



INSTITUTE OF DENDROLOGY OF THE POLISH ACADEMY OF SCIENCES

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**Director of the Institute of Dendrology, Polish Academy of Sciences,
invites applications for the position of Post-doc
at the Laboratory of Proteomics**

I. REQUIREMENTS

1. Doctoral degree in the field of biological or closely related sciences*
2. Knowledge about plant physiology, biochemistry, and molecular biology
3. Broad experience in application of molecular biology techniques (RNA, DNA and protein analyses), an additional advantage will be an expertise in bioinformatics including RNAseq data analysis
4. Scientific output including publications indexed by Clarivate Analytics
5. Proficiency in English (speaking and writing)
6. An additional advantage will be an internship abroad or an internship in a research unit in Poland;
7. Readiness to participate in scientific expeditions and training
8. High motivation for further development and ability to work in a team
9. Very good work organization

II. POSSIBILITIES

1. Salary around 120,000 PLN (about 27 875 EUR) annually
2. Possibility to cooperate with research centers in Poland
3. Unlimited scientific development

* According to the criteria of the National Science Centre (Kraków, Poland), the candidates can be accepted only if they were awarded the PhD degree up to 7 years before employment in the project. This period excludes intervals due to maternity leave, adoption leave, paternity leave, parental leave, or parental care leave, granted according to the principles set out in the Labor Code, or else associated with receiving sickness benefits or disability benefits because of temporary inability to work, including those caused by a disease requiring therapeutic rehabilitation. In the case of women, the above-mentioned 7-year period can be extended with 18 months for each born or adopted child. Women can choose more favorable ways to document the intervals in their scientific career.

III. PROJECT DESCRIPTION

The recruitment for 36 months concerns OPUS 17 project no. 2019/33/B/NZ9/02660, entitled “Regulation of European beech dormancy and germination mechanisms in variable environments.”, supported by the National Science Centre.

Principal Investigator: Dr hab. Tomasz Pawłowski, ID PAS Professor

Key words: adaptation, dormancy, environment, epigenetics, gene expression, posttranslational modification, proteomics, transcriptomics

Project topics: Global climate change alters environmental conditions, and thus affects reproduction of plants from seeds. Environmental factors such as temperature, light intensity and water availability are key factors controlling seed germination. European beech grows in a wide range of environments and has developed a variety of adaptive mechanisms. One of the most important mechanisms is deep physiological dormancy of seeds, ensuring seed survival through the winter. Changes occurring in the environmental conditions are becoming a threat to adapted local populations and the reproductive success of trees. The aim of this study is to determine the relationships between the germination parameters of beech seeds and different environmental conditions, and to identify the molecular mechanisms responsible for such adaptations. In this project, we plan to combine several levels of research: 1. Analysis of European beech diversity in Poland in terms of the depth of seed dormancy and germination. Germination tests will allow relating seed dormancy and germination to environmental conditions. 2. Analysis of the differences in gene expression among populations differing in depths of seed dormancy. We plan to investigate the differences among seed lots of different origins through the analysis of gene expression at the level of the transcriptome and proteome, especially focusing on proteins undergoing post-translational modification to regulate their activity. 3. Analysis of chromatin structure and histones modification on the promotor region of genes involved in beech seed dormancy depth regulation. The successful completion of this research task allows us to indicate epigenetic mechanisms that could be involved in regulation of beech seed dormancy and germination processes. It is expected that the data obtained in the project will allow the evaluation of the potential of this species to survive the environmental changes, and the recognition of the factors regulating the adaptation of individual populations of trees under the conditions of global warming.

Tasks for the Post-doc: The selected candidate will be involved in the following tasks in the project: identification of transcriptome changes using RNAseq and qPCR techniques; identification of post-translational modified proteins as a result of acetylation, ubiquitination and phosphorylation using techniques of proteomics.

IV. CONDITIONS OF EMPLOYMENT

Full-time employment contract.



Employment period: 36 months.

V. LIST OF REQUIRED DOCUMENTS

1. Application for employment, addressed to the Director of the Institute of Dendrology, Polish Academy of Sciences;
2. Personal data questionnaire valid at the Institute;
3. Tertiary education diploma or its confirmed copy;
4. Description of previous scientific, teaching, and organizational activity of the job applicant, with documentation confirming his/her achievements.

The documents should be submitted till 26.06.2020 to the Department of Scientific Information, Institute of Dendrology, Polish Academy of Sciences (address: Parkowa 5, 62-035 Kórnik, Poland) or by e-mail to the address: lukowiak@man.poznan.pl with a note: application for the position of **Post-doc** at the Laboratory of Proteomics

Recruitment

The selection will take place in 2 stages:

1. First stage: the committee will evaluate the submitted documents. On this basis, a group of candidates will be selected to participate in the second stage of recruitment.
2. Second stage: interviews with the recruitment committee. The selected candidates will be informed by e-mail about the date and time of the interview.

The final decision will be published till 31.07.2020

The Institute of Dendrology, Polish Academy of Sciences, does not provide any flat for the candidate.

We encourage the candidates to contact the Principal Investigator, who can provide additional details:

Dr hab. Tomasz Pawłowski, ID PAS Professor, e-mail. tapawlow@man.poznan.pl, phone: +48 61 8170033

Kórnik, 08.05.2020

Job applicants who are interested in starting to work at the Institute of Dendrology, Polish Academy of Sciences, Kórnik, are asked to submit also the following statement:

“I hereby declare that I agree to processing of my personal data during the process of recruitment for the position of, conducted by the Institute of Dendrology, Polish Academy of Sciences, Kórnik (62-035, ul. Parkowa 5) aimed at concluding a contract of employment.”

In compliance with article 13 of the General Data Protection Regulation (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 the Directive 95/46/EC (general directive on data protection), hereafter referred to also as “GDPR”, the Institute of Dendrology, Polish Academy of Sciences, informs that:

The personal data included in the job application (and the documents attached to it) will be administered by the Institute of Dendrology, Polish Academy of Sciences, address: 62-035 Kórnik, Parkowa 5 (hereafter referred to also as “Administrator”).



The Administrator can be contacted via an e-mail message sent to lukowiak@man.poznan.pl or a letter sent to the address: Institute of Dendrology, Polish Academy of Sciences, 62-035 Kórnik, Parkowa 5, marked as "Dane osobowe" (= "Personal data").

Your personal data will be processed by the Administrator to conduct the process of recruitment for the position indicated in the recruitment announcement.

The legal basis for personal data processing is the consent (article 6, paragraph 1(a) of GDPR). At any time you have a right to withdraw consent, with no effect on the compliance with the right to process, which was implemented on the basis of the consent before its withdrawal. If the consent is withdrawn, the data covered by the consent, processed on its basis, will be removed immediately.

The consent can be withdrawn via an e-mail message sent to lukowiak@man.poznan.pl or a letter sent to the address: Institute of Dendrology, Polish Academy of Sciences, 62-035 Kórnik, Parkowa 5, marked as "Dane osobowe" (= "Personal data").

The personal data will be processed until the end of the recruitment process and will be removed within 3 months after the end of the recruitment.

The predicted categories of recipients of the data are: providers of job announcement publication services, providers of systems for recruitment management, providers of IT services, such as providers of information systems.

DYREKTOR
INSTYTUTU DENDROLOGII
POLSKIEJ AKADEMII NAUK

dr hab. Andrzej M. Jęgodziński, prof. UoP PAN