Contents

Part I Natural Product Drugs and Cancer Therapeutics

1 The Impact of Natural Products Upon Cancer Chemotherapy ......................................................... 3
   A. Ganesan

2 Identification and Development of Vascular Disrupting Agents: Natural Products That Interfere with Tumor Growth ........................................................................................................ 17
   Andrea T. Hooper, Frank Loganzo, Chad May, and Hans-Peter Gerber

3 Discodermolide: Past, Present, and Future .................................................................................. 39
   Ross E. Longley

4 HDAC Inhibitors and Other Histone Modifying Natural Products as Emerging Anticancer Agents .................................................. 59
   Lilibeth A. Salvador and Hendrik Luesch

5 Natural Product Cytotoxins as Payloads for Antibody Drug Conjugates ........................................ 97
   Frank E. Koehn

Part II Advances in Natural Product Cancer Drug Discovery

6 Natural Product Scaffolds in Cancer Therapy .......................................................... 123
   Christian P. Mang and Lars Ole Haustedt

7 The Role of Genetic Engineering in Natural Product-Based Anticancer Drug Discovery .......................................................... 175
   Claudia Eva-Maria Unsin, Scott R. Rajski, and Ben Shen
8 Accessing Anti-cancer Natural Products by Plant Cell Culture ...................................................... 193
Lisa M. Leone and Susan C. Roberts

9 Natural Products as Tools for Discovering New Cancer Targets .................................................. 213
John A. Beutler

Index .............................................................................................................................................. 239
Natural Products and Cancer Drug Discovery
Koehn, F.E. (Ed.)
2013, XII, 244 p., Hardcover
ISBN: 978-1-4614-4653-8
A product of Humana Press