

## Wnt Signaling in Stem Cells and Cancer

### Stellingen

behorende bij het proefschrift

1. Wnt signaling suppresses neuroectodermal differentiation in mouse embryonic stem cells, partly through Tcf3 downregulation and induction of the novel Wnt-regulated microRNA, miR-211. (This thesis)
2. The embryonic stem cell-specific miR-302-367 cluster is negatively regulated by constitutive Wnt signaling in mouse embryonic stem cells. (This thesis)
3. The final outcome of Wnt signaling is context- and dosage-dependent. While Wnt signaling promotes self-renewal in mouse embryonic stem cells, its short-term ectopic activation suppresses pluripotency in human embryonal carcinoma cells (ECs). (This thesis)
4. The transcript encompassing the rs6983267 SNP and mapping to 8q24 is a novel Wnt-regulated non-coding RNA that underlies metastatic progression and chromosomal instability in colon cancer. (This thesis)
5. S100a4 is dispensable for tumor initiation in *Apc*- and *Smad4*-driven intestinal tumorigenesis. However, S100a4 ablation reduces desmoids formation in the *Apc1638N* mouse model. (This thesis)
6. "The research engine is ignited by a question, fueled by curiosity and driven by vision" (this author)
7. "Imagination is more important than knowledge" (Albert Einstein)
8. "The greatest enemy of knowledge is not ignorance; it is the illusion of knowledge." (Daniel J. Boorstin)
9. "One doesn't discover new lands without consenting to lose sight, for a very long time, of the shore" (André Gide)
10. "Nothing is impossible, the word itself says I'm possible" (Audrey Hepburn)
11. "Let the beauty of what you love be what you do" (Rumi)

Yaser Atlasi, Rotterdam, 27-11-2013