



UNIVERSITY
OF MANITOBA

Job advertisement

University of Manitoba, Department of Biological Sciences

MSc or PhD – **Living on the edge: Acid-base Regulation in the Hydrothermal Vent Crab *Xenograpsus testudinatus***

Closing date for application: 15. September 2016

The Weihrauch lab is seeking for a highly motivated MSc or PhD student to investigate mechanisms involved in acid-base regulation, CO₂-sensing and nitrogen excretion in the hydrothermal vent crab *Xenograpsus testudinatus*. This will be investigated also with the background of steadily rising atmospheric P_{CO_2} levels (ocean acidification/global change).



X. testudinatus at hydrothermal vent

In my laboratory we follow an integrative research approach, combining transport physiological methods with molecular and imaging techniques. Accordingly, a strong background in molecular and/or imaging techniques is an asset. Most important however, will be enthusiasm and dedication to the project, and the capability to work independently. The project will be conducted with our collaborators in Taiwan at the Academia Sinica. The applicant should be willing to travel to Taiwan for crab collecting from the shallow hydrothermal vents. For international travel a valid passport is required; an open water diver license is an asset.

Note: Other feasible projects investigating acid-base regulation and nitrogen excretion in seawater and freshwater invertebrates (e.g. horseshoe crabs, FW clams, etc.) can be considered.

Start date:

January 2017

Requirements:

The candidate must have a minimum score of 80 out of 100% (or equivalent) in order to apply for internal and external funding. For international students a TOEFL-test (or equivalent) is required in addition to excellent communication skills (English). Applicants bringing their own funding (e.g. NSERC) will be preferred.

If you are interested please provide your updated CV, an unofficial transcript of your last degree, and contact information of at least 2 references.

Applications should also include a letter outlaying your own research interests and how that would fit into our overall research program.

Please contact me directly by email: Dirk.weihrauch@ad.umanitoba.ca, or phone: 1-204 4746310.