



**Two internship positions in computational biology** available from June 2021 in the project founded by the National Science Centre entitled *Analysis of selected processes influencing the architecture of fungal genomes and proteomes* led by Anna Muszewska.

The main idea of the project is to explore how lifestyle and genome characteristics correlate with the abundance of horizontally transferred genes, metabolic clusters and transposons. We have predicted transposons, gene clusters and horizontally transferred genes for dozens of fungal genomes. The internship aims to explore the neighborhood of these genes using NCBI *edirect* tools. The obtained dataset spanning multiple features for each organism will be analysed with statistical tests. The project's outcome might shed new light on how we understand the relationship between an organism's lifestyle and genome organisation.

### Requirements

The successful applicant should

- have bioinformatic skills
  - be familiar with NCBI tools (*edirect* / *efetch*)
  - have knowledge of databases (PFAM, KEGG)
  - be ready to use predictors of protein properties (localization, TM, secretion, disordered, low complexity)
- be enthusiastic about nature, ecology, evolution and problem solving
- be well organized, eager to learn and ready to assimilate literature

**Our offer:** 5000 PLN brutto (umowa zlecenie) for a two months internship

### The application must include

- Curriculum vitae,
- Motivation letter,
- At least one recommendation letter and contact details of the referee/s,
- A list of publications and/or communications (if applicable).

Applications with an "*internship applicant - NCN*" tag are welcome at [ania.muszewska@gmail.com](mailto:ania.muszewska@gmail.com), until 15th of May.

Selected applicants will be invited for an interview and asked to present their work.

All applications must contain the following statement to allow us to process your data: "I hereby give consent for my personal data included in the job offer to be processed for the purposed recruitment under the Data Protection Act 1997 (Dz. U. 2002 no. 101, item 926 with subs. changes)."