



Bioconjugate Techniques, Second Edition

By Greg T. Hermanson

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Bioconjugate Techniques, 2nd Edition, is the essential guide to the modification and cross linking of biomolecules for use in research, diagnostics, and therapeutics. It provides highly detailed information on the chemistry, reagent systems, and practical applications for creating labeled or conjugate molecules. It also describes dozens of reactions with details on hundreds of commercially available reagents and the use of these reagents for modifying or cross linking peptides and proteins, sugars and polysaccharides, nucleic acids and oligonucleotides, lipids, and synthetic polymers.

*A one-stop source for proven methods and protocols for synthesizing bioconjugates in the lab

*Step-by-step presentation makes the book an ideal source for researchers who are less familiar with the synthesis of bioconjugates

*More than 600 figures that visually describe the complex reactions associated with the synthesis of bioconjugates

*Includes entirely new chapters on the latest areas in the field of bioconjugation as follows:

Microparticles and nanoparticles

Silane coupling agents

Dendrimers and dendrons

Chemoselective ligation

Quantum dots

Lanthanide chelates

Cyanine dyes

Discrete PEG compounds

Buckyballs, fullerenes, and carbon nanotubes

Mass tags and isotope tags

Bioconjugation in the study of protein interactions

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