



**Institute of Biochemistry and Biophysics Polish Academy of Sciences
offers PostDoc position in the project "*Thermodynamics of halogen bonding in the bio-molecular cages*"
founded by the Polish National Science Centre**

The main objective of the project is to determine experimentally the thermodynamic contribution of a halogen bond to the change of the free energy associated with formation a complex between a small-mass ligand and a bio-molecule. Compounds selected on the basis of preliminary screening tests carried out by means of optical methods for a large series of potential ligands, will be further subjected to detailed thermodynamic measurements for their interaction with the target protein. These thermodynamic data, supported additionally with structural data (crystallography, analysis of structures available in the PDB database and molecular modeling), should enable the description of the thermodynamics contribution of a halogen bond.

Project manager: prof. Jaroslaw Poznański (jarek@ibb.waw.pl)

Employment: 33 months. Position open from 1 April 2018. Salary in accordance with the recommendation of the NCN

Requirements: Post-Doc will be responsible for chemical synthesis of a large series of variously halogenated heterocyclic compounds, preferably organized in small libraries capable for the screening for ligands strongly interacting with the reference protein. Will be also responsible for the care and guidance of the young scientific staff including M.Sc. and/or Ph.D. students. Finally, will be obliged to prepare the obtained results for publication. Should hold **PhD diploma in chemistry** and have a documented experience in multistep organic synthesis, including physicochemical characterization of organic compounds (NMR, IR, MS) as well as an expertise in the purification and isolation methods applied to organic compounds. Experience in biophysical methods (MST, ITC, crystallography) or chemical data-bases (Scifinder, Reaxys) will be appreciated.

Candidates are requested to submit the following documents jarek@ibb.waw.pl:

- a copy of the diploma;
- reviews of the PhD thesis (thesis also welcomed);
- *curriculum vitae* (marked "I agree to the processing of my personal data included in the offer for the recruitment process in accordance with the Data Protection Act of 29.08.1997., Dz. U. No. 101, item. 926, as amended.");
- Cover Letter;
- a letter of recommendation from supervisor of PhD thesis and/or academic tutor for persons with subsequent research experience;
- a list of published papers and conference announcements.

The selection of the candidate will take place in two stages.

1. The Admissions Committee (consisting of 2 researchers from IBB PAS and Project Manager) will evaluate the documents. On the basis of this analysis will be selected individuals (at least two), which will be invited to the second stage of the competition.
2. The interview of selected candidates with the Commission (27-28.03.2018)

The contractor of the project will be selected on the basis of the conversation. All applicants will be notified of the outcome of the selection procedure. Applications must be submitted by **19 March 2018** to Project Manager jarek@ibb.waw.pl