

Cerebral energy metabolism

The study of brain energy [metabolism](#) has taken second place to that of [muscle](#) ever since the dawn of this field of [research](#). Consequently, each new discovery made using muscle tissue that advanced our understanding of the biochemistry of energy metabolic processes was attempted to be duplicated in [brain tissue](#). It was only when the brain's high energy needs were recognized that researchers realized its vulnerability to any mishap in its energy supplies and that this vulnerability may play a role in various brain disorders. Understanding the mechanisms by which the brain deals with energy shortage is of utmost importance in shedding light on the fundamentals of brain disorders and their potential treatment. To achieve such an understanding, accurate measurement of brain energy metabolic rates is necessary.

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