



## PhD-position in Evolutionary Biology:

### “Parasite evolution in response to climate warming”

The position is available from **1<sup>st</sup> June 2020** and limited to 3 years.

The proposed research is collaboration between Polish and German scientific teams: PD Dr. [Slawek Cerbin](#) from Adam Mickiewicz University (Poland) and Prof. [Justyna Wolinska](#) from IGB and Free University Berlin, jointly financed by Polish National Science Centre and German Research Foundation. The position is mainly based in Poland; however, a six-month research stay at the [IGB-Berlin](#) is planned. Funding for attending national/international conferences is available.

#### Project description:

It is commonly believed that global warming will result in a “sicker world”, with infectious diseases increasing in prevalence and virulence. However, these predictions are based on short-term experiments that have not recognized evolution that could lead to thermal adaptation. This project aims at answering the question whether parasites’ prevalence and virulence is altered under elevated temperatures and if long-term exposure to warming amplifies this effect. The successful candidate will use a combination of experimental evolution and field approaches to generate new predictions regarding the evolution of parasites in a warmer world. He/she will use a model system consisting of the crustacean *Daphnia* and their microparasites. The project offers opportunities to learn state-of-the-art methods and a range of transferable skills.

#### Duties and responsibilities

- laboratory experiments
- field work (including artificially heated lakes which serve as a globally unique model of “warmer world”)
- advance statistical analyses of experimental (life history and genomic) and field (environmental and genetic) data
- writing scientific publications

#### Requirements

- MSc degree in biology
- strong background in evolutionary biology, population genetics or ecology
- hands-on experience with experimental work

- experience in molecular or genomic research would be an advantage
- excellent analytical skills and very good knowledge in statistics (R programming)
- previous experience with *Daphnia* culturing and field work are considered advantageous
- excellent communication and writing skills in English
- good work ethic
- creative thinking

**How to apply:**

Please send complete application documents as a single pdf-file by email to dr. S. Cerbin (cerbins[at]amu.edu.pl; In the subject field include "Paradapt PhD"): no later than **17<sup>th</sup> January 2020**.

**The application should include:**

1) CV

Please include the following statement in your CV: "Pursuant to Article 6 (1) of the General Regulation on the Protection of Personal Data of 27 April 2016 (Journal of Laws EU L 119/1 of 4 May 2016) I agree on the processing of personal data such as: name, (names) and surname, parents' names, date of birth, place of residence (correspondence address), education, course of previous employment, included in my job offer for the needs of current recruitment."

2) A letter of motivation

3) A scan of MSc diploma

4) Contact details to two/three potential referees, including MSc supervisor

The beneficiary of the National Science Centre stipend will be chosen by a selection committee based on regulations about scientific scholarships for young researchers in research projects financed by the Polish National Science Centre. The recruited person will be required to enroll as a regular PhD-student in PhD School of the Adam Mickiewicz University.