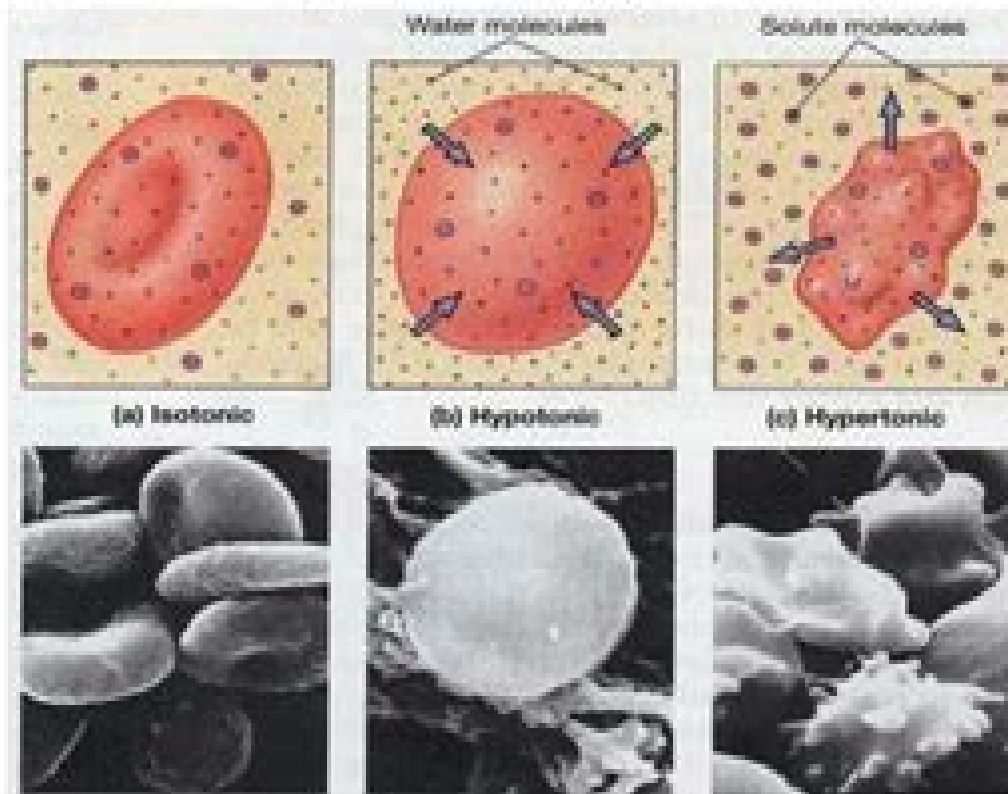


Cell Volume Regulation

Deviations in steady-state cell volume threaten cell integrity.

Cell volume regulation is a compensatory mechanism that prevents uncontrolled cell shrinkage or swelling under anisotonic conditions.



Cell Volume Regulation

Léo Pomar



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Cell Volume Regulation F. Lang, Claudio Ronco, 1998-07 This volume presents a unique compilation of reviews on cell volume regulation in health and disease with contributions from leading experts in the field The topics covered include mechanisms and signaling of cell volume regulation and the effect of cell volume on cell function with special emphasis on ion channels and transporters kinases and gene expression Several chapters elaborate on how cell volume regulatory mechanisms participate in the regulation of epithelial transport urinary concentration metabolism migration cell proliferation and apoptosis Last but not least this publication is an excellent guide to the role of cell volume in the pathophysiology of hypercatabolism diabetes mellitus brain edema hemoglobinopathies tumor growth and metastasis to name just a few Providing deeper insights into an exciting area of research which is also of clinical relevance this publication is a valuable addition to the library of those interested in cell volume regulation

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Cellular and Molecular Physiology of Cell Volume Regulation Kevin Strange, 2020-01-16 The ability to regulate cell volume in the face of osmotic challenge is one of the most fundamental of cellular homeostatic mechanisms Cellular and Molecular Physiology of Cell Volume Regulation is an integrated collection of articles describing key aspects of cell volume control The book has been organized around concepts and cellular molecular processes rather than around mechanisms of volume regulation in specific cell types in order to make it more accessible to a multidisciplinary audience of students instructors and researchers

Cell Volume Regulation Yasunobu Okada, 1998 Hardbound Cell volume regulation is of fundamental importance to animal cells since persistent swelling or shrinkage results in cell death Osmotic perturbation confronts the cells with the problem of volume regulation because most animal cell membranes are highly permeable to water A number of cellular physiological activities are associated with osmotic perturbation to cells Those include active solute uptake by enterocytes renal tubular cells or hepatocytes fluid and electrolyte secretion by glandular cells cell mitogenesis or proliferation cell differentiation hormonal action on hepatocytes lymphocytes or cardiac myocytes excitation in neurons and glutamate receptor activation in brain neurons or glial cells Also in kidney medulla and intestinal tissues not only epithelial cells but also blood and mesenchymal cells may be subject to osmotic stress induced by increased extracellular osmolality Under pathological conditions cel

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