



## Capillary Electrophoresis of Carbohydrates

By -

Humana Press. Hardcover. Book Condition: New. Hardcover. 318 pages. Dimensions: 9.1in. x 6.2in. x 1.1in. Glycoconjugates such as glycoproteins and glycolipids play important roles in cell-cell interaction events, including development, differentiation, morphogenesis, fertilization, inflammation, and metastasis. A number of reports have documented the association of unique oligosaccharide sequences to protein targeting and folding, and in mechanisms of infection, inflammation, and immunity. For glycoproteins, these glycan appendages are the result of extensive co- or post-translational modifications of the nascent proteins in the endoplasmic reticulum and in the Golgi apparatus. Although nucleic acids and proteins are copied from a template in a repeated series of identical steps using the same enzymes, complex carbohydrates are formed by the sequential actions of cellular glycosyltransferases that specifically recognize unique substrates. The molecular biology of these transferases and other carbohydrate-modifying enzymes is providing important insights on oligosaccharide recognition events. While it is acknowledged that the definition of the protein complement of cells and tissues (the so-called proteome) remains an enormous task in this postgenomic era, the characterization of all glycans produced by individual organisms (referred to as the glycome) presents an equally important challenge. This task is further complicated by the fact...



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