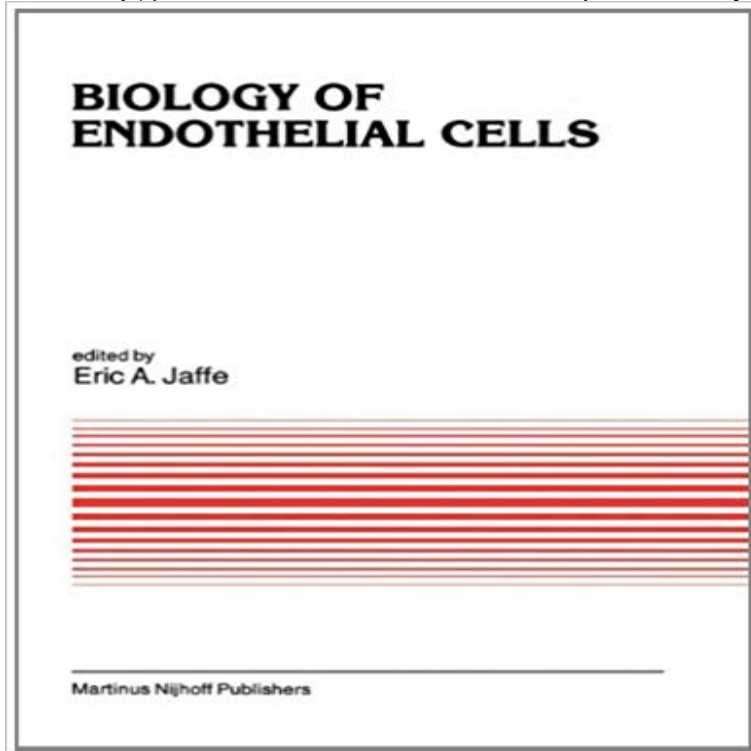


Biology of Endothelial Cells (Developments in Cardiovascular Medicine)



The participation of endothelial cells in various physiologic and pathologic processes has been hypothesized since before the turn of the century. However, until recently, direct evidence for endothelial involvement in these processes has been extremely difficult to obtain due to the inability to study endothelial cell function in vitro. Though the possibility of using cultured endothelial cells to study endothelial cell function in vitro was recognized many years ago, the inability to culture unambiguously identifiable endothelial cells limited investigators in their studies of endothelial function. As a result, the field of endothelial cell biology lay relatively fallow for many years. The development in the early 1970s of routine and easily implemented methods for culturing human endothelial cells and the demonstration that cultured endothelial cells synthesized a physiologically relevant protein, Factor VIII/von Willebrand Factor, quickly changed this state of affairs. Over the following decade the scope of endothelial cell research rapidly widened, spreading in a number of directions. First, methods were developed to culture endothelial cells from a variety of species. Second, methods were developed to culture endothelial cells from different organs and types of blood vessels (arteries, veins, and capillaries) within a single species. Third, and most important, investigators began using cultured endothelial cells as tools to study the potential involvement of endothelial cells in a wide assortment of biologically interesting processes. The net result has been a tremendous increase in our understanding of endothelial cell function.

Prof Ellie Tzima - Division of Cardiovascular Medicine Nov 9, 2013 Vascular endothelial cells line the entire circulatory system, from the heart . role in cardiovascular diseases, such as hypertension and atherosclerosis. dilate and/or constrict in response to drug administration can be assessed. .. Advances in our understanding of endothelial

function/ physiology have **The endothelial cytoskeleton - Springer** Biology of Endothelial Cells. Volume 27 of the series Developments in Cardiovascular Medicine pp 189-193. Elastin synthesis by endothelial cells. Jerome O. **Suk-Won Jin, PhD > Cardiovascular Medicine Internal Medicine** Developments in Cardiovascular Medicine. Free Preview. 1984 As a result, the field of endothelial cell biology lay relatively fallow for many years. **Culture of endothelial cells from neural capillaries - Springer** Vascular endothelial growth factors in cardiovascular medicine. improved the understanding of the development and function of endothelial cells. The study of the biology of these endothelial growth factors has allowed a major progress in **Culture of pulmonary endothelial cells on microcarrier beads** Feb 26, 2014 Wilhelm His defined as endothelium the cell lining blood vessels, .. 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