

PhD scholarship in OPUS 2021/41/B/NZ9/01054 project - In the search of new insecticides: immunomodulatory role of tachykinin-related peptides and their potential usage in pest control.

Applicant's general competence:

1. MSc (or equivalent) in biology, biotechnology, or related area.
2. Theoretical and practical knowledge about insect physiology.
3. The experience in insect rearing.
4. The knowledge and experience in research concern activity of insect neuroendocrine and immune system.
5. Hands-on experience in basic laboratory techniques used in insect immunology.
6. Proficiency in English (speaking/writing).
7. Ability to work independently and as part of a team.

Aims of the project:

The PhD scholarship will be supported by OPUS 2021/41/B/NZ9/01054 project - In the search of new insecticides: immunomodulatory role of tachykinin-related peptides and their potential usage in pest control. The main aim of the project is detailed analysis of role of tachykinin-related peptides in modulation of immune system activity of one of common storage pest, mealworm beetle *Tenebrio molitor*. The research will be enriched by analysis of participation of insect neuroendocrine system in pathogen recognition. Moreover, the equal important part of the project will be evaluation of potential usage of RNAi technique targeting genes encode TRP precursor and receptor on *T. molitor*. For this purpose, we will analyse the influence of topical and oral application on survival ratio, fertility, fecundity, and immune system activity of tested beetles.

Scope of duties:

1. Maintaining of *T. molitor* culture
2. Participation in analysis of role of insect neuroendocrine system in pathogen recognition and immune response
3. Participation in analysis of potential antiapoptotic action of TRPs
4. Participation in analysis of usage of RNAi technique in controlling of *T. molitor* population

Deadline for submitting application: July 8, 2022

Form of submitting application: email

Employment conditions

1. Workplace: Department of Animal Physiology and Developmental Biology, Faculty of Biology, Adam Mickiewicz University Poznań, Poland
2. PhD scholarship about 3500 PLN netto for 24 months (this period will be extended by 12 months after a pass of the mid-term evaluation)

3. The successful candidates will have to enroll in the PhD Programme of the Doctoral School of Natural Sciences at the Adam Mickiewicz University. (<https://amu.edu.pl/en/admissions/doctoral-schools/recruitment-20222023>)
4. Expected start date of work: October 1, 2022

Additional informations:

The application should contain:

1. CV with educational and scientific achievements (including list of conferences; internships, publications and prizes)
2. Motivation letter
3. Supervisor recommendation
4. MSc diploma
5. Interested candidates should e-mail the following documents to dr Arkadiusz Urbański, email: arur@amu.edu.pl
6. Only selected candidates (based on CV assessment) will be informed and invited to an interview. We only accept applications by e-mail.

Consent clause (please attach the following consent to your application):

Pursuant to Art. 6 (1) (a) and the general regulation on data protection of 27 April 2016 (Journal of Laws UE L 119/1 of 4 May 2016), I consent to the processing of personal data other than those indicated in art. 221 of the Labor Code (first and last names and surname; parents' names; date of birth; place of residence; correspondence address; education; previous employment history) included in my job offer for the purposes of current recruitment.

date and signature

GDPR information clause:

Pursuant to Art. 13 of the general regulation on the protection of personal data of 27 April 2016 (Journal of Laws UE L 119 of 04/05/2016), we would like to inform you that:

1. The administrator of your personal data is the University of Adama Mickiewicza in Poznań with its seat at: ul. Henryka Wieniawskiego 1, 61 - 712 Poznań.
2. The administrator of personal data has appointed a Data Protection Officer supervising the correctness of personal data processing, who can be contacted via the following e-mail address: iod@amu.edu.pl.
3. The purpose of processing your personal data is to carry out the recruitment process for the indicated job position.
4. The legal basis for the processing of your personal data is Art. 6 sec. 1 lit. and the general regulation on the protection of personal data of April 27, 2016 and the Labor Code of June 26, 1974 (Journal of Laws of 1998, N21, item 94, as amended).
5. Your personal data will be stored for a period of 6 months from the end of the recruitment process.
6. Your personal data will not be made available to other entities, except for entities authorized under the law. Access to your data will be granted to persons authorized by