

eISBN: 978-1-68108-195-3
ISBN: 978-1-68108-196-0

eISSN: 2352-3921
ISSN: 2468-0168

FRONTIERS IN BIOMATERIALS

Unfolding the Biopolymer Landscape

VOLUME 2



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Bentham Books

eISBN: 978-1-68108-195-3

E-book Price

US\$ 149.00

Print-on-Demand

US\$ 179.00

Institutional E-Book Price

US\$ 596.00

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Frontiers in Biomaterials (Volume 2) Unfolding the Biopolymer Landscape

www.ebooks.benthamscience.com/book/9781681081953/

About the eBook

The need for the development of biomaterials as scaffold for tissue regeneration is driven by the increasing demands for materials that mimic functions of extracellular matrices of body tissues. Unfolding the Biopolymer Landscape provides a unique account of “biopolymeric interventions” inherent to biotechnological applications, soft tissue engineering, ophthalmic drug delivery, biotextiles, environmentally responsive systems, neurotherapeutics, and emulsions-based formulations for food and pharmaceutical applications. Chapters in this volume also cover biomedical applications and implications of cationic polymers, collagen-based substrates, multifunctional polymers, shape memory biopolymers, hybrid semisynthetic biomaterials, microbial exopolysaccharides, biomaterials mimicking the extracellular microenvironment, derivatized polysaccharides, and metallic biomaterials.

Contents

- ▶ Cationic Polymers for Biotechnological Applications
- ▶ Collagen Substrates for Soft Tissue Engineering
- ▶ Gums and Mucilages Based Mucoadhesive Biopolymers
- ▶ Natural Polymers for Ophthalmic Drug Delivery
- ▶ Customized Shape-Memory Biopolymers
- ▶ Biotextiles for Tissue Engineering
- ▶ Hybrid Semi-Synthetic Polyhydroxy Acid Based- Biomaterials
- ▶ Microbial Exopolysaccharides for Biomedical Applications
- ▶ Bio-Interfacial Properties of Environmentally Responsive Biomaterials
- ▶ Bio & Polymeric Materials Mimicking the Extra- Cellular Microenvironment
- ▶ Biopolymers in Non-Aqueous Emulsions for Food and Pharmaceutical Applications
- ▶ Biopolymers for Neurotherapeutic Interventions
- ▶ Porous and Non-Porous Metallic Biomaterials
- ▶ Derivatized Polysaccharides: A Potential in Micro/Nanoparticulate Based Drug Delivery

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