Editorial

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Editorial Note on Physiology

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Editorial Note

Physiology is the study of how the human body works. It describes the chemistry and physics behind basic body functions, from how molecules behave in cells to how systems of organs work together. It helps us understand what happens in a healthy body in everyday life and what goes wrong when someone gets sick.

Physiology is an experimental science. Research in physiology advances our understanding of the detailed mechanisms that control and regulate the behaviour of living things. We continue to learn more about fundamental processes, such as the control of heart rate or the sense of vision, through comprehensive exploration of the multiple processes involved.

Human physiology seeks to understand the mechanisms that work to keep the human body alive and functioning through scientific enquiry into the nature of mechanical and biochemical functions of humans, their organs, and the cells of which they are composed. The principal level of focus of physiology is at the level of organs and systems within systems. The endocrine and nervous systems play roles in the reception and transmission of signals that integrate function in animals. Homeostasis is a major aspect with regard to such interactions within plants as well as animals. The biological basis of the study of physiology, integration refers to the overlap of many functions of the systems of the human body. It is achieved through communication that occurs in a variety of ways, both electrical and chemical.

Recent technological advances in medical informatics and biomedicine facilitated the development of complex biomedical systems including innovated clinical and computer-based decision support systems, knowledge acquisition and management, computational intelligence in molecular medicine, bioclinical medicine, and healthcare. Artificial intelligence (AI) has a great impact on the fields of biotechnology and medicine.

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