



Polymeric Biomaterials of Natural and Synthetic Origin

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Message from the Guest Editor

Polymeric biomaterials are the synthetic or natural materials intended for interfacing with biological systems to regenerate, augment/repair, and treat any type of tissue of the organs or function of the human body. The design of polymeric biomaterials, complemented by an increased understanding of native tissue architecture and cell-material interactions, has evolved across length scales ranging from the molecular to the macroscopic. Polymers are used as biomaterials and can be either of natural origin (chitosan, gelatin, alginate, and hyaluronic acid) and those of synthetic origin (methacrylates/acrylates, as well as lactide/glycolide). By combining these polymers, biomaterials can be tuned with the desired properties that are important for biomedical applications-controlled drug release systems, scaffolding biomaterials for tissue regeneration and reparation, wound dressings polymers, as well as antimicrobial polymers.





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