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| Collana                 | Cancer drug discovery and development   |
| Altri autori (Persone)  | KoehnFrank E  |
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| Soggetti                | Drugs - Research<br>Drug development<br>Drugs - Design  |
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| Livello bibliografico   | Monografia  |
| Note generali           | Description based upon print version of record.   |
| Nota di bibliografia    | Includes bibliographical references and index.  |
| Nota di contenuto       | pt. I. Natural product drugs and cancer therapeutics -- pt. II. Advances in natural product cancer drug discovery.  |
| Sommario/riassunto      | Natural products- compounds derived from plants, microbes and marine organisms, have been an unsurpassed source of cancer drugs in the modern era of drug discovery. The historical record is strong, but what is the current impact of natural products in the discovery and development of cancer drugs, and importantly what are the prospects for natural products to be a valuable source of future agents? This volume attempts to address this question through a series of chapters authored by leading researchers in the field which effectively provide an in-depth view of several high impact areas of natural products cancer research. The volume begins with a focused analysis and rationale for the clinical success of current natural product anti-cancer drugs. The following chapters then describe new natural product based drugs in three rapidly evolving target classes and modalities- agents which target tumor vasculature, inhibitors of histone deacetylase and other histone modifying enzymes, and antibody drug conjugates. Subsequent chapters examine the central role of natural product chemical scaffolds in the genesis of new anti-cancer |

therapeutics- first via the powerful application of chemical synthesis, and then through the rapidly emerging fields of biosynthetic engineering and plant cell culture. The volume concludes with an assessment of the critical role that natural products continue to play in the search for new cancer drug targets. As the reader makes his or her way through the volume it may become clear that there is strong evidence that natural products will continue to exert a profound positive impact on cancer drug discovery.

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