

COLLOQUIUM

Evolution of GAL genetic switch of Yeast

Abstract: Galactose metabolic pathway is evolutionarily conserved from bacteria to humans. In yeast, the enzymes required for the metabolism of galactose are transcribed only when the cells are exposed to galactose. The amount of enzyme synthesised is proportional to the amount of galactose present in the medium. Therefore, the question that needs to be understood are the following. How does yeast recognise and monitor the concentration of galactose. How does yeast process and convert the information present in the form of a chemical into a biological output. I shall discuss our recent attempt to understand the molecular mechanisms of the above processes.

by

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All are Welcome