

BIOGRAPHICAL SKETCH

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Education: Yarmouk University, Irbid, Jordan, BSc 1990, Biological Sciences
Yarmouk University, Irbid, Jordan, MSc 1995, Biochemistry
University of Bremen – Max Planck Institute for Marine Microbiology,
Bremen, Germany, PhD 2002, Coral Eco-Physiology
Max Planck Institute for Marine Microbiology, Bremen, Germany, 2003,
Postdoctoral Fellow

Professional Experience:

2002 - : Assistant Professor, Marine Science Station-Jordan University
Amman-Jordan and Yarmouk University, Irbid-Jordan.

Publications most closely related to the proposed research:

- Al-Horani, F. A.**, Al-Rousan, S. A., Manasrah, R. S., Rasheed, M. (2005). Coral calcification: use of radioactive isotopes and metabolic inhibitors to study the interactions with photosynthesis and respiration. *Chem. and Ecol.* 21: 325-335.
- Al-Horani, F. A.** (2005). Effects of changing seawater temperature on photosynthesis and calcification in the scleractinian coral *Galaxea fascicularis*, measured with O₂, Ca²⁺ and pH microsensors. *Sci. Mar.* 69: 347-354.
- Al-Horani, F. A.**, Ferdelman, T. Al-Moghrabi, S. M., De Beer, D. (2005). Spatial distribution of calcification and photosynthesis in the scleractinian coral *Galaxea fascicularis*. *Coral Reefs* 24:173-180.
- Al-Horani, F. A.**, Al-Moghrabi, S. M., De Beer, D. (2003). The mechanism of calcification and its relation to photosynthesis and respiration in the scleractinian coral, *Galaxea fascicularis*. *Mar. Biol.* 142:419-426.
- Al-Horani, F. A.**, Al-Moghrabi, S. M., De Beer, D. (2003). Microsensor study of photosynthesis and calcification in the scleractinian coral, *Galaxea fascicularis*; active internal carbon cycle. *J. Exp. Mar. Biol. Ecol.* 288: 1-15.

Significant other related publications: marine chemistry and ecology.

- Al-Horani, F. A.**, Al-Rousan, S. A., Al-Zibdeh, M., Khalaf, M. A. (2006). Status of coral reefs in the Jordanian coast of the Gulf of Aqaba- Red Sea. *Zoology in the Middle East* 38: 99-110.
- Khalaf, M. A., **Al-Horani, F. A.**, Al-Rousan, S. A., Manasrah, R. S. (2006). Community structure of the family Pomacentridae along the Jordanian coast, Gulf of Aqaba, Red Sea. *Zoology in the Middle East* 37: 47-62.
- Rasheed, M., Al-Rousan, S., Manasrah, R., **Al-Horani, F.** (2006). Nutrient fluxes from deep sediment support nutrient budget in the oligotrophic waters of the Gulf of Aqaba. *J. Oceanogr.* 62: 83-89.
- Al-Horani, F. A.** (2005). National action plan for the conservation of coral reefs in Jordan. *Protecting the Environment of the Red Sea and Gulf of Aden (PERSGA)*, Jeddah - Saudi Arabia.
- Ludwig, R., **Al-Horani, F. A.**, De Beer, D., Jonkers, H. M. (2005). Photosynthesis-controlled calcification in a hypersaline microbial mat. *Limnol. Oceanogr.*, 50: 1836–1843.

Publications summary: refereed journal articles: 13
Jordanian national action plan: 1

Extramural Funding History:

Red Sea Program for Marine Science. Bundesministerium fur Bildung und Forschung (BMBF) - Germany. 1999-2003. 20,000 Euros.

Artificial reef project, Middle Eastern Regional Cooperation (MERC) program of USAID. 2006-2008. \$173,000.

Developing Marine Aquarium for Public Awareness. Global Environment Facility Program. 2005-2007. \$50,000.

Synergistic activities and skills:

Consultant on regional projects: Jordan National Monitoring Program for coral reefs and benthic habitat; Protection of the Environment of the Red Sea and Gulf of Aden (PERSGA); National Action Plan for the Conservation of Coral Reefs, Jeddah-Saudi Arabia; Red-Dead Sea conduit project, marine biological component; Coral Reef Mapping, middle and southern port areas in Jordan.

Speaker at international conferences: 36th European Marine Biology Symposium, Sep. 17-22, 2001, Menorca-Spain; 8th International Symposium on Biomineralization, Sep. 25-28, 2001, Nigata-Japan; NATO Advanced Research Workshop, Past and Present Water Column Anoxia, Oct. 4-8, 2003, Crimea-Eukraine; Red Sea Marine Peace Park International Symposium: Integration of Marine Science and Resource Management, Dec. 2-4, 2003, Aqaba-Jordan; 10th International Coral Reef Symposium, June 28 to July 2, 2004, Okinawa, Japan; Ecological Risk Characterization of Coral Reefs, Hawaii-USA, October 2-7, 2005.

Languages: Arabic, native; English, excellent, communication and written; German, fair communication.

Scuba diving experience: open water diving license and Advanced open water diving license. All dives were done in the Jordanian Gulf of Aqaba.

Active Collaborators:

Craig Downs (University of Hawaii, USA), Nadav Shashar (Ben Gurion University and Interuniversity Institute for Marine Science, Eilat, Israel), Esti Winter (Tel Aviv University, Israel), Zvy Dubinsky (Bar Ilan University, Israel)

Graduate and Postdoctoral Advisors:

Abdulrahim Hunaiti (MSc advisor, Yarmouk University), Bo Barker Jorgensen (PhD advisor, Bremen University and Max Planck Institute for Marine Microbiology), Dirk De Beer (PhD co-advisor and postdoctoral advisor, Max Planck Institute for Marine Microbiology)

Graduate Students:

Solidad Lona (Germany), Malik Hamdi (University of Jordan-Jordan), Marie Jumeil (France), Musa Tarabeen (Jordan University of Science and Technology- Jordan)