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Titolo	Antibody-drug conjugates and cellular metabolic dynamics // edited by Shuqing Chen, Jinbiao Zhan
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Descrizione fisica	1 online resource (IX, 135 p. 1 illus.)
Disciplina	571.96028
Soggetti	Biology—Technique Experimental immunology Pharmaceutical chemistry Medicine—Research Biology—Research Cytology Clinical biochemistry Immunoconjugates Immunotherapy Immunologic Techniques Chemistry, Pharmaceutical Immunological Techniques Pharmaceutics Biomedical Research Cell Biology Medical Biochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Antibody-Drug Conjugates Basic Concepts and Structures -- Relationship between target and specific action of antibody-drugs conjugates -- The internalization and therapeutic activity of antibody drug conjugate -- The internalization and intracellular trafficking of ADC -- Distribution and metabolism of antibody-drug conjugates -- Application of Antibody fragments in ADCs -- Novel Targeting Carriers

in Antibody-drug Conjugates -- Site-specified Conjugating Technology and Application -- Determination of drug-to-antibody ratio of ADCs -- Pharmacokinetic study of antibody-drug conjugates.

Sommario/riassunto

This book summarizes the related research achievements in Antibody-drug conjugates (ADCs) and their cell metabolism kinetics. The book has three main parts. The first part describes the basic theory of ADCs, including the basic concept and structure of ADCs, and the relationship between the targets of ADCs and their specific functions. The second part mainly introduces the endocytosis and intracellular metabolism of ADCs, including the relationship between endocytosis and ADC activity, the endocytosis and intracellular transport of ADCs, the distribution and metabolism of ADC in vivo. Then it discusses the new formats and research technology of ADCs, including the application of miniaturized antibodies in ADC synthesis, novel carriers for ADC design, the technology and application of site-specific conjugation, and approaches for analyzing the drug: antibody ratio (DAR), the study of pharmacokinetics of ADCs. This book combines the basic theory with the research technology. It can be used as a reference book for students, teachers and researchers of biomedical field.
