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Components in Living Cell Membranes; Chapter 3: Functional Role of Membrane Lipids in EGF Receptor Dynamics and Regulation; Chapter 4: Tetraspanins as Master Organizers of the Plasma Membrane; Chapter 5: B Cell Receptor Signaling; Chapter 6: Imaging the Complexity, Plasticity, and Dynamics of Caveolae
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Chapter 14: Development of Optical Highlighter Fluorescent Proteins and Their Applications in Super-Resolution Fluorescence MicroscopyChapter 15: Targeting Dyes for Biology; Chapter 16: Combined Topography, Recognition, and Fluorescence Measurements on Cells; Chapter 17: Super-Resolution Imaging with Single-Molecule Localization; Chapter 18: Visualization and Resolution in Localization Microscopy; Chapter 19: Molecular Plasma Membrane Dynamics Dissected by STED Nanoscopy and Fluorescence Correlation Spectroscopy (STED-FCS)
Chapter 20: Nanophotonic Approaches for Nanoscale Imaging and Single-Molecule Detection at Ultrahigh ConcentrationsBack Cover

Sommario/riassunto

Cell Membrane Nanodomains: From Biochemistry to Nanoscopy describes recent advances in our understanding of membrane organization, with a particular focus on the cutting-edge imaging techniques that are making these new discoveries possible. With contributions from pioneers in the field, the book explores areas where the application of these novel techniques reveals new concepts in biology. It assembles a collection of works where the integration of membrane biology and microscopy emphasizes the interdisciplinary nature of this exciting field.Beginning with a broad description of membrane orga
