

Maxime LAFONT

DoB : 8th Jul. 1989
+(33) 6 42 25 61 60
maxime.lafont@ifremer.fr
http://ihpe.univ-perp.fr/

PhD. Student



Keywords

Immune priming and memory, Innate immunity, Host-pathogen interaction, Oyster *Crassostrea gigas*, OsHV-1 virus, RNAseq, molecular and cellular mechanisms, oyster summer mortality

Researchskills

- **Molecularbiology** (RNA/DNA extractions, RT-PCR/qPCR, primer design, Microarray, RNAseq)
- **Proteomic** (Extraction, 2D gel electrophoresis)
- **Cell biology** (primary cell culture, experimental cell infection, TUNEL)
- **Experimental infections** (oyster)
- **Microscopy** (fluorescence, TEM)
- **Language** (French, English)

LastResearch experiences

- 2014- present **PhD student**, IHPE Laboratory, MIMM team « *Mechanism and specificity of immune priming in lophotrochozoan molluscs* », UPVD, France
Supervisors: DrCaroline Montagnani and Dr Benjamin Gourbal
- 2016 Sept- Dec 2016 **International mobility fellowship**, Macquarie University Sydney, NSW, Australia.
“*Trans-generational immune priming in the oyster C. gigas*”
Supervisors: DrTimothy J. Green and Pr David Raftos
- 2013 Dec-Jun 2014 **Master 2 student** (graduate studies) CNRS BOREA-Oyster Reference Centre laboratories - UNICAEN, Lower Normandy, France
« *Identification of genes involved in the oyster Crassostrea gigas response to the herpes virus OsHV-1* »
Supervisor: Dr Christophe Lelong

Education

- 2014- present **PhD student** in Host-Pathogen-Environment Immunity Laboratory (IHPE), MIMM team, University of Perpignan Via Domitia (UPVD), France
- 2011-2013 **Master degree** in Biology and Physiology, UCBN, Lower Normandy, France
Specialty Continental Environments and Coastal Sciences
- 2008-2011 **Bachelor degree** in Ecology-Biodiversity, UCBN, Normandy, France

Communication

- Publications • Jouaux A., Lafont M., Blin J.-L., Houssin M., Mathieu M., and Lelong C. (2013) Physiological change under OsHV-1 contamination in Pacific oyster *Crassostrea gigas* through massive mortality events on fields. *BMC Genomics*. 14 :590.
- Presentations • Lafont M., Charrière G.M., Gourbal B. and Montagnani C. Molecular mechanisms and specificity of immune priming in the Pacific oyster *Crassostrea gigas*. (Poster) Sustainable Interaction Ecology Network, 23-26th March 2015, Lyon, France
- Lafont M., Montagnani C., Workshop “Innate Immune Memory In Invertebrates”. 30th March 2016, Perpignan, France

Additional activities

Sports (Badminton, Rugby), Beekeeping, Aquarium
Travel: *Spain, Italy, Belgium, Morocco, Canary Islands, Florida, Australia*