

## Respiration BMZ116B Study Guide

- To perform their many tasks, living cells require \_\_\_\_\_ from outside sources.
- Energy enters most ecosystems as \_\_\_\_\_ and leaves as \_\_\_\_\_.
- Photosynthesis generates \_\_\_\_\_ and \_\_\_\_\_ that the mitochondria of eukaryotes use as \_\_\_\_\_ for cellular respiration.
- Cells harvest the chemical energy stored in organic molecules and use it to regenerate \_\_\_\_\_, the molecule that drives most cellular work.
- Respiration has three key pathways: \_\_\_\_\_, the \_\_\_\_\_, and \_\_\_\_\_.

### A. The Principles of Energy Harvest

#### 1. Cellular respiration and fermentation are catabolic, energy-yielding pathways.

- The arrangement of atoms of organic molecules represents \_\_\_\_\_ energy.
- Enzymes \_\_\_\_\_ the systematic degradation of organic molecules that are rich in energy to simpler waste products with \_\_\_\_\_ energy.
- Some of the released energy is used to do \_\_\_\_\_; the rest is dissipated as \_\_\_\_\_.
- Catabolic metabolic pathways \_\_\_\_\_ the energy stored in complex organic molecules.
- One type of catabolic process, \_\_\_\_\_, leads to the partial degradation of sugars in the absence of oxygen.
- A more efficient and widespread catabolic process, \_\_\_\_\_, consumes \_\_\_\_\_ as a reactant to complete the breakdown of a variety of organic molecules.
  - In eukaryotic cells, \_\_\_\_\_ are the site of most of the processes of cellular respiration.
- Cellular respiration is similar in broad principle to the combustion of gasoline in an automobile engine after \_\_\_\_\_ is mixed with hydrocarbon fuel.
  - \_\_\_\_\_ is the fuel for respiration. The exhaust is \_\_\_\_\_ and \_\_\_\_\_.
- The overall process is:
  - organic compounds + \_\_\_\_\_  $\rightarrow$  \_\_\_\_\_ + \_\_\_\_\_ + energy (\_\_\_\_\_ + \_\_\_\_\_).
- Carbohydrates, fats, and proteins can all be used as the fuel, but it is most useful to consider glucose.
  - \_\_\_\_\_ +  $6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy (ATP + heat)}$
- The catabolism of glucose is \_\_\_\_\_ with a  $\Delta G$  of  $-686$  kcal per mole of glucose.
  - Some of this energy is used to produce \_\_\_\_\_, which can perform cellular work.

#### 2. Redox reactions release energy when electrons move closer to electronegative atoms.

- Catabolic pathways transfer the \_\_\_\_\_ stored in food molecules, releasing energy that is used to synthesize \_\_\_\_\_.
- Reactions that result in the transfer of one or more electrons from one reactant to another are oxidation-reduction reactions, or \_\_\_\_\_ reactions.
  - The loss of electrons is called \_\_\_\_\_.
  - The addition of electrons is called \_\_\_\_\_.
- The formation of table salt from sodium and chloride is a redox reaction.

# Laboratory Manual B Chapter 9 Cellular Respiration

## Answer Key

**Joacim Rocklöv**



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**what is database performance tuning solvaria** - Jun 14 2023

web jan 22 2021 database performance tuning refers to the various ways database administrators can ensure databases are running as efficiently as possible typically this refers to tuning sql server or oracle queries for enhanced performance

performance tuning in sql how to optimize performance - Jan 29 2022

web nov 8 2022 what is database performance tuning database performance tuning involves database object improvement by examining indexes views and table normalization sql queries should be written in a way that makes optimum use of database structures such as indexes