



Phytopharmaceuticals: Chemistry and Utilization, 1/e

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About the Book

Humans have used plants since time immemorial for cure of disease and hunting animals. Serutner in 1805 isolated morphine. This was followed by the isolation of quinine in 1820 by Pelletier and Caventou. This formed the base of Phyto-chemical research.

Natural Product Chemistry covers the field of Chromatography, Synthesis, Computer aided drug design and the Phytochemicals from bacterial and marine source. These all provide lead compounds for synthetic development of medicines.

This book includes about 290 phytopharmaceuticals giving their characterization and structure elucidation by modern instrumental methods like UV, IR, HNMR ^{13}C NMR, Ms, HRMS, X-Ray, biosynthesis and synthesis. The material reported is based on the original work of the researchers reported in various national and international journals.

The book is meant for students pursuing courses in Pharmacy, Organic Chemistry, Science and Life sciences. This book will also be useful for professionals in pharmaceutical industry, research organizations, dealing in natural products in research labs and universities, Ayurvedic research including the development of APIs. It will also be useful as a reference by researchers in natural product chemistry in ICMR units, National Laboratories and pharmaceutical industry the world over.

Salient Features

Data for over 300 pharmaceuticals

Physical data of each compound

Synthesis of majority of compounds

Spectroscopic data for analysis

Uses of all compounds.

Complete reference of phytopharmaceuticals.

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About the Author

Jagdev Singh :- M. Pharm., PhD, has a long research and development experience on plant based medicinal and synthetic pharmaceuticals. He retired in 1996 as scientist 'F' and project leader from regional research laboratory (Jammu), CSIR (now Indian Institute of Integrative Medicine). During his R&D. career, he earned a short term UN/Do assignment in Vietnam for creation of experimental facilities for production of vegetable dyes. He was also a CNRS-exchange scientist to France.

After retirement, he was instrumental in establishing pharmacy degree institutions in Mehsana (Gujarat), Alampur (Faridabad), Gurgaon (Haryana), Agra and Greater Noida (UP). Presently, he is consultant to some pharmacy institutes and industrial houses like Dhampur Speciality sugars and Dhampur Alco-chem. Ltd., (UP).

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