



**Post-doc position** is available in NCN funded project (OPUS grant) to study molecular plant-microbe interactions.

**Project title:** *“Target enrichment and NGS approaches for isolation and characteristic of Ry-fsto gene, responsible for extreme resistance of potato plants (*Solanum tuberosum* L.) to PVY infection”*

**Institution:** Laboratory of Plant Pathogenesis, Institute of Biochemistry and Biophysics, PAS, Warsaw

**Maximum period of position agreement:** 36 months

**Position starts on:** October 2015

The aim of this project is to underpin critical components of plant defense signaling network through the use of cutting edge approaches in molecular biology and biochemistry. A new technique which combines target enrichment (TE) and next generation sequencing (NGS) was developed to accelerate cloning of genes from large eukaryotic genomes.

In this project plant defense network will be investigated in an important crop potato (*Solanum tuberosum* L.) in interaction with the potato virus Y (PVY). We will apply TE and NGS in order to isolate and characterize *Ry-fsto* gene that we believe is responsible for perception of PVY upon infection that in turn initiates pathway finally leading to extreme resistance (ER). In parallel to this high-throughput molecular approach we will develop a biological system to provide new insights into ER type of defense.

The project is performed in the tight collaboration with The Sainsbury Laboratory in Norwich, UK and Plant Breeding and Acclimatization Institute in Młochów, Poland.

#### **Candidates Profile:**

- Candidates should hold a PhD with relevant experience in the field of molecular genetics or biochemistry and in particular practical experience in plant biology.
- scientific achievements including publications in recognized international scientific journals
- willingness to collaborate with other scientists and foreign laboratories
- fluent in written and spoken English

Applicants should provide the following documents:

- curriculum vitae incl. a list of publications and expertise
- a motivation letter
- a copy of PhD diploma
- a reference letter

**Applications** in English or in Polish should be sent to Prof. Jacek Hennig, [jacekh@ibb.waw.pl](mailto:jacekh@ibb.waw.pl).

**Closing date: 11.09.2015**