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Y Ikada - Journal of the Royal Society Interface, 2006 - rsif.royalsocietypublishing.org

... means of a small biopsy, expand the cell number in the culture, seed cells onto a ... with knowledge of growth factor and cytokine that promote differentiation, and suitable scaffold or carrier ... that numerous cells can be seeded, migrate into the inside, increase the cell number and ...

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Porous scaffold design for tissue engineering

SJ Hollister - Nature materials, 2005 - nature.com

... For tissue engineering a suitable paraphrase would be "The art of scaffolding is where to put ... A laser technique, selective laser sintering (SLS), was used 56 to fabricate PCL scaffolds that ... In addition, the ability to seed multiple cell types on composite scaffolds has opened the ...

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Injectable hydrogel materials for spinal cord regeneration: a review

D Macaya, M Spector - Biomedical materials, 2012 - iopscience.iop.org

... Such materials can also be loaded with cellular and molecular therapeutics to modulate the wound environment and ... be employed as treatments for SCI individually or in combination: biomaterials; exogenous cells of various types; protein regulators of cell function (eg ...

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researchgate.ne

The development of bioartificial nerve grafts for peripheral-nerve regeneration

CA Heath, GE Rutkowski - Trends in Biotechnology, 1998 - Elsevier

... in the repair and function of peripheral nerves, are used to seed a synthetic ... environment is believed to be responsible for the improved regeneration observed with selectively permeable tubes¹² ... for axonal growth; they aid in clearing debris and create a suitable environment for ...

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[HTML] Tissue engineering of replacement skin: the crossroads of biomaterials, wound healing,

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 包括专利 包含引用**[图书] Principles of tissue engineering**R Lanza, [R Langer](#), JP Vacanti - 2011 - [books.google.com](#)... You may also complete your request on-line via the Elsevier homepage (<http://elsevier.com>), by selecting "Customer Support ... Cell Pattern Formation by Substrate Patterning 244 244 246 247 247 248 249 251 251 251 253 256 260 ... Biodegradable Polymer Selection Criteria III. ...

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Porous scaffold design for tissue engineering[SJ Hollister](#) - [Nature materials](#), 2005 - [nature.com](#)

... For tissue engineering a suitable paraphrase would be "The art of scaffolding is where to ... They also demonstrated that selected fibre designs would exhibit nonlinear stress-strain curves similar ... In addition, the ability to seed multiple cell types on composite scaffolds has opened ...

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Design strategies of tissue engineering scaffolds with controlled fiber orientation[R Murugan](#), [S Ramakrishna](#) - [Tissue engineering](#), 2007 - [online.liebertpub.com](#)

... is to harvest a small biopsy of specific cells from the donor site, seed them on ... Recently, it has been successfully applied in engineering nano-fibrous scaffolds suitable for tissue engineering.80 ... and in vivo, because they directly influence in the cell adhesion, cell expression, ...

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Injectable hydrogel materials for spinal cord regeneration: a review[D Macaya](#), M Spector - [Biomedical materials](#), 2012 - [iopscience.iop.org](#)

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The Application of Stem Cell Based Tissue Engineering in Spinal Cord ...

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作者: W Niu - 2015 - 相关文章

Tissue engineering; **Stem cells**; **Biomaterial**; **Spinal cord injury**; Regenerative medicine ... Although the criteria of biomaterial **selection** vary in different **repairing** ... The biomaterials used for **scaffold** fabrication can be natural or synthetic polymers. ... platelet-derived **growth factor** (PDGF)- AA did not influence the **cell** behavior ...

Porous scaffold design for tissue engineering : Article : Nature Materials

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作者: SJ Hollister - 2005 - 被引用次数: 1792 - 相关文章

Synthetic materials often integrate poorly **with** host tissue and fail over time due to ... **stem-cell** and gene-therapy approaches, are used to stimulate tissue **repair**. ... For **tissue engineering** a **suitable** paraphrase **would** be "The art of **scaffolding** is Processing and characterization of porous alumina **scaffolds**. J. Mater. Sci.

Carriers in Cell-Based Therapies for Neurological Disorders - NCBI

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作者: FSY Wong - 2014 - 被引用次数: 6 - 相关文章

2014年6月13日 - *Int J Mol Sci*. ... Synergistic therapeutic **effects** can be obtained from combining customized ... The glial scar contains axonal **growth** inhibitory **factors** such as ... When applied to the spinal cord, **NGCs** increase neural sprouting as well as reduce ... **Tissue engineering** integrates **cell**