

Understanding human anatomy and physiology

9 pages | 2156 words

Metabolism refers to the chemical reaction collections that take place in the cells of the body. The process of metabolism converts the body nutrients derived from food ingested to produce essential energy requirements for the body. The body requires energy for muscular activity and movements as well as blood circulation, breathing, making new cells, lymph, and tissue fluid transmission of nerve impulses and repair of body tissues among other roles. The control of metabolic chemical reactions in the body is done by specific proteins. The cardiovascular, digestive and respiratory systems work together in the body that leads to energy supply. The paper describes the digestive, cardiovascular and respiratory system in their relation to energy metabolism and their role in providing energy to the body. Furthermore, this paper provides a robust discussion of the various roles of energy in the human body. Lastly, it analyses the interaction of two body systems to produce the energy assisted body functions.

Respiratory System

The respiratory system constitutes of organs and tissues that are formed into groups in the human body. The respiratory system includes lungs, airways, muscles and blood vessels attached to function together to enable breathing of an individual. The respiratory system supplies oxygen to all body parts. The mechanism of breathing leads to oxygen inhalation and exhalation of carbon dioxide (Anon 2010, p. 79). The respiratory system, therefore, works together with the digestive system in numerous ways. Essentially, the respiratory system allows for the smooth function of the digestive tract as well as the digestive system. Besides, Anon (2010, p. 79) indicates that both the digestive and the respiratory system work together to provide energy to the body cell. As such metabolism is intertwined with a respiratory system since the system provides oxygen for oxidation of the digested foods. In relation to metabolism, the respiratory system provides oxygen to the digestive system to enable digestion of food. Likewise, respiratory system removes water and oxygen the cells produce as a waste product. The chemical digestion begins in the small intestine where food enzymes released by the pancreases and bile assist in chemical digestion. Therefore, the respiratory system is tied to metabolism because it primarily provides oxygen to the cells around the body.

Digestive System

The digestive system primarily breaks down the food components with fluid into tiny nutrients that can be absorbed to generate energy. The digestive system functions begin during ingestion to digestion, absorption, and finally to defecation. The system consists of a group of organ is responsible for breaking down the chemical food components using the digestive juices. The digestive system, according to Favors (2010, para. 7), refers to a group of organs consisting of the esophagus, mouth, pharynx, gall bladder, stomach, liver, and colon that aid in ingestion, digestion, absorption and defecation for both mechanically and chemically (Favors (2010, para. 9). The digestive system connects with the digestive and respiratory system in that in the process of inhalation, and air is filled with the lungs. The circulatory system runs all over the human body including the...

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