



Biomaterials and Tissue Engineering (Biological and Medical Physics, Biomedical Engineering)

Donglu Shi

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The current interest in developing novel materials has motivated an increasing need for biological and medical studies in a variety of clinical applications. Indeed, it is clear that to achieve the requisite mechanical, chemical and biomedical properties, especially for new bioactive materials, it is necessary to develop novel synthesis routes. The tremendous success of materials science in developing new biomaterials and fostering technological innovation arises from its focus on interdisciplinary research and collaboration between materials and medical sciences. Materials scientists seek to relate one natural phenomenon to the basic structures of the materials and to recognize the causes and effects of the phenomena. In this way, they have developed explanations for the changing of the properties, the reactions of the materials to the environment, the interface behaviors between the artificial materials and human tissue, the time effects on the materials, and many other natural occurrences. By the same means, medical scientists have also studied the biological and medical effects of these materials, and generated the knowledge needed to produce useful medical devices. The concept of biomaterials is one of the most important ideas ever generated by the application of materials science to the medical field. In traditional materials research, interest focuses primarily on the synthesis, structure, and mechanical properties of materials commonly used for structural purposes in industry, for instance in mechanical parts of machinery.

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