
Contents

<i>Preface</i>	<i>v</i>
<i>Contributors</i>	<i>ix</i>
1 Antibody–Drug Conjugate (ADC) Clinical Pipeline: A Review.....	1
<i>Ingrid Sassoon and Véronique Blanc</i>	
2 Antibody–Drug Conjugate Target Selection: Critical Factors	29
<i>Neil H. Bander</i>	
3 Selecting an Optimal Antibody for Antibody–Drug Conjugate Therapy: Internalization and Intracellular Localization	41
<i>Jay Harper, Shenlan Mao, Patrick Strout, and Adeela Kamal</i>	
4 Antibody–Drug Conjugate Payloads	51
<i>Jan Anderl, Heinz Faulstich, Torsten Hechler, and Michael Kulke</i>	
5 Linker Technologies for Antibody–Drug Conjugates	71
<i>Birte Nolting</i>	
6 In Vivo Testing of Drug-Linker Stability	101
<i>Pierre-Yves Abecassis and Céline Amara</i>	
7 Pharmacokinetics and ADME Characterizations of Antibody–Drug Conjugates	117
<i>Kedan Lin, Jay Tibbitts, and Ben-Quan Shen</i>	
8 Safe Handling of Cytotoxic Compounds in a Biopharmaceutical Environment.....	133
<i>Miriam I. Hensgen and Bernhard Stump</i>	
9 Micro- and Mid-Scale Maleimide-Based Conjugation of Cytotoxic Drugs to Antibody Hinge Region Thiols for Tumor Targeting	145
<i>James E. Stefano, Michelle Busch, Lihui Hou, Anna Park, and Diego A. Gianolio</i>	
10 Protocols for Lysine Conjugation	173
<i>Marie-Priscille Brun and Laurence Gauzy-Lazo</i>	
11 Engineering THIOMABs for Site-Specific Conjugation of Thiol-Reactive Linkers.	189
<i>Sunil Bhakta, Helga Raab, and Jagath R. Junutula</i>	
12 Enzymatic Antibody Modification by Bacterial Transglutaminase.....	205
<i>Patrick Dennler, Roger Schibli, and Eliane Fischer</i>	
13 Formulation Development of Antibody–Drug Conjugates	217
<i>William J. Galush and Aditya A. Wakankar</i>	
14 Conjugation Process Development and Scale-Up	235
<i>Bernhard Stump and Jessica Steinmann</i>	
15 Methods for Conjugating Antibodies to Nanocarriers	249
<i>Anil Wagh and Benedict Law</i>	
16 Drug-to-Antibody Ratio (DAR) by UV/Vis Spectroscopy	267
<i>Yan Chen</i>	

17	Drug-to-Antibody Ratio (DAR) and Drug Load Distribution by Hydrophobic Interaction Chromatography and Reversed Phase High-Performance Liquid Chromatography	275
	<i>Jun Ouyang</i>	
18	Drug-to-Antibody Ratio (DAR) and Drug Load Distribution by LC-ESI-MS	285
	<i>Louissette Basa</i>	
19	Determination of Charge Heterogeneity and Level of Unconjugated Antibody by Imaged cIEF	295
	<i>Joyce Lin and Alexandru C. Lazar</i>	
20	Risk-Based Scientific Approach for Determination of Extractables/Leachables from Biomanufacturing of Antibody–Drug Conjugates (ADCs)	303
	<i>Weibing Ding</i>	
	<i>Index</i>	313

Antibody-Drug Conjugates

Ducry, L. (Ed.)

2013, X, 317 p. 96 illus., 42 illus. in color., Hardcover

ISBN: 978-1-62703-540-8

A product of Humana Press