

STELLINGEN



STELLINGEN BEHORENDE
BIJ HET PROEFSCHRIFT

**STUDIES ON HUMAN γ -GLOBIN GENE REGULATION
TRANSCRIPTION FACTORS IN A RUBIK'S CUBE**

STUDIES VAN MENSELIJKE γ -GLOBINE GENREGULATIE
TRANSCRIPTIEFACTOREN IN EEN RUBIK'S KUBUS

17 DECEMBER 2009
ERASMUS UNIVERSITEIT ROTTERDAM

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- 1** The level and wavelength of emission of a fluorochrome is much more critical in erythroid cells than in other types of cells (this thesis).
- 2** A mutant form of KLF1, a factor essential for erythropoiesis, results in the reactivation of γ -globin (this thesis).
- 3** Inter-species differences in the expression of transcription factors during development should always be considered when results obtained in animal models are extrapolated to the human situation (this thesis and Sankaran V.G, Nature 2009, 460(7259):1093-7).
- 4** The silencing of the γ -globin genes depends on multiple factors (this thesis).
- 5** Participation of TAF10 in TBP-based and TBP-free complexes and its implication in postnatal regulation of genes highlights its role as a fine tuner of transcription and a possible coregulator of globin switching (this thesis and Tatarakis A et al 2008, Mol Cell ;31(4):531-43).
- 6** BCL11A is a crucial regulator of fetal hemoglobin reported recently in human cells and probably participates on a γ -globin repressing complex (this thesis and Sankaran V.G, Science 2008, 322(5909):1839-42).
- 7** The diversity of canonical and non-canonical TFIID complexes is a reflection of the high level of complexity governing the process of transcriptional activation during cell differentiation (Deato et al. 2007, Genes Dev: 21(17):2137-49).
- 8** "Success consists on going from failure to failure without loss of enthousiasm", Winston Churchill, politician (1874-1965).
- 9** "The artist started to work for the glory but he got so involved in his work that glory does not interest him any more", Marcel Proust, writer (1871-1922).
- 10** "Be who you are and say what you feel, because those who mind don't matter and those who matter don't mind", Dr. Seuss, writer (1904-1991).
- 11** "Caminante, son tus huellas
el camino, y nada más;
caminante, no hay camino,
se hace camino al andar."
"Traveler, your footprints
are the path, and nothing more;
traveler, the route does not exist,
you lay the path."

Antonio Machado, poet (1875-1939).