

# Regulation of actomyosin contraction as a driving force of invasive lobular breast cancer

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#### **Propositions**

#### associated with the thesis

### "Regulation of actomyosin contraction as a driving force of invasive lobular breast cancer"

#### by Koen Schipper

- 1. High levels of actomyosin contractility are detrimental for the initiation of invasive lobular carcinoma development. (this thesis)
- 2. The sequencing of patient tumors should be complemented by insertional mutagenesis screening in mice to identify genes that are important for tumor development or therapy resistance. (Chapters 2 and 5 of this thesis)
- 3. Luminal mammary epithelial cells that lose E-cadherin expression undergo extrusion towards either the lumen or the basement membrane resulting in different cell fates. (Chapter 3 of this thesis)
- 4. Cancer associated fibroblasts likely have a both pro- and anti-tumorigenic roles in invasive lobular carcinoma depending of the stage of tumorigenesis (Chapter 3 of this thesis).
- 5. The persistence of basally extruded of E-cadherin-deficient mammary epithelial cells would explain the increased susceptibility of female CDH1 mutation carriers for invasive lobular carcinoma development.
- 6. Genetically engineered mouse models are essential to increase our understanding of the initiating steps of tumor development.
- 7. The effect of a genomic amplification or deletion event in tumors is not necessarily restricted to a single driver gene.
- 8. The conditions upon which a conclusion holds true are too often forgotten over time.
- 9. It is the long history of humankind (and animal kind, too) that those who learned to collaborate and improvise most effectively have prevailed. (Charles Darwin)
- 10. What we know is a drop, what we don't know is an ocean. (Isaac Newton)