



Hydrogels of Cytoskeletal Proteins: Preparation, Structure, and Emergent Functions (Springerbriefs in Materials)

Yoshihito Osada, Ryuzo Kawamura, Ken-Ichi Sano

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This book describes a new family of bio-polymer gels made from cytoskeletal proteins - actin, microtubule, and tropomyosin. The importance of the gel state with multi-scale hierarchical structure is emphasized to utilize emergent functions in living organisms. Detailed protocol of gel preparation, specified method of structure investigation, and dynamic studies of self-organization, self-healing, synchronized oscillating, and autonomous motility functions are introduced together with biomimetic functions of synthetic hydrogels.

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