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## Dynamic Aspects of Natural Products Chemistry: Molecular Biological Approaches (Hardback)

By Takeshi Ogura

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...



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