

Cover Page



Universiteit Leiden



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Title: Mesenchymal stromal cells in pediatric disease : pathophysiology and treatment

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Stellingen

1. Gastrointestinal biopsies in children with profuse diarrhea after hematopoietic stem cell transplantation before and after mesenchymal stromal cell infusion are safe and essential for documentation of the response to therapy. (this thesis)
2. The combination of the percentage and the absolute number of virus specific T-cells should be looked at when reporting the side-effects of immunomodulatory therapy. (this thesis)
3. Gene expression profiling using next generation sequencing is feasible in small groups of patients for unbiased research. (this thesis)
4. Alterations in mesenchymal stromal cells during active myelodysplastic syndrome or juvenile myelomonocytic leukemia in children are reversible and therefore, more likely the consequence than the cause of the disease status. (this thesis)
5. Decreased immunosurveillance in the bone-marrow microenvironment might contribute to disease progression and therapy resistance in juvenile myelomonocytic leukemia. (this thesis)
6. Imbalance of the cellular regulation within the bone marrow may well account for certain hypoplastic and aplastic anemias. (1980, Ershler, NEJM)
7. New insights from hematopoietic stem cell niches in the extremes of life (early development and aging) will lead to the identification of new cellular and molecular players involved in the regulation of hematopoiesis. (2015, Boulais, Blood)
8. Mesenchymal stromal cells exert a function that is not immediately traceable to a general stem cell property. (2013, Bianco, Nat Med)
9. The ability of mesenchymal stromal cells to support hematopoietic stem cell growth together with their potent immune suppressive effects imply that they are ideal candidates to overcome some of the problems of allogeneic hematopoietic stem cell transplantation. (Ball, 2010, thesis)
10. Research should close and not widen the gap between bench and bedside.
11. Kwaadwillenden kunnen, door verstoring van de omgeving, het systeem behoorlijk verstieren.
12. Promoveren is topsport: Je moet alle ballen in de lucht houden, je moet altijd je oog op de bal houden en uiteindelijk kan het balletje raar rollen.