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The Resistance Arteries: Integration of the Regulatory Pathways

By Mark Nelson

Humana Press Inc. Paperback. Book Condition: New. Paperback. 372 pages. Dimensions: 9.0in. x 6.0in. x 0.9in. The Resistance Arteries is focused on the general issue of the regulatory pathways in resistance arteries and comprises a selection of timely overviews and up-to-date research studies presented at the 4th International Symposium on Resistance Arteries. These small vessels act as major controllers of blood pressure, blood flow, and its distribution, and are involved in a variety of pathological conditions. Vascular diameter is influenced by a host of factors, some extrinsic to the smooth muscle cells and some intrinsic. One will find contributions in nearly all of the five themes by which the book is organized; these address intra- and extracellular interactions, and membrane receptor pathways using vascular beds as diverse as the brain, heart, lung, kidney, and skin. Basic physiological studies are included; these examine: growth factors, vasoactive endothelium-derived nitric oxide, the impacts of flow and stretch, myogenic mechanisms, calcium regulation by protein kinase C, and signal transduction pathways of the vascular smooth muscle cell membrane receptors. Not only are tissues from appropriate animal models exploited in most of these reports, but many reflect the current increase in the use of human tissue...



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