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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 $\gamma$ -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  $\alpha$ -subunit, and cation transport by  $\text{Na}^+$ ,  $\text{K}^+$ -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

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