

ENG

Title of the project:

„Research on epigenetic memory mechanisms based on the example of the response of human immune cells to vitamin D”

Competition: OPUS 25

PI: prof. Carsten Carlberg

DESCRIPTION OF THE POSITION:

The scholarship holder selected under this competition will participate in research tasks carried out as part of the OPUS NCN project entitled **“Research on epigenetic memory mechanisms based on the example of the response of human immune cells to vitamin D”** led by prof. Carsten Carlberg. The most relevant duties could be described as:

- Isolation of human immune cells from blood donors for direct use and cell culture
- Library preparation of RNA and chromatin samples using methods like RNA-seq, ATAC-seq and ChIPmentation,
- Analysis and integration of next-generation sequencing data obtained from these assay,

Proposed PhD thesis title:

1. The role of the vitamin D receptor in epigenetic memory

REQUIREMENTS:

- Master Degree (MSc) in Biosciences (Biology/ Biochemistry/ Biotechnology);
- Experience in molecular biology;
- Experience with analysis of high-throughput ‘omics data;
- Scientific achievements, including publications in renowned scientific journals;
- Achievements resulting from:
 - conducting scientific research,
 - scholarships,
 - awards, workshops and scientific training,
 - participation in research projects.
- Precise pipetting;
- Proficiency in carrying out methods like:
 - PCR,
 - RNA isolation,
 - cell culture.

ADDITIONAL SKILLS:

- High motivation to work in a multidisciplinary team;
- Excellent communication skills for effective interaction with the multidisciplinary cohort of researchers;



- Proactive, motivated, showing initiative;
- Good work organization;
- Fluency in English in writing and speaking;
- Good writing and presentation skills;

RECRUITMENT PROCESS:

- Applications will be assessed in accordance with the criteria set out in the regulations for awarding research scholarships in research projects financed by the National Science;
- Only on-line applications will be considered;
- Candidates evaluated with the highest score will be invited to an actual interview, which will take place face-to-face or online;
- During the interview, the candidate will be asked to deliver a 10-minute speech. presenting his/her Master thesis and research interests;
- Final results of the recruitment will be published on IAR&FR PAS webpage within 10 days after final decision.

IMPORTANT INFORMATION:

- Application deadline: **Jun 23rd, 2024, 23:59 (Eastern European Time);**
- Application method: **application form**
- Interviews: **24.06-5.07.2024**
- Location: **Olsztyn, Poland;**
- Duration of the scholarship: **48 months;**
- Date of position opening: **Octoberst, 2024;**
- Number of positions: **1.**

APPLICATION FORM:

<https://pan.olsztyn.pl/interdisciplinary-doctoral-school-of-agricultural-sciences/2024-25-academic-year-recruitment/>