

## **Job advertisement**

### **PhD position**

#### **PhD – Multigenerational adaptability of *Daphnia magna* to simultaneous elevation of temperature and pCO<sub>2</sub> according to climate change models**

The Weihrauch lab is seeking for a highly motivated and dedicated PhD student to investigate the long-term effect of Climate Change on the water flea *Daphnia magna*. Over a 36-month period (ca. 36 generations) animals deriving from a single clone, will slowly be adapted to future climate change scenarios (elevated temperature and pCO<sub>2</sub> levels/decreasing pH). The study will help to understand the levels of stress and corresponding physiological and genetic responses in the water flea but might also provide clues how other freshwater animals with a longer life history will cope with the inevitable changes expected in the year 2100.

In addition to monitoring survival, behavioral changes, plasticity, and physiological parameters it is planned to evaluate changes in gene expression patterns permitting the mitigation of stress.

**Start date:** Upon mutual agreement, preferably by the beginning of 2019 or soon after.

**Requirements:** The candidate should ideally have a strong background in animal physiology. For international students a valid TOEFL-test (or equivalent) is required in addition to excellent communication skills (English).

In my laboratory we follow an **integrative research approach**, combining transport physiological methods with molecular (gene expression/functional expression of transporters) and imaging techniques. Accordingly, skills in molecular and/or imaging techniques are an asset. Most important however, will be enthusiasm and dedication to the project and the capability to work independently.

**What to provide:** If you are interested in the position, please provide your updated CV, an unofficial transcript of your last degree, copy of your MSc thesis, and contact information of at least 2 references.

Applications should also include a short letter outlining their own research interests. Any suitable research proposal/idea related to the overall topic will be considered.

**Funds are available to support the successful candidate with a stipend according to NSERC regulations.**

Application deadline: 30. September 2018.

Please contact me directly by email: [Dirk.weihrauch@umanitoba.ca](mailto:Dirk.weihrauch@umanitoba.ca), or phone: 1-204 4746310.