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sapida Konig. on the cattle tick, boophilus microplus and the sweet potato weevil, cylas formicarius elegantulus / Arlene Wilson and Ajai Mansingh10. Antibacterial screening of tragia involucrata L. (Euphorbiaceae)a tribal used medicinal plant / Ramar Perumal Samy [and others]11. Effect of crude papaya latex on rats' pregnancy / Adebawale Adebisi and P Ganesan Adaikan12. 1-cyano-2-hydroxy-3-butene: a plant nitrile that induces apoptosis in pancreatic acinar cells and reduces the severity of acute pancreatitis / Madhav Bhatia and Matthew A Wallig13. The liver protective effect of sesamin / Yasuo Kiso and Takatoshi Ishikawa14. Endothelium-dependent vascular relaxation induced by extracts of some Chinese medicinal herbs traditionally used to remove circulatory stagnation: an update / Chiu-Yin Kwan and Paul Chan15. Effect of chronic administration of aqueous azadirachta indica (neem) leaf extract on the cardiovascular system in the rat / Idongesit Obiefuna and Ronald Young. 16. The anti-hypertensive effect of sesamin / Yasuo Matsumura17. Effects of salvia miltiorrhiza after acute myocardial infarction in rats / Xin-Yan Ji [and others]18. The antioxidant and free radical scavenging effects of sesamin / Toshio Moritani19. Anticancer and immunomodulatory potential of DRF-3188, an analogue of andrographolide / Ajaya R Kumar [and others]20. Immunomodulating property of astragalus membranaceus and curcuma aromatica / Agnes Slater and Benny Kwong-Huat Tan21. Induction of breast tumours in rats for assaying natural products for anti-tumour properties / Janet Marlene Menzie22. Cancer diagnosis using the novel photosensitizer, hypericin / Malini Olivo23. Chemopreventive efficacy of apigenin against N-nitrosodiethylamine-induced and phenobarbital-promoted experimental hepatoma / Dhanapal Sakthisekaran and Jeyapal Prince Vijaya Singh24. The effects of saponin from sea cucumber (holothuria atra Jaeger) on CEM-SS T-lymphoblastic cells / Hi ang-Lian Hing [and others]25. Lentinana medically valuable glucan / Ann-Teck Yap and Mah-Lee Ng26. Turmeric and colon cancer / Devasena Thiyagarajan [and others]27. Immunotherapy of bladder cancer using microbes / Ratha Mahendran [and others]28. Modulation of hypericin-based phototoxicity in nasopharyngeal cancer / Hong-Yan Du [and others]29. Research and development of natural products in developing countries: need for venture capital / Victor Hugo Rhone30. Protection of ideas, inventions, trade marks, copyrights and products under the intellectual property law / Catherine Swee-Kian Toy

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.