Director of the Institute of Plant Genetics, Polish Academy of Sciences (IPG PAS) in Poznan announces an open competition for the position of a post - doc in the Department of Integrative Plant Biology IPG PAS

The competition is open to those who meet the conditions set out in the Act of 30 April 2010 on the Polish Academy of Sciences (Journal of Laws No. 96, item 619, as amended) and the Regulations for conducting competitions for scientific positions at the Institute of Genetics Plants, Polish Academy of Sciences in Poznan.

(No of positions: 1)

INSTITUTION: **Institute of Plant Genetics, Polish Academy of Sciences**

CITY: **Poznań**

POSTION: **post - doc**

MONTHLY SALARY: gross monthly salary 8375 PLN (Apr. 1940 €).

DURATION OF EMPLOYMENT: 36 months

SCIENTIFIC DISCIPLINE: biology, agronomy, plant biotechnology

POSTED: 29.12.2020

EXPIRES: 29.01.2021

WEBSITE: http://www.igr.poznan.pl/en/announcements-en/job-en/job-offers

KEY WORDS: vascular tissue, long-distance signalling ad transport, plat-pathogen interaction, phloem, plant molecular biology

DESCRIPTION:

Place of employment: Department of Integrative Plant Biology, Institute of Plant Genetics, Polish Academy of Sciences

Supervisor: PhD Robert Malinowski (associate professor)

Goal of employment: Conducting research in the NCN OPUS17 UMO-2019/33/B/NZ9/00751 project entitled "Vascular long-distance coordination in *Plasmodiophora brassicae* infested plants". The aim of our project is to understand the role of long-distance coordination in plants infected with the biotrophic protist - *Plasmodiophora brassicae*.
The project focuses on functional studies of the phloem-mediated macromolecule transport that occurs during disease progression in Arabidopsis (*Arabidopsis thaliana* L.) and oilseed rape (*Brassica napus* L. *var. Napus*) plants.

Scope of research:

In this project, we will examine changes in the composition of phloem sap and functionally characterize the role of factors whose quantity changes significantly during the course of the disease. The first stage of the work, aimed at the identification of macromolecules, will be

carried out on oilseed rape plants. The further importance of particular factors will be investigated with help of the Arabidopsis thaliana model plant. This approach will facilitate the modification of the amount or the transport of individual factors using molecular biology techniques. Alteration in signaling or accumulation patterns of studied molecules in vascular tissue will be monitored using advanced microscopy techniques. To understand phloem ability to transport specific factors we will also describe the anatomical and structural changes in the vascular tissue. Results integration will help understanding the biological basis of the interaction between *P. brassicae* and the plant at the system level. We will also learn about important aspects of the developmental and physiological plasticity of plants in response to biotic stress.

Required qualifications:

• The key criterion is knowledge of the techniques of phloem sap collection in plants. Knowledge of issues and research techniques in the field of molecular biology and plant physiology, as well as light and fluorescence microscopy techniques will also be taken into account.
• knowledge of light and fluorescent microscopy techniques
• previous experience with issues related to long-distance coordination of biological processes in plants, including donor / acceptor relationships between different organs
• practice in working with the Arabidopsis thaliana model plant
• practice in working with the *Arabidopsis thaliana* model plant
• proficiency in combining molecular techniques, experimental approaches and structural analysis
• knowledge of the use of spreadsheet programs and the basics of statistical analysis;
• knowledge of basic bioinformatics programs;
• knowledge of tools for computer analysis of anatomical changes in plants
• knowledge of working with *Plasmodiophora brassicae* or other biotrophic pathogens
• fluency in the English language;
• willingness and ability to work both individually and as a team member

Duties: Conducting research. The involvement in data analysis, results dissemination and publication. Participation in coordinating the work of PhD students employed in this project. Participation in meetings related to the project.

Criteria of candidates' assessments to be employed at scientific positions at the IPG PAS:

1. Matching the candidate's experience and skills to the planned field of study.
   (Key criterion is the previous experience with phloem sap collection)
2. Creativity measured:
   a) scientific and organizational activity;
   b) the quality and number of publications in which the candidate is the first author or corresponding author, as well as the number of citations of the candidate's papers (Web of Science) and the Hirsch index;
   c) number of patents/patent applications and/or implementations (if applicable);
   d) participation and managing of research projects and development works.

3. Mobility in their scientific career, including completed scientific internships, change of scientific profile, internships and work in industry.

Documents required

1. Application for the employment to the Director of the Institute.
2. CV in Polish or English.
3. Self-description (1 page A4) containing concise information about scientific interests, previous achievements and own research plans.
4. Scan or photocopy of the university diploma .
5. Scan or photocopy of the doctoral degree diploma (if applicable).
6. List of publications with marked 5 most important ones from the last 5 years of the scientific career (after deducting career breaks), patent applications, patents, applications, research projects (if applicable).
7. Information about citations (total and without self-citations, Web of Science) and Hirsch index (if applicable).
8. Information about career break (if applicable).
9. List of research projects (including data: title, institution awarding, participating institutions, PI, period of realisation, others), in which the candidate was the PI or contractor together with the measurable results of the project (publications, applications, patents, patent applications) (if applicable).
10. Information about research stay in a national or foreign institution or planned this type of activity.
11. Names of two persons who may provide references. Please provide their positions and contact data, including e-mail address.
12. Candidate's statement about getting acquainted with the Regulations for conducting competitions for scientific positions at the IPG PAS.

Documents in the electronic form (in 1 pdf file) must be sent by e-mail to: **putting in the title: "post- doc UMO-2019/33/B/NZ9/00751"**
For additional information please contact: PhD Robert Malinowski (associate professor), phone number: +48 (61) 65 50 243

Announcement of the results: Within <u>one month</u> from the deadline for applications.

Stages of the recruitment procedure:

- deadline for applications - 29.01.2020
- selection of best candidates by the Competition Commission appointed by the Director
- interview and assessment of the selected candidates by the Competition Commission
- decision of the Director

Candidates with negative opinions from the Commission have the right to appeal against the results of the assessment. This appeal submitted to the Director of the Institute within 7 days from the date of receipt of the information. The decision of the Director of the Institute on this appeal is final.

Note: each of the submitted candidates will receive individual information about the results of the competition in relation to their person. Information on the winner of the competition will be provided on the Institute's website.

Apostille clause and nostrification of diplomas

We would like to inform that foreign diplomas entitle to continue education in Poland on the principles set out in international agreements, and in the absence of such agreements - on the basis of relevant national provisions, by way of nostrification. Therefore foreigners and Polish citizens who have obtained a professional title or a degree abroad to check whether their diploma confirms having higher education at a given level in Poland and whether it entitles them to apply for the admission to doctoral studies / third degree or to opening doctoral thesis procedure.
Information in writing about the diploma obtained abroad, in particular about the level of education and the status of the university, at the request of the person concerned, is provided by the Director of the National Academic Exchange Agency. Information is provided on the basis of documents submitted by the applicant. Detailed information can be found at: https://nawa.gov.pl/uznawalnosc/informacje-dla-uczelni/nostryfikacja-dyplomow

ATTENTION: at the stage of the recruitment process, there is no requirement to present documents certified by the apostille clause nor the requirement of nostrification of diplomas. These requirements must be met if the candidate is accepted.

Information clause:

In accordance with the content of Article 13 of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/WE (hereafter referred to as 'GDPR'), we inform you that:

- The administrator of the collected personal data is the Institute of Plant Genetics of the Polish Academy of Sciences (hereinafter referred to as IGR PAN), Strzeszyńska 34, 60-479 Poznań, Regon: 000326204, NIP: 7811621455.
- Contact with the Inspector of Personal Data Protection of the Institute of Plant Genetics of the Polish Academy of Sciences in Poznań is possible by e-mail: iodo@igr.poznan.pl,
- Personal data is processed for the purpose of the Administrator's tasks related to the recruitment for the vacant position.
- Personal data is processed in case of candidacy for a specific position on the basis of art. 6 paragraph 1 point c of GDPR in connection with art. 221 - 221b of the Labour Code. The legal basis for the processing of data in case of possible claims is the realization of legally justified interests of the administrator, i.e. Art. 6 paragraph 1 point f) GDPR.

- Your data collected in the current recruitment process will be kept for one year from the date of completing the recruitment process in case of any claims. After this period your personal data will be effectively destroyed, which will result in no access or possibility of reconstruction.
- In case of selection of a given candidate - personal data of the candidate will be transferred to the administration of IGR PAN in order to establish an employment relationship. Personal data of the candidate who won the recruitment will then be processed for the purpose: To perform the contract to which the selected candidate is a party, as well as to take action on behalf of the selected candidate prior to the conclusion of the contract (in accordance with Art. 6 paragraph 1 point b of GDPR).
- With regard to the personal data collected, IGR PAN will not make decisions by automated means.
- Your personal data will not be transferred to a third country.
- The candidate whose data is processed is entitled:

  - the right to access the content of their personal data, to request their rectification, restriction of processing or deletion;
  - the right to object to the processing of his or her data;
  - to file a complaint with the President of the Office for Personal Data Protection.