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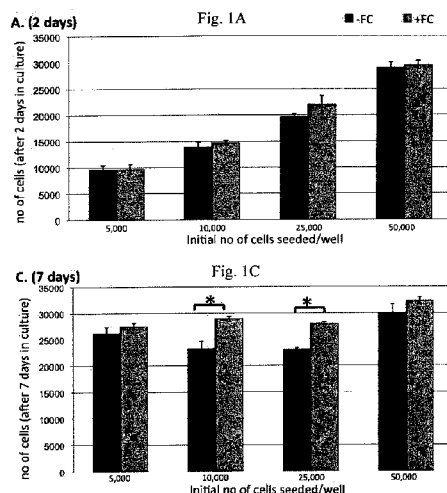
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(54) Title: CULTURE ADDITIVES TO BOOST STEM CELL PROLIFERATION AND DIFFERENTIATION RESPONSE



(57) Abstract: The invention relates to methods of culturing and/or proliferating stem cells such as progenitor cells, multipotent and induced pluripotent stem (IPS) cells. More particularly, the invention relates to the use of macromolecular crowding created using carbohydrate-based macromolecule to promote the growth of the stem cells in an ex vivo culture, while preserving their multipotentiality.