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respiration encompasses the processes that facilitate gas exchange on a cellular level which involves the intake of O_2 and the removal of CO_2 respiration involves the synchronization of various components including central neural control respiratory drive sensory input systems respiratory muscles and lungs fig 1 11 13

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cellular respiration can be defined generally as the process by which chemical energy is released during the oxidation of organic molecules if it requires oxygen it is called aerobic respiration whereas if it takes place in the absence of oxygen it is anaerobic respiration

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in cellular respiration electrons from glucose move gradually through the electron transport chain towards oxygen passing to lower and lower energy states and releasing energy at each step the goal of cellular respiration is to capture this energy in the form of atp

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cellular respiration is a metabolic pathway that breaks down glucose and produces atp the stages of cellular respiration include glycolysis pyruvate oxidation the citric acid or krebs cycle and oxidative phosphorylation introduction cellular respiration is one of the most elegant majestic and fascinating metabolic pathways on earth

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cellular respiration is a process that happens inside an organism's cells. This process releases energy that can be used by the organism to live and grow. Many food molecules are broken down into glucose, a simple sugar. Glucose is used in cellular respiration. Glucose and oxygen are inputs of cellular respiration.

cellular respiration definition equation cycle process Sep 23 2023

cellular respiration is the process by which organisms combine oxygen with foodstuff molecules, diverting the chemical energy in these substances into life-sustaining activities and discarding as waste products carbon dioxide and water. Organisms that do not depend on oxygen degrade foodstuffs in a process called fermentation.

understanding cellular respiration an analysis of conceptual Aug 23 2023

first published August 1994. doi: org/10.1002/tea.3660310605. citations: 91. pdf tools share abstract. This study explored and documented the frequencies of conceptual difficulties confronted by college students seeking to understand the basic processes of cellular respiration.

cellular respiration wikipedia Jul 22 2023

cellular respiration may be described as a set of metabolic reactions and processes that take place in the cells of organisms to convert chemical energy from nutrients into ATP and then release waste products. Cellular respiration is a vital process that occurs in the cells of all living organisms.

respiration latest research and news nature Jun 20 2023

respiration articles from across nature portfolio. Respiration is the physiological process through which oxygen in the environment can be exchanged with carbon dioxide from an organism. This

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a conceptual framework for the connections between the stress response system, mitochondrial function, and key aspects of individual performance. Stressors affect various aspects of mitochondrial function via hormonal and non-hormonal signaling molecules, especially glucocorticoids via the HPA axis.

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aerobic cellular respiration begins in the cytoplasm with glycolysis and ends in the mitochondria with the citric acid cycle and the electron transport chain. Aerobic cellular respiration results in fully oxidizing

glucose and can yield a maximum of 32 atp per glucose molecule

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cellular respiration involves the breakdown of glucose and the storage of the energy received into the molecule atp plants create their own energy through photosynthesis and also use cellular respiration to produce atp animals must rely on the sugars that they've gathered from plants to supply their mitochondria material to produce atp

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adjective living active or occurring in the absence of free oxygen atp noun adenosine triphosphate chemical found in most living cells and used for energy cellular respiration noun process by which cells turn nutrients into useful energy coenzyme

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respiration is a chemical process that involves the breakdown of nutrient molecules specifically glucose in order to release the energy stored within the bonds of these molecules respiration is enzyme controlled respiration can take place with oxygen aerobically or without oxygen anaerobically

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gcse aqa respiration aqa cellular respiration all organisms respire in order to release energy to fuel their living processes the respiration can be aerobic which uses glucose and

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