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## Chapter 37 Circulatory And Respiratory Systems Section 2

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Chapter 37, Circulatory and Respiratory Systems (continued) Section 37-2 Blood and the Lymphatic System (pages 951-955) This section describes the functions of the different components of blood. It also outlines the role of the lymphatic system. Blood Plasma (page 951) 1. The straw-colored fluid portion of blood is called plasma 2.

### Chapter 37 Circulatory And Respiratory Systems Section 37 ...

Chapter 37. 2. Circulatory System 37-1. Functions of the circulatory system. Transport oxygen, nutrients to cells and waste from the cells. Composed of heart, series of blood vessels, and blood. 3. The Heart. Myocardium – thick layer of muscle in the wall of the heart.

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This presentation describes various aspects of the regulation of tissue oxygenation, including the roles of the circulatory system, respiratory system, and blood, the carrier of oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or  $P_{O_2}$  on the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical  $P_{O_2}$ . In order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

The placenta is an organ that connects the developing fetus to the uterine wall, thereby allowing nutrient uptake, waste elimination, and gas exchange via the mother's blood supply. Proper vascular development in the placenta is fundamental to ensuring a healthy fetus and successful pregnancy. This book provides an up-to-date summary and synthesis of knowledge regarding placental vascular

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biology and discusses the relevance of this vascular bed to the functions of the human placenta.

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