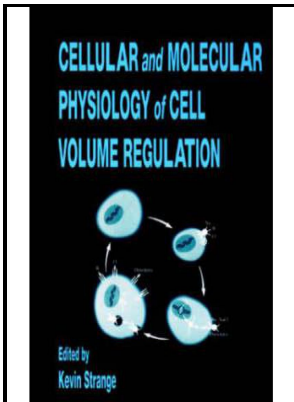


Cell volume regulation

Karger - Cell Volume Regulation Modulates NLRP3 Inflammasome Activation



Description: -

-
Water-Electrolyte Balance.
Osmotic Pressure.
Cells -- physiology.
Cell Membrane Permeability.
Biological Transport.
Cell membranes.
Biological transport -- Regulation.
Cellular control mechanisms. Cell volume regulation

-
vol. 4

Comparative physiology ; Cell volume regulation

Notes: Includes bibliographical references and index.

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Tags: #Cell #Volume #Regulation #Modulates #NLRP3 #Inflammasome #Activation

Cell volume regulation: osmolytes, osmolyte transport, and signal transduction

Thus, culture medium osmolarity was implicated as a key factor affecting embryo development, in particular being crucial in eliminating in vitro developmental blocks.

Cell Volume Regulation Modulates NLRP3 Inflammasome Activation

This raises the question of how oocytes control their volumes before glycine transport becomes activated. Water would enter the cell down its concentration gradient and the cell would tend to swell. In somatic cells, MAP kinase pathways are major players in sensing hypertonicity and mediating cellular adaptive responses ;.

Osmosis, Water Channels, and the Regulation of Cell Volume

When a cell maintaining normal physiological volume A suffers a volume decrease B, its typical initial response is to activate transporters of ions such as Na⁺, K⁺, and Cl⁻— to import ions C, D; represented by red circles.

Cell mechanical microenvironment for cell volume regulation

The , called turgor pressure, generated from the entry of water into the cytosol and then into the vacuole pushes the cytosol and the against the resistant cell wall.

Cell Volume Regulation in Immune Cell Function, Activation and Survival

A GLYT1 inhibitor, ORG23798, specifically blocked virtually all glycine transport by 1-cell embryos but does not affect development of these embryos to blastocysts in vitro in KSOM medium. The above argument is valid and applicable to all cells.

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