



Cellular Function and Metabolism

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Book Condition: New. Publisher/Verlag: Springer, Berlin | A variety of metabolic processes are known to be intimately involved in the maintenance of cellular structure and function. It has also become clear that metabolic events involved in the synthesis and hydrolysis of ATP as well as for the synthesis of proteins and phospholipids are essential for cellular health. The regulation of cell function is generally achieved through participation of a wide variety of hormones and different signal transduction mechanisms for the activation/deactivation of some specific metabolic processes. In this regard cyclic AMP and calcium seem to play a crucial role. Various hormones are also known to affect the genetic machinery of all the cell; however, the exact signals for genetic control of cellular function are not well defined. In particular, the sequence of events concerned with remodelling of different types of cells under various pathological situations is poorly understood. In this book we have therefore dealt with some of these issues from biochemical, molecular biological, physiological, and pharmacological viewpoints. Special emphasis has been laid on understanding heart function and metabolism in health and disease in general, and cardiac hypertrophy, heart failure, and ischemic heart disease in particular. It is hoped that...

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