

Walid Medhioub

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CAREER OBJECTIVE

2014 Assistant professor at National Institute of Marine Sciences and Technologies (INSTM). An ambitious and well qualified PhD with experience in marine biology and more particularly in microalga culture, analytic chemistry and marine shellfish ecophysiology.

POST-DOCTORAT

2012-2014 **Project Manger of INCOMMET (Improving National Capacities in Observation and Management of Marine Environment in Tunisia).**

- National Institute of Marine Sciences and Technologies, Marine Laboratory (Tunisia)

2011 **Study on the interaction between PSP toxin and mollusks shellfish: physiological impact**

- Montpellier University, ECOSYM (France)

EDUCATION

2007-2010 **PhD in Marine Biology, Study of contamination mechanisms of shellfish contaminated by fast-acting toxins and development of detoxification process.**

- Phycotoxin Laboratory, IFREMER Nantes (France)
- Aquaculture Laboratory, INSTM Monastir (Tunisia)
- University of Western Brittany (UBO) and University of Tunis El-Manar

2006-2007 **Master's degree in Marine Biology, Culture of toxic microalga in photobioreactor.**

- Phycotoxin Laboratory, IFREMER Nantes (France)

2005-2006 **Master's degree (1st year) in Marine Biotechnology.**

- Aquaculture Laboratory, INSTM Monastir (Tunisia)

MOST RELEVANT PUBLICATIONS

- 2014
- Rolland, J.L., Medhioub, W., Vergnes, A., Abi-Khalil, C., Savar, V., Abadie, E., Masseret, E., Amzil, Z., Laabir, M., 2014. A Feedback Mechanism to Control Apoptosis Occurs in the Digestive Gland of the Oyster *Crassostrea gigas* Exposed to the Paralytic Shellfish Toxins Producer *Alexandrium catenella*. *Marine Drugs* 12(9):5035-5054.
- 2013
- Medhioub, W., Ramondenc, S., Vanhove, A., Vergnes, A., Masseret, E., Savar, V., Laabir, M., Amzil, Z., Rolland, J.L., 2013. Exposure to the Neurotoxic Dinoflagellate *Alexandrium catenella* induces apoptosis in digestive gland of the oysters *Crassostrea gigas*. *Mar Drugs* 11(12): 4799–4814.
- 2012
- Medhioub, W., Lassus, P., Truquet, P., Bardouil, M., Amzil, Z., Séchet, V., Sibat, M., Soudant, P., 2012. Physiological responses of *Crassostrea gigas* when exposed to the toxic dinoflagellate *Alexandrium ostenfeldii*: toxin uptake and detoxification. *Aquaculture*, 358-359, 108-105.
- 2011
- Medhioub, W., Séchet, V., Truquet, P., Bardouil, M., Amzil, Z., Lassus, P., Soudant, P., 2011. *Alexandrium ostenfeldii* growth and spirolides production in batch and photobioreactor cultures. *Harmful Algae* 10, 794-803.
- 2010
- Medhioub, W., Guéguen, M., Lassus, P., Bardouil, M., Truquet, P., Sibat, M., Medhioub, M.N., Soudant, P., Kraiem, M., Amzil, Z., 2010. Detoxification enhancement in the gymnodimine-contaminated grooved carpet shell, *Ruditapes decussatus* (Linne). *Harmful Algae*, 9 (2), 200-207.
- 2009
- Medhioub, A., Medhioub, A., Amzil, Z., Sibat, M., Bardouil, M., Ben Neila, I., Mezghani, S., Hamza, A., Lassus, P., 2009. Influence of environmental parameters on *Karenia selliformis* toxin content in culture. *Cah. Biol.Mar* 50: 333-342.

RELEVANT SKILLS

Scientific tasks

- Mesocosm experimentation: study and development of shellfish detoxification process
- Optimisation of toxic microalga culture in photobioreactor
- Study of extraction and quantification methods of phycotoxins (LC-MS/MS)
- Histopathology of toxic shellfish
- Bibliography watching, setting up laboratory techniques, statistical data treatment (Statistica), writing of scientific reports and publications and taking part of national and international congresses.
- Workshop and training organization and EU technical and financial reporting.

Expertise: Toxic Microalgae, Ecophysiology, Emergent phycotoxins, Detoxification-kinetics

Short Biography: Dr. Walid MEDHIOUB is an Assistant Professor of Environmental Toxicology in the Institute of Marine Sciences and technologies (INSTM, Tunisia). He has completed his co-tutelle Ph.D Thesis in Marine Biology obtained from the INSTM, University of Tunis El-Manar/ IFREMER, University of Brest (France)/. Dr. Walid MEDHIOUB has a post-Doctoral experience in the Eco-physiology and Marine Chemistry during several stays in the University of Montpellier 2. Dr. Walid MEDHIOUB has conducting research studies about the characterization of toxic microalgae effects of emergent phycotoxins in marine organisms specially in shellfish. During those research works, He is also interested in the detoxification process of the contaminated marine species (mollusks). Besides the publication of international research originals papers, Dr. Walid MEDHIOUB has participated also in the organization of several scientific meetings and thematic workshops under EU-Project.