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Pharmacognosy is the study of those natural substances, principally plants, that find a use in medicine. Its popularity and recognized authority in all parts of the world where pharmacognosy is studied, his knowledge and grasp of the subject matter is unique. Meticulously referenced and kept up to date by the editor, new contributors brought in to cover new areas together relevant data from numerous sources and provides, in an authoritative and exhaustive manner, cutting-edge information that is relevant to pharmacists, pharmacognosists, complementary practitioners, doctors and nurses alike. The book is a crossroads of the early history of science and technology, the study of plants and their products, medical science and technology, the study of plant-based medicines, the study of the basic and applied science of herbal medicine. The book is a reference work of primary importance to anyone involved in the study of natural products. The book is a reference work of primary importance to anyone involved in the study of natural products.

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Herbal and Traditional Medicine: World Health Organization Regional Office for the Western Pacific 1993/03 lists detailed guidelines for conducting scientific research on the safety and efficacy of herbal medicines. The guidelines, which reflect the consensus reached by 17 experts in pharmacognosy (the study of plants used in traditional medicine) and herbal medicine, are designed to ensure the safety of herbal medicines while also facilitating the search for new pharmaceutical products. Specific research criteria are covered together with general principles of investigation including ethical concerns. The book has three parts. The first discusses the special properties of herbal medicines that need to be considered when designing research protocols. The second part provides detailed guidance on the objectives of research for the execution of a research protocol and the methods of investigations for new clinical studies and for Phase I to Phase IV clinical trials. The third part which forms the core of the book presents three sets of research guidelines: for quality specifications of plant materials and preparations for pharmaceutical and general pharmacological studies of herbal medicines and for toxicity investigations of herbal medicines. Topics covered range from the introduction required to establish identity and quality of plant materials or preparations through the design of appropriate test systems for pharmaceutical studies to detailed advice on the many different toxic, pharmacological, and chemical tests examinations and experimental procedures required in experimental animals and humans to establish the safety of herbal medicines. The guidelines are intended to facilitate work for research scientists and clinicians while also ensuring that the reference points for the governmental industrial and new profit organisations providing pharmaceutical support.

Quality Control and Evaluation of Herbal Drugs: Pak K. K. Medley 2019/08 (Quality Control and Evaluation of Herbal Drugs brings together current thinking and practices for evaluation of several traditional medicinal herbal products. The use of herbal medicines is increasing, with the rate of both developed and developing countries and this book highlights the essential development of quality standards for these medicines. This book includes nature challenges and opportunities for quality evaluation of herbal drugs with several integrated approaches including pharmacology, chemoprophylaxis, duration analysis, stability testing, good practices for manufacturing, clinical aspects, epidemiology, and pharmacopeia-guided drug development. Written by Prof. Pak K. K. Medley, a leader in this field, this book highlights on various methods, techniques, and approaches for evaluating the purity, quality, safety, and efficacy of herbal drugs. The book focuses on the development of traditional Chinese and Western herbal medicines and provides an in-depth examination of the scientific and practical aspects of the analytical methods and techniques used for evaluation and quality control of herbal drugs. The book comprises a detailed analysis of the major factors involved in the development of herbal drug quality control, including the selection of appropriate test systems for pharmacodynamic studies and for Phase I to Phase IV clinical trials. The third part which forms the core of the book presents three sets of research guidelines: for quality specifications of plant materials and preparations for pharmaceutical and general pharmacological studies of herbal medicines and for toxicity investigations of herbal medicines. Topics covered range from the introduction required to establish identity and quality of plant materials or preparations through the design of appropriate test systems for pharmaceutical studies to detailed advice on the many different toxic, pharmacological, and chemical tests examinations and experimental procedures required in experimental animals and humans to establish the safety of herbal medicines. The guidelines are intended to facilitate work for research scientists and clinicians while also ensuring that the reference points for the governmental industrial and new profit organisations providing pharmaceutical support.

Ethnomedicine Inspired Drug Development: Ethnomedicine inspired drug development. Written by Prof. Pulok K. Mukherjee, a leader in this field; the book highlights on various methods, techniques and approaches for evaluating the purity, quality, safety and efficacy of herbal drugs. This book brings together current thinking and practices on the study and use of natural resources for preventative or healing purposes in national health care while providing case studies of widely used herbal remedies and their effects on human health and wellness and the need for the design and performance of methodologically sound clinical trials for the plethora of herbal medicines.

Plant Drug Analysis: Heinrich S. Moldenhauer 2010/11 (Plant Drug Analysis has proven an invaluable and unique aid for all those involved with drug production and analysis, including pharmacists, chemical and pharmaceutical researchers and technicians, drug importers and exporters, governmental/municipal control agencies, and health authorities. From the reviews of the previous edition: "This reviewer would like to recommend this excellent book to all chromatographers, as he considers it highly relevant to the state of the art of modern problems. By means proper is the demonstration of the latest chromatograms of the usual commercial drugs as an aid to testing for identity and purity...this colour plates, each showing a chromatogram and a figure of quality photographs..." (Quoted of Chromatography).

Quantitative Methods for Traditional Chinese Medicine Development: Jia-Xia Xia 2013/04 (Quantitative Methods for Traditional Chinese Medicine Development covers the design and analysis of TCM development from the Western perspective, i.e., evidence-based clinical research and development. The book provides a comprehensive summary of the latest quantitative and statistical methods in TCM development. It also discusses various aspects of TCM development, including the design of experiments, clinical trials, and data analysis. Written by one of the world's leading pharmacologists/researchers, the book covers the pharmacokinetic and pharmacodynamic evaluation of traditional Chinese medicinal drugs. It includes chapters on the statistical evaluation of clinical trials, test performance evaluation, and the design of experiments. The book also considers the role of TCM development in the global market and its influence on the pharmaceutical industry. The book is a valuable resource for researchers, practitioners, and students interested in the development of TCMs, and it provides a comprehensive overview of the latest quantitative and statistical methods used in TCM development.

Quantitative Methods for Traditional Chinese Medicine Development: Shein-Chung Chow 2015/12 (A Western-based approach to analyzing TCMs in recent years, many pharmaceutical companies and clinical research organizations have been focusing on the development of traditional Chinese (herbal) medicines (TCMs) as alternatives to treating critical or life-threatening diseases and as pathways to personalized medicine. Quantitative Methods for Traditional Chinese Medicine Development is the first book entirely devoted to the design and analysis of TCM development from a Western perspective, i.e., evidence-based clinical research and development. The book provides a comprehensive summary of the latest quantitative and statistical methods in TCM development. It also discusses various aspects of TCM development, including the design of experiments, clinical trials, and data analysis. Written by one of the world's leading pharmacologists/researchers, the book covers the pharmacokinetic and pharmacodynamic evaluation of traditional Chinese medicinal drugs. It includes chapters on the statistical evaluation of clinical trials, test performance evaluation, and the design of experiments. The book also considers the role of TCM development in the global market and its influence on the pharmaceutical industry. The book is a valuable resource for researchers, practitioners, and students interested in the development of TCMs, and it provides a comprehensive overview of the latest quantitative and statistical methods used in TCM development.

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Toxicology: Parameters and Considerations: World Health Organization. Regional Office for the Western Pacific 1993/01 sets out detailed guidelines for toxicology. Toxicology is the study of the effects of substances on living organisms, including their metabolism and excretion. It is a field of study that helps determine the safety and efficacy of drugs, chemicals, and other substances that may have harmful effects on living organisms. Toxicology is a crucial aspect of drug development, as it helps ensure that new medicines are safe for use in humans. The book contains guidelines for conducting toxicological studies, including guidelines for conducting acute and chronic toxicity studies, carcinogenicity studies, and reproductive and developmental toxicity studies. It also provides guidelines for conducting biomonitoring studies, which are used to assess the exposure of individuals to toxic substances. The book is a valuable resource for researchers, practitioners, and students interested in toxicology, and it provides a comprehensive overview of the latest guidelines for conducting toxicological studies.