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Titolo	Biochemical Roles of Eukaryotic Cell Surface Macromolecules / / edited by Abhijit Chakrabarti, Avadhesha Surolia
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Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 842
Disciplina	574.87
Soggetti	Chemistry, Organic Biological transport Cell membranes Organic Chemistry Membrane Trafficking
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Human-Specific Evolutionary Changes in the Biology of Siglecs -- Structural Changes of GPI Anchor After Its Attachment to Proteins : Functional Significance -- Novel Insights In Membrane Biology Utilizing Fluorescence Recovery After Photobleaching -- Defects in Erythrocyte Membrane Skeletal Architecture -- Membrane Rafts in the Erythrocyte Membrane: A Novel Role of MPP1p55 -- Immuno-Modulatory Role of Porins: Host Immune Responses, Signalling Mechanisms and Vaccine Potential -- Vibrio cholerae Cytolysin: Structure-Function Mechanism of an Atypical -barrel Pore-Forming Toxin -- New vis-tas in Lactosylceramide Research -- Plasma Membrane-Associated Sialidase Confers Cancer Initiation, Promotion and Progression -- A Signal with a Difference: The Role of GPI Anchor Signal Sequence in Dictating Conformation and Function of the Als5 Adhesin in Candida albicans -- Novel Chondroitin Sulfate Oligosaccharide Motifs as Biomarkers: Insights Into Their Involvement in Brain Development -- Role of Hyaluronidases in the Catabolism of Chondroitin Sulfate -- Pattern Recognition in Legume Lectins to Extrapolate Amino Acid Variability to Sugar Specificity -- Conformational Dynamics of Oligosaccharides Characterized by Paramagnetism-Assisted NMR Spectroscopy in

Conjunction with Molecular Dynamics Simulation -- Characterization of Cholesterol Crystalline Domains in Model and Biological Membranes Using X-Ray Diffraction -- Role of Lipid-Mediated Effects in 2-Adrenergic Receptor Dimerization -- Effect of Temperature on the Phase Behaviour of Fully Saturated DAPC Lipid Bilayer: A Comparative Molecular Dynamics Simulation Study -- Biophysical Characterization of the Interaction of O-acylcholines with the Major Bovine Seminal Plasma Protein, PDC-109 -- Crystal Structure of Apo and Ligand Bound Vibrio cholerae Ribokinase (Vc-RK): Role of Monovalent Cation Induced Activation and Structural Flexibility in Sugar Phosphorylation -- Synthetic Glycolipids and (p)ppGpp Analogs:Development of Inhibitors for Mycobacterial Growth, Biofilm and Stringent Response -- Regulations of Glycolipid : Glycosyltransferase (GSL: GLTs) Genes Involved in SA-LeX and Related GSLs Biosysthesis in Carcinoma Cells by Biosimilar Apoptotic Agents : Potential Anticancer Drugs -- N-acetylglucosaminyl 1-phosphate Transferase: An Excellent Target for Developing New Generation Breast Cancer Therapeutic -- Involvement of Vascular Endothelial Growth Factor in Serotonin 1A Receptor-Mediated Neuroproliferation in Neonatal Mouse Hippcampus -- Structural Heterogeneity of Glycoform of Alpha-1 Acid Glycoprotein in Alcoholic Cirrhosis Patients.

Sommario/riassunto

Consists of critical reviews and original research papers from the 2014 International Symposium on the "Biochemical Role of Eukaryotic Cell Surface Macromolecules". Topics covered include: · neurochemical and biochemical analysis of cell surface glycoconjugates · membrane skeletal organization · GPCRs and other receptors · biophysical approaches to study membrane interactions · glycoconjugate metabolism · dysregulation · molecular mechanisms involved in cell-cell and cell-matrix interaction · glycans in infectious and neurological diseases · cancer and glycosyltransferases as drug targets.