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Clinical and laboratory features of mesenchymal stromal cells in pediatric stem cell transplantation

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Stellingen

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Stellingen behorend bij het proefschrift:

Clinical and laboratory features of mesenchymal stem cells in pediatric stem cell transplantation

Lynne Margaret van Velzen-Ball,

Geboren te Whiston, Lancashire, United Kingdom, 12 September 1953

- I. Graft failure and delays in immune reconstitution reduce the overall survival of children undergoing haploidentical CD34 selected peripheral blood stem cell transplantation (this thesis).
- II. Infusion of haploidentical bone marrow derived expanded MSC can be safely administered to children undergoing haploidentical CD34 selected peripheral blood stem cell transplantation to overcome graft failure (this thesis).
- III. Co-infusion of MSC does not expedite faster haematological engraftment in children undergoing cord blood transplantation but does overcome severe GvHD (this thesis).
- IV. The in-vivo immune suppressive properties of MSCs can be exploited to alter the clinical course of steroid refractory severe acute GvHD (this thesis).
- V. Proposed tissue repair effects of MSCs, so far as they concern intestinal mucosal regeneration following severe GvHD, may require preservation of an intact basement membrane to allow for epithelial reconstitution (this thesis).
- VI. MSCs can be administered in the severely immune compromised host without suppressing virus- specific T cell reactions against CMV and EBV (this thesis).
- VII. Mesenchymal stem cells expanded in fetal calf serum were first reported to induced tissue repair in 1060. (Die Altirische Heldensage Táin Bó Cúalnge (1905) by Ernst Windisch, Leipzig: Verlag von S. Hirzel).
- VIII. In childhood acute lymphoblastic leukemia, there is no such thing as "bad prognosis" only "bad therapy". (Schultz KR, et al. Blood. 2007; 109: 926-935).
- IX. Well conducted clinical trials rather than basic research have to date produced the most effective treatments for childhood cancer. (O'Leary M, et al. Semin Oncol. 2008; 35: 484-493).
- X. Genomic diversity research conducted on indigenous populations raises new anthropological, philosophical and ethical issues which differ in nature from those encountered in conventional medical research. (Ilklic I, Paul NW. Med Health Care and Philos. 2009; 12: 25-34).
- XI. Global warming will mean an end to Dutch culture, as we know it.
- XII. Whenever people agree with me, I always think I must be wrong. (Oscar Wilde)