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Facts Findings & Fundamentals of Chitosan chemistry



Series Editors:



Prof. (Dr) Rajendra S. Dongre
MSc PhD
Professor
Chemistry Department,
RTM Nagpur University Nagpur-440033.
M.S.
India.
rsdongre@hotmail.com



Dr. Ajmal R. Bhat
MSc, MPhil, PhD
Faculty in the Department of Chemistry,
Jammu and Kashmir, Higher education
Department-
Jammu Kashmir, India
bhatajmal@gmail.com

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Call for Chapters

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Aims and Scope:

This book is aimed to analyse the topical advances in applications of chitin and its derivatives. This book purposes to define the standardize processing and characterization of chitin/chitosan both in order to capture the needed interplay amid chitin's assets and its limiting functions as a biomaterial, placing the past promises of chitin in perception, portraying its current realities and confines as a biomaterial and contributing a visionary necessities for chitin/chitosan derivative, to achieve its native potential biomaterial status in the 21st Century. This overview is a search for alternative and better customs to indulgence medical complications is filled with challenges and opportunities. While changing body parts with artificial substitutes, state-of-the art technology developments like bio-scaffolds and Tissue Engineering are firing the quest for improved bio-materials to cater a myriad of faced challenges. Vital to this area is the prospective utilization of chitin is poised to be one such biopolymer as an option to varied needs in biomedical/pharmaceutics. This book will subsidise literature on chitin/chitosan mainly on the growth with new scaffolds, templates and matrixes/frameworks offering countless utilities. The book also motivates researchers to convey on discreet exertions so that chitosan as occupying its innate pedestrian status in the domain of assorted biopolymers. This book emphasis on composition, properties, thermal, mechanical, barriers, Degradation, Cytotoxicity Studies, physicochemical characterization & theoretical approach of chitin/chitosan by describes the most recent studies concerning bio-films. Book also provides a summary of forthcoming trends about the industrial applications of chitin/chitosan for food packaging, biomedical & bio-nano-composites.

Additional Content : Chitin is the 2nd utmost copious natural/bio-polymer next to the Cellulose and it's a resourcefully abundant besides a very low-cost bio-material that was discovered by a French chemist Henri Braconnot in 1811. Chitin's derivative chitosan was further exposed by Rouget in 1859 by refluxing raw chitin in alkali. Hoppe-Seyler named this derivate as chitosan and its native morphology was given in 1950. Usually chitin are obtained from the marine resources like shrimp and crab shells, thus appear ample byproduct of the food-processing industry, that, so offers varied biomedical applications due to noteworthy innate features. Though raw chitin-chitosan resembles keratin in its bio-functions but chemistry was developed through an innate unparalleled bio-features and unique physicochemical characters. Chitosan endures assorted modifications including biological, chemical and physical being facile at the open free proactive functional sites, hitherto intact bulk properties can be accomplished via assorted morphological processing ing, like, film, membrane, composite, hybrid, nanofibre, nanoparticle, hydrogel and scaffolds. Today promptly diminishing bio-resources indicated prospective viability of chitosan as an alternative by virtue of renewable eco-friendliness which has driven an emergent myriad utility in the S&T. Certain skillful surface amendment in native flexible skeleton of chitosan imparts advanced functionality and developments in in surface modifications. Both chitin-chitosan matrix are beneficial than other bio-polymers by means of the intrinsic features viz; cost-effectiveness, adaptability and unequivocal portfolio from bio-molecule to quantum dots as traced great voyage in modern progress of modern S&T. Overall, chitin/chitosan chemistry has advanced the global R&D in countless fields including agro, husbandry, biochemical, medicine, pharmaceuticals, nanotechnology, biotechnology, material, food, microbiology, biomedicine, bioengineering, biochemistry, bioprocessing and environment etc.

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