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and regulation of galactose utilization using the classical genetic approach. Chapter 4 is a continuation of classical genetic analysis to unearth the molecular interactions.

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The galactose/melibiose (GAL/MEL) regulon of *Saccharomyces cerevisiae* is one of the best characterized eukaryotic systems of transcriptional regulation.

Transcriptional control of the GAL/MEL regulon of yeast

Here, we demonstrate the same principle of optimality in *S. cerevisiae* using the GAL regulon for growth on galactose. Previous and current studies have demonstrated that the WT strain synthesizes about 80% of the maximum GAL enzymes feasible using the GAL regulon in *S. cerevisiae*.

GAL regulon of *Saccharomyces cerevisiae* performs optimally

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Catabolite repression of galactose by glucose is one of the best-studied eukaryotic signal integration systems. In this system, it is believed that galactose metabolic (GAL) genes are induced only when glucose levels drop below a threshold.

Galactose metabolic genes in yeast respond to a ratio of

Overall, our data show that, while the Snf1 and Mig1 proteins play similar roles in regulating the galactose regulon in *Saccharomyces cerevisiae* and *K.lactis*, the way in which these proteins are integrated into the regulatory circuits are unique to each regulon, as is the degree to which each regulon is controlled by the two proteins.

Glucose represses the lactose-galactose regulon in

Transcriptional regulation in the galactose regulon of yeast is determined by an interplay between a positive regulatory protein, GAL4, and a negative regulatory protein, GAL80.

Interaction of positive and negative regulatory proteins

The cysteine-peptidase bleomycin hydrolase is a member of the galactose regulon in yeast. *Journal of Biological Chemistry* , 272 (48), 30350-30355. DOI: 10.1074/jbc.272.48.30350

The cysteine-peptidase bleomycin hydrolase is a member of

Galactose metabolism, which converts galactose into glucose, is carried out by the three principal enzymes in a mechanism known as the Leloir pathway. The enzymes are listed in the order of the metabolic pathway: galactokinase (GALK), galactose-1-phosphate uridylyltransferase (GALT), and UDP-galactose-4-epimerase (GALE).

Galactose - Wikipedia

Expression of the lactose-galactose regulon in *Kluyveromyces lactis* is induced by lactose or galactose and repressed by glucose. Some components of the induction and glucose repression pathways have been identified but many remain unknown.

Glucose represses the lactose-galactose regulon in

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