Amiloride-Sensitive Sodium Channels: Physiology and Functional Diversity, Volume 47 (Current Topics in Membranes)

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Sodium reabsorbing epithelia play a major role in whole-body sodium homeostasis. Some examples of sodium regulating tissues include kidney, colon, lung, and sweat ducts. Sodium transport across these membranes is a two-step process: entry through an amiloride-sensitive sodium channel and exit via the ouabain-sensitive sodium/potassium ATPase. The sodium entry channels are the rate-limiting determinant for transport and are regulated by several different hormones. The sodium channels also play a significant role in a number of disease states, like hypertension, edema, drug-induced hyperkalemia, and cystic fibrosis. **Amiloride-Sensitive Sodium Channels: Physiology and Functional Diversity** provides the first in-depth exchange of ideas concerning these sodium channels, their regulation and involvement in normal and pathophysiological situations.

Key Features
* Summarizes current state of amiloride-sensitive sodium channel field
* Analyzes structure-function of epithelial sodium channels
* Discusses immunolocalization of epithelial sodium channels
* Examines hormonal regulation of sodium channels
* Discusses sodium channels in lymphocytes, kidney, and lung
* Considers mechanosensitivity of sodium channels
* Provides ideas on sodium channels and disease

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