

NCN postdoc position in the Laboratory of Genome Engineering

Dissecting DNA Maintenance Methylation in Mammals: Fidelity, Timing and Instructive Cues

The Laboratory of Genome Engineering at the Institute of Biochemistry and Biophysics (IBB) in Warsaw, headed by Prof. Matthias Bochtler, invites applications from young researchers for NCN funded postdoc position. Postdoc candidates must hold a PhD degree in natural sciences, obtained no earlier than May 1st, 2014.

The project is focused on **the fidelity and timing of DNA methylation in mammalian cells**, and on the contributions of various instructive cues influencing the process. The project aims to study the maintenance of DNA methylation at the single cell level, and to characterize its timing and fidelity using DNA hairpin approaches. The project will also investigate the role of DNA demethylation in the maintenance of methylation fidelity, and test for the predictions of the currently prevalent model in cells (rather than only *in vitro*). The project is funded under the framework of the NCN SHENG scheme, and will be carried out in collaboration with Prof. Jiemin Wong of East China Normal University in Shanghai (<http://www.biomed.ecnu.edu.cn/biomeden/wepartments/list.htm>).

The ideal candidate should have laboratory experience in mammalian cell culture, experience with labelling studies (BrdU, EdU), and with high throughput sequencing approaches (Nanopore and Illumina). Since the work will also involve much data analysis, prior experience with R and/or python would be desirable, and experience with the pipelines for analysis of epigenomic data would be a strong asset. However, these skills could also be acquired on the job, since the expertise is already available in the group.

Please forward your complete application including a CV, publication list, motivation letter, and the contact information for at least two referees to hczapinska@iimcb.gov.pl with the subject line "SHENG". Application deadline is June 26th 2022. Only selected candidates will be invited for an interview. Earliest possible start date for successful candidates is July 1st 2022, but later start dates can be negotiated.

Please include in your application the following statement: "*In accordance with the personal data protection act from the 29th of August 1997, I hereby agree to process and to store my personal data by the Institution for recruitment purposes*".