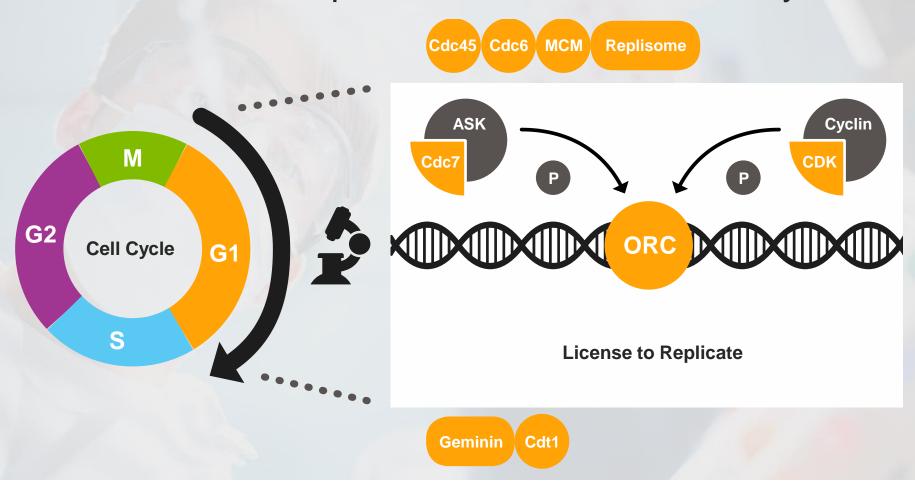


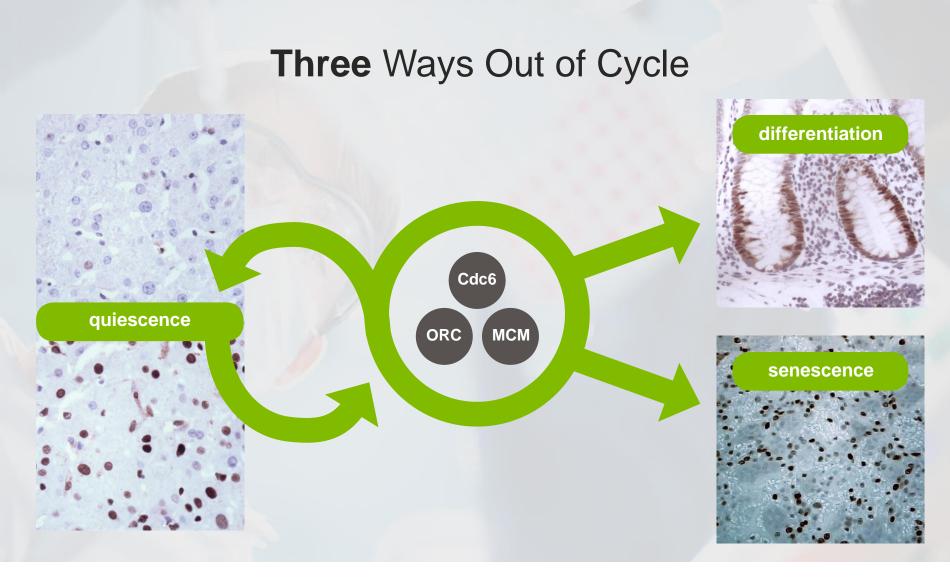




The **DNA** Replication Initiation Machinery









Introduction

DNA replication initiation proteins in tissue maintenance and cancer





Introduction

DNA replication initiation proteins in tissue maintenance and cancer

From bench to bedside – new tests for cancer detection and prognosis







50% of patients who receive loco-regional treatment will never relapse, whereas the remainder will die of metastatic disease



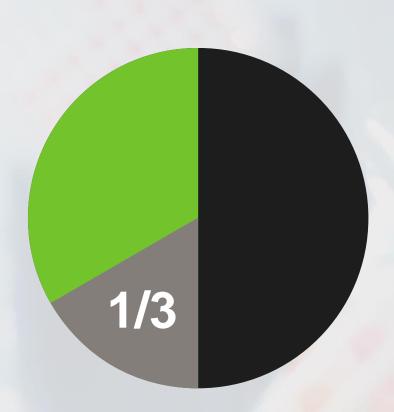


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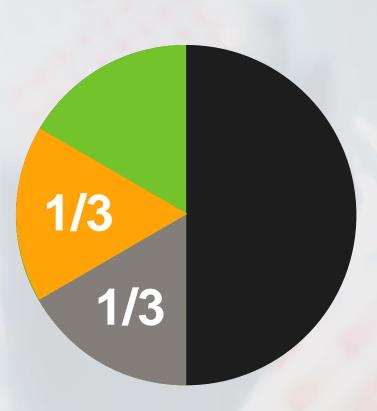


1/3 of patients who are nodenegative will experience relapse

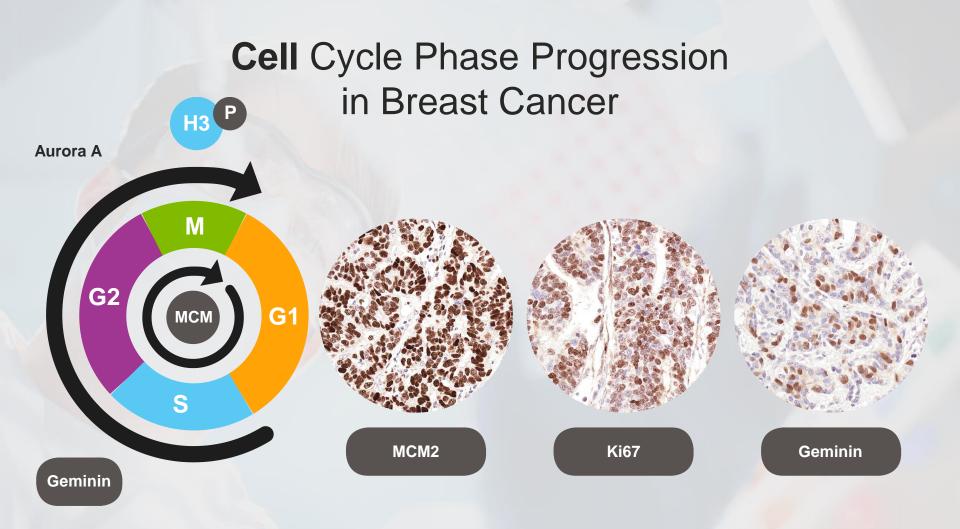




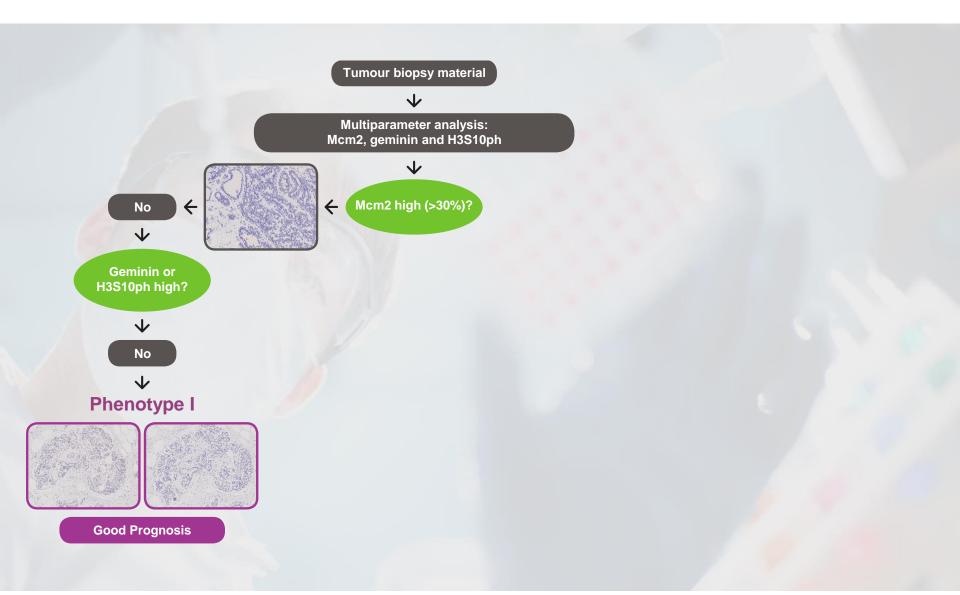
1/3 of node-positive patients not receiving adjuvant therapy will be disease-free after 10 years



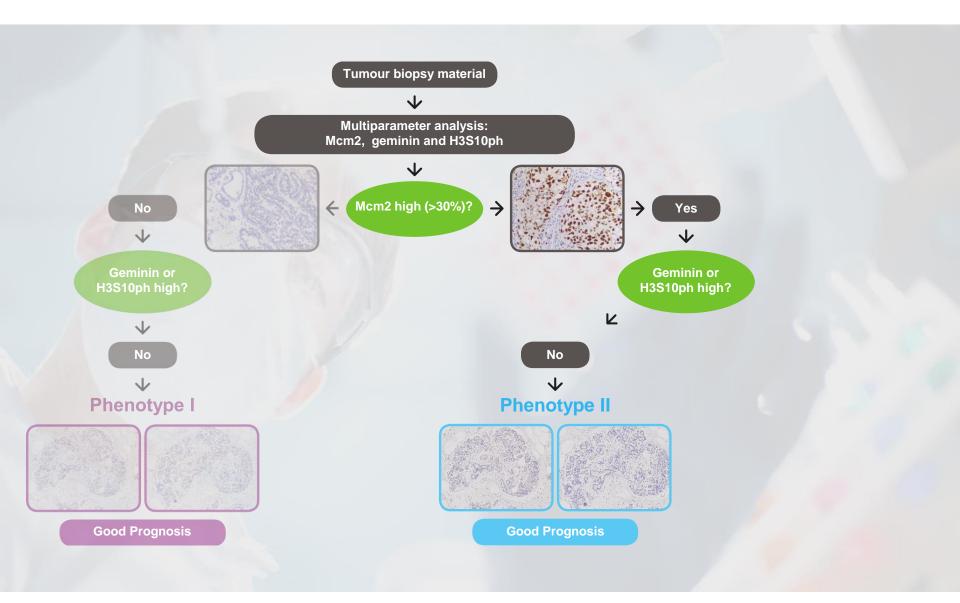




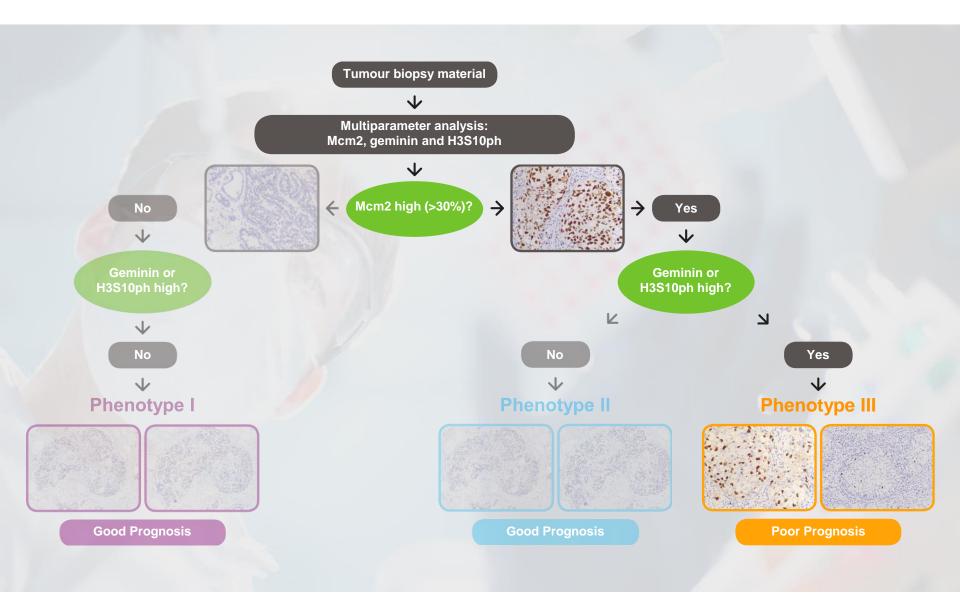






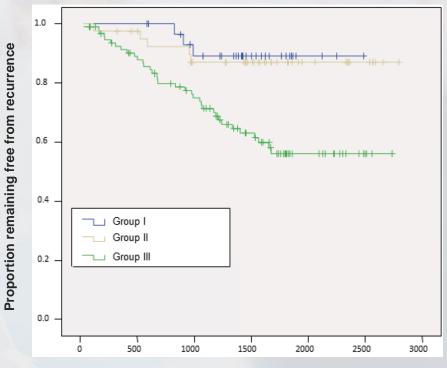






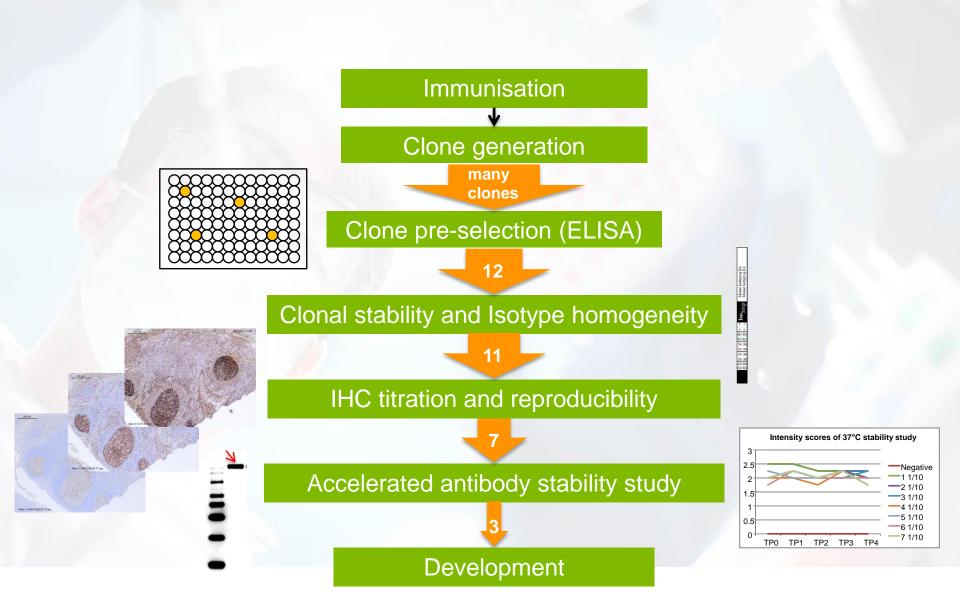


Cell Cycle State Predicts the Outcome of Breast Cancer after Surgery



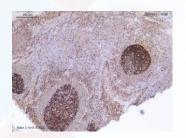
Days from diagnosis to death, recurrence or last follow up

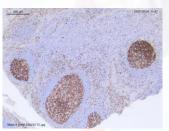


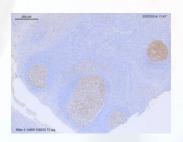




IHC titration curve Mcm2 antibodies





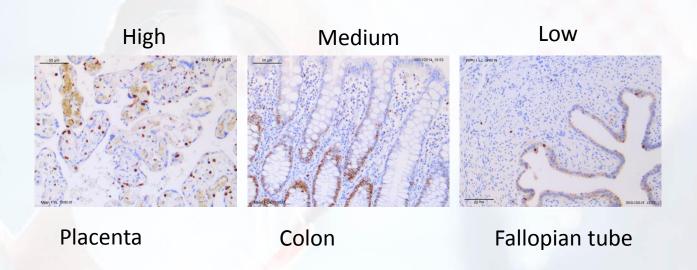




Mcm2 BD Ab



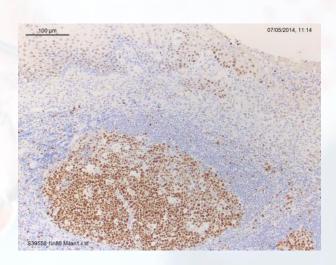
Validation in tissues with varying expression levels





Stability testing of Ab clones

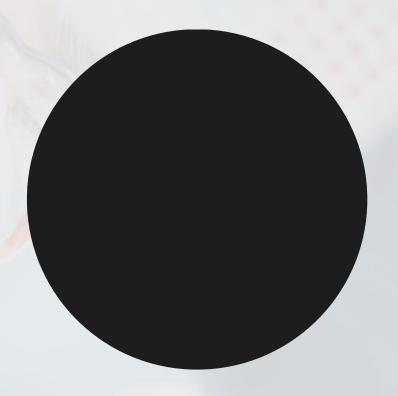
37°C Stability Study day 80



Select stable clones at a minimum of 18 months equivalent real time



Over and under treatment for patients with breast cancer?

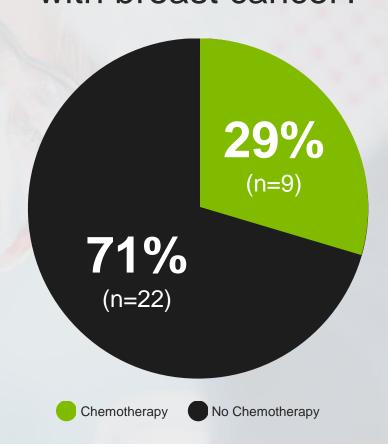




Over and undertreatment for patients with breast cancer?

Phenotype I

24% (18/76) of patients received adjuvant chemotherapy with minimal benefit

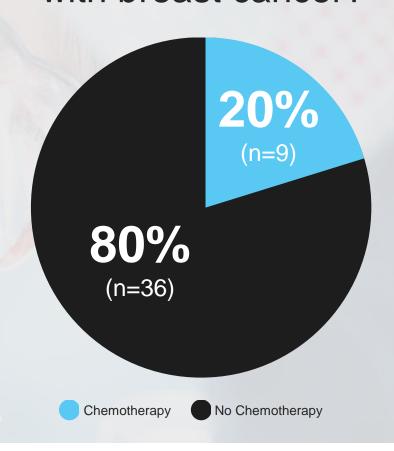




Over and undertreatment for patients with breast cancer?

Phenotype II

24% (18/76) of patients received adjuvant chemotherapy with minimal benefit

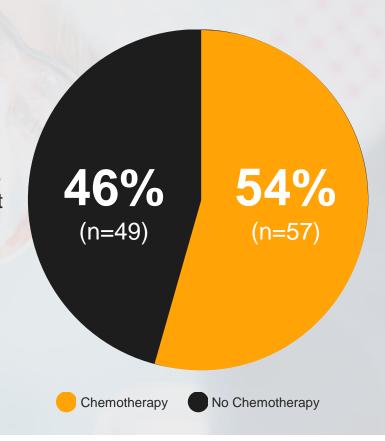




Over and **under treatment** for patients with breast cancer?

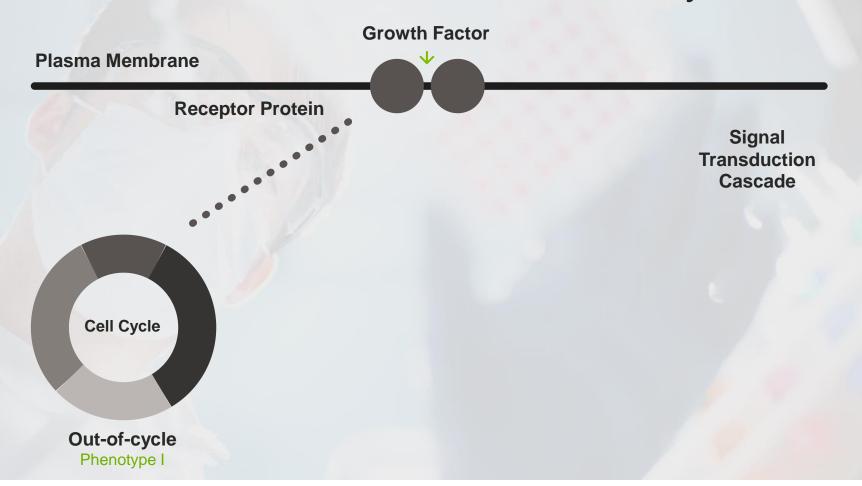
Phenotype III

46% (49/106) of patients did not receive treatment with adjuvant chemotherapy



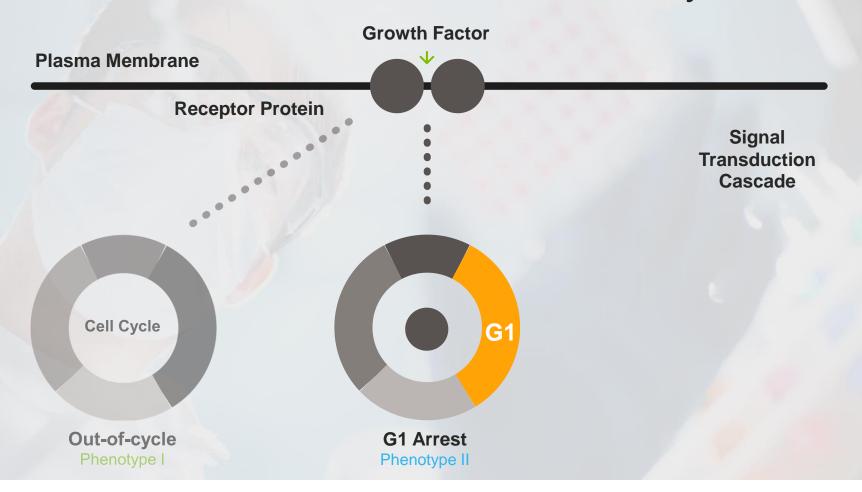


Failed trials? Let FGL find out why...



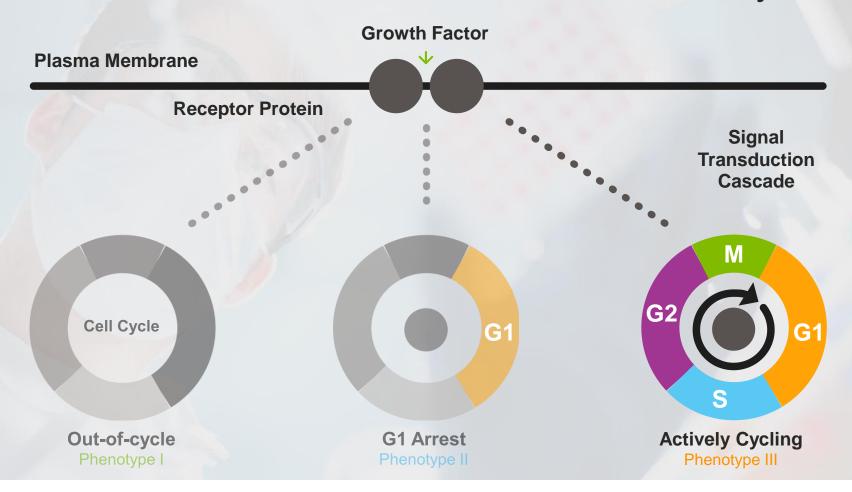


Failed trials? Let FGL find out why...





Failed Clinical trials? Let FGL find out why...





Advantages

- Can be used for all forms of breast cancer
- Simple, inexpensive IHC based test
- Identification of CT sensitive and insensitive tumours for breast cancers
- Enables patient stratification for clinical oncology trials
- Applicable to FFPE samples

