

Research Article

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Biomaterial and Regenerative Medicine Approaches to Restoration of Flexion in Lumbar Herniated Disc

Published On: September 16, 2016 | Pages: 019 - 024

Author(s): R Leela*

Objective: The systematic objective of this paper is to restore flexion in vertebral bone and to nourish the nucleus pulposus through the approach of biomaterial and regenerative medicine. Method: Studies were made on the treatment of lumbar herniated disc in CINAHL, PubMed, EMBASE, Cochrane Central Register of Controlled Trials (CENTRAL) and Cochrane Database of ...

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Ruta graveolens Protects Against Isoniazid/Rifampicin-Induced Nephrotoxicity through Modulation of Oxidative Stress and Inflammation

Published On: February 22, 2016 | Pages: 008 - 013

Author(s): Ayman M Mahmoud*, Omnia E Hussein, Mousa O Germoush

Background and Aim: Drug-induced nephrotoxicity is a renal dysfunction that arises as a result of exposure to nephrotoxic drugs. Anti-tuberculosis therapy can cause nephrotoxicity and permanent kidney damage. The current study was designed to evaluate the possible protective effects of Ruta graveolens L. leaves extract against isoniazid/rifampicin-induced nephrotoxicity ...

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Optimization of Sintering Conditions for Improvement of Mechanical Property of a-Tricalcium Phosphate Blocks

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Author(s): Ill Yong Kim*, Jian Wen, Koichi Kikuta, Chikara Ohtsuki

Bioactive ceramic materials have been under research as bone substitute for several decades. To repair the high-load bearing bones, mainly cortical bones, there is a need for the substitute to possess comparable mechanical strength to cortical bone, of which the compressive strength ranges between 100 and 230 MPa. Two prevailing bone repairing material, -tricalcium p ...

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Mini Review

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Important Factors Influencing Protein Crystallization

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Author(s): Mohnad Abdalla*, Wafa Ali Eltayb, Abdus Samad, TIM Dafaalla

The solution of crystallization problem was introduced around twenty years ago, with the introduction of crystallization screening methods. Here reported some of the factors which affect protein crystallization, solubility, Concentration of precipitant, concentration of macromolecule, ionic strength, pH, temperature, and organism source of macromolecules, reducing or ...

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Nano-Technological Approaches to Improve the Efficiency of Bio-Assays

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Author(s): Shibsekhar Roy*

One of the biggest issues in today's healthcare industry is to find a very fast yet effective diagnostic platform, which is suitable for our busy lifestyle without compromising the detection efficiency. The major requirements of an efficient diagnostic platform can be summarized as minimum sample requirement, least reagent requirement, having options of

multiple tests ...

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