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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)