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Clonal analysis of young and aged hematopoietic stem cells using cellular barcoding

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STELLINGEN

behorende bij het proefschrift

**Clonal analysis of young and aged hematopoietic stem cells
using cellular barcoding**

EVGENIA VALERIANOVNA VEROVSKAYA

1. An exact counting of hematopoietic stem cells in complex polyclonal situations is neither possible nor relevant. *(This thesis)*
2. Reliable clonal analysis depends of the method of clonal labeling and detection. Cellular barcoding coupled with high-throughput detection system became a method of choice for analysis in hematopoietic system. *(This thesis)*
3. Understanding the kinetics and molecular events underlying trafficking of hematopoietic stem cells is important both in basic hematology research, and for implementation and interpretation of experimental and clinical bone marrow transplantation protocols. *(This thesis)*
4. While hematopoietic stem cells are the best investigated among adult stem cells, many old questions regarding their functioning remain a matter of debate.
5. Globally, the proportion of older persons is growing at a faster rate than the general population. ... The social and economic implications of this phenomenon are profound, extending far beyond the individual older person and the immediate family, touching broader society and the global community in unprecedented ways. *(Ban Ki-moon, United Nations Secretary General)*
6. One thing many PhD students have in common is dissatisfaction. *(The Economist, December 2010)*
7. Talent wins games, but teamwork and intelligence wins championships. *(Michael Jordan)*
8. Statistics is a cruel thing. *(Michael Bulgakov)*
9. Intelligence without ambition is a bird without wings. *(Salvador Dali)*
10. No pain no gain.