



Institute of Biochemistry and Biophysics PAS
Laboratory of Transcription Mechanisms
is opening a call for a position of
postdoctoral researcher (wet lab and/or bioinformatics)

The laboratory headed by Dr. Tomasz Turowski is looking for a **postdoctoral researcher**. You will join the project entitled “**Functional framework for viral RNA-dependent RNA polymerase, a major target in COVID19 treatment**” funded by the Polish National Agency for Academic Exchange grant PPN/PPO/2020/2/00004.

Our laboratory is interested in how the mechanisms of transcription affects gene regulation and our goal is to apply this knowledge to increase our understanding of SARS-CoV-2 transcription to study viral adaptation and the mechanism of drug inhibition. For details visit <https://turowskilab.github.io/>

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is a positive strand RNA virus, in which the infecting RNA serves both as mRNA and genome. An RNA-dependent RNA polymerase (RdRP) both transcribes the genes and replicates the genome, making RdRP a major target in COVID19 therapy. Nucleotide analogues, including the drugs remdesivir and sofosbuvir, inhibit RNA synthesis by RdRP, but therapy could be enhanced by better understanding of key features of RdRP function.

To define key elements in SARS-CoV-2 transcription regulation, we will apply the combination of approaches developed in the Lab: *in vivo* biology, biochemistry and bioinformatics. We aim to map RdRP in non-pathogenic coronaviruses and validate our findings using *in vitro* methods. Our experiments will be followed by bioinformatics analysis. We aim to identify sequences and mechanisms important for SARS-CoV-2 transcription that can be used as targets in the therapies.

Job description:

The successful applicant will be responsible for executing research in the project which may involve both, wet experiments and/or bioinformatics. Wet lab experiments will involve experiments with non-pathogenic coronaviruses and *in vitro* biochemistry with recombinant proteins of SARS-CoV-2 RdRP. For wet lab researcher training in bioinformatics can be provided. Bioinformatics will involve analysis of high-throughput sequencing data and analysis of sequence features of known coronaviruses.

Requirements for the candidate:

- Passion for science and ability to work independently under appropriate supervision.
- PhD in biology/biotechnology/bioinformatics or related. There is no limit of years after PhD.
- Very good communication skills.
- Hands-on experience: wet lab or bioinformatics.
- Proficiency in spoken and written English.
- Solid knowledge in molecular and cell biology.
- Optional: previous experience in RNA biology or virology, knowledge of shell command line tools and one of the following languages: python, R, Matlab.



We offer:

- Full-time employment for 24 months with gross salary of 10 000 PLN/month plus 13th salary once a year. NAWA funding allows additional salaries from NCN funds.
- The position with 100% focus on research (no teaching obligations).
- Training opportunities.
- Good work-life balance culture.

The deadline for applications is **November 30th, 2022**, early applications strongly encouraged.

Informal inquiries:

Informal inquiries are very welcome. Please send an email to tomasz.turowski@ibb.waw.pl including any questions, brief description of your motivation and other relevant information (i.e. CV, Google Scholar link).

Apply now to tomasz.turowski@ibb.waw.pl

- In the subject include "**PostDoc NAWA**" and your first and last name
- Your application must be submitted in English and should contain:
 - Cover letter (up to 1 page), briefly describing your background, interests and answer why you want to join us specifically.
 - Scientific CV including publication, achievements and used methodology (up to 5 pages).
 - Contact details to at least 2 potential referees, including your PhD supervisor.
 - All documents should be merged in a single pdf file.
- **Please include the following statement in your application:** I hereby give my consent for the processing of my personal data by the Institute of Biochemistry and Biophysics PAS with its seat in Warsaw Pawińskiego 5a, 02-106 hereinafter referred to as the Institute for the purpose of the recruitment process and for future recruitment processes conducted by the Institute under Art. 23 ust 1 pkt 1 of the Personal Data Protection Act dated on 29 August 1997, consolidated text: Journal of Laws 2016, item 922 with further amendments and under Art. 6 ust.1 lit. 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 GDPR (Dz. U. UE. L. z 2016 r. Nr 119)"

Selected candidates will be invited for an interview (possible on-line).

Applications submitted after the deadline will be still considered if the position is not filled.