

- - - IF YOU ARE GRADUATING THIS YEAR, THIS OFFER IS FOR YOU! - - -

Recruitment for the Preludium BIS 3 NCN project entitled "Immunomodulatory properties of a pre-fermented whey drink enriched with chokeberry juice and colostrum" led by prof. dr hab. Barbara Wroblewska at the Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences in Olsztyn, Poland.

The PhD Student will carry out a tasks aimed at examining the effects of bioactive whey and colostrum proteins and chokeberry juice polyphenols, The first stage of the project will include determining the proportions/quantitative selection of raw materials in the mixture and determining the optimal conditions for pre-fermentation. In the next stages, simulated gastrointestinal digestion of individual components and their pre-fermented mixture will be carried out, as well as an analysis of the biological activity of the obtained hydrolysates using a model of human intestinal epithelial cells (Caco-2, cancer cells and HIEC-6, healthy cells). Epithelial cells will be cultured under standard conditions and in a state of induced inflammatory reaction (in the presence of bacterial lipopolysaccharide, LPS). The determined parameters of the immune response of epithelial cells (cell proliferation, the level of markers of the immune reaction: expression of cytokines and the level of interleukins of the pro- and anti-inflammatory pathway) will allow to unambiguously determine the immunoregulatory potential of the components and their pre-fermented mixture.

The implementation of the project will include: ongoing analysis of scientific literature, planning and performing experiments as well as laboratory and statistical analyses, interpretation of the results obtained, drawing conclusions, as well as preparing and presenting research results at scientific conferences, as well as writing scientific publications on the conducted research. Participation in the project will end with the defense of a doctoral thesis at the Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences.

Deadline for submission of documents:

- 3 July 2023 15:00

How to apply:

- Send documentation (see Eligibility Criteria) to: a.andronowska@pan.olsztyn.pl.
- In the subject line of the email, please write: "PhD - application" or "PhD application".

Start date:

- Start date is 1 October 2023 (start of the academic year at the Interdisciplinary Doctoral School run by IRZiBŻ PAN).

Requirements for the candidate:

- University degree (completed second degree or defence scheduled for 2023) in agricultural sciences in the discipline of food and nutrition technology or biological sciences (biotechnology, biology) or related;

- Knowledge of food technology and/or cell biology;
- Good knowledge of spoken and written English;
- Practical analytical skills in microbiological testing (conducting lactic fermentation, microscopy of bacteria), conducting in vitro digestion and cell culture, knowledge of molecular biology techniques (e.g. RT-PCR, qPCR, Western blot, flow cytometry) and conducting statistical analyses.
- Ability to write scientific and/or popular science papers and present results;
- Availability, motivation for scientific work, good work organisation, ability to work in a team;
- Highly regarded scientific enthusiasm!

Additional strengths will be:

- Knowledge of in silico analysis;
- Knowledge of bioinformatics.

IF YOU DO NOT YET HAVE A MASTER'S DEGREE BUT ARE SCHEDULED TO DEFEND IT IN 2023, YOU CAN APPLY

Conditions for completing the dissertation:

- Maximum grant period: 48 months;
- Location of the PhD thesis: Department of Food Immunology and Microbiology, Institute of Animal Reproduction and Food Research, Polish Academy of Sciences in Olsztyn, 10 Tuwima Street, 10-748 Olsztyn;
- Amount of doctoral scholarship: 4,276 PLN gross (~3,800 PLN net); monthly, after two years, following a positive mid-term evaluation, increase of the scholarship amount to 5,131 PLN gross (~4,553 PLN net), according to the rules of the NCN Preludium Bis3 competition;
- The selected candidate must be a participant of the Interdisciplinary Doctoral School in Agricultural Sciences co-run by IRZBŻ PAN in Olsztyn. The recruitment schedule and rules are available on the IRZiBŻ PAN Recruitment 2023 page ;
- Implementation of a six-month research internship in a foreign research centre;
- The Institute offers assistance in the assimilation / relocation process (search for accommodation, administrative assistance, etc.).

Documents required from candidates necessary to apply for admission to the Doctoral School:

- (a) an application for admission to the Doctoral School, together with a justification and indication of the framework research topic specified in the recruitment announcement, according to the model specified in Appendix 2 to the recruitment rules;
- b) consent to the processing of personal data for recruitment purposes according to the model specified in Appendix 3 to the recruitment rules;
- c) a curriculum vitae (CV) listing scientific achievements, employment history and participation in research projects;
- d) a personal questionnaire (personal questionnaire);
- e) three identity photographs + one electronic photograph;
- f) a higher education diploma (or a certificate from the university on the date set for the defence of the master's thesis);
- g) information about the course of studies with the average marks (a photocopy of the student record book /diploma supplement with relevant entries);
- h) an abstract of the Master's thesis in Polish or English; and the original of the Master's thesis for inspection by the Recruitment Committee during the interview;
- i) an opinion of the supervisor (e.g. the thesis supervisor) or an opinion of the employer;
- j) a certificate or diploma documenting knowledge of English at least at B2 level; the list of certificates is specified in Appendix No. 8 to the Recruitment Rules;
- k) a statement of previous doctoral studies or doctoral thesis commenced, education at a doctoral school; and information about the doctoral scholarship received at the doctoral school and the period of its receipt. Candidates may attach other documents they consider relevant to the admission process.

2. consent to the processing of personal data: in your CV or email, please include a consent clause allowing us to process your personal data in the recruitment process: "I consent to the processing of my personal data contained in my application documents by the Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences in Olsztyn, with its registered office in 10-748 Olsztyn, 10 Tuwima St., for the purpose of the recruitment process (in accordance with Article 6(1)(a) of Regulation (EU) 2016/679 of the European Parliament and of the Council 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)".

Selection process:

1. selected male and female candidates will be invited to an initial online interview where they will have the opportunity to present their past achievements and accomplishments;

2. the highest ranked candidates will be invited to a proper interview (online as well as in person), based on a 10-minute presentation on the candidate's idea of his/her role in the project during the recruitment to the Interdisciplinary Doctoral School at the Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences in Olsztyn (admission to the doctoral school is a precondition for receiving the scholarship);

3. the results of the recruitment will be announced at the latest 2 weeks after the interview, by e-mail. The list of accepted candidates to the Interdisciplinary Doctoral School will be announced on its website.

Note: Candidates have the right to lodge a complaint about the recruitment process (at any stage) within 14 days of the announcement of the final results. Complaints (with reasons) should be addressed to the Head of Human Resources and Payroll (j.papuryńska@pan.olsztyn.pl). The Head of Human Resources and Payroll is required to respond to the complaint within 14 days of receiving the complaint.