

Jastrzębiec, 1.01.2024

**The Director of the Institute of Animal Genetics and Biotechnology of the Polish Academy of Sciences in Jastrzębiec announces an open competition for the position of assistant professor in the following areas: Genetics / Molecular biology / Nutrigenetics and Nutrigenomics**

according to Article 91(5) of the Act on the Polish Academy of Sciences of April 30 2010 (Journal of Laws No. 96, item 619, as amended), the Act of July 20, 2018. The Law on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended), the Statute of IGBZ PAS, and the Rules of the competition procedure for recruitment for scientific positions at the Institute of Animal Genetics and Biotechnology of the Polish Academy of Sciences of March 02, 2020.

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

The Institute of Animal Genetics and Biotechnology of the Polish Academy of Sciences (IGBZ PAN) in Jastrzębiec near Warsaw seeks scientists with experience in **genetics / molecular biology/nutrigenetics and nutrigenomics**.

**Responsibilities and development opportunities as an assistant professor (Polish adiunkt):**

1. A review and compilation of the literature on issues related to current work and experiments in the laboratory;
2. Preparation of scientific publications and presentations at national and international conferences;
3. Planning and execution of laboratory analyses;
4. Supervise the technical efficiency of the laboratory's equipment.

**Requirements to be met by the candidate:**

- holding a PhD degree in biological, biotechnological, or related sciences
- scientific achievements, including original scientific papers
- experience in modern molecular techniques related to transcriptomics, proteomics, and metabolomics: nucleic acid testing (i.e., real-time PCR), proteins (i.e., Western blot),
- knowledge of bioinformatics analysis tools using databases will be an advantage
- experience in laboratory work, including work with cell lines, western blot, basics of molecular biology,
- an additional advantage will be the ability to culture hepatocyte cell lines and conducting experiments in research on epigenetics, tests characterizing processes cell growth, siRNA-mediated gene silencing, and knowledge of the tools used to bioinformatics analysis and databases.
- fluency in written and spoken English
- knowledge of Microsoft Office and the use of statistical programs



- independence, reliability, high motivation in the implementation of research tasks, ability to work in a team
- mobility (the workplace is located in Jastrzębiec – 25 km from Warsaw)

**Preferred Qualifications:**

- ❖ - theoretical and practical knowledge in the field of molecular biology, including analytical methods related to transcriptomics and proteomics, in particular including various isolation techniques and electrophoretic and chromatographic methods of protein separation and their analysis based on mass spectrometry techniques, as well as knowledge of genome and proteome research strategies in the field of structural and functional genomics,
- ❖ - experience in the operation of mass spectrophotometry systems, in particular, such as MS Maldi-TOF/TOF, Ion Trap LC-MS, e.g., ultrafleXtreme Bruker TM (<https://www.bruker.com/en/products-and-solutions/mass-spectrometry/maldi-tof/ultraflextreme.html>), and amaZon speed ETD Bruker TM (<https://www.bruker.com/en/products-and-solutions/mass-spectrometry/esi-ion-trap/amazon-speed-etc.html>) is desirable.

The selected person will actively participate in molecular and nutrigenomic research related to the verification of the impact of dietary components on the body of animals, in particular hepatoprotective substances based on in-vivo animal models and in-vitro cell cultures, as well as studies related to the etiology and pathogenesis of cancer. In particular, she will participate in the implementation of the project entitled: "*Multilevel molecular analysis of the hepatoprotective effect of extracts of medicinal herbs in the prevention of liver dysfunction caused by aflatoxin B1 in pigs as an animal model (in-vivo) and analysis of hepatocyte cell culture in humans and pigs (in-vitro)*". It provides comprehensive studies to assess the impact of natural hepatoprotective components of selected herbs on the proper functioning and regeneration of the liver. The selected person will be involved in the implementation experiments based on hepatocyte cultures and cell lines: a) evaluating changes in gene expression profiles, and in particular the impact of silencing selected genes using siRNA, in comparative experiments based on human and porcine liver cell lines, b) by conducting functional analyses for the comparison of results in vivo and in-vitro experiments, including analyses of data from transcriptomic and proteomic studies, c) identifying and characterizing differences in biological networks associated with metabolic disorders and induction of processes related to tumorigenesis and malignancy.

Detailed information about the requirements for candidates for the position can be found at: <https://tinyurl.com/rules-of-procedure-pl1>

**Desirable qualifications:**

1. Organizational skills,
2. Reliability and punctuality,
3. Excellent ability to work in a team,



**We can offer:**

1. Full-time employment,
2. Competitive salary,
3. A base for experiments on animals (mice, rats, rabbits, sheep),
4. State-of-the-art laboratory infrastructure,
5. Possibility of promotion.
6. Extensive institutional support in the preparation of grant applications.

**Candidates are asked to submit the following documents:**

1. Application
2. Scientific curriculum vitae,
3. A copy of the Master's degree diploma,
4. List of publications, conference reports,
5. Letter
6. Personal questionnaire (template on page <https://tinyurl.com/ighz-pers-inf-form-word> word; <https://tinyurl.com/ighz-pers-inf-form-pdf> -pers-inf-form-pdf pdf),
7. Certificate of English language proficiency (in the absence of a certificate, English proficiency will be checked during the interview).

**Link to the rules of the competition procedure for recruitment for scientific positions at the Institute of Animal Genetics and Biotechnology of the Polish Academy of Sciences:**  
<https://tinyurl.com/rules-of-procedure-pl>

**Complete documentation should be submitted to the General Chancellery at the Institute of Animal Genetics and Biotechnology of the Polish Academy of Sciences in Jastrzębiec, 36A Postępu Street, 05-552 Magdalenka, on weekdays from 8.00 a.m. to 3.00 p.m., send by regular mail or e-mail to the following address: [application@igbzpan.pl](mailto:application@igbzpan.pl).**

**Date of competition announcement: February 1st, 2024**

**The deadline for submitting documents is February 16th, 2024.**

**Online interview - candidates will be notified individually about the interview date.**

**The Institute reserves the right to contact only candidates who meet the requirements described in the competition announcement and submit a complete set of documents listed in the Annex to the Competition Regulations when hiring for scientific positions.**



### INFORMATION OBLIGATION

1. The administrator of personal data collected in the course of the recruitment process is the Institute of Animal Genetics and 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 1230018381, REGON 000326196, address: Jastrzębiec, 36A Postępu Street, 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 Regulation (EU) 2016/679 of the European Parliament and of the Council of April 27, 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) (Journal of Laws of the European Union L of 2016 No. 119/1, from now on referred to as '**GDPR**').
3. In accordance with Articles 5, 6, 7, and 13 of the GDPR, the Controller informs that:
  - a. The personal data provided by the recruitment participant will be processed on the basis of Article 6(1)(a) of the GDPR, i.e., based on the participant's consent and based on Article 22<sup>(1)</sup> of the Labour Code of June 26, 1974 (Journal of Laws 2018.917).
  - b. In the course of the recruitment process, the following personal data are processed: name(s) and surname, image, parents' names, date of birth, place of residence (correspondence address), education, other personal data of the employee, including names and surnames and dates of birth of the employee's children, if the provision of such data is necessary due to the employee's exercise of special rights provided for in the labor law, employee's PESEL number assigned by the Government IT Centre of the Universal Electronic System of Population Registration (RCI PESEL), telephone number and e-mail address.
  - c. A person participating in the recruitment process has the right to request access to personal data, rectification, deletion, restriction of processing, objection to data processing, transfer data, and lodge a complaint with the supervisory authority.
  - d. A person participating in the recruitment process has the right to withdraw consent to data processing at any time, which does not affect the lawfulness of processing based on consent before its withdrawal.
  - e. The provision of personal data by a person participating in the recruitment process is voluntary, and failure to provide it may make it impossible to carry out this process.
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](mailto:daneosobowe@igbzpan.pl).