



[11/2020/IGC/PSD] Announcement concerning recruitment to the Poznań Doctoral School of the Institutes of the Polish Academy of Sciences (PDS IPAS) as part of a research project

The Director of the Institute of Human Genetics, Polish Academy of Sciences (IHG PAS), and leader of the current research project, **dr Katarzyna Iżykowska** gives notice of an open competition to be held for the position of **PhD student-scholarship holder at the Poznań Doctoral School of Institutes PAS, Department of Molecular Pathology IHG PAS**
Number of vacancies: 1

I. General information

1. Department in which candidate would work: **Department of Molecular Pathology IHG PAS**
2. Discipline: **Medical Science**
3. Planned remuneration: scholarship to the value of **3 700 PLN net/ per month**
4. Deadline for submission of documents: **31.08.2020**;
5. Date of announcement: 29.06.2020;
6. The proposed study will be carried out within the **SONATA 15 project (2019/35/D/NZ5/00407)**; **PI – dr Katarzyna Iżykowska**; project title: **“The role of class II histone deacetylases: HDAC9 and HDAC10 in Sézary syndrome”**.

Concise description of research: The aim of this project is to investigate the significance of HDAC9 and HDAC10 in Sézary syndrome. Sézary syndrome belongs to T-cell cutaneous lymphomas, with still little known etiology, difficult diagnostics and lack of effective treatment. Histone deacetylases are encoded by a group of genes called HDACs, and are involved in epigenetic regulation of gene expression. In the project, effects of chosen HDACs on crucial biological processes like apoptosis, cell cycle, cell proliferation and autophagy will be studied. Moreover, with RNAseq technology global gene expression and cellular pathways affected by those HDACs will be analyzed. Using ChIP-Seq technology binding sites for HDAC9 and HDAC10 in the genome will be mapped and, with co-immunoprecipitation (Co-IP) and mass spectrometry, proteins that are bound to HDACs will be identified. Results will contribute not only to a better understanding of the pathogenesis of Sézary syndrome and perhaps to the improvement of therapy, but also will increase the general knowledge of these histone deacetylase and their mode of action.

Methodology: cell culture, lentiviral transduction, CRISPR-Cas9, immunofluorescence, flow cytometry, RNAseq, Chip-Seq, Co-IP, mass spectrometry

Keywords: Sézary syndrome, histone deacetylases, HDAC9, HDAC10, epigenetic regulation of gene expression, functional studies, next generation sequencing, proteomics.

Predicted tasks in the project:

- active participation in the realization of project goals.
- supervision of Master's students.
- participation in writing scientific papers; presenting results at seminars and conferences.

Opportunities

- work in the multidisciplinary research team;
- research training (courses);
- participation in conferences

II. Requirements for candidates

1. Master's degree in molecular biology, biotechnology, genetics, medicine or related field.
2. Background in molecular biology.
3. Experience in RNA, DNA, cell culture and molecular biology techniques.
4. Very good written and oral communication skills in English.
5. Motivation and enthusiasm about working in the field of science
6. Good collaborative and team work skills.

III. Required documents

1. CV, including research achievements.
2. Cover letter.
3. A copy of the diploma confirming completion of a Master's Studies Programme, or a certificate of their completion (in the case of diplomas issued by foreign institutions, the diploma referred to in article 326 para.2 point 2 or article 327 para. 2 of the Act of 20 July 2018 – Law on Higher Education and Science (Journal of Laws of 2018, item 1668 as amended), giving the right to apply for a doctoral degree in the country in which the University of Higher Education issuing the diploma operates. If the candidate does not have the above-mentioned documents, s/he is obliged to provide them before being admitted to Poznań Doctoral School IPAS. More information about foreign diplomas is available at: <https://nawa.gov.pl/uznawalnosc/kontynuacja-nauki-w-polsce/studia-doktoranckie-i-otwieranie-przewodow-doktorskich>.
4. Contact details of at least one current supervisor or other researcher who has previously agreed to issue an opinion about the candidate. The opinion should not be included in the application.
5. Consent for the processing of candidate's personal data for the purposes of the recruitment process: http://bip.igcz.poznan.pl/wp-content/uploads/2018/10/Zgoda-rekrutacja-Consent_for_the_processing.pdf
6. Application for admission to the Poznań Doctoral School IPAS, together with a consent to the processing of personal data for the purposes of the recruitment procedure plus a statement on his/her familiarity with recruitment regulations for the Poznań Doctoral School (Application is available on: <http://igcz.poznan.pl/en/phd-studies/poznan-doctoral-school-of-institutes-of-pas/recruitment-regulations-for-psd-ipan/>)
7. Certificates or other documents indicating level of English language proficiency, if the candidate possesses any.

IV. Criteria for the evaluation of candidates

1. Candidate's scientific and professional experience based on his/her participation in conferences, workshops, training courses and internships; participation in research and commercial projects; involvement in scientific societies and associations; international and professional mobility; experience in other sectors, including industry
2. Background in molecular biology
3. Candidate's scientific achievements, based on study grades, scientific and popular science publications, scholarships; prizes and awards resulting from research carried out; student activity or other achievements
4. Communication skills in English.

V. Announcement of results

Up to 30 days after the deadline of documents submission. Selected candidates will be invited for interview.

VI. Additional conditions

1. Period of involvement in research project: **1.10.2020 – 31.09.2023**
2. A condition of involvement in the project is participation in the International Doctoral School at IGC PAN (after passing the recruitment procedure). Details of the studies are available on <http://igcz.poznan.pl/en/scientific-activity/phd-studies>). Fulfillment of requirements as set out in the Regulations for Granting Scholarships in Research Grants Financed by the National Research

Center are available on (https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2019/uchwala25_2019-zal1_ang.pdf).

VII. Additional information

Address to which documents should be submitted, in person or by registered mail: Institute of Human Genetics PAS, ul. Strzeszyńska 32, 60-479 Poznań with postscript [11/2020/IGC/PSD] or by e-mail to the Secretary for Scientific Purposes, phdstudies@igcz.poznan.pl. In the title please include the number of the announcement: [11/2020/IGC/PSD]

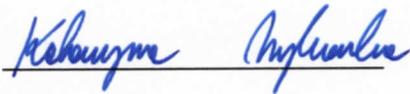
Additional information is available from: (katarzyna.izykowska@igcz.poznan.pl). The Secretary for Scientific purposes: phdstudies@igcz.poznan.pl, tel. 61 657 91 42

Incomplete applications will not be considered.

Once the recruitment process is finished, unsuccessful candidates will be informed about the scores they have obtained at each step of evaluation.

Refusal of admission to PDS IPAS takes place by way of an administrative decision. The candidate is entitled to submit a request for reconsideration of the decision to the director of the institute concerned.

Project Leader



Z-ca DYREKTORA
Instytutu Genetyki Człowieka PAN



Prof. dr hab. n. med. Eustachy Słomski