

Stellingen

Behorend bij het proefschrift

The Role of Sp1 and Sp3 Transcription Factors in Hematopoiesis

1. Sp1 and Sp3 function redundantly in the adult hematopoietic system.
This thesis
2. Mx1-Cre mediated simultaneous depletion of Sp1 and Sp3 results in severe hematopoietic defects.
This thesis
3. Sp1 and Sp3 are crucial for B cell development as they redundantly regulate genes involved in cell proliferation, differentiation and survival.
This Thesis
4. Combined depletion of Sp1 and Sp3 in the mouse megakaryocyte lineage provides a phenocopy of Bernard Soulier Syndrome.
This thesis
5. Transcription factor Sp1 is essential for embryonic development but dispensable for cell growth and differentiation.
Marin et. al. Cell. 1997 May 16;89(4):619-28.
6. Severe placental defects may be the underlying cause of most developmental abnormalities observed in *Sp1::Sp3* compound heterozygous mouse embryos.
Krüger et. al. Dev Dyn. 2007 Aug;236(8):2235-44.
7. Cardiac malformation may contribute to the post-natal lethality observed in Sp3 deficient embryos.
Van Loo et. al. Mol Cell Biol. 2007 Dec;27(24):8571-82
8. The CRISPR/Cas system allows for the one-step generation of animals carrying mutations in multiple genes, an approach that will greatly accelerate the in vivo study of functionally redundant genes and of epistatic gene interactions.
Wang et. al. Cell. 2013 May 9;153(4):910-8.
9. "The process of scientific discovery is, in effect, a continual flight from wonder".
Albert Einstein
10. "A successful man is one who makes more money than his wife can spend. A successful woman is one who can find such a man".
Lana Turner
11. "Our scientific power has outrun our spiritual power. We have guided missiles and misguided men".
Martin Luther King, Jr.