

In order to study living cells and their component molecules, two basic strategies have emerged in recent years. The first is to apply a soluble marker molecule, a 'probe', that partitions to a particular cellular domain, and which can subsequently be measured. The second is to chemically or genetically modify a molecule of interest with a built-in probe, which is then called a 'tag'.

This handy reference systematically reviews current experimental methods and enables researchers to select the best solution for their experimental problems. For each method covered, the book provides step-by-step protocols, illustrated by typical research applications. Commencing with probing the lipid bilayer, the text then moves on to discuss probing proteins – including membrane proteins – and nucleic acids. This is the first single publication to incorporate chemical markers, fluorescent probes and genetic tags to allow a well-informed comparison of different solutions for similar problems in molecular analytics.



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