

## GLUCOSE METABOLISM IN THE BRAIN

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[Metabolism and the Brain | The Scientist Magazine](#)  
An intimate link exists between the brain and the metabolism of sugar one that has too long been overlooked by the fields of neuroscience and psychiatry. One idea that is gaining steam is a role for metabolism.

[Brain glucose metabolism - Metabolism and hormones ...](#)

Cerebral glucose metabolism. Figure 1: [Click to enlarge]  
The Michaelis-Menten Meter is a graphical rendition of the Michaelis-Menten equation applied to transport across the blood-brain barrier in both directions; the difference between the fluxes being equal to the rate of glucose phosphorylation.

[Sugar for the brain: the role of glucose in physiological ...](#)

The mammalian brain depends upon glucose as its main source of energy, and tight regulation of glucose metabolism is critical for brain physiology. Consistent with its critical role for physiological brain function, disruption of normal glucose metabolism as well as its interdependence with cell

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[Metabolism of glucose in neuronal mitochondria 2](#)

Cytoplasmic glucose undergoes glycolysis to produce acetyl CoA, which is then used to produce ATP. Acetyl CoA; acetyl coenzyme A; ATP, adenosine triphosphate; TCA cycle, tricarboxylic acid cycle (also known as the citric acid cycle or Krebs cycle).

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Insulin-like growth factor-1 promotes neuronal glucose utilization during brain development and repair processes  
Review article Pages 189-217, IN5-IN7

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Regulation of glucose at the biochemical level affects every area of the brain, and has impact from cellular to behavioral brain function. It plays an important role in diseases such as diabetes, stroke, schizophrenia and drug abuse as well as in normal and dysfunctional memory and cognition.

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Indeed, insulin-mediated glucose uptake and intracellular glucose metabolism are diminished in patients with essential hypertension and normal glucose tolerance independent of the presence of obesity [100], whereas hypertension has been associated with obesity, IGT, and T2DM [8,11].

### The Role of Insulin in Human Brain Glucose Metabolism ...

Abstract. The effect of basal insulin on global and regional brain glucose uptake and metabolism in humans was studied using 18-fluorodeoxyglucose and positron emission tomography (FDG-PET).

### Brain Fuel Metabolism, Aging, and Alzheimer's Disease,

Normally, low brain glucose metabolism would be a reflection of low plasma glucose, and would be seamlessly compensated for by increased ketone production, the brain uptake of which is rapid and proportional to plasma ketone level (see Section 5.2, Figure 3).

### GLUCOSE METABOLISM - HUMAN NEUROPHYSIOLOGY

GLUCOSE METABOLISM. Glucose metabolism. Glucose is virtually the only energy substrate which the brain can use. Free fatty acids, used by most other tissues when glucose is in short supply, are excluded from the brain by the blood-brain barrier.

### Sugar for the brain: the role of glucose in physiological ...

Thus, disruption of pathways of glucose delivery and metabolism leads to debilitating brain diseases. We highlight the multifaceted role and complex regulation of glucose metabolism in the CNS as well as the physiological and pathophysiological consequences of balanced and disturbed glucose metabolism .