

## Respiration And Metabolic Rate Page 43

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RESPIRATION page 44 metabolic rate is the energy use per kilo- gram (per unit mass). This variable is called the mass-specific MR. It is the slope of the curve in Figure 1 (total MR di- vided by body mass).

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All organisms respire in order to release energy to fuel their living processes. The respiration can be aerobic, which uses glucose and oxygen, or anaerobic which uses only glucose.

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There were no differences in standard metabolic rate, determined by flow-through respirometry, among the nine species.

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Oxygen is needed in aerobic respiration, carbon dioxide is a byproduct of respiration, while heat is lost energy by many reactions. The higher these variables, the higher the metabolic rate is. Due to the big range of metabolic rates between organisms at rest versus active, for comparison purposes the resting metabolic rate is obtained.

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An organism's metabolic rate is the amount of energy expended by that organism in a given time period - usually daily. At rest, meaning in periods of inactivity, the metabolic rate is known as the...

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Oxygen-consumption rate provides a reliable indirect measurement of metabolic rate and can be measured using a variety of closed and open respirometers in fish at rest (routine, resting-routine, and standard metabolic rates) and using a swim tunnel respirometer where fish can be forced to maintain different levels of exercise intensity (swimming and active metabolic rates).

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Basal metabolic rate (BMR) – even at rest, the body needs energy (kilojoules) to keep all its systems functioning correctly (such as breathing, keeping the heart beating to circulate blood, growing and repairing cells and adjusting hormone levels). The body's BMR accounts for the largest amount of energy expended daily (50–80 per cent of ...

#### ~~Metabolism – Better Health Channel~~

Respiration is a variable under automatic, unconscious, as well as under voluntary, conscious, control. It can exercise influence on other physiological variables such as heart rate (cf Harver & Lorig, 2000). Registration of respiratory variables can be accomplished by a variety of methods.

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Respiration rates are important to plant performance and the ecosystem carbon cycle. Progress into understanding the scaling of plant respiration rates requires additional data to explore the relationships among plant respiration rate, nitrogen content, metabolic, and non-metabolic biomass allocation patterns.

#### ~~Scaling relationship between tree respiration rates and ...~~

Since respiration produces the ATP necessary for metabolism, information about the rate of respiration of an organism tells us how much metabolic activity is occurring. Because of this, rates of respiration are often used synonymously for metabolic rates. Aerobic respiration is the most efficient form of respiration used to make ATP.

#### ~~Laboratory 13: Aerobic Respiration and Metabolism Dr ...~~

Similarly, alkalosis can be compensated for by decreasing the rate of respiration, increasing the carbon dioxide dissolved in the blood. The driving mechanism is controlled by neurons in the floor of the fourth ventricle of the brain. They sense the pH of the cerebrospinal fluid which mirrors the pH of the blood and modulate the respiration rate.

#### ~~Describe The Respiratory Response To Metabolic Acidosis ...~~

Respiration responds directly to metabolic needs. Most toxicants studied have been found to reduce the metabolic rate and thus, the respiration of many organisms. Many studies have relied primarily on a single metric, oxygen consumption, to determine changes in metabolic rates.

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This study aims at identifying if and how sleep plays a role in regulating body temperature and metabolic-rate in primates. Further, a hibernating primate, the lemuriform Cheirogaleus medius (Fat-tailed dwarf lemur) in specific, will be examined because hibernation has a direct correlation with hypothermia and reduced metabolic-rate.

#### ~~Results Page 2 for Basal metabolic rate | Bartleby~~

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