

The Regulation Of Cell Metabolism 1967 Molecular And Cellular Biology Series 260 Pages With Illustrations

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Regulation of cancer cell metabolism Nat Rev Cancer. 2011 Feb;11(2):85-95. doi: 10.1038/nrc2981. Authors Rob A Cairns 1, Isaac S Harris, Tak W Mak. Affiliation 1 The Campbell Family Cancer Research Institute, Toronto, ON M56 2M9, Canada. PMID: 21258394 DOI: 10 ...

[Regulation of cancer-cell metabolism - PubMed](#)

Cellular metabolism is regulated by the secretion of TSH release from the anterior pituitary gland. This hormone enters the circulation and stimulates the thyroid gland to produce both tri-iodothyronine (T 3) and thyroxine (T 4). These hormones circulate bound to thyroid binding globulin and after transport are taken up by the cell.

[Cell Metabolism - an overview | ScienceDirect Topics](#)

Such up- and down-regulation of metabolic pathways is often a response to changes in concentrations of key metabolites in the cell. For example, a cell may take stock of its levels of intermediate...

[Cell Metabolism | Learn Science at Scitable](#)

The first layer of control of cellular energy metabolism comprises allosteric regulation exerted, over short timescales, on enzymes by metabolites upstream and downstream of the enzyme. These allosteric interactions modulate the activity of the target enzyme in accordance with the level of the regulating metabolite (s).

[Regulation of Metabolic Homeostasis in Cell Culture -](#)

Regulation by phosphorylation through the action of kinases, and dephosphorylation by phosphates is extremely common. Control of phosphorylation state is mediated through signal transduction process starting at the cell membrane, leading to the activation or inhibition of protein kinases and phosphatases within the cell.

[MP4 - Regulation of Metabolic Pathways - How Is It Regulated -](#)

The oncogenic transcription factor c-Myc contributes to a wide variety of human cancers and regulates many genes instrumental in both the cell cycle and metabolism. Among the processes regulated by c-Myc are glucose and glutamine metabolism and mitochondrial biogenesis.

[Metabolic Regulation of T Lymphocytes | Annual Review of -](#)

Metabolism, the sum of the chemical reactions that take place within each cell of a living organism and that provide energy for vital processes and for synthesizing new organic material. mitochondria and cellular respiration Electron micrograph of hepatocyte cells showing mitochondria (yellow).

[metabolism | Definition, Process, & Biology | Britannica](#)

A very well understood example of extrinsic control is the regulation of glucose metabolism by the hormone insulin. Insulin is produced in response to rises in blood glucose levels. Binding of the hormone to insulin receptors on cells then activates a cascade of protein kinases that cause the cells to take up glucose and convert it into storage molecules such as fatty acids and glycogen. [117]

[Metabolism - Wikipedia](#)

While there has been much focus on the impact of glycolysis and TCA cycle activity on T cell function, less is known about the regulation of metabolic pathways that impact T cell epigenetics. We show here that methionine is an essential metabolite for SAM biosynthesis and histone methylation in T cells.

[Methionine Metabolism Shapes T Helper Cell Responses -](#)

Several enzymes contribute to regulation of glutaminolysis in T cells. Th17 cells had greater expression of GLS than Th1 at protein and RNA levels (Figures S2 B and S2C). Th1 and Th17 cells expressed low levels of GlS2 mRNA and expressed similar levels of other glutamine and anaplerotic metabolic enzymes (Figures S2 C-S2E).

[Distinct Regulation of Th17 and Th1 Cell Differentiation -](#)

Recent Advances: Forkhead box O transcription factors (FOXOs) are bona fide regulators of cellular homeostasis. FOXOs are multitasking proteins able to regulate cell cycle, cellular metabolism, and redox state. Recent and ongoing research poses FOXOs as key factors in stem cell maintenance and differentiation in several tissues.

[Metabolic Regulation of Stem Cells and Differentiation. A -](#)

The dynamic regulation of intracellular Ca²⁺ concentrations controls a variety of T cell functions on the timescale of seconds to days after signal initiation. Among the more recently identified...

[CALCIUM REGULATION OF T CELL METABOLISM | Request PDF](#)

Understanding the molecular interplay between CAV1 and metabolism could help uncover druggable metabolic targets or pathways of clinical relevance in cancer therapy. Here we review from a cancer perspective, the findings that CAV1 modulates cell metabolism with a focus on glycolysis, mitochondrial bioenergetics, glutaminolysis, fatty acid metabolism, and autophagy.

[Caveolin 1 in the regulation of cell metabolism - a cancer -](#)

Balancing metabolic flux is important for all bacterial cells, and SdhX plays a major role in this process by linking expression of tricarboxylic acid cycle genes to regulation of acetate metabolism, thus playing a role in gating overflow metabolism.

[Regulation of acetate metabolism and coordination with the -](#)

Cellular metabolism sustains life and allows cells to grow, develop, repair damage, and respond to environmental changes. [2] Cellular metabolism can break down organic matter, a process known as catabolism. Cellular metabolism can also produce substances, a process referred to as anabolism.

[What Is Cellular Metabolism? - Global Healing](#)

Regulation of Cellular Metabolism by Protein Lysine Acetylation | Science Protein lysine acetylation has emerged as a key posttranslational modification in cellular regulation, in particular...

[Regulation of Cellular Metabolism by Protein Lysine -](#)

Hedgehog signaling plays an important role in the regulation of glutamine metabolism, as well as TGF- β 1, c-Myc, and Ras signalings, via transcriptional upregulation and repression of key metabolic enzymes in this pathway.

[Regulation of hepatic stellate cell proliferation and -](#)

In this review, we have focused on the characteristic metabolic pathways of cancer cells, such as aerobic respiration, glycolysis, autophagy, glutaminolysis, asparagine metabolism, lipolysis, and NAD metabolism, to provide a comprehensive summary on the very recent advances in the design of nanomedicines that can regulate tumor metabolism for substantially enhancing conventional therapeutic modalities, such as photodynamic therapy, photothermal therapy, nanocatalytic therapy, tumor ...