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Nota di contenuto	Humanization of recombinant antibodies / Jose W. Saldanha -- Immunogenicity assessment of antibody therapeutics / Philippe Stas [and others] -- In vitro screening for antibody immunogenicity / Frank J. Carr and Matthew B. Baker -- Antibody libraries from naive V gene sources / Gerald Beste and David Lowe -- Antibodies from IgM libraries / Stefan Knackmuss and Vera Molkenthin -- Generation and screening of synthetic human combinatorial antibody library HuCAL GOLD / Ingo M. Klagge -- Therapeutic antibodies from XenoMouse transgenic mice / Aya Jakobovits -- VelocImmune : immunoglobulin variable region humanized mice / Andrew Murphy -- Mechanisms of tumour cell killing by therapeutic antibodies / Ross Stewart and Carl Webster -- Optimization of Fc domains to enhance antibody therapeutics / Greg A. Lazar and Aaron K. Chamberlain -- Glycoengineered therapeutic

antibodies / Peter Brunker, Peter Sondermann, and Pablo Umana -- Monoclonal antibodies for the delivery of cytotoxic drugs / David J. King.

Immunotherapy with radio-immune conjugates / Christina A. Kousparou and Agamemnon A. Epenetos -- Immunotherapeutic antibody fusion proteins / Nigel S. Courtenay-Luck and David Jones -- Alternative antibody formats / Fabrice Le Gall and Melvyn Little -- Single-domain antibodies / Serge Muyldermans, Gholamreza Hassanzadeh Ghassabeh, and Dirk Saerens -- Engineering of non-CDR loops in immunoglobulin domains / Florian Ruker and Gordana Wozniak-Knopp -- Alternative scaffolds : expanding the options of antibodies / Andreas Pluckthun -- Polymer fusions to increase antibody half-lives : PEGylation and other modifications / Sam P. Heywood and David P. Humphreys -- Extending antibody half-lives with albumin / Jan Terje Andersen and Inger Sandlie -- A stem cell-based platform for the discovery and development of antitumor therapeutic antibodies to novel targets / Jennie P. Mather [and others] -- Antibody directed enzyme prodrug therapy (ADEPT) / Helen L. Lowe [and others] -- Immune privilege and tolerance -- therapeutic antibody approaches / Daron Forman [and others] -- Antibody therapeutics : business achievements and business outlook / Christophe Bourrilly.

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### Sommario/riassunto

Recombinant Antibodies for Immunotherapy provides a comprehensive overview of the field of monoclonal antibodies (mAbs), a market that has grown tremendously in recent years. Twenty-five articles by experienced and innovative authors cover the isolation of specific human mAbs, humanization, immunogenicity, technologies for improving efficacy, 'arming' mAbs, novel alternative Ab constructs, increasing half-lives, alternative concepts employing non-immunoglobulin scaffolds, novel therapeutic approaches, a market analysis of therapeutic mAbs, and future developments in the field. The concepts and technologies are illustrated by examples of recombinant antibodies being used in the clinic or in development. This book will appeal to both newcomers and experienced scientists in the field, biology and biotechnology students, research and development departments in the pharmaceutical industry, medical researchers, clinicians, and biotechnology investors.

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