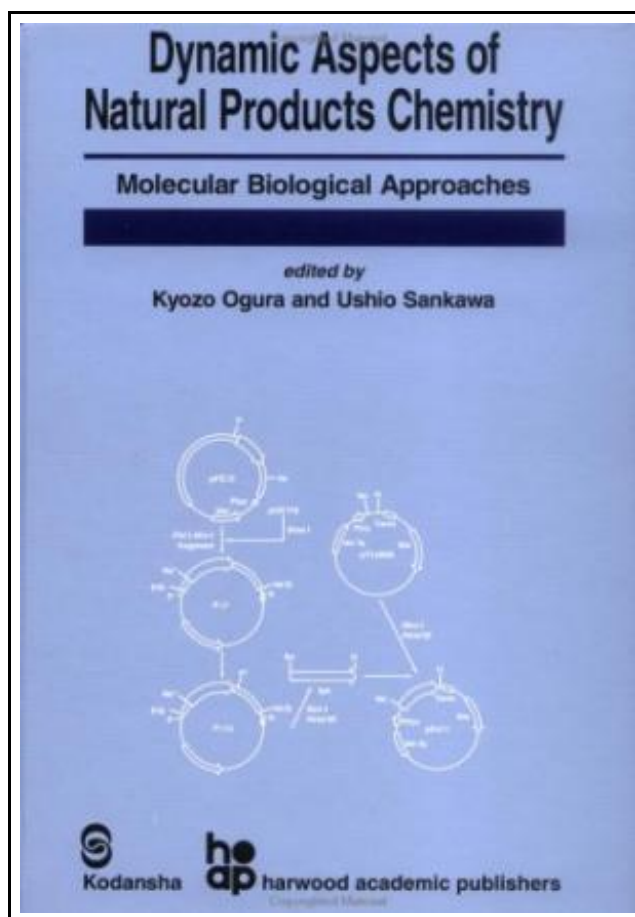


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DYNAMIC ASPECTS OF NATURAL PRODUCTS CHEMISTRY: MOLECULAR BIOLOGICAL APPROACHES (HARDBACK)



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Taylor Francis Ltd, United Kingdom, 1997. Hardback. Book Condition: New. 244 x 177 mm. Language: English . Brand New Book. Preface: Natural products chemistry has a long history, and could be regarded as having its roots in the use of many kinds of herbal mixtures as crude drugs in traditional medicine. Systems of traditional medicine have been practiced in China and Japan for thousands of years, and virtually all regions of the world have used natural materials to treat human disease. It was clear that many plants, herbs, etc. contain components with powerful biological activities. The dawn of modern natural products chemistry began with the isolation of the active component, morphine, from opium. Subsequently, various alkaloids were isolated from medicinal plants and employed clinically. The discovery and the development of penicillin as a microbial metabolite opened up the era of antibiotics, which have saved countless lives in the past half century or so. The isolation and synthesis of steroid hormones resulted in the development of new concepts in molecular stereochemistry and organic synthetic techniques, as did the discovery of bioactive lipids such as prostaglandins and leukatrienes, bioactive peptides such as enkephalins and endetherines, and oligosaccharides, including glycoproteins. Further, the discovery of plant hormones has led to great strides in plant biotechnology, including plant tissue cultures, and derivatives of insect hormones and pheromones are now used as pesticides. Thus, applications of natural products chemistry have become all-pervasive in modern society. Apart from the extensive practical applications of natural products and their derivatives, natural products chemistry has played a central role in the development of modern organic chemistry as a result of its focus on structural and synthetic studies of often highly complex and inaccessible molecules. Biosynthetic studies have also attracted much attention, aiming to answer the questions of why and how...



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