

*Mohammad K. Al-Zibdah, PhD. Msc. Bsc.*  
**Marine ecology and aquatic bio resources**

Bio brief (tasks and capabilities)

**Current:** Professor of marine biology at Jordan University of Aqaba. Senior researcher of marine aquaculture and aquatic environment.

*In academia:* Mentoring courses at the faculty of marine sciences in Jordan University of Aqaba. Courses to undergraduates are general biology, aquaculture, fishery, coastal ecology in addition to research methods and mariculture to postgraduates. Several workshops and conferences were organized during my profession on regional and international levels

*In research:* Introduce efficient and innovative techniques on concepts of green aquaculture. This is to reduce pressure on the coral reef environment maintaining ecosystem sustainability while optimizing the benefits of the ecosystem goods and services for coastal communities and end users. Expertise on early development and nutritional requirements for cultured species of marine origin. Perform studies on using Indoor and outdoor recirculating aquaculture systems (RAS) for rearing and domesticating endemic marine species emphasizing the bioresources of Gulf of Aqaba/Red Sea.

*In management:* Contribute in capacity building for user groups, decision makers and other relevant stakeholders to help them understand uses and resource benefits of the marine environment with emphasis to aquaculture. Engaged in events to enhance awareness, promoting conservation measures of marine environment at key national and international agencies.

*In monitoring:* Participate in all activities on marine environmental monitoring, emphasizing aquaculture in coral reef ecosystem and sea grass beds. Participate in the assessment of coastal sites achieving an integrated coastal zone management (ICZM). Participate in constructing short and long term environmental monitoring plans as well as coordinating consultancies and EIA studies for commercially based coastal investment in Gulf of Aqaba, Red Sea

*In consultancy:* Capability in reviewing existing legislations, strategies, policies and management plans for marine environment as well as specific aquatic resources (e.g. fisheries and aquaculture). Undertake assessments of marine environment status including managerial laws, strategies, policies, measures and practices aiming at developing guidelines to mainstream them in national legislations and planning for different resources and sectors.

# Detailed C.V.

## MOHAMMAD K. AL-ZIBDAH, *PhD. MSc. BSc.*

### Aquaculture and marine biology

#### WORK EXPERIENCE

Professor and instructor at the faculty of marine sciences, University of Jordan/Aqaba.

- Researcher and principal investigator of aquaculture and marine environment (marine biology).
- Coordinator of national and international research projects.
- Chief scientist at the aquaculture unit of the Marine Science Station, University of Jordan, Aqaba Jordan.

---

#### RESPONSIBILITIES:

- Lecturing scholarly courses to undergraduate and graduate students at faculty of marine sciences, University of Jordan/Aqaba
- Conduct research in basic and applied marine environmental sciences with emphasis on aquaculture, fishery and coral reef.
- Analyze data of the research and monitoring projects and publish results in peer-reviewed journals
- Supervise Jordanian and international postgraduates at MSc. and PhD levels
- Reviewer of scholarly articles of marine science in journals from local and international

---

#### KEY QUALIFICATIONS

40 years of experience in research and monitoring (R&M) on marine biology and coastal environment, Gulf of Aqaba, Red Sea. Expertise in marine fish and shell fish aquaculture (early development and nutritional requirement)

---

#### COORDINATION OF WORKSHOPS AND TRAINING COURSES

- Coordinator and organizer of the National Seminar on the EU-ENPI-CBC Project RAOP-MED "Risk Assessment Analysis on Offshore Platforms in South East Mediterranean" Mar 2015
- Instructor on HACCP for Omani trainees, Ministry of Fishery, Sultanate of Oman, June 2012
- Coordinator of the National Workshop on Public Awareness and Outreach Concerning UP POPs, Aqaba, November 24th 2011
- Coordinator and organizing committee chairman of the international conference on "Rapid Urbanization and Land Use Conflicts in Coastal Cities" Aqaba, 2007.
- Coordinator of the international training course on marine sciences, Marine Science Center- A multi National Red Sea Program (RSP), 2000, Aqaba-Jordan
- Coordinator of stakeholder meeting of the Environment, Social and Cultural Implications of the Aqaba Fishers and Fishing Industry in Aqaba-Jordan. UNESCO and MSS, Aqaba, 2005
- Coordinator of the multi national training course in scientific diving, Royal Diving Center, Red Sea Program (RSP), 2000

---

#### TRAINING, WORKSHOPS, MEETINGS AND CONFERENCES

1. Fulbright Scholar at Mote Marine Laboratory and Aquarium, Aug 2019-Mar 2020, Sarasota, FLORIDA
2. the 6th International Symposium on Stock Enhancement and Sea Ranching, 11-14 November 2019, Sarasota, Florida.
3. International Conference on the Marine Environment of the Red Sea, KAUST Research Conference, 2016, Jeddah, Saudi Arabia
4. Scientific visit to MOTE research laboratory. Exchange views and discussions with research staff at the Aquaculture Park and main laboratory at Sarasota, Florida. 26 Aug-31 2016.
5. Final conference of the EU funded ENPI CBC project, MARI NOSTRUM. Valencia, Spain, 24-26 Nov. 2015.
6. 5<sup>th</sup> Steering committee meeting for the project RISK ASSESSMENT ANALYSIS ON OFFSHORE PLATFORMS IN SOUTH EAST MEDITERRANEAN (RAOP-MED), Cyprus, Mar 2016
7. Regional Workshop on Harmonization of Environmental and Socioeconomic Monitoring and Updating a Regional Monitoring Manual. PERSGA, Jeddah, Feb 2015
8. 4<sup>th</sup> Steering committee meeting for the project RISK ASSESSMENT ANALYSIS ON OFFSHORE PLATFORMS IN SOUTH EAST MEDITERRANEAN (RAOP-MED), Athens, 16 December 2014.

9. Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia (IOSEA) Seventh Meeting of the Signatory States, 5-8 August 2014, Bonn-Germany
10. BioTech 2014 & 6th Czech-Swiss Symposium with Exhibition, 11-14 June 2014, Prague, Czech Republic
11. Final conference of the INCAM-ERAWIDE Project on Improving National Assessment and Monitoring Capacities for Integrated Environment and Coastal Ecosystem Management, May 16 -17/ 2013, Izmir-Turkey
12. 9th International Symposium on SEASTAR2000, Kyoto, Japan, March 17-19/2013
13. International Conference on "Land-Sea Interactions in the Coastal Zone". Byblos- LEBANON, 06-08 November 2012
14. 2<sup>nd</sup> Regional Scientific meeting on "Marine researches in PERSGA region: gaps, challenges and future ambitions" 13-14 March 2012 PERSGA HQ, Jeddah
15. Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia (IOSEA), Sixth Meeting, Bangkok-Thailand, 22-27 Feb. 2012.
16. International Symposium on "Marine Ecosystems & the issue of Marine Natural Products and their Bioactive Metabolites "25-27 October 2011, Bogor- Indonesia
17. Red Sea and Gulf of Aden Strategic Ecosystem Management Project Preparation Grant Inception Workshop February 7th – 8th 2011, Jeddah-Saudi Arabia
18. Technical Meeting for the Conservation of the Dugong and its Habitat and associated meeting on Marine Turtles in the North West Indian Ocean (NWIO). Abu Dhabi, 4 - 6 October, the UNEP/CMS Office
19. 14<sup>th</sup> International Biotechnology Symposium and Exhibition, Rimini, Italy, 14-18 September 2010
20. The 6<sup>th</sup> International Symposium on SEASTAR2000 and Asian Bio-logging Science (The 10th SEASTAR2000 Workshop), February 23 – 25, 2010, Phuket, Thailand
21. General Assembly of NATO "Science for Peace" funded project "Societal security and environmental impacts concerning mariculture in the Red Sea "Kiel-Germany, Jan 2010
22. Advanced training workshop on marine finfish hatcheries, 4/5/2009-2/6/2009, TICA, Thailand.
23. Second Meeting on International Cooperation on Migratory Sharks Under the Convention on Migratory Species, Rome, Italy, 6-8 December 2008
24. Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia (IOSEA), Fifth Meeting of The Signatory States Bali-Indonesia, 20-23 Aug. 2008
25. 8<sup>th</sup> International Marine Biotechnology Conference (IMBC), March 11-16, 2007
26. International Seminar on coastal water management & sustainable use of marine resources, 14-16 November 2006, Dakar – Senegal
27. Workshop on Technology and Management of Aquaculture, 26/8-12/9/2003, Taiwan
28. International seminar on fishery resources and industry in the Arab world organized by the Marine Science Institute of Teshreen University in collaboration with the regional office of Arab Union of Food Industry, Latakia, Syria, 24-27 May, 2006
29. International Conference on Coastal Oceanography and Sustainable Marine Aquaculture (ICCSMA), Confluence & Synergy. Borneo, University Malaysia Sabah, Malaysia, May 2006
30. Memorandum of Understanding on the Conservation and Management of Marine Turtles and their Habitats of the Indian Ocean and South-East Asia, FOURTH MEETING, Mascut, 11-14 March 2006
31. Sixth International Aquarium Congress (IAC2004), 11-14/12/2004, Monterey, California
32. Advanced course on the use of veterinary drugs and vaccines in Mediterranean aquaculture, CIHEAM, 21-25/5/2003, Izmir, Turkey.
33. Workshop on Bathing Water Quality, World Health Organization and Aqaba Special Zone Authority, Aqaba-Jordan, June/2003
34. International conference on food security and fisheries resource in the Islamic world, Al-Azhar University, Cairo, Egypt October, 2003
35. Seminar on Mollusc Production in Mediterranean Countries, CIHEAM -FAO, 27-31 May 2002, Zaragoza, Spain
36. International symposium of coral reef ecosystem, Nov. 23-27' 2000, Bali, Indonesia
37. Global Quality Assessment in Mediterranean Aquaculture, CIHEAM-IAMZ-FAO, Barcelona, 29 Nov.-2 Dec.1999.
38. Global information system (GIS) and data management, Aqaba Region Authority (ARA), Oct 1999, Aqaba- Jordan
39. Offshore Technologies for Aquaculture, Program FAIR, Technion I. T. and British Council, 13- 16 Oct. 1998,
40. Regional Symposium on Enhancement of Coastal Productivity in the Middle East through Mariculture Development. 14-16 Oct. 1996.
41. Advanced course on Marine Aquarium and Museum (technical aspects and operation) MUSEE Oceanographique, Monaco, France, Jan. 1984

42. Advanced course on fisheries stock assessment in countries of Red Sea and Gulf of Aden, UNDP, Aqaba, October 1982.

---

## PUBLICATIONS

1. **Al-Zibdah Mohammad** (2021). Integrated coastal zone measures; a vision for effective implementation in Aqaba Jordan (*Arabic*), Mou'tah Lebohouth Waddirasat, 36 (2),13-38
2. Wahsha. M. **Al-Zibdah, M.** (2020). The role of natural antidotes as an alternative to chemotherapy in fish aquaculture. *Fresenius Environmental Bulletin*, 29 (11), 9667-9674.
3. Abba Salisu, **Mohammad Al-Zibdah**, Tariq Al-Najjar (2019). Can Powdered Microencapsulated Whole Egg, *Ulva lactuca* and Grasshopper Improve Growth Performance and Economic Viability of African Catfish (*Clarias gariepinus*) Fry? *Aquaculture Studies*, 19 (2): 125-132. DOI : 10.4194/2618-6381-v19\_2\_05
4. Hadadin R., **Al-Zibdah, M.** Bakri, A., (2019). Investigating potential quorum sensing inhibition and antimicrobial activity of some algae collected from Gulf of Aqaba, The Red Sea. *Fresenius Environmental Bulletin*, 28(6) 4542-45-48
5. **Al-Zibdah, M.**, Jawasrah R, Badran M., (2018). Socioeconomic and cultural ethics of fishermen community in Aqaba, Red Sea (*Arabic*), 2018, العدد 1 ، المجلد 11 ، المجلة الاردنية للعلوم الاجتماعية ،
6. Nayak, S., W. Koven, I. Meiri, I. Khozin-Goldberg, N. Isakov, **M. Al-Zibdah**, D. Zilberg. (2017). Dietary arachidonic acid affects immune function and fatty acid composition in cultured rabbitfish *Siganus rivulatus*. *Fish & Shellfish Immunology*, 68: 46-53
7. **Mohammad K. Al-Zibdah**. Giant Clam, *Tridacna spp.* (2015), A Potential Candidate for Green Aquaculture of High Revenue in Jordan's Gulf of Aqaba. *Jordan Journal of Agricultural Sciences*, Volume 11, No.3, 677-690.
8. **Mohammad Al-Zibdah** (2014). Growth profile of gilthead bream reared in mega flow re-circulating aquaculture system, *Journal of Agricultural Science and Technology*, A 4: 307-314.
9. Loya, Y. A. Genin, **M. el-Zibdeh**, M. Naumann, C. Wild (2014). Reviewing the status of coral reef ecology of the Red Sea: key topics and relevant research. *Coral Reefs*, DOI 10.1007/s00338-014-1170-1
10. **Mohammad Al-Zibdah** (2013). The Aqaba Marine Protected Area - Integration of Marine Science and Resource Management in the Gulf of Aqaba-Red Sea. *International Journal of Marine Science*, Vol.3, No.44: 361-367
11. **Mohammad Al-Zibdah** (2013). The National Action Plan; An Approach to Prioritize Acts Related to the Conservation of Marine Turtles at Jordan's Gulf of Aqaba. *Journal of Environmental Science and Engineering A2*: 364-372
12. **Mohammad Al-Zibdah** and Laura Colgan (2013). In-situ surveillance of coral-turf algae interactions in fringing reefs of the Jordan's Gulf of Aqaba- Red Sea. *Fresenius Environmental Bulletin* 22 (8a), 2379 – 2384
13. Malik S. Naumann, Claudio Richter, Claudius Mott, **Mohammad Al-Zibdah**, Riyad Manasrah and Christian Wild. Budget of coral-derived organic carbon in a fringing coral reef of the Gulf of Aqaba, Red Sea. *Journal of Marine Systems* 105–108 (2012) 20–29.
14. Benzvi, O., **M. Al-Zibdah**, V. Bresler, Y. Jamal, and A. Abelson (2011). Coral Reef Monitoring: From Cytological Parameters to Community Indices. *Journal of Marine Biology*, Article ID 151268, 11 pp.
15. Carin Jantzen, Christian Wild, Mohammed Rasheed, **Mohammed El-Zibdah**, Claudio Richter (2010). Enhanced pore-water nutrient fluxes by the upside-down jellyfish *Cassiopea sp.* in a Red Sea coral reef. *Mar Ecol Prog Ser.*, 411: 117–125
16. Haas, A. **M. Al-Zibdah** C. Wild (2010). Seasonal monitoring of coral–algae interactions in fringing reefs of the Gulf of Aqaba, Northern Red Sea. *Coral Reefs*, 29: 93–103
17. Naumann, M. S. A. Haas. U. Struck, C. Mayr. **M. Al-Zibdah**. C. Wild (2010). Organic matter release by dominant hermatypic corals of the Northern Red Sea. *Coral Reefs*, 29 (3): 649-659
18. K. Bahartanm, **M. Al-Zibdah**, Y. Ahmed, I. Alvaro, I. Brickner and A. Abelson. (2010). Macroalgae in the coral reefs of Eilat (Gulf of Aqaba, Red Sea) as a possible indicator of reef degradation. *Marine Pollution Bulletin* 60: 759–764
19. Sadder, M., Al-Tamimi, H., **Al-Zibdah, M.** and Abdeen, A. (2010), Third Generation Biofuel in the Arab World: Cell Culture and Molecular Identification. *International Engineering Conference on Hot Arid Regions (IECHAR 2010)*, pp 293-297.
20. **Mohammad Al-Zibdah** and Laura Colgan (2010). Coral-turf algae interactions in fringing reefs of the Jordan's Gulf of Aqaba- red sea. *Proceedings of the 6<sup>th</sup> International Symposium on SEASTAR2000 and Asian Bio-logging Science, the 10<sup>th</sup> SEASTAR2000 Workshop*. February 22-25 Phuket, Thailand
21. Malik Naumann, Claudio Richter, **Mohammad Al-Zibdah**, Christian Wild. (2009). Coral mucus as an efficient trap for picoplanktonic cyanobacteria: implications for pelagic–benthic coupling in the reef ecosystem. *Mar Ecol Prog Ser.*, 385: 65–76.

22. Tariq Al-Najjar, Abdel Wahab Al Shiyab, Sayeeda Meer, **Mohammad Al-Zibdah** and Ahmad Abu-Hilal (2010). Heterotrophic Nutrition of Giant Clams from the Jordanian Coast of the Gulf of Aqaba, Red Sea. *Dirasat, Pure Sciences*, 37(1):51-59
23. Wild C, Haas A, Naumann M, Mayr C, **Al-Zibdah M** (2009b) Phase shifts in coral reefs – comparative investigation of corals and benthic algae as ecosystem engineers. *Proc 11th Int Coral Reef Symp* 1319–1323
24. Wild C, Haas A, Naumann MS, Mayr C, El-Zibdah M (2009a) Comparative investigation of organic matter release by corals and benthic reef algae—implications for pelagic and benthic microbial metabolism. *Proc 11th Int Coral Reef Symp*: 1319–1323
25. **Mohammad Al-Zibdah** and Neme Kan'an (2009). Aspects of Growth, Reproduction, and Feeding Habit of Three Pomacentrid Fish From Gulf of Aqaba, Jordan. *Jordan Journal of Biological Sciences*, 2(3): 119-128.
26. **Mohammad Al-Zibdah** (2008). Community structure of fishes in relation to coastal industrialization on Jordan's Gulf of Aqaba, Red Sea. *J.J. Appl. Sci. Vol. 10, No.1*, 59-70.
27. Tariq Al-Najjar, Jamal Bani Fawaz, Riyadh Manasrah, **Mohamad Al-Zibdah**, Ahmad Abu-Hilal (2009). Variations of Heavy Metals Concentration in Suspended Matter and Physiochemical Properties in the Coastal Surface Water of the Gulf of Aqaba. *Jordan Journal of Biological Sciences*, Vol. 1 No. 4, 153 – 158.
28. **Al-Zibdah Mohammad**, Oqaily Firas, Al-Najjar Tariq, and Manasrah Riyadh (2008). Neighboring Cage Fish Farming Affecting Water and Seabed Quality of the Jordanian Northern Gulf of Aqaba, Red Sea. *Ocean Science Journal*, Vol. 43 No. 1, 9-16
29. **Mohammad Al-Zibdah**, S. Damhoureyeh and M. Badran (2008). Temporal variations in coral reef health at a coastal industrial site on the Gulf of Aqaba, Red Sea. *OCEANOLOGIA*, 49(8), 1-14
30. Carin Jantzen, Christian Wild, **Mohammed El-Zibdah**, Hilly Ann Roa-Quiaoit, Christoph Haacke and Claudio Richter (2008). Photosynthetic performance of giant clams, *Tridacna maxima* and *T. squamosa*, Red Sea. *Mar Biol*, 155:211–221
31. Claudio Richter, Hilly Roa-Quiaoit, Carin Jantzen, **Mohammad Al-Zibdah**, and Marc Kochzius (2008). Collapse of a New Living Species of Giant Clam in the Red Sea. *Current Biology* 18, 1–6.
32. Zvuloni, A., O. Mokady, **M. Al-Zibdah**, G. Bernardi, S. Gaines and A. Abelson (2008). Local Scale Genetic Structure in Coral Populations: A Signature of Selection. *Marine Pollution Bulletin*, 56:430– 438.
33. Benzvi O., M. Kiflawi, S. Gaines, **M. Al-Zibdah**, S. Sheehy, G. L. Paradis, A. Abelson (2008). Tracking recruitment pathways of *chromis viridis* in the Gulf of Aqaba using otolith chemistry. *Mar Ecol Prog Ser. Vol. 359*: 229–238
34. Riyadh Manasrah, **Mohammad Al-Zibdah**, Firas Al-Ougaily, Najim Yusuf, and Tariq Al-Najjar (2007). Seasonal changes of water properties and current in the northernmost Gulf of Aqaba, Red Sea. *Ocean Science Journal*, Vol. 42 No. 2, 26-37
35. **Al-Zibdah**, M. Quiaoit, H.R. and Richter, C. 2006. The sustainable and pioneering aquaculture of giant clams (*Tridacnidae*) in the Jordanian sector of the northern Gulf of Aqaba. *Proceedings of International Conference On Coastal Oceanography And Sustainable Marine Aquaculture (ICCSMA), Confluence & Synergy. Borneo, University Malaysia Sabah, Malaysia, May 2006*
36. **Al-Zibdah**, M. 2007. Population status and conservation of marine turtles at Jordan's Gulf of Aqaba, Red Sea. *Journal of British Chelonia group (Testudo)*, Vol. 6 No. 4, 58-66.
37. **Al-Zibdah**, M. and N. Odat. 2007. Fishery status, growth, reproduction biology and feeding habit of two Scombrid fish from the Gulf of Aqaba, Red Sea. *Lebanese Science Journal*, 8(2), 3-20
38. Badran, M. I. and **Al-Zibdah**, M. K. 2005. Quality Standard Codes of Reference of Jordanian Coastal Waters of the Gulf of Aqaba, Red Sea. *Chemistry and Ecology*. 21(5): 337-350
39. Badran, M. and **Al-Zibdah**, M. 2005. Environmental Quality of Jordanian Coastal Surface Sediment, Gulf of Aqaba. *AMBIO*, 34(8): 615-620
40. Badran, M. and **Al-Zibdah**, M. 2006. Environmentally Friendly Mariculture in Coral Reef Areas, Jordan, Gulf of Aqaba, Red Sea. *Mu'tah lilbubuth wad-Dirasat* 21(1), 37-47
41. **Al-Zibdah**, M., M. Khalaf and N. Odat. 2006. The fishery status in Jordan's Gulf of Aqaba, Red Sea. *Dirasat, pure sciences*. 33(1), 127-141
42. **Al-Zibdah**, M. and S. Damhoureyeh, 2006. Spatial and Temporal Distribution of Macroalgae along the Jordanian Coast of Gulf of Aqaba, Red Sea. *Dirasat, pure sciences*. 33(1), 35-47.
43. **Al-Zibdah, M. 2005**. Jordan's national Strategic Action Plan for the Conservation of Marine Turtles and their Habitats in the Red Sea and Gulf of Aden. *The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden (PERSGA)*, 45 PP.
44. **Al-Zibdah**, M., Khalaf, M. and Al-Najjar, T. 2003. Cultural and socioeconomic structure of the fisherman community and fishing industry in the Jordan's Gulf of Aqaba, Red Sea. A report prepared for UNESCO Office – Education Division- Amman-Jordan. 50pp
45. **Al-Zibdah**, M and Badran, M. 2003. Managing Coral Reef is a Key Tool for Tourism Promotion Strategy in Aqaba Region-Jordan. *Mu'tah lilbubuth wad-Dirasat* 18(4) 147-169

46. **Al-Zibdah**, M, S. Matsui and M. Furuichi, 2001. Requirement of Tiger Puffer *Takifugu rubripes* for dietary iron. J. Fac. Agr. Kyushu Univ., 45 (2): 473-479.
47. Tachihara, K., **Al-Zibdah**, M., Ishimatsu, A. and Tagawa, M. 1997. Improved Seed Production of Goldstriped Amberjack, *Seriola lalandi* Under Hatchery Conditions by Injection of Triiodothyronine (T<sub>3</sub>) to Broodstock Fish. J. World Aquaculture, 28:1, USA.
48. **Al-Zibdah**, M., Tachihara, K., Tagawa, M. and Ishimatsu, A. 1996. Effect of Triiodothyronine (T<sub>3</sub>) injection of broodstock fish on seed production in cultured seawater fish. J. Japan Aquaculture Society, 44 (4) 487-496, Japan
49. Tachihara, K., **Al-Zibdah**, M., Ishimatsu, A. and Tagawa, M. 1996. . Effect of Triiodothyronine (T<sub>3</sub>) injection on Seed Production of Goldstriped Amberjack, *Seriola lalandi*. In Survival Strategies in early Life Stages of Marine Resources: Proceedings of an International workshop/Yokohama, Japan. (ed. By Y. Watanabe and Y. Oozeki), A.A. Balkema, Rotterdam, pp. 39-48.
50. **Al-Zibdah**, M., Yoshimatsu, T., Matsui, S. and Furuichi, M., 1996. Effect of the deletion of Ca or Trace Elements from purified diets on growth and efficiency of feed utilization of Redlip Mullet. J. Fac. Agr. Kyushu Univ., Japan. 40 (3.4): 375-382
51. **Al-Zibdah**, M., Yoshimatsu, T., Matsui, S. and Furuichi, M., 1996. Effect of the deletion of K, Mg or Fe from purified diets on growth and efficiency of feed utilization of Redlip Mullet. J. Fac. Agr. Kyushu Univ., 40 (3.4): 383-390.
52. **Al-Zibdah**, M., Yoshimatsu, T., Matsui, S., Furuichi, M., Kitajima, C. and Azuma, R., 1995. Requirement of Redlip mullet for Dietary Phosphorus. J. Fac. Agr. Kyushu Univ., Japan 40 (1.2): 135-145.
53. **Al-Zibdah**, M., Ide, K., Yoshimatsu, T., Matsui, S. and Furuichi, M., 1995. Dietary Phosphorus Requirement of the Yellow Croaker, *Nebia albiflora*. J. Fac. Agr. Kyushu Univ., Japan 40 (1.2): 147-155.
54. **Al-Zibdah**, M., Ide, K., Yoshimatsu, T., Matsui, S. and Furuichi, M., 1995. Effect of the Deletion of Ca or Trace Elements from Purified Diet on Growth and Efficiency of Feed Utilization of the yellow croaker, *Nebea albiflora*. J. Fac. Agr. Kyushu Univ., Japan 40 (1.2): 157-166.
55. **Al-Zibdah**, M., Ide, K., Furuichi, M., 1995. Effects of the deletion of Mg or Fe from purified diets on growth and efficiency of feed utilization of yellow croaker *Nibea albiflora*. J. Fac. Agr. Kyushu Univ., Japan 40 (3.4): 391-397.
56. Mahasneh, I., Jamal, M., Kashashneh, M., **Al-Zibdah**, M., 1995. Antibiotic Activity of Marine Algae Against Multi-Resistant Bacteria. Microbios, 83 (334): 23-26.
57. Sway, M., Badran, M. and **Al-Zibdah**, M., 1991. Seasonal variations in the primary productivity and chemical constituents of the algae *caulerpa serrulata* and *Enteromorpha sp.* from the Gulf of Aqaba (Jordan). Mu'tah J. Res. Stud., 6 (1): 13-28.

---

#### **Coordinator, Principal Investigator Of Multi Disciplinary Research Projects Funded Externally**

- Monitoring of Coral Fish Parasites and Diseases, an Effective Tool for Coastal Environmental Health Assessment, duration two years, SRF, Jordan, fund amount **30,000**, 2017 (*accepted*)
- The role of natural antidotes as an alternative to chemotherapy in fish aquaculture. 2016, duration two years, fund amount **50,000** US\$. SRF-Jordan
- EU-ENPI-CBC Project RAOP-MED "Risk Assessment Analysis on Offshore Platforms in South East Mediterranean. 2014. Fund amount **260,000** Euro. Duration two years. EU project
- Application and scale-up of rabbitfish production in Araba valley: Phase B. 2014. Duration three years. Fund amount **248,000** US\$. MERC-USAID
- Production of rabbitfish (*Siganus rivulatus*) through low-impact, land based mariculture, phase A. 2010. Duration three years. Fund amount **236,000**. MERC-USAID.
- Sustainable and profitable aquaculture of giant clam (*Tridacna spp.*) in the Jordanian sector of the Gulf of Aqaba (Red Sea), 2010. Duration three years. Fund amount **95,000** JD. SRF-Jordan
- Societal security and environmental impacts concerning mariculture in the Red Sea, 2007. Duration three years. Fund amount **123,000** Euro. NATO-Science for Peace project.
- Land-based mariculture wastewater treatment - keeping the Red Sea clean, 2004. Duration three years. Fund amount **245,000** US\$. MERC-USAID
- Environmental assimilative capacity of coastal habitats and development of green mariculture of high revenue low environmental burden on the Jordanian sector of the Gulf of Aqaba, Red Sea, 2003. Duration 3 years. Fund amount **103,000** JD. Higher Council for Science and Technology-Jordan.

---

#### **CONTRIBUTION TO RESEARCH AND MONITORING**

- Principal investigator in the multi national research project Red Sea Program (RSP) 1996-2000. BMBF, Germany
- Principal investigator in the tri national research and monitoring program, Marine Peace Park (MERC program), 2000-2003

- Principal investigator "Evaluation, categorization and early-warning monitoring of coastal sites for environmental management" (ICZM). MERC program, 2004-2006
- Coordinator and principal investigator "Environmental assimilative capacity of coastal habitats and green mariculture of high revenue low environmental burden species on the Jordanian sector of the Gulf of Aqaba, Red Sea" Higher Council for Science and Technology/Jordan 2003-2006.
- Coordinator and principal investigator in a binational research project on Land based mariculture systems, Fast track-MERC program, 2006
- Coordinator and principal investigator in a binational research project on Land based mariculture systems, Siganidae phase I, Fast track-MERC program, 2010
- Coordinator and principal investigator in a binational research project on Land based mariculture systems, Siganidae phase II, Fast track-MERC program, 2014
- Principal investigator "monitoring program of marine environment in front of the industrial complex, coral reef and fish assemblages" Jordan Phosphate Mining Company.

#### PhD AND MASTER STUDENT ADVISOR

- The role of natural antidotes as an alternative to chemotherapy in fish, MSc, 2016
- Morphological and Molecular Characterization of Infectious Parasites in Table Fish Traded Via Aqaba Port of Jordan. MSc, 2015
- Effects of selected dietary ingredients on growth and economic viability during early stages of cultured African catfish (*Clarias gariepinus*), MSc thesis. 2014
- Cage fish farming impacts on water and sediment quality of Northern Sector in Gulf of Aqaba, MSc thesis. 2008
- Ecology of plankton feeding fishes from Gulf of Aqaba, MSc thesis. 2002
- Stock assessment of some commercial fishes from Gulf of Aqaba, MSc thesis. 2002
- Fish larval taxonomy, recruitment and dispersal in Jordanian coast of the Gulf of Aqaba, MSc thesis. 2001
- Feeding rhythm on zooplankton of *Chromis pembea* from the Gulf of Aqaba, MSc thesis. 2001
- Heterotrophic nutrition of the two species of Giant clams from Aqaba Gulf, MSc thesis. 2004
- Ultraphytoplankton scavenging by coral mucus enhances food supply to benthic suspension feeders, MSc thesis
- Effect of Ammonium Supplements on the Early Stage Development of Giant Clams. MSc thesis. 2009
- Effect of flow rates in recirculating aquaculture systems RAS on growth profile and tissue quality of the gilthead bream, *Sparus aurata*. MSc thesis.
- Spatial and temporal distribution and ecology of giant clam (*Tridacna spp.*) in the Gulf of Aqaba, PhD

#### PERSONAL DATA

- **Name:** Mohammad Khalil Al-Zibdah
- **Date of birth:** 07/15/1956
- **Place of birth:** Aqaba-Jordan
- **Nationality:** Jordanian
- **Marital status:** Married
- **Address:** Faculty of Marine Science, Jordan University, Aqaba Branch, and Marine Science Station, Aqaba (MSS), University of Jordan & Yarmouk University, P.O. Box 195, Aqaba 77110, Jordan.

**Mobile (+962) 0 772145696, (+962) 0 797179088**

e-mail: [zibdeh@ju.edu.jo](mailto:zibdeh@ju.edu.jo), [mzibdah@yahoo.com](mailto:mzibdah@yahoo.com)

#### EDUCATION

- 1996/3/27: Ph.D in Fish biology (thesis), Faculty of Agriculture, Kyushu University, Fukuoka, Japan.
- 1993/3/25: MSc of Fishery (thesis), Faculty of Fisheries, Nagasaki Univ., Nagasaki, Japan.
- 1978/6/20: BSc of Science (General biology), Faculty of Science, Jordan University, Amman, Jordan.

#### COMPUTER

Experience on word and data processing, presentation and statistics package (windows and Mac).

#### LANGUAGES:

- English and Arabic, fluent reading, writing and speaking
- Japanese moderate reading and good speaking

