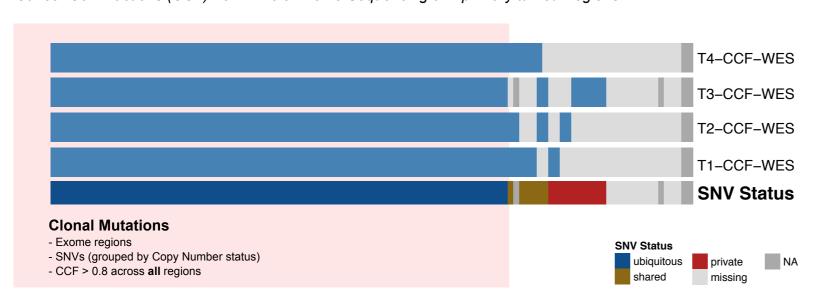
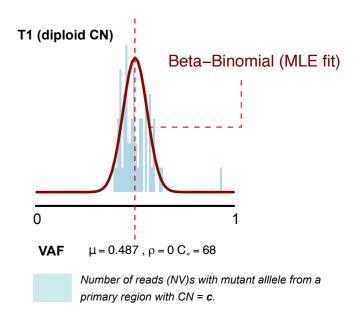
A PATIENT 52

Cancer Cell Fractions (CCF) from Whole Exome Sequencing of 4 primary tumour regions

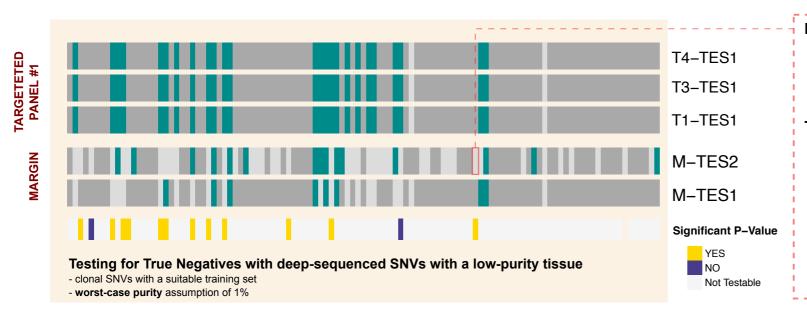


B Training model.

Expected read counts harbouring a variant allele, for a clonal SNV (adjusted for Copy Number)



► Test data. Deep Sequencing reveals clonal SNVs in the primary tumour that are missing in the margin samples.



Idea Assume they are clonal, the frequency of theit mutant allele should follow the same distribution for the frequency of all the other clonal SNVs (B)

Test Use the fit distribution fit to write a null hypothesis (H₀) for the model in which these SNVs are clonal, but undetected in the targeted panels.

Rejecting the null means having evidence that those SNVs are unlikely clonal. This, combined with a phylogenetc analysis allows to establish that they are ancestral.

Deep-resolution clonal SNVs (~3000x)

NV < k in M; tested with read coverage from tumour (NR), adjusted for multiple comparisons.

