

## Competition notice

### PRELUDIUM BIS

Project title:

**What phylogeography can tell us about evolution of hosts and their parasites? Genomics, coevolution, and local adaptations.**

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#### Project description

The aim of the project is to compare genetic diversity in hosts and their parasites in a large geographic scale using bank vole *Myodes glareolus* and its nematode nicenia *Heligmosomum mixtum* as an example. Previous studies suggest that genetic variance in rodents had been shaped by migration patterns from the glacial refugia. This variation is reflected by geographic variance of the parasites. This relationship is poorly studied, and in the project, we aim to explore it using genomic approach.

Voles originating from different refugia display physiological differences that may be explained by adaptation to local environmental conditions. Not all genetic variance can be explained by geographic pattern, a notable example being loci coding components of the immune system. By analysing genome-wide genetic diversity, we will be able to understand better these processes.

#### Requirements

The call is open to all those who are not PhD holders and are not students at the doctoral schools.

- experience in fieldwork and parasite screening **and / or** experience in molecular techniques, preferably including NGS
- experience in data analysis, preferably in R
- willingness to learn and apply bioinformatics
- interest in evolutionary biology
- good writing and oral English skills

**Discipline:** biological sciences

**Admission limit:** 1

#### Recruitment schedule

- registration in the Internet Registration of Candidates, referred to as "IRK", submitting an application to the IRK: from 13 August to 27 August 2021
- qualification procedure: from 01 September to 03 September 2021
- announcement of the ranking list: until 08 September 2021
- accepting documents from qualified candidates: from 09 September to 23 September 2021, until 2 p.m.
- announcement of the list of accepted candidates: until 28 September 2021

## **Recruitment fee**

150 PLN

## **Form of the selection procedure**

Evaluation of the following elements shall be taken into account in the selection process:

- 1) scientific activity of the candidate based on a CV or resumé, documented with scans of materials attached to the application for admission to the School;
- 2) interview with the candidate / qualification examination
- 3) other achievements.

## **Language of the selection process, including the interview**

The interview shall be carried out in Polish or English – in accordance with the candidate's preferences presented in IRK. If the Polish language is selected, the interview may include parts in English.

## **Required documents**

The candidate shall submit a School admission application only through the IRK. The application shall include the following:

- 1) indication of the selected discipline in which the candidate plans to pursue education. By submitting an application for admission to the Doctoral School is understood as submitting a completed and paid recruitment application via the Internet Recruitment of Candidates (IRK). Submission of an application via the IRK is tantamount to submitting an application for admission to the Doctoral School chosen by the candidate;
- 2) a scan of the graduation diploma of uniform master's degree or postgraduate studies or an equivalent diploma obtained under separate regulations. In the case of a diploma equivalent to a uniform master's degree or postgraduate studies graduation diploma, a candidate shall justify such equivalence. In case the diploma was issued in a language other than Polish or English, the candidate shall attach its certified translation;
- 3) a resume or CV outlining the candidate's scientific activity, including scholarly interests and achievements during the five calendar years preceding the application (if a candidate became a parent during this time, as evidenced by a scan of the child's birth certificate attached to the application, this period shall be extended by two years for each child), including, but not limited to:
  - publications,
  - research and organizational work at student research groups,
  - participation in scientific conferences,
  - participation in research projects,
  - awards and honorable mentions,
  - research internships,
  - research skills training programs completed,
  - activities promoting science,
  - activity in science movement representative bodies,
  - average of their university grades,
  - professional career,
  - level of proficiency in foreign languages;
- 4) scans of materials evidencing scientific activity mentioned in their CV and/or resume;
- 5) a document confirming at least B2 proficiency level in English or a declaration of the level of proficiency in English allowing education at the School;
- 6) the scan of a declaration by the planned supervisor, confirming their agreement to undertake the duties of a supervisor and of the number of doctoral students, for whom they perform the duties a

designated supervisor, in accordance with the template constituting Appendix no.4 to the Resolution no. 17 of the Senate of the University of Warsaw of 20th January 2021 on rules of admission to doctoral schools at the University of Warsaw (the University of Warsaw Monitor of 2021, item 13, as amended), the candidate may also attach a scan of their planned supervisor's opinion and opinions of other academics about the candidate and their scientific activity and/or proposed research project;

- 7) the photograph of a candidate's face that allows for their identification;
- 8) a declaration confirming whether the candidate was or is a doctoral student or a participant of doctoral studies or whether they have initiated a doctoral dissertation process or whether proceedings to award them a doctoral degree have been initiated – and if yes, the title of their doctoral dissertation or the research project prepared by a candidate, including the name and last name of the candidate's tutor or supervisor;
- 9) a declaration confirming that they have reviewed the Resolution no. 17 of the Senate of the University of Warsaw of 20th January 2021 on rules of admission to doctoral schools at the University of Warsaw (the University of Warsaw Monitor of 2021, item 13, as amended) and Articles 40 and 41 of the Code of Administrative Procedure;
- 10) scanned transcripts of records of the graduate and postgraduate studies or the uniform Master's degree studies, or equivalent documents (e.g. diploma supplement);
- 11) abstract of the master's thesis or master's project in English (up to 3,000 characters with spaces);

### **Evaluation criteria**

- a) competencies to perform specific tasks in a research project (70% of the final score)
  - 3 points - very good
  - 2 points – good
  - 1 point – poor
  - 0 points - no competencies
- b) publication track record, including publications in renowned scientific papers / magazines (30% of the final score)
  - 4 points – prominent
  - 3 points - very good
  - 2 points – good
  - 1 point – poor
  - 0 points - no publication track record

### **Education program**

The education lasts 4 years. It includes obligatory classes (no more than 300 hours in total during the whole period of education) and the implementation of an individual research program, carried out under the supervision of a supervisor. Beginning of education – October 1, 2021.

### **Scholarships**

PRELUDIUM BIS doctoral scholarships shall amount to:

- PLN 5,000 gross per month, by the month in which a PhD student's mid-term evaluation is performed at the doctoral school and
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shall be awarded pursuant to the Act on Higher Education and Science of 20 July 2018.