

## **Formation of transcription factor complexes during embryonic erythroid development**

1. The complexity and hierarchy of erythropoiesis is tightly regulated by specific transcription factors. (this thesis)
2. Proximity Ligation Assay (PLA) is not limited to detect single molecules, but also detects subcellular localization. (this thesis)
3. LDB1 and FOG1 already form different complexes early during embryonic stem cell differentiation. (this thesis)
4. PLA allows the monitoring of the changes of different protein complexes even when a very low amount of proteins is present. (this thesis)
5. CDC73, together with LMO2 and LDB1, negatively regulates erythroid genes in MEL cells. (this thesis)
6. The analysis of proteins co-expressed and interacting with each other in a late mature cell type are often already present at the earliest stages of development. (Meier et al., Development, 2006)
7. The model proposed by Rodriguez et al., EMBO, 2005 suggesting that different GATA-1 complexes execute specific classes of tasks at different stages of erythroid differentiation is too simple (Soler et al., Genes and Development, 2010)
8. PLA is particularly well suited for sensitive, specific and multiplexed analysis of protein expression, post-translational modifications and protein-protein interactions. (Blokzijl et al., J. Intern Med., 2010))
9. It also has to be pointed out that as *in situ* PLA is a method based upon equilibrium reactions and several enzymatic steps, only a fraction of the interacting molecules is detected. (Weibrecht et al., Expert Rev. Proteomics 2010)
10. No matter how hard life can be, keep your head and there is always hope. Every time you overcome difficulties, you come out stronger.
11. You never know how close you are. Never give up on your dreams!