

Nutrient Induced Responses In Eukaryotic Cells

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Nutrient Induced Responses In Eukaryotic

Cells of all living organisms have the ability to respond to altered nutritional conditions. They have developed mechanisms to sense nutrient availability and to produce appropriate responses, which involve changes in gene expression and the production or degradation of certain enzymes and other proteins.

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Get this from a library! Nutrient-induced responses in eukaryotic cells. [Joris Winderickx; Peter M Taylor;] -- "This book provides detailed presentation and comparison of the key nutritional regulatory mechanisms in lower as well as higher eukaryotes, written by recognised experts in this expanding ...

Nutrient-induced responses in eukaryotic cells (Book, 2004 ...

Nutrient-induced responses in eukaryotic cells. [Joris Winderickx; Peter M Taylor;] -- Cells of all living organisms have the ability to respond to altered nutritional conditions. They have developed mechanisms to sense nutrient availability and to produce appropriate responses, which ...

Nutrient-induced responses in eukaryotic cells (eBook ...

The general response to nutrient repletion consists of a rapid induction of genes involved in mass accumulation and cell division along with repression of genes necessary for respiration, gluconeogenesis, and stress resistance . Yeast cells have multiple pathways for sensing the presence of nutrients.

Protein Kinase A, TOR, and Glucose ... - Eukaryotic Cell

Our results showed that different levels of nutrient addition induced both quantitative and qualitative changes, thereby modifying the structure of prokaryotic and eukaryotic microbial plankton communities.

Prokaryotic and eukaryotic microbial community responses ...

An adequate nutrient supply is essential for optimal mRNA translation, and eukaryotic cells have

evolved nutrient-sensing pathways that coordinate protein synthesis with nutritional status. Nutrient deprivation inhibits global protein synthesis through modulation of the mechanistic target of rapamycin (mTOR) (Wullschleger et al., 2006)

Nutrient Deprivation Elicits a Transcriptional and ...

In eukaryotic green microalgae, manipulation of metabolic pathways by altering the culture medium and/or culture conditions represents a powerful tool for physiological control and is usually more practicable than metabolic or genetic engineering. Strategies for nutrient-induced shifts in biomass composition are generally cost-efficient, environmentally friendly, applicable on a large scale ...

Effect of nutrient supply status on biomass composition of ...

The nutrient composition of the medium has dramatic effects on many cellular properties in the yeast *Saccharomyces cerevisiae*. In addition to the well-known specific responses to starvation for an essential nutrient, like nitrogen or phosphate, the presence of fermentable sugar or a respirative carbon source leads to predominance of fermentation or respiration, respectively.

Multiple Transceptors for Macro- and Micro-Nutrients ...

calcium signaling-induced stress response It has been established that calcium functions as a second messenger, and changes in calcium homeostasis have a number of physiological effects in cells. It is not well known what type of calcium exposure fungal cells encounter in the environment, but indeed they are able to react to calcium.

Our Paths Might Cross: the Role of the ... - Eukaryotic Cell

Fungi, Chlorophyta and Chrysophyta which associated with the nutrient removal played important roles in this hysteretic change of microbial eukaryotic communities. Overall, our findings suggest that disentangling the non-linear response of communities to gradual environmental changes is essential for understanding ecosystem restoration and degradation in future.

Hysteretic response of Microbial Eukaryotic Communities to ...

Citation: Hennon GMM, Hernández Limón MD, Haley ST, Juhl AR and Dyhrman ST (2017) Diverse CO₂-Induced Responses in Physiology and Gene Expression among Eukaryotic Phytoplankton. *Front. Microbiol.* 8:2547. doi: 10.3389/fmicb.2017.02547. Received: 31 August 2017; Accepted: 08 December 2017; Published: 19 December 2017.

Frontiers | Diverse CO₂-Induced Responses in Physiology ...

Eukaryotic cells have evolved various signaling cascades and cellular processes in response to rapid environmental changes. Among these, macroautophagy (herein referred to as autophagy) is an evolutionarily conserved self-digestive process cells adapt to nutrient starvation (1, 2).

Nutrient starvation elicits an acute autophagic response ...

At low nutrient levels, eight genotypes exhibited induced susceptibility to herbivores (RR = 1.25 ± 0.11, herbivory effect at 0 p.p.m.: F 1,14 = 5.54, P = 0.03), while at high nutrient levels seven of nine genotypes exhibited induced resistance (RR = 0.72 ± 0.14; herbivory effect at 400 p.p.m.: F 1,17 = 12.42, P = 0.002; see Fig. 2b).

Nutrient supply alters goldenrod's induced response to ...

Several *S. enterica* serovar Typhimurium genes whose expression is activated in response to low iron concentrations were also induced in eukaryotic cell lines. These genes include *fhuA*, *cirA*, and *entF*, which encode proteins that are components of siderophore-mediated iron uptake systems (13, 20).

Identification of Chromosomal *Shigella flexneri* Genes ...

Exposure of HepG2 cells to high levels of glucose or palmitate induced the endoplasmic reticulum (ER) stress response, activated sterol regulatory element-binding protein-1 (SREBP-1), and enhanced lipid accumulation, all of which were sensitive to ER stress inhibitor and gene silencing of eukaryotic initiation factor 2 α .

AMPK activation prevents excess nutrient-induced hepatic ...

nutrients could potentially have widespread effects on the host cell. For example, pathogens that

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import amino acids from the host cell cytoplasm may starve the cell.

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