

# Handbook on Drugs from Natural Sources

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**Format:** paperback

**Code:** NI229

**Pages:** 480

**Price: Rs.1175US\$ 125**

**Publisher:** NIIR PROJECT CONSULTANCY SERVICES

Usually ships within **5** days

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 : 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

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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Sat, 17 May 2025 07:11:19 +0000