Adipogenic and Osteogenic Markers Characterization of Human Amniotic Fluid Stem Cells

Published On: December 29, 2016 | Pages: 025 - 032

Author(s): Hassan IH El-Sayyad*, Mohamed A Sobh, Soad A Khalifa, Omnia KRA El-Sayyad
Objective: Human amniotic fluid stem cells (HAFSCs) derived from human amniotic fluid during parturition are of good source in regenerative medicine for development to either adipocyte, chondrogenic or osteogenic cells. ...

Adipose Derived Mesenchymal Stem Cell Differentiation into Adipogenic and Osteogenic Stem Cells

Published On: December 29, 2016 | Pages: 017 - 024

Author(s): Hassan IH El Sayyad1*, Mohamed A Sobh2, Soad A Khalifa1 and Omnia KR El-Sayyad
Objective: Lipoaspiration of human breast fats are important source of adipocyte stem cells (hAMSCs) which play a great role in regenerative medicine. The present study illustrates its capability of its transformation and characterization of adipocyte, osteogenic or chondrogenic cells. ...

A New Catheter Technology to Deliver Vascular Stem-Cells

Published On: December 13, 2016 | Pages: 007 - 016

Author(s): Brian D Plourde, John R Stark and John P Abraham*
A new device has been designed, developed and tested to improve the capacity of vascular drug and stem cell delivery.
Cytokine Production by Circulating Endothelial Progenitor Cells before and after G-CSF Mobilization

Published On: November 29, 2016 | Pages: 001 - 006

Author(s): Alexander Lykov*, Olga Poveschenko, Natalia Bondarenko, Alexander Poveschenko, Irina Kim, Eugenie Pokushalov, Alexander Romanov and Vladimir Konenkov

Objective: Bone marrow-derived circulating endothelial cells (EPCs) may migrate in ischemia zone, to stimulate resident progenitor cells to proliferation, differentiation and migration in a damage zone, and reduce an ischemia zone through formation of new vessels. ...