



## How to apply:

### Institute of Biochemistry and Biophysics PAS, Genetic Department is opening a call for a position of a **postdoctoral researcher**

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 how the biophysics 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 drugs inhibition.

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 our previous studies: in vivo biology, biochemistry, bioinformatics and mathematical modelling. We aim to map RdRP and validate our findings using in vitro methods and compared with phylogenetic analysis. The data will be integrated into a mathematical model of SARS-CoV-2 transcription. We aim to identify sequences and mechanisms important for SARS-CoV-2 transcription than can be used as a targets in the therapies.

#### **Job description:**

The successful applicant will be responsible for bioinformatics and computational tasks during the project. In addition to, the project may allow wet experiments. Ideal candidate should be able to develop analytical pipelines, algorithms and mathematical models.

#### **Requirements for the candidate:**

- PhD in biology/bioinformatics or mathematics/physics/computer science combined with deep interest in biology-related problems.
- Hands-on experience in data analysis and relevant statistics.
- Very good knowledge of shell command line tools and one of the following languages: python, R, Matlab.
- Passion for science and ability to work independently under appropriate supervision.
- Proficiency in spoken and written English.
- Solid knowledge in molecular and cell biology (desirable).
- Previous experience in RNA biology or transcription will be of advantage but is not mandatory.

#### **We offer:**

- Full-time employment contract for 4 years in the amount of 6 000 PLN/month (netto) plus 13<sup>th</sup> salary once a year.
- The position with 100% focus on research (no teaching obligations).
- Training opportunities.
- Good work-life balance culture.

The deadline for applications is **June 30<sup>st</sup>, 2020**. The job starting date is **August 1<sup>st</sup>, 2020**.



# Institute of Biochemistry and Biophysics

## Polish Academy of Sciences

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### How to apply:

**Apply now** to [tomasz.turowski@ibb.waw.pl](mailto:tomasz.turowski@ibb.waw.pl)

- In the subject include "**PostDoc**" and your first and last name
- Your application must be submitted in English and should contain:
  - Cover letter (briefly describing background, interests and motivation, up to 1 page).
  - Scientific CV including achievements and used methodology (up to 5 pages).
  - Contact details to 2 potential referees, including one of 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.