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Aldehydes; 7. Bis-epoxides; 8. Homobifuncrional Hydrazides; 9. Bis-diazonium Derivatives; 10. Bis-alkylhalides; Chapter 5. Heterobifunctional Cross-linkers; 1. Amine-Reactive and Sulfhydryl-Reactive Cross-linkers; 2. Carbonyl-Reactive and Sulfhydryl-Reactive Cross-linkers; 3. Amine-Reactive and Photoreactive Cross-linkers; 4. Sulfhydryl-Reactive and Photoreactive Cross-linkers; 5. Carbonyl-Reactive and Photoreactive Cross-linkers; 6. Carboxylate-Reactive and Photoreactive Cross-linkers
7. Arginine-Reactive and Photoreactive Cross-linkersChapter 6. Trifunctional Cross-linkers; 1. 4-Azido-2-nitrophenylbiocytin-4-nitrophenyl ester; 2. Sulfo-SBED; Chapter 7. Cleavable Reagent Systems; 1. Cleavage of Disulfides by Reduction; 2. Periodate-Cleavable Glycols; 3. Dithionite-Cleavable Diazo Bonds; 4. Hydroxylamine-Cleavable Esters; 5. Base Labile Sulfones; Chapter 8. Tags and Probes; 1. Fluorescent Labels; 2. Bifunctional Chelating Agents and Radioimmunoconjugates; 3. Biotinylation Reagents; 4. lodination Reagents; Part III: Bioconjugate Applications
Chapter 9. Preparation of Hapten-Carrier Immunogen Conjugates1. The Basis of Immunity; 2. Types of Immunogen Carriers; 3. Carbodiimide-Mediated Hapten-Carrier Conjugation; 4. NHS Ester-Mediated Hapten-Carrier Conjugation; 5. NHS Ester-Maleimide Heterobifunctional Cross-linker- Mediated Hapten-Carrier Conjugation; 6. Active-Hydrogen-Mediated Hapten-Carrier Conjugation; 7. Glutaraldehyde-Mediated Hapten-Carrier Conjugation; 8. Reductive-Amination-Mediated Hapten-Carrier Conjugation; Chapter 10. Antibody Modification and Conjugation; 1. Preparation of Antibody-Enzyme Conjugates
2. Preparation of Labeled Antibodies

Sommario/riassunto

Bioconjugate Techniques is the essential guide to the modification and crosslinking 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 crosslinking peptides and proteins, sugars and polysaccharides, nucleic acids and oligonucleotides, lipids, and synthetic polymers. Armed with this i

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Descrizione fisica	1 online resource (306 pages) : illustrations
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Sommario/riassunto	The cyclic nucleotides 3',5'-adenosine monophosphate (cAMP) and 3', 5'-cyclic guanosine monophosphate (cGMP) play important roles in the control of cardiovascular function under physiological and pathological conditions. In this book, which is a reprint of a Special Issue of the Journal of Cardiovascular Development and Disease entitled "Cyclic Nucleotide Signaling and the Cardiovascular System", internationally recognized experts give an overview of this vibrant scientific field. The first series of articles deal with the localization and function of membrane-bound and soluble adenylate cyclases, followed by articles on the roles of phosphodiesterase isoforms in the heart. Cyclic nucleotide signaling takes place in nanodomains and the A-kinase anchor proteins (AKAPS) are essential for the compartmentalized assembly of signaling proteins into functional complexes. Reviews on the role of AKAP proteins in the physiology and pathophysiology of the heart are also included in this book. Cyclic nucleotides act through effector proteins and articles on EPAC and POPDC proteins inform the reader of recent developments on these topics. A major advancement in our understanding of cyclic nucleotide signaling came through the use of genetically encoded cAMP sensor molecules, and a series of articles review the current insight that these reporter molecules have provided. The final set of articles in this book deals with the association

of the cyclic nucleotide pathway and cardiovascular disease as well as the development of novel therapeutic approaches.