

Role of stem cells in neural and hematopoietic diseases

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The experimental evidences strongly suggest that Embryonic Stem (ES) cell lines can be created from human blastocyst-stage embryos and stimulated to develop into practically all types of cells found in the body. Cellular treatments produced from ES cells have attracted fresh interest. The potential utility of ES cells for gene therapy, tissue engineering and the treatment of a wide spectrum of currently untreatable diseases is simply too vital to ignore; however, further improvements in our understanding of the basic biology of ES cells are required to deliver these forms of therapy in a safe and efficient manner. In this meeting, I'll share my research using ES cells and how they can be used to treat hematopoietic and neurodegenerative disorders.