

Stellingen behorende bij het proefschrift

***Ex vivo* expansion of hematopoietic stem cells**

1-Angiopoietin like protein 3 enhances the *ex vivo* expansion and proliferation of murine long term-HSCs or human short term-SCID repopulating cells in the presence of the saturated level of other HSCs growth factors. (This thesis)

2-Over-expression of Angptl3 in murine BM Lin⁻ cells did not show any signs of tumor development or toxicity effect in recipients that could be attributed to Angptl3 leukemogenic. (This thesis)

3-Using a less purified starting population gives a better chance to expand the number of long term-HSCs than using a highly purified population. (This thesis)

4-Hypoxia (5% O₂) enhances *ex vivo* expansion of murine short-term HSCs cells but only preserves the number of long term-HSCs when compared to normoxia. (This thesis)

5-Hypoxia enhances the *ex vivo* expansion of ST-SCID repopulating cells of cultured UCB-CD34+ cells in STIFA3 combination of growth factors. (This thesis)

6-*Ex vivo* expansion of UCB is one potential solution to improve the applicability of umbilical cord blood (UCB) transplantation. (Kelly et al.)

7-The *in vitro* developmental potential and the success of iPSCs in animal models reveal the principle of using human iPSC-derived cells as a regenerative source for transplantation therapies. (Katharina Drews et al.)

8-Believing is a powerful force, believe in yourself and others will believe in you. (Ruskin Kwofie)

9-Life is very interesting... in the end, some of your greatest pains, become your greatest strengths. (Drew Barrymore)

10-Science has proof without any certainty. Creationists have certainty without any proof. (Ashley Montague)

11-Teachers called it cheating... We called it team working!