

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: June 30th, 2025, 23:59 (Eastern European Time)**
- **Application method: application form**
- **Interviews: July 1-11, 2025 (via Zoom)**
- **Location: Olsztyn, Poland**
- **Duration of the scholarship: 48 months**
- **Date of position opening: October 1st, 2025**
- **Number of positions: 1**

***Application form:***

**APPLY NOW**