Stem Cell Nanoengineering

Description: Stem Cell Nanoengineering reviews the applications of nanotechnology in the fields of stem cells, tissue engineering, and regenerative medicine. Topics addressed include various types of stem cells, underlying principles of nanobiotechnology, the making of nanoscaffolds, nanotissue engineering, applications of nanotechnology in stem-cell tracking and molecular imaging, nanodevices, as well as stem-cell nanoengineering from bench to bedside.

Written by renowned experts in their respective fields, chapters describe and explore a wide variety of topics in stem-cell nanoengineering, making the book a valuable resource for both researchers and clinicians in biomedical and bioengineering fields.

Synthesizes topics from the active and growing fields of stem-cell research and nanoengineering

Addresses a wide range of subjects that will be of interest to engineers, chemists, biological scientists, clinicians, and biomedicine industry professionals

Includes introduction to the various types of stem cells and the general principles of nanobiotechnology

Chapters cover hot topics including nanoscaffolds, nanotissue engineering, and nanodevices

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