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Does the cryopreservation affect stem cells potential?

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Stem cells are unspecialized cells, capable of self-renewal and differentiation down one or more lineages to produce specialized cell types. Stem cells have a promising role in regenerative medicine. For this promising role, their cryopreservation and stem cells banking became an ultimate need to save these stem cells to play their role in the future. There are many researches indicate that there is no significant different between the therapeutic effect of frozen/thawed stem cells and non frozen/thawed stem cells. But does this no effect is the same in all stem cells biological properties or it differs? Here we are going to discuss this issue with referring to our research on rheumatoid arthritis (RA) and the immunomodulatory effect of mesenchymal stem cells.

Biography

Ahmed Lotfy has completed his MSc at age 24 years from Mansoura University. He is a Researcher at Medical Experimental Research Center (MERC), Mansoura University. He is responsible for tissue culture and stem cells lab. He is a member in Mesenchymal Stem Cells Group, University of Leeds, UK. He has 10 papers in international journals. He is reviewer of *Cytotechnology Journal* & *BioMed Research International Journal*.

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