Record Nr. UNINA9910783218603321 Novel compounds from natural products in the new millennium: Titolo potential and challenges / / editors, Benny K-H Tan, Boon-Huat Bay, Yi-Zhun Zhu Hackensack, N.J.; Hong Kong:,: World Scientific,, 2004 Pubbl/distr/stampa ©2004 **ISBN** 1-281-34759-0 9786611347598 981-256-221-4 Descrizione fisica 1 online resource (xv, 319 pages): illustrations Classificazione 44.38 42.42 Altri autori (Persone) TanBenny K-H BayBoon-Huat ZhuYi-Zhun Disciplina 547.7 660.6 Soggetti Natural products Natural products - Therapeutic use Pharmacognosy Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto 1. Plants in drug discovery creating a new vision / Geoffrey Alan Cordell 2. The Bio-extraction industry in Jamaica: potential and challenges / Trevor Herbert Yee 3. Structural studies of drug metabolising enzymes and the relevance to natural product development / Rupika Delgoda 4. Bioi nformaticsspecies diversity databases: tools for facilitating natural product research / Sudershan Kumar and V idhi Gupta5. From genomes to drugs with bioinformatics / Kuo-Bin Li6. Yeast-based technologies for high through put screening of natural anti-viral agents / Rashi Srivastava and Sunil Kumar Lal7. Use of high-density oligonucleotide microarrays for gene expression profiling in natural product research / George Wai-Cheong Yip8. Limitations of natural pesticides: a challenge to scientists / Ajai Mansingh9. Bioactivity of hexane extract of blighia

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Sommario/riassunto

There is continuing interest in natural products as sources of potentially new and exciting chemical compounds. This book brings together the knowledge, perspectives and research findings of a varied group of scientists on a wide range of topics, from microarrays. genetics and bioinformatics to yeast-based technologies and enzyme studies. Scientists and clinicians in life science research will find useful information on new research techniques and tools. For the agriculturist, there is interesting information on the potential and problems of natural-based pesticides. The cancer researcher will find several plant sources with potential anti-cancer and immunomodulating compounds, as well as a report on two new modalities in cancer therapy -photosensitization with hypericin and immunotherapy. Latest developments of Chinese herbal extracts reported in this book may offer a new alternative therapy in the treatment of cardiovascular diseases. In addition, the later chapters awaken the would-be entrepreneur to the opportunities and challenges of research and development in the natural product industry, with the concluding chapter providing helpful insights into Intellectual Property Law.