

Contents

1	Translational Strategies for Development of Antibody-Based Therapeutics: An Overview	1
	Mohammad Tabrizi, Gadi Gazit Bornstein and Scott L. Klakamp	
2	Discovery Process for Antibody-Based Therapeutics	9
	Heather H. Shih	
3	Technologies for the Generation of Human Antibodies	33
	Ramesh R. Bhatt, John S. Haurum and C. Geoffrey Davis	
4	Application of Antibody Engineering in the Development of Next Generation Antibody-Based Therapeutics	65
	Randall J. Brezski and Juan Carlos Almagro	
5	Biophysical Considerations for Development of Antibody-Based Therapeutics	95
	Andrew W. Drake and Giuseppe A. Papalia	
6	Considerations in Establishing Affinity Design Goals for Development of Antibody-Based Therapeutics	141
	Mohammad Tabrizi	
7	Bioanalytical Considerations for Development of Antibody-Based Therapeutics: Pharmacokinetics and Immunogenicity	153
	Cherryl B. Funelas and Scott L. Klakamp	

8	Preclinical Considerations for Development of Antibody-Based Therapeutics in Oncology	183
	Gregory Landes and Kathleen Elias	
9	Factors Impacting the Tumor Localization and Distribution of Antibody-Based Therapeutics in Oncology	241
	David C. Blakey	
10	Preclinical Safety Considerations for the Development of Antibody-Based Therapeutics	255
	Lolke de Haan	
11	Application of Pharmacokinetic/Pharmacodynamic Modeling in the Development of Antibody-Based Therapeutics	285
	Donald E. Mager	
12	Application of Population Pharmacokinetic-Pharmacodynamic Approaches in the Design of Translational Strategies for Development of Antibody-Based Therapeutics	303
	Feng Jin	
13	Translational Biomarkers: Essential Tools in Development of Antibody-Based Therapeutics	331
	Mohammad A. Tabrizi and Cheryl B. Funelas	
14	Translational Research in Alzheimer’s Disease for Development of Antibody-Based Therapeutics	341
	Eric C. Yuen, Enchi Liu and Gene G. Kinney	
15	Considerations in Manufacturing Process Development for Antibody-Based Therapeutics	355
	Paula C. Miller and Peiling Xu	
16	Strategies for Development of Next Generation Antibody-Based Therapeutics	375
	Mohammad Tabrizi and Gadi Gazit Bornstein	
17	Immune Complex Therapies for Treatment of Immune Thrombocytopenia	391
	Rong Deng and Joseph P. Balthasar	

18 Application of Bioinformatics Principles for Target Evaluation	405
Anthony Carvalloza, Mohammad Fallahi and Sahba Tabrizifard	
19 Concluding Remarks	419
Mohammad Tabrizi, Gadi Gazit Bornstein and Scott L. Klakamp	
Editors Biography	423
Index	425



<http://www.springer.com/978-1-4419-5953-9>

Development of Antibody-Based Therapeutics
Translational Considerations

Tabrizi, M.A.; Bornstein, G.G.; Klakamp, S.L. (Eds.)

2012, XIV, 426 p., Hardcover

ISBN: 978-1-4419-5953-9