

Stem Cell Niche Methods And Protocols Methods In Molecular Biology

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Defining the Adult Neural Stem Cell Niche Proteome ...

Cell Stem Cell Resource Defining the Adult Neural Stem Cell Niche Proteome Identifies Key Regulators of Adult Neurogenesis Jacob Kjell,1,2,9 Judith Fischer-Sternjak,1,2 Amelia J Thompson,3 ...

A molecular profile of a hematopoietic stem cell niche

lecular profile of a stem cell niche We show that this molecular profile correlates with the documented stem cell supportive properties of other stromal cell lines, and suggest that it may predict stem cell supportive ability in general Materials and Methods Cell Lines and Culture Conditions The fetal liver stromal cell ...

Adult mesenchymal stem cells: characterization ...

The mesenchymal stem cell niche There is much research interest in determining what defines and constitutes the mesenchymal stem cell niche It is clearly described that distinct niches exist within ...

3D Stem Cell Culture

Keywords: stem cell; 3D; culture condition; expansion; niche; regenerative medicine; sca old; organoid Stem cells are cells that demonstrate the abilities to self-renew and differentiate Many types of stem cells can be isolated from embryonic or adult tissues, varying in their potency from pluripotent to unipotent depending on the stem cell ...

Targeting stem cell niche can protect hematopoietic stem ...

(niche) governs stem cell function [7, 8], targeting the stem cell niche may change the fate of stem cells Our previous studies demonstrated that, except for the proteolytic enzymes, cellular ...

Satellite Cells and the Muscle Stem Cell Niche

SATELLITE CELLS AND THE MUSCLE STEM CELL NICHE The choice of methods largely depends on the isolation scale and the subsequent experiment In small scale, limited amounts of satellite cells ...

Identification of a stem cell niche in the zone of Ranvier ...

specific stem cells within the bone marrow niche (Zhang et al 2003; Hayashi et al 2007) The purpose of this study was to address the hypothesis that potential progenitor cells are present within the joint and to characterize this population of cells and adjacent cells using a panel of stem cell niche markers Materials and methods ...

Understanding the regulatory mechanisms of endometrial ...

generation [1] The specific niche, in which the adult stem cells reside, regulates stem cell function through several mechanisms among which the best studied one is the direct contact between stem cells and their adjacent niche cells [2] Niche support of stem cells has been reported for adult stem ...

Research Article Three-Dimensional Gastrointestinal ...

it a perfect model to study the impact of the niche on proliferation and differentiation of stem cells is plasticity originates from the presence of multipotent intestinal stem cells (ISC), which reside in crypts or gastrointestinal glands [] Lgr -positive (and Prom- /Sox-positive) rapid cycling stem ...

Skin in the Game: Stem Cells in Repair, Cancer, and ...

of adult skin stem cells in homeostasis, wound repair, inflammation, and cancer These insights have established a foundation for basic knowledge on how adult stem cells form, maintain, and repair tissues and have provided the groundwork for additional exploration and discovery of pathways in other stem cell ...

Isolation and characterisation of nasoseptal cartilage ...

stem-cell-related surface markers [17, 19, 25, 26] As a clonogenic, renewable cell source derived from the specific tissue that requires replacement, CSPCs are of interest due to their niche-specific lineage ...