Discovering functional gene expression patterns in the metabolic network of Escherichia coli with wavelets transforms.

König R, Schramm G, Oswald M, Seitz H, Sager S, Zapatka M, Reinelt G, Eils R (2006) Discovering functional gene expression patterns in the metabolic network of Escherichia coli with wavelets transforms. *BMC Bioinformatics* 7, 119.

Details

Abstract

Microarray technology produces gene expression data on a genomic scale for an endless variety of organisms and conditions. However, this vast amount of information needs to be extracted in a reasonable way and funneled into manageable and functionally meaningful patterns. Genes may be reasonably combined using knowledge about their interaction behaviour. On a proteomic level, biochemical research has elucidated an increasingly complete image of the metabolic architecture, especially for less complex organisms like the well studied bacterium Escherichia coli.

Beteiligte Forschungseinheiten

Netzwerkmodellierung

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