

Ph.D. positions

Crosstalk between lipid and central carbon metabolism

Project description

Lipids play an essential role in all cells and their metabolism is tightly regulated and connected to many other cellular processes. The overall aim of this project is to better understand how the pathways involved in the biosynthesis and degradation of lipids are controlled in response to changes in central carbon metabolism. Several genes that were identified in preliminary screenings will be investigated for their role in these processes.

Methods

All work will be done in the model yeast *Saccharomyces cerevisiae*. Advanced methods of genetics, biochemistry and molecular and cell biology will be applied to characterize the role of candidate genes/proteins in the regulation of lipid metabolism. New analytical methods will be developed and implemented.

Some of the work will be done in close collaboration with a group in Ljubljana, including research stays at this institute.

Profile

The ideal applicants have an educational background in genetics and molecular biology or related disciplines, basic experience with yeast, and a strong interest in analytical methods.

Two PhD positions will be funded for three years.

For more information, contact:

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