

1. Record Nr.	UNINA9910144012503321
Titolo	Proton passage across cell membranes
Pubbl/distr/stampa	Chichester, Sussex, U.K. ; ; New York, : Wiley, 1988
ISBN	9786612122347 9781282122345 1282122347 9780470513699 0470513691 9780470513705 0470513705
Descrizione fisica	1 online resource (280 p.)
Collana	Ciba Foundation symposium ; ; 139
Altri autori (Persone)	BockGregory MarshJoan
Disciplina	574.87/5
Soggetti	Biological transport Protons Cell membranes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Proceedings of the Symposium on Proton Passage across Cell Membranes, held at the Ciba Foundation, London, 9-11 Feb. 1988. Edited by Gregory Bock and Joan Marsh. "A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographies and indexes.
Nota di contenuto	PROTON PASSAGE ACROSS CELL MEMBRANES; Contents; Participants; Introduction; Movement of acid equivalents across the mammalian smooth muscle cell membrane; Regulation of intracellular pH in cardiac muscle; Ionic mechanisms of intracellular pH regulation in the nervous system; Differential role of cation and anion exchange in lymphocyte pH regulation; General discussion I; Role of monocarboxylate transport in the regulation of intracellular pH of renal proximal tubule cells; Mechanisms of basolateral base transport in the renal proximal tubule Electrogenic proton transport by intercalated cells of tight urinary epithelia Epithelial pH and ion transport regulation by proton pumps

and exchangers; General discussion II; Proton channels in snail neurons studied with surface pH glass microelectrodes; General discussion III; Proton-induced transformation in gating and selectivity of the calcium channel in neurons; Aldosterone-controlled linkage between Na⁺/H⁺-exchange and K⁺ channels in fused renal epithelial cells; Extracellular pH and stimulated neurons; General discussion IV
Structural properties of the proton translocating complex of the clathrin-coated vesicle
General discussion V; Summary; Index of contributors; Subject index

Sommario/riassunto

Regulation of intracellular pH is vital to all living cells. This symposium covers the control of pH in muscle and nerve cells and the different mechanisms of acid transport across epithelial and other cell membranes. Papers describe the development and application of microelectrodes and various techniques in molecular biology to the study of the mechanisms of protein transport. Also discusses the significance of pH regulation for the action of hormones and growth factors.
