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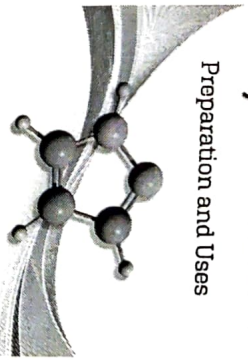
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Sanjiva Prasad

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Pyrazole Preparation and Uses

Dilipkumar Pal
Editor

This book has comprehensively reviewed the latest information on pyrazoles, their preparations and uses. It provides extended ideas on pyrazole and its derivatives including their synthesis, chemistry, structure activity relationship (SAR) and therapeutic applications. The health promoting properties of these pyrazoles are discussed in this book with different therapeutic applications of pyrazole scaffold. Topics related to pyrazole and its analogues as potential anticancer, anti-angiogenesis, antiviral, antioxidant, anti-convulsive, antihelmintic, anti-inflammatory, antidiabetic agents are described in this book in detail.

Furthermore, current status and future prospects of pyrazole moiety in drug discovery, importance of it in plant systems, its relevance in neurological drug discovery, its potency as herbicidal and antimicrobial agents have been enumerated through different chapters. In a summary, this book is a valuable resource for research scholars, academics, students, industrialists and subject experts working in the multidisciplinary fields like medicinal chemistry, synthetic chemistry, biochemistry, pharmacology, natural product chemistry and other related areas in the field of pyrazole derivatives drug discovery and research.

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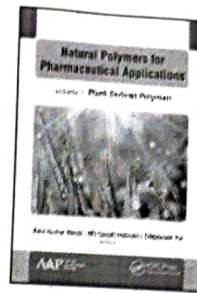


Pharmaceutical Science & Technology

Natural Polymers for Pharmaceutical Applications, Volume 1
Plant-Derived Polymers

Editors: Amit Kumar Nayak, PhD
Md Saquib Hasnain, PhD
Dilipkumar Pal, PhD

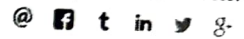
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REVIEWS

"A well-engrossed concept on application of natural plant derivatives as pharmaceutical additives. . . . The superlative collection on the application of plant derivatives in design of novel drug delivery systems, such as micro and nanoparticles, throws an insight on the useful applications of plant-derived products. I would say with a definite certitude that the book will prove to be an exemplary reference for academicians and scientist working in the field of plant-derived products for pharmaceutical applications." "

— Dr. Tahir Ansari, Assistant Professor, University of Kuala Lumpur, Malaysia

Now Available in Paperback

This volume, *Natural Polymers for Pharmaceutical Applications, Volume 1: Plant-Derived Polymers*, presents some of the latest research on the applications of natural polymers in drug delivery and therapeutics for healthcare benefits. Polymers and their applications from several plants are discussed in depth, including tamarind gum, gum Arabic, natural carbohydrate polymer gum tragacanth, pectin, guar gum and its derivatives, locust bean gum, sterculia gum, okra gum, and others.

The use of the polymers derived from plants as potential pharmaceutical excipients is expanding day by day because of their stability in the biological system, drug-releasing capability, drug-targeting abilities, as well as their bioavailability. During past few decades, many plant-derived polymers have been studied for use as pharmaceutical excipients, such as suspending agents, emulsifiers, binders, disintegrants, gelling agents, biomucoadhesive agents, matrix formers, release retardants, enteric resistants, etc., in various pharmaceutical dosage forms like tablets, microparticles, nanoparticles, ophthalmic preparations, gels, emulsions, suspensions, etc. In addition, their applicability has been established for further industrial uses as well.

This volume, the first of the three-volume *Natural Polymers for Pharmaceutical Applications* set, explores several of the most common plant-derived polymers and their multiple applications. This volume will be a rich resource for faculty and students, researchers, and industry professionals in the disciplines of medical and pharmaceutical sciences, drug delivery, biomedical engineering, and nanomedicine.

Key features:

- Presents research on the applicability of natural polymers in drug delivery
- Explores the methodology for design, development, and appropriate selection of natural polymers for particular therapeutic applications
- Includes illustrations demonstrating the mechanisms of biological interactions of natural polymers

Sanjeev Arora
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• Discusses the regulatory aspects and illustrations demonstrating the clinical efficacy of natural polymers

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ABOUT THE AUTHORS / EDITORS:

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Amit Kumar Nayak, PhD, is currently an Associate Professor at the Seemanta Institute of Pharmaceutical Sciences, Odisha, India. He has over ten years of development and characterization of polymeric composites, especially in the nanostructured drug delivery systems, and formulation characterization publications in various high-impact peer-reviewed journals and has 34 book chapters to his credit. He has been a reviewer for many international journals. He also has participated and presented his research work at several conferences in India and is a life member of the Association of Pharmaceutical Teachers of India (APTI). He earned his PhD in Pharmaceutical Sciences from IITM University, Moradabad, U.P., India.

Md Saquib Hasnain, PhD
 Shri Venkateshwara University, Gajraula, Amroha, U.P, India

Md Saquib Hasnain, PhD, has over six years of research experience in the field of drug delivery and pharmaceutical formulation analysis, especially in the systematic development and characterization of diverse nanostructured drug delivery systems, controlled release drug delivery systems, bioenhanced drug Design approaches, as well as development and characterization of polymeric composites, formulation characterization using FTIR, DSC, PXRD, SEM, TEM, HPLC, LC-MS, and much more. He has authored over 30 publications in various patent application to his credit. He is also serving as the reviewer of several prestigious journals. He has also participated and presented his research work at several conferences in India and abroad. He is a member of several scientific societies, including the Royal Society of Chemistry, Great Britain; International Association of Environmental and Analytical Chemistry, Switzerland; and Swiss Chemical Society, Switzerland.

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