

Stellingen behorend bij het proefschrift

## The Transcription Factor Network in Embryonic Stem Cells

### The virtue of promiscuity?

1. Oct4 interacts with pluripotency transcription factors and is required for their efficient targeting to genomic binding sites. (this thesis)
2. Oct4, Sox2 and Esrrb cooperatively bind the *Nanog* promoter to regulate *Nanog* expression. (this thesis)
3. Orphan nuclear receptor Esrrb contacts the basal transcription machinery. (this thesis)
4. The use of low-adherence tubes greatly improves yield and specificity in protein purification. (this thesis)
5. The interaction network of Oct4 contains many self-renewal and pluripotency factors, whose encoding genes are often bound and regulated by Oct4. (this thesis)
6. Co-dependent recruitment of transcription factors likely constitutes an important facet of binding site occupancy, as variations in transcription factor binding are frequently associated with alterations in motifs of other transcription factors. (W. Zheng *et al.*, Nature, 2010)
7. Putting high-quality teachers in the classroom will not eliminate variability among students nor guarantee equally high achievement from all children, but ignoring teachers as a salient contributor to the classroom environment represents a missed opportunity to promote children's potential in school and their success in life. (J. Taylor *et al.*, Science, 2010)
8. The speed with and extent to which interactions are formed on social networking sites should question their significance.
9. The most valuable time in the lab is probably spent at the desk; the most valuable time in a scientific meeting is probably spent at the bar.
10. When you are no longer interested in changes in your environment, it's time to change environment.
11. People rarely succeed unless they have fun in what they are doing. (Dale Carnegie)

Debbie van den Berg