System Biology of Biochemical Signalling Lab
Institute of Fundamental Technological Research
Polish Academy of Sciences, Warsaw

PhD scholarship opportunity

We are seeking a highly motivated PhD student with background in mathematics, statistics, engineering, computer science or related field to work within the project "*Phosphorylation dynamics of STAT1, STAT3 and STAT5 proteins in breast cancer cell lines*" funded by the National Science Centre under the program OPUS 9 (2015/17/B/NZ2/03692) and led by dr Michał Komorowski. The aim of the project is to establish a classification of signalling aberrations within the JAK-STAT pathway present in breast tumours. Statistical modelling will be used to explain origins and consequences of experimentally observed signalling aberrations, which is needed for a more rational selection of therapeutic interventions.

Responsibilities

- development of statistical tools directly applicable to experimental data
- handling and analysis of large data sets
- development of mathematical models of cellular signalling
- close collaboration with experimental biologists

Expected qualifications

- high motivation for scientific work at the interface between mathematics and cell biology
- MSc in mathematics, statistics, engineering, computer sciences or related filed
- programming skills (particularly Python, R, Matlab and/or C++)
- fluent english
- ability to work in a team

We offer

- exciting research tasks
- PhD studentship of 3000 - 4000 PLN (depending on qualifications) per month for 3 years
- participation in international conferences and workshops
- support in application for additional funding and scholarships
- highly creative, innovative and friendly work environment
- international collaborations

How to apply?

Email CV including MSc track record, a letter of motivation and two contacts for references.

Contact: Dr Michał Komorowski (m.komorowski@sysbiosig.org)

Deadline: until position is filled

Further information: http://www.sysbiosig.org/