of King Faisal University

**CONFERENCES PARTICIPATION**

- Alkhamis (2023) Utilization of wastewater-runoff from dates packing factory in culture of *Spirulina platensis* and *Chlorella Vulgaris*, international algae conference and exhibition, 4-6 Jun, Dhahran, KSA
- Alkhamis et al. (2023) Influence of pH-Induced Stress on Biodiesel Production Under Mixotrophic and Autotrophic Microalgae Cultivation. Healthy Mangroves and Sustainable Fisheries for Climate Resilient Coastal Community in South Asia Conference, 1-3 March, Khulna, Bangladesh.
- Alkhamis Y (2022) Marine Pollution: problems and solutions. Food security and environmental sustainability conference, 7-9 March, KFU
- Alkhamis Y, Qin JG. 2014. Enhancement of growth and production a microalga *Isochrysis galbana* under phototrophic and mixotrophic conditions. World Aquaculture Conference, June 7-11, Adelaide. Australia.
- Alkhamis Y, Qin JG and Zhang W. 2012. Cultivation of marine microalgae in heterotrophic and mixotrophic conditions. Asia-Pacific Conference on Algal Biotechnology. 9-12 July 2012. Adelaide, Australia.

**WORKSHOPS and TRAINING COURSCES**

- Institutional Learning Ambassadors (18/10/2022-23/5/2023)
- Skills and tools of using Blackboard (2-1/3/1439)
- New Faculty Certificate Program (15/3 to 15/8/1438), Ohio University and KFU
- Taxonomy and Ecology of Marine Dinoflagellates (13-24/2/1438) KISR. Kuwait.
- Self-Study Report Program (26-27/5/1437), KFU
- Risk Management and Strategic planning (27-28/2/1437), KFU

- Applying Transformational Outcome-Based Education (16-18/2/2016) KFU. Alhasa
- Student Advising and Integrating Soft Skills in Teaching and learning (13-14/4/2016) KFU.
- Asian-Pacific Aquaculture Conference 2012 (9-12/6/1433) Melbourne, Australia.

#### **MASTER STUDENT SUPERVISION**

- Norah Alomair (2024) Utilization of wastewater-runoff from dates packing factory in culture of *Spirulina platensis* and *Chlorella Vulgaris*.
- Ahmed Alarfaj (2021) A study of coral biodiversity on the Karan Island

#### **VISITING SCIENTISTS HOSTED**

- Abdulaziz M. Aldamri (2020) University of Glasgow, Glasgow, United Kingdom. Algae culture.

#### **TRAINING/WORKSHOPS DELIVERED**

- Aquaponics system for MEWA employee, (29/3/2021) Alhasa
- Fish Culture for Administrative Assistants at the Agricultural Development Fund, (1/2023) Alhasa
- Future of Aquaculture in arbia gulf and red sea for MEWA employee (19-31/10/2023) Alhasa
- Aquaculture Technology for farmer and investor (19-23/2/2024) Emirate University, AbuDhabi

#### **TEACHING**

- Introduction in Fish Production
- Marine Plant and Animals
- Marine environment
- Plankton and Productivity
- Pollution of Aquatic Environment (PG)
- Benthic Ecology (PG)
- Establishment of fish farms (PG)
- Aquaculture (PG)

#### **RESEARCH INTEREST**

- Algal culture and applications
- Live feed production
- Aquaculture
- Fish spawning