

STELLINGEN BEHORENDE BIJ HET PROEFSCHRIFT

## $\gamma$ Globin Reactivation

1. A number of different protein complexes are involved in the developmental expression of the human  $\gamma$ -globin genes (*this thesis*).
2. Optimal use of a tandem Epitope tag increases the quality and reproducibility of chromatin Immunoprecipitation (*this thesis*).
3. Promoter-bound transcription factors can be identified by purifying a gene promoter directly from mammalian cells *in vivo* by Targeted Chromatin Purification (TCP) (*this thesis*).
4. Reduced levels of ZBP-89 induces  $\gamma$ -globin gene expression (*this thesis*).
5. The Clinical definition of  $\beta$ -thalassemia patients as responders or non-responders to hydroxyurea treatment is not reflected in the magnitude of  $\gamma$ -globin activation (*this thesis*).
6. Elevated  $\gamma$ -globin gene expression in the adult increases the quality of life in patients with  $\beta$ -thalassemia and sickle cell disease, two of the most significant genetic health problems in the world.
7. "For millions of years, mankind lived just like the animals. Then something happened which unleashed the power of our imagination. We learned to talk and we learned to listen. Speech has allowed the communication of ideas, enabling human beings to work together to build the impossible. All we need to do is make sure we keep talking" (*Stephen Hawking; British Telecom advertisement, 1993; part of which was used in Pink Floyd's Keep Talking, 1994*).
8. "Ask what you do not know, although you may feel shame in asking what you do not know, that shame shall send you on your path to knowledge" (*Sheikh Moslehuddin Saadi; Persian poet, 1184 –1292*).
9. "A great civilization is not conquered from without until it has destroyed itself from within" *Will Durant The Story of Civilization (Vol 3 Caesar And Christ. Epilogue - Why Rome fell)*.
10. "I am worried about living in a country where all rights are for people who never run and running is for people who get no rights" (*Mir-Hossein Mousavi; Iranian presidential campaign, 2009*).
11. "Never postpone disappointment" (*Frank Grosveld*).

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