High-Throughput Biology Approaches for Profiling Cellular Processes

Abstract:

Many novel genome-wide screening approaches have become important research tools in biology. These include next generation sequencing, high-throughput drug/knockout screens, as well as highly parallelized hybridization techniques. My lab works on the development of tools to analyze and model the complex data generated by these techniques in order to predict molecular functions of genes and study the dynamics of biological processes in model and production organisms. In this seminar I will discuss
the opportunities and challenges we are facing in utilizing these modern large scale data sets for discovery oriented research.

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