

Journal Biokimia Karbohidrat

Journal of Tropical Forest Science At the Helm Squalen Penggalan, pelestarian, pengembangan & pemanfaatan tumbuhan obat Indonesia Chemistry, Biochemistry, and Biology of 1-3 Beta Glucans and Related Polysaccharides Carbohydrate metabolism.. Advances in Carbohydrate Chemistry and Biochemistry Essentials of Carbohydrate Chemistry and Biochemistry Marine Carbohydrates: Fundamentals and Applications, Part B Marine Carbohydrates: Fundamentals and Applications, Part A Food Oligosaccharides Advances in Carbohydrate Chemistry and Biochemistry Advances in Food Biochemistry Biochemistry of Exercise X Advances in Carbohydrate Chemistry and Biochemistry Glycosylation and Cancer The Art of Carbohydrate Analysis Trends in Dietary Carbohydrates Research The Biosynthesis of Polysaccharides Carbohydrate Chemistry Antony Bacic F. Dickens Thisbe K. Lindhorst F. Javier Moreno Fatih Yildiz Mark Hargreaves Derek Horton Gerrit J. Gerwig M. V. Landow R. W. Stoddart Amélia Pilar Rauter

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directory of professors in the university of malaya

on fishery technology and marine biotechnology in indonesia

chemistry biochemistry and biology of 1 3 beta glucans and related polysaccharides presents a comprehensive systematic and authoritative survey of information about a family of chemically related but functionally diverse naturally occurring

polysaccharides the 1 3 glucans international contributors describe the chemical and physicochemical properties of these glucans and their derivatives and the molecular biological and structural aspects of the enzymes involved in their formation and breakdown a detailed analysis of their physiological roles in the various biological situations in which they are found will be provided additionally evolutionary relationships among the family of these glucans will be described topics of medical relevance include detailing the glucans interactions with the immune system and research for cancer therapy applications resource links allow scientists to explore additional beta glucan research separate indexes divided into species and subject for enhanced searchability

since its inception in 1945 this serial has provided critical and integrating articles written by research specialists that integrate industrial analytical and technological aspects of biochemistry organic chemistry and instrumentation methodology in the study of carbohydrates the articles provide a definitive interpretation of the current status and future trends in carbohydrate chemistry and biochemistry

thisbe k lindhorst essentials of carbohydrate chemistry and biochemistry carbohydrates are probably nature s most common product plants and algae biosynthesize millions of tons of them every year carbohydrates are stores of energy and structural building blocks they are versatile enough to serve as encoders of biological information and last but not least they are involved in recognition processes at a molecular level research into carbohydrate and glycoconjugate functions in cell to cell communication processes has even created a new and rapidly developing field of study glycobiology thisbe k lindhorst is one of the leading next generation scientists in the area of carbohydrate research within her current book she presents a comprehensive introduction to the fascinating world of carbohydrates in a lucid explicit language she explains carbohydrate structures and the basic concepts of saccharide chemistry and saccharide biochemistry with the same clarity she spans the gap to the glycobiological aspects of modern glyco science sample descriptions of research methods supplement the vital teaching text and open an experienced scientist s bag of tricks required to synthesize and analyze sugar derivatives easily and successfully this book offers valuable guidance for students as well as for researchers working in chemistry biochemistry and biomedicine reading it can help everyone become an expert in the field of carbohydrate chemistry

marine carbohydrates fundamentals and applications brings together the diverse range of research in this important area which leads to clinical and industrialized products the volume number 73 focuses on marine carbohydrates in isolation biological and biomedical applications and provides the latest trends and developments on marine carbohydrates advances in food and nutrition research recognizes the integral relationship between the food and nutritional sciences and brings together outstanding and comprehensive reviews that highlight this relationship volumes provide those in academia and industry with

the latest information on emerging research in these constantly evolving sciences includes the isolation techniques for the exploration of the marine habitat for novel polysaccharides discusses biological applications such as antioxidant antiallergic antidiabetic antiobesity and antiviral activity of marine carbohydrates provides an insight into present trends and approaches for marine carbohydrates

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a growing awareness of the relationship between diet and health has led to an increasing demand for food products that support health beyond simply providing basic nutrition digestive health is the largest segment of the burgeoning functional food market worldwide incorporation of bioactive oligosaccharides into foods can yield health benefits in the gastrointestinal tract and other parts of the body that are linked via the immune system because oligosaccharides can be added to a wide variety of foodstuffs there is much interest within the food industry in incorporating these functional ingredients into healthy food products moreover other areas such as pharmaceuticals bioenergy and environmental science can exploit the physicochemical and physiological properties of bioactive oligosaccharides too there is therefore a considerable demand for a concentrated source of information on the development and characterization of new oligosaccharides with novel and or improved bioactivities food oligosaccharides production analysis and bioactivity is a comprehensive reference on the naturally occurring and synthesised oligosaccharides which will enable food professionals to select and use these components in their products it is divided into three sections i production and bioactivity of oligosaccharides ii analysis and iii prebiotics in food formulation the book addresses classical and advanced techniques to structurally characterize and quantitatively analyse food bioactive oligosaccharides it also looks at practical issues faced by food industry professionals seeking to incorporate prebiotic oligosaccharides into food products including the effects of processing on prebiotic bioavailability this book is essential reading for food researchers and professionals nutritionists and product developers working in the food industry and students of food science with an interest in functional foods

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understanding the biochemistry of food is basic to all other research and development in the fields of food science technology and nutrition and the past decade has seen accelerated progress in these areas advances in food biochemistry provides a unified exploration of foods from a biochemical perspective featuring illustrations to elucidate m

twenty five papers form the july 1997 conference whose theme was membranes muscles and exercise topics include signaling metabolism and adaptation with such chapters as neuroendocrine regulation during exercise skeletal muscle amino acid transport and metabolism and stress proteins and the adaptive response to muscle loading no index annotation copyrighted by book news inc portland or

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advances in cancer research provides invaluable information on the exciting and fast moving field of cancer research here once again outstanding and original reviews are presented on a variety of topics provides information on cancer research outstanding and original reviews suitable for researchers and students

the growing importance of glycobiology and carbohydrate chemistry in modern biotechnology and the pharmaceutical industry makes accurate carbohydrate analysis indispensable this book provides the principles and protocols of various fundamental carbohydrate analysis methods choice of method is entirely dependent upon the type of material being investigated biological samples food products etc and the level of structural detail required i e sugar content compositional analysis linkages between the sugar components or the total chemical structure of a given molecule full structural characterization of carbohydrate chains requires significant time resources and skill in several methods of analysis no single technique can address all glycan analysis needs this book summarizes several existing analytical techniques both chemical and physical in an introductory volume designed for the non expert researcher or novice scientist while background in carbohydrate chemistry is assumed all information necessary to understanding the described techniques is addressed in the text

carbohydrates are present in food comprising of digestible sugars and starches and indigestible cellulose and other dietary fibres the former are the major source of energy the sugars are in beet and cane sugar fruits honey sweet corn corn syrup milk and milk products etc the starches are in cereal grains legumes tubers etc in patients with hepatic forms of porphyria a person should consume at least 350 mg of carbohydrate per day or the carbohydrates should make up 60-65 per cent of the daily consumption this book examines and presents new research of the complexity effects and nutritional aspects of dietary carbohydrates

for many years studies of the structure and biosynthesis of saccharides formed a specialised and somewhat abstruse part of biochemistry with little or no place in molecular biology in recent years this has changed profoundly as has the character of much of carbohydrate biochemistry saccharides are now seen as generally possessing specific structures which are potentially informational though there is little firm evidence as yet as to the nature and expression of this information biosynthetic studies especially upon glyco proteins have provided major new insights into the ways by which specific sugar sequences can be assembled and the relationship of this to membranes and membrane flow while the study of polysaccharide biosynthesis has developed more slowly its future progress will be profoundly affected by the new knowledge of glycoproteins and this in turn will have major implications in the understanding of biological matrices and microenvironments with this rapid growth and change ever more scientists of increasingly diverse backgrounds are needing to understand something of carbohydrate biochemistry this book is directed towards them not with the intention that it should compete with existing text books or simply be an elementary introduction but with the intent that it should provide a bridge between the rather disparate and diverging lines of development in the subject and to bring out the important principles of saccharide assembly that are emerging

in this volume glycochemistry and glycobiology have been combined to demonstrate the contribution of organic chemistry modern analytics biological and biochemical expertise to the increasingly important field of glycomimics a polysaccharide immunomodulator with therapeutic implications carbohydrate vaccines new findings emphasizing the influence of carbohydrate decoration on the regulation of inflammatory response and new therapeutic approaches in the treatment of acute and chronic inflammatory diseases recent approaches in the treatment of acute and chronic inflammatory diseases recent progress on glycoengineering based on a glycosylation and key aspects of the glycosylation changes associated with bladder cancer are amongst the subjects presented in this volume the contribution of glycochemistry to innovation in glycosciences is shown with chapters covering highly functionalized exo glycals for the generation of molecular diversity in a chemoselective manner imino sugar glycosidase inhibitors carbasugars multivalent glycoconjugates including glycodendrimers glyconanotubes and glyconanoparticles and their uses in medicinal chemistry as well as artificial saccharide based and saccharide functionalized gene delivery systems siderphores based on monosaccharides which have proven effective for gram negative bacteria and

mycobacteria and the so called smart materials which can modulate and control cell behaviour complete the volume volume 38 of carbohydrate chemistry chemical and biological approaches contains contributions ranging from glycochemistry to glycobiology this collection demonstrates in a meaningful way how the interdisciplinary approach of an international glyconetwork can advance the field of carbohydrate research in europe and worldwide

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