

1. Record Nr.	UNINA9910828254603321
Titolo	Brush border membranes
Pubbl/distr/stampa	London, : Pitman, c1983
ISBN	9786613694416 9781280784026 1280784024 9780470720769 047072076X 9780470718469 0470718463
Edizione	[1st ed.]
Descrizione fisica	1 online resource (352 p.)
Collana	Ciba Foundation symposium ; ; v. 95
Altri autori (Persone)	PorterRuth CollinsGeralyn M
Disciplina	611.0181 611/.0181
Soggetti	Cell membranes Cell physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Editors: Ruth Porter (Organizer) and Geralyn M. Collins. Proceedings of Symposium on: Brush border membranes held at the Ciba Foundation, London, 8-10 June 1982.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Brush border membranes; Contents; Chairman's introduction; Introductory remarks on the brush border; Microvillar endopeptidase, an enzyme with special topological features and a wide distribution; Discussion; Aminopeptidases and proteolipids of intestinal brush border; Discussion; Structure of microvillar enzymes in different phases of their life cycles; Discussion; Specific labelling of the hydrophobic domain of rat renal γ -glutamyl transferase; Discussion; Biosynthesis and assembly of the largest and major intrinsic polypeptide of the small intestinal brush borders; Discussion Use of monoclonal antibodies in the study of intestinal structure and function Discussion; Biosynthesis and transport of plasma membrane glyco- proteins in the rat intestinal epithelial cell: studies with sucrase-

isomaltase; Discussion; GENERAL DISCUSSION I Biosynthesis and assembly of brush border proteins: (i) some co-translational models for protein insertion into membranes; molecular sizes of brush border enzymes during assembly; Distribution of enteropeptidase and aminopeptidase to non-brush border sites; General functions of the enterocyte

Molecular architecture of the microvillus cytoskeleton Discussion; Structure of human placental microvilli; Discussion; Regulation of cytoskeletal structure and contractility in the brush border; Discussion; Characterization of membrane glycoproteins involved in attachment of microfilaments to the microvillar membrane; Discussion; Structural and functional relationship between the membrane and the cytoskeleton in brush border microvilli; Discussion; GENERAL DISCUSSION II A pathological condition due to congenital disorganization of the brush border

Conformational changes in the a-subunit, and cation transport by Na^+ , K^+ -ATPase Discussion; Properties of immunoglobulin G-Fc receptors from neonatal rat intestinal brush borders; Immunoglobulin G receptors of intestinal brush borders from neonatal rats; Discussion after the preceding two papers; Cotransport systems in the brush border membrane of the human placenta; Discussion; GENERAL DISCUSSION III Cytoskeleton and membrane-cytoskeleton interactions; The importance of structure for understanding the biosynthetic process; Future advances in study of brush border cytoskeleton

Photo-affinity labeling to identify components of the neutral amino acid carrier in the intestinal microvillar membrane Chairman's closing remarks; Index to contributors; Subject index

Sommario/riassunto

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