INSTITUTE OF GENETICS
AND ANIMAL BIOTECHNOLOGY
of the Polish Academy of Sciences

Jastrzębiec, 01.07.2021

Call for a Doctoral Scholarship
funded by the National Science Center as part of the project „The functional genomic studies of resveratrol, curcumin, and similar antioxidant phytochemicals." no 2020/37/B/NZ2/03525

Institute name: Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences in Jastrzębiec n/Warsaw
Position: PhD Student
Requirements for the candidate:

1. Master's degree or equivalent in biology, bioinformatics, biostatistics, animal science, chemistry, or veterinary studies (or obtaining such degree by September 30).
2. High motivation for scientific work.
3. Scientific experience in the field of biology, bioinformatics, biostatistics, animal science, chemistry, veterinary studies is welcome
4. Documented knowledge of the English language at the B2 level.
5. Precision, conscientiousness and good manual skills.
6. General competences - availability, very good organization of work, including the ability to work independently as well as working in an interdisciplinary research team, creative thinking.

The competition is open to persons who do not have a doctoral degree and persons who are not participants of the doctoral school.

Discipline: animal science and fisheries
Research topic: the functional genomic studies of resveratrol, curcumin, and similar antioxidant phytochemicals

Description of tasks:
Resveratrol, curcumin, and related antioxidant phytochemicals with phenolic groups have preventive and therapeutic effects with respect to cancer. These effects can be studied using the ultra-modern tools of transcriptomics, as the phytochemicals induce global alterations in gene expression profiles. In particular, resveratrol and curcumin can induce transcription of genes related to cell cycle arrest and apoptosis in cancer cells cultured *in vitro*. Dr. Huminiecki — the principal investigator (PI) on the project — will start with a computational re-analysis of public transcriptomics datasets available for curcumin, resveratrol, and similar phytochemicals. Next, the PI and the PhD student will together conduct experiments to generate new transcriptomics datasets, from either normal or cancer cells treated with the phytochemicals. Our experiments and datasets will focus on dose escalation, time-courses, splicing, and alternative transcriptional start sites, as well as non-coding RNAs, which is a novel approach. We will also compare responses in p53 wild type versus p53-mutated cell lines to differentiate between different mechanisms of apoptosis. The studentship is funded by a grant from the prestigious Polish National Science Center — NCN, which guarantees a safe project, good education, and enjoyable working environment. (Moreover, the PhD position will be advertised and filled according to all professional rules, the standards of professional conduct, and legal regulations of the hosting Institute and NCN.)

Responsibilities in the project:
The PhD student will work and study in the area of functional genomics. In particular, the student will conduct experimental tasks associated with *in vitro* cell culture and transcriptomics. These will include routine tissue culture, the isolation of RNA, the set up of qPCR, as well as microarray and RNA-seq screens. The student will communicate with commercial providers of cells, reagents, and NGS services. The student will also undertake postgraduate coursework in statistics and bioinformatics, and go through routine safety introductions and PhD courses at the Institute. The student will acquire a set of skills that is transferable and highly sought after internationally: guaranteeing good career prospects after the completion of the course, either in academia or in industry.

Type of the NCN call: OPUS 19
Deadline for submitting offers: September 10, 2021
Form of submitting offers: e-mail
Candidate selection deadline: September 24, 2021

Conditions of employment:
Contract duration: **48 months**
Scholarship amount: **5000 PLN/month**
Planned date of commencement of work in the project: **October 1, 2021**

Additional information:

1. The competition application should contain:
    a. Cover letter with a description of scientific/research interests (maximum one A4 page)
    b. CV with particular emphasis on previous achievements.
    c. A copy of the graduation diploma or information about the approximate time of obtaining the master's degree.
    d. Information on the processing of personal data along with consent (signed scan)
    e. Contact details of persons who can provide references.
2. The condition for starting the implementation of tasks in the project and receiving a doctoral scholarship is a successful recruitment to the Doctoral School. More information: https://www.igbzpan.pl/en/regulamin-szkoly-doktroskiej-1
3. The candidate is obliged to fill in the consent to the processing of personal data for recruitment available on the website https://www.igbzpan.pl/en/harmonogram-rekrutacji-i-proponowane-tematy-rok-akademicki-2021-2022-1
4. Documents should be sent by e-mail to the following addresses: l.huminiecki@igbzpan.pl (PI's email) and kancelaria@igbzpan.pl (Message Subject: Application OPUS 19 LUKHUM PhD student - *Name and Surname of the candidate*) by **September 10, 2021.**
5. Selected Candidates meeting the formal and project requirements will be invited for an interview. Information regarding the interview will be sent to the invited candidates by e-mail.
6. Please be advised that the Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences does not return submitted documents.

Scholarship holders will be selected by a committee appointed by the Director of the Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences will take place in accordance with par. 14 of the Regulations for the granting of scientific scholarships in research projects financed from the National Science Centre of March 14, 2019 and with point 2.1.3 Remuneration and scholarships for students and doctoral students of Annex 2 to the Regulations on awarding funds for the implementation of tasks financed by the National Science Center in the field of research projects.

The Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences has the HR Excellence in Research logo awarded by the European Commission to institutions which implement rules of the "European Charter for Researchers" and the "Code of Conduct for the Recruitment of Researchers".

INFORMATION OBLIGATION

1. The administrator of personal data collected during the recruitment process is the Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences, entered into the register of institutes of the Polish Academy of Sciences (kept by the Polish Academy of Sciences) under the number RIN-V-32/98, NIP no. 1230018381, REGON no. 000326196, address: Jastrzębiec, ul. Postępu 36A, 05-552 Magdalenka.
2. Personal data provided to the Administrator by the participants of the recruitment process will be processed in accordance with the provisions of the Regulation of the European Parliament and of the Council (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) (OJ.EU.L. of 2016 No. 119/1, hereinafter referred to as "**GDPR**").
3. According to art. 5, 6, 7 and 13 of GDPR, the Administrator informs that:
   a. Personal data provided by the participant of the recruitment process will be processed on the basis of art. 6 par. 1 letter a) of GDPR, i.e. on the basis of their consent and pursuant to art. 22^1 of the act of 26 June 1974 Labour Code (Journal of Laws 2018.917).
   b. The following personal data are processed during the recruitment process: first name(s) and surname, image, names of parents, date of birth, place of residence (correspondence address), education, other personal details of the employee, including names and surnames and dates of birth of the employee's children if such data is necessary for the employee's use of special rights provided for in the labour law, the employee's PESEL number assigned by the Government Information Center of the Universal Electronic System for Registration of the Population (RCI PESEL), telephone number and e-mail address.
   c. The person involved in the recruitment process has the right to request access to personal data, correct or remove it, as well as limit its processing, oppose to data processing, the right to transfer data and the right to submit a complaint to the supervisory body.
   d. The person participating in the recruitment process has the right to withdraw consent to the processing of data at any time, which does not affect the legality of the processing which had been carried out on the basis of consent granted before its withdrawal.
   e. Providing personal data by a person participating in the recruitment process is voluntary, however, the failure to provide it may prevent this process from being carried out.
4. In all matters related to the processing of personal data of persons participating in the recruitment process, please contact the Institute in writing at the following address: daneosobowe@igbzpan.pl.