



Biodegradable Materials for Tissue Engineering

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Message from the Guest Editors

Biodegradable polymers can degrade either by hydrolysis (without the enzyme catalysis) or by enzymatic mechanisms. Hydrolysis is the main degradation mechanism of the biodegradable polymers, but depending on the polymer structure, they can also undergo at least partial enzymatic degradation.

Research works focused on developing bioactive materials that combine the engineering properties of synthetic polymers with the biological properties of natural materials. Advanced biodegradable polymers that can trigger predictable and beneficial cellular/tissue responses, both in the cell culture platform and in the host environment.

This Special Issue covers the fundamental aspects of biodegradable polymers such as synthesis, characterization, and mechanistic discussion, as well as application aspects such as synergistic effects, surface modification, and functional examination.





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