

## Open postdoc position

### Project description

Department of Biology of the Cell Nucleus is looking for a postdoctoral fellow to work on a project focused on nuclear phosphoinositides (PIs) and chromatin biology. There are seven differently phosphorylated PIs in mammalian cells. Some of them have been previously found in the nucleus where they participate in very important processes like transcription or splicing. However, molecular mechanisms of these events are mostly missing. The aims of our project are (i) to understand how the PIs affect epigenetic modifications through their action on histone modifying enzymes, as well as (ii) identification of novel PIs-regulated pathways in the nucleus. Besides, we plan to establish tools which would allow us to map localization of nuclear complexes formed by PIs and further analyze the dynamics and composition of such complexes, including optogenetics and high-content screening.

We are situated in a modern institute with top technical equipment and active collaborative environment. We use a wide range of experimental techniques: microscopy (fluorescence, super-resolution microscopy SIM/STED), electron microscopy), cell cultures (mammalian, yeast, bacteria), *C. elegans*, molecular biology and biochemistry (cell fraction, protein expression, immunoprecipitation, mass spectrometry, ChIP-Seq, etc.).

### Requirements

We are looking for an enthusiastic researcher who would be able to develop her/his own project and work independently. In addition, good communication skills and ability to join already established team and supervise PhD students is required. Applicant should have a strong background in methods of molecular biology and be able to master new techniques. PhD degree in cell biology, biochemistry or genetics as well as adequate publication record is required. A good command of English is required.

### Employment conditions

We offer competitive salary and friendly working environment. Institute of Molecular Genetics is a well-established institution which offers cutting edge equipment, and active collaborative environment. The project is already funded will last at least three years.

If interested please send a motivation letter along with a CV to [pislova@img.cas.cz](mailto:pislova@img.cas.cz) before 28 February 2017. For more information, please refer to the laboratory web site [www.img.cas.cz/research/pavel-hozak/](http://www.img.cas.cz/research/pavel-hozak/) or contact Prof. Pavel Hozak directly at [hozak@img.cas.cz](mailto:hozak@img.cas.cz).