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Handbook on Drugs from Natural Sources

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About the Book

Natural products have played an important role throughout the world in treating and preventing human diseases. Natural product medicines have come from various materials including terrestrial plants, terrestrial microorganisms, organisms etc. Historical experiences with plants as therapeutic tools have helped to introduce single chemical entries in modern medicine. About 40% of the drugs used are derived from natural sources. Most are pure substances which are isolated from various organisms & used directly or after chemical modification. Natural products will continue to be important in three areas of drug discovery: as targets for production by biotechnology as a source of new lead compounds of novel chemical structure and as the active ingredients of useful treatments derived from traditional systems. Biotechnology will contribute more new natural products for medicinal use. Plants provide a fertile source of natural products many of which are clinically important medicinal agents. Natural products have traditionally provided most of the drugs in use. Despite the achievements of synthetic chemistry and the advances towards rational drug design, natural products continue to be essential in providing medicinal compounds and as starting points for the development of synthetic analogues. With the increasing power of screening programs and the increasing interest in the reservoir of untested natural products, many future drug developments will be based, at least in part, on natural products.

The major contents of the book are plant products produced in cell culture , application of genetic engineering to the production of

pharmaceuticals , anti transpirants and plant growth regulators based , the potential and the problems of marine natural products, marine sterols, plants as a source of anti-inflammatory substances, anti hepatotoxic principles in oriental medicinal plants, immune stimulants of fungi and higher plants, amanita muscaria in medicinal chemistry, ergot alkaloids and their derivatives in medicinal chemistry and therapy, development of drugs from cannabinoids, etc.

This book contains development of new drugs from plants, work on some Thai medicinal plants, plant growth based on Jasmonates, marine sterols, bleomycin and its derivatives, drugs from cannabinoids, bioactive compounds from nature, fungi and higher plants, biological active compounds from British Marine, microbial phytotoxins as herbicides and many more. This book will be very helpful to its readers, upcoming entrepreneurs, scientists, existing industries, technical institutions, druggist etc.

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37. Bot : Acacia catechu Willd. Eng : Cutch tree, M : Khair, H : Khair
38. Bot. : Achyranthes aspera Linn. Eng : Prickly chaff flower, M : Aaghaadaa, H : Latiira
39. Bot : Adhatoda vasica Nees. M : Adulsa, H : Arusha
40. Bot : Aegle marmelos Correa. Eng. Bael Tree,

M : Bel, H : Bel
41. Bot : Allium sativum Linn. Eng : Garlic, M : Lasun,
H : Lasun
42. Bot : Aloe barbadensis Mill. M : Korphad, H : Ghikanvar
43. Bot : Argemone mexicana Linn. Eng : Prickly poppy, Mexican poppy, M : Satyanaashi; Pivla Dhotra, H : Sialkanta
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M : Salai, H : Lubhaan
48. Bot : Butea frondosa, Hindi : Palas, Sanskrit : Palasha
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50. Bot : Caesalpinia crista Linn.
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51. Bot. Name : Calotropis gigantea R Br. M* : Rui, H** : Ak
52. Bot : Cassia fistula Linn. Eng : Indian laburnum,
M : Baahavaa, H : Amaltas
53. Bot : Cassia tora Linn. M : Taakla, H : Chakunda
54. Bot : Carica papaya Linn. Eng : Papaya, M : Papai,
H : Papaya
55. Bot : Celosia argentea Linn. Eng : Quall Grass,
M : Kurdu, H : Sufaid murgha
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61. Bot : Crataeva nurvala Ham M : Vaayvarnaa, H : Varun
62. Bot : Crocus sativus, Hindi : Zaafran, Kesar Sanskrit : Kaisara
63. Bot : Cucumis melo Linn. Eng : Musk melon, Sweet melon,
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70. Bot : Morinda tinctoria Roxb. M : Bartondi, H : Aal
71. Bot : Melia azedarach Linn. Eng. : Persian Lilac, Bead tree,
M : Bakaanaanimb, H : Bakain
72. Bot : Pterocarpus santalinus, Hindi : Lal Chandan,
Sanskrit : Raktachandan
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76. Bot : Withania somnifera, Hindi : Asagandh :
Sanskrit, Ashawgandha

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