

Handbook on Drugs from Natural Sources

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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.

1. An Introduction to Drugs From Natural Products
2. Plant Products Produced In Cell Culture
3. From Toxins to Drugs -venom Proteins as a Guide to the Future Design of Protein Drugs

4. Integrated Approach to Development of New Drugs From Plants and Indigenous Remedies
5. Application of Genetic Engineering to the Production of Pharmaceuticals
6. Target Site Delivery of Herbicidal Compounds
7. Microbes And Microbial Phytotoxins As Herbicides
8. Drug Research Based upon the Leads of the Chinese Traditional Medicine
9. Recent Work on Some Thai Medicinal Plants
10. Antitranspirants and Plant Growth Regulators Based on Jasmonates
11. Immunoregulatory Compounds Derived from Hormones
12. Constituents of Indigenous Medicinal Plants
13. The Potential and the Problems of Marine Natural Products
14. Marine Sterols
15. Biologically-active Compounds from British Marine Algae
16. A New Look At Muscle Relaxants Alternatives To Curare
17. The Search for New Antimicrobial Agents: Unusual Sources
18. Plants as a Source of Anti-inflammatory Substances
19. Bioactive Compounds From Nature
20. Chemistry of Danomycin, An Iron Containing Antibiotic
21. Antineoplastic Agents from Higher Plants: Novel Xanthones from *Psorospermum Febrifugum*
22. Bleomycin And Its Derivatives
23. Antineoplastic Structure-activity
24. Structure-activity Studies in Cardiac Glycosides
25. Current Status of Gossypol, Zoapatanol and Other Plant -derived Fertility Regulating Agents
26. Antihepatotoxic Principles in Oriental Medicinal Plants
27. Immunostimulants of Fungi and Higher Plants
28. Histamine Secretagogue Thapsigargin and Related Compounds
29. Non-equilibrium Opioid Receptor Antagonists
30. Morphine and Related Opioid Analgesics
31. Ergot Alkaloids and their Derivatives in Medicinal Chemistry and Therapy
32. Development of Drugs from Cannabinoids
33. *Amanita Muscaria* in Medicinal Chemistry.
34. *Amanita Muscaria* in Medicinal Chemistry.
35. Bot. : *Acacia Arabica* Hindi : Babul, Sanskrit : Babbula
36. Bot : *Abrus precatorius* Linn. Eng : Indian Liquorice, M : Gunj, H : Ghungehi
37. Bot : *Acacia catechu* Willd. Eng : Cutch tree, M : Khair, H : Khair
38. Bot. : *Achyranthes aspera* Linn. Eng : Prickly chaff flower, M : Aaghadaa, 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

44. Bot : *Asparagus racemosus* Willd. M : Satavari, H : Satawar

45. Bot : *Azadirachta indica*, H : Neem

46. Bot : *Boerhaavia chinensis* Aschers & Schweinf.
Eng : Spreading hogweed, M : Punarnava; Ghetulli, H : Sant

47. Bot : *Boswellia serrata* Roxb. Eng : Indian Olibanum tree, M : Salai, H : Lubhaan

48. Bot : *Butea frondosa*, Hindi : Palas, Sanskrit : Palasha

49. Bot : *Butea monosperma* Taub. Eng : Flame of the Forest, M : Palas, H : Dhak

50. Bot : *Caesalpinia crista* Linn.
Eng : Fever nut, M : Saagurgothaa, H : Karannja

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

56. Bot : *Clerodendron phlomidis* Linn. M : Airan, H : Arni

57. Bot : *Cleome viscosa* Linn. M : Pivli tiivan, H : Hurhur

58. Bot : *Clitoria ternatea* Linn. M : Gokarn, H : Aparajit

59. Bot : *Coriandrum sativum* Linn. M : Dhane, H : Dhaniya

60. Bot : *Costus speciosus* Smith. M : Peva, H : kemuk

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, M : Chibud; Kharbuz, H : Kakani

64. Bot : *Curculigo orchioides*, Hindi : Kali Musli, Sanskrit : Talmuli

65. Bot : *Cuscuta reflexa* Roxbi, M : Aakaashvalli, H : Akasvel

66. Bot : *Evolvulus alsinoides*, Hindi : Shankhahuli, Sanskrit : Shankhapushpi

67. Bot : *Glycyrrhiza glabra*, Hindi : Mulethi, Sanskrit : Yashtimadhu

68. Bot : *Gmelina arborea* Roxb. M : Shiwan, H : Gamari

69. Bot : *Hyoscyamus niger*, H. : Khursani, ajvayan, Sanskrit : Yavani

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

73. Bot : *Raphanus sativces*, Hindi : Muli, Sanskrit : Moolaka

74. Bot : *Trigonella foenum-graceum*, Hindi : Methi, Sanskrit : Methinee

75. Bot : *Viola odorata*, Hindi : Banaphasha, Sanskrit : Banaphasha

76. Bot : *Withania somnifera*, Hindi : Asagandh : Sanskrit, Ashawgandha

About NIIR

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