

Nanotechnology in Regenerative Medicine: Methods and Protocols (Methods in Molecular Biology)



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Nanotechnology plays a key leading role in developing tools able to identify, measure, and study cellular events at the nanometric level as well as in contributing to the disclosure of unknown biological interactions and mechanisms, which opens the door for advances including nanodevices for diagnostic and therapy, drug delivery systems, and regenerative medicine. In *Nanotechnology in Regenerative Medicine: Methods and Protocols*, expert researchers in the field provide an overview of a very wide range of currently used technologies and methods that involve nanotechnology principles applicable to tissue regeneration. Being that the application of nanotechnology to regenerative medicine is a very broad field, this book focuses its interests on particular areas such as its use as a means to produce efficient platforms and structures for tissue engineering, delivery systems and biosensors, as well as the use of some techniques to study materials surfaces and the interactions between cells, biomolecules, and surfaces at the nanoscale. Written in the highly successful *Methods in Molecular Biology*TM series format, chapters include introductions to their related topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Authoritative and accessible, *Nanotechnology in Regenerative Medicine: Methods and Protocols* provides established scientists, junior researchers, and students involved in the bioengineering, biotechnology, and biomedical fields with a sound foundation in a variety of vital nanotechnology approaches in regenerative medicine.

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