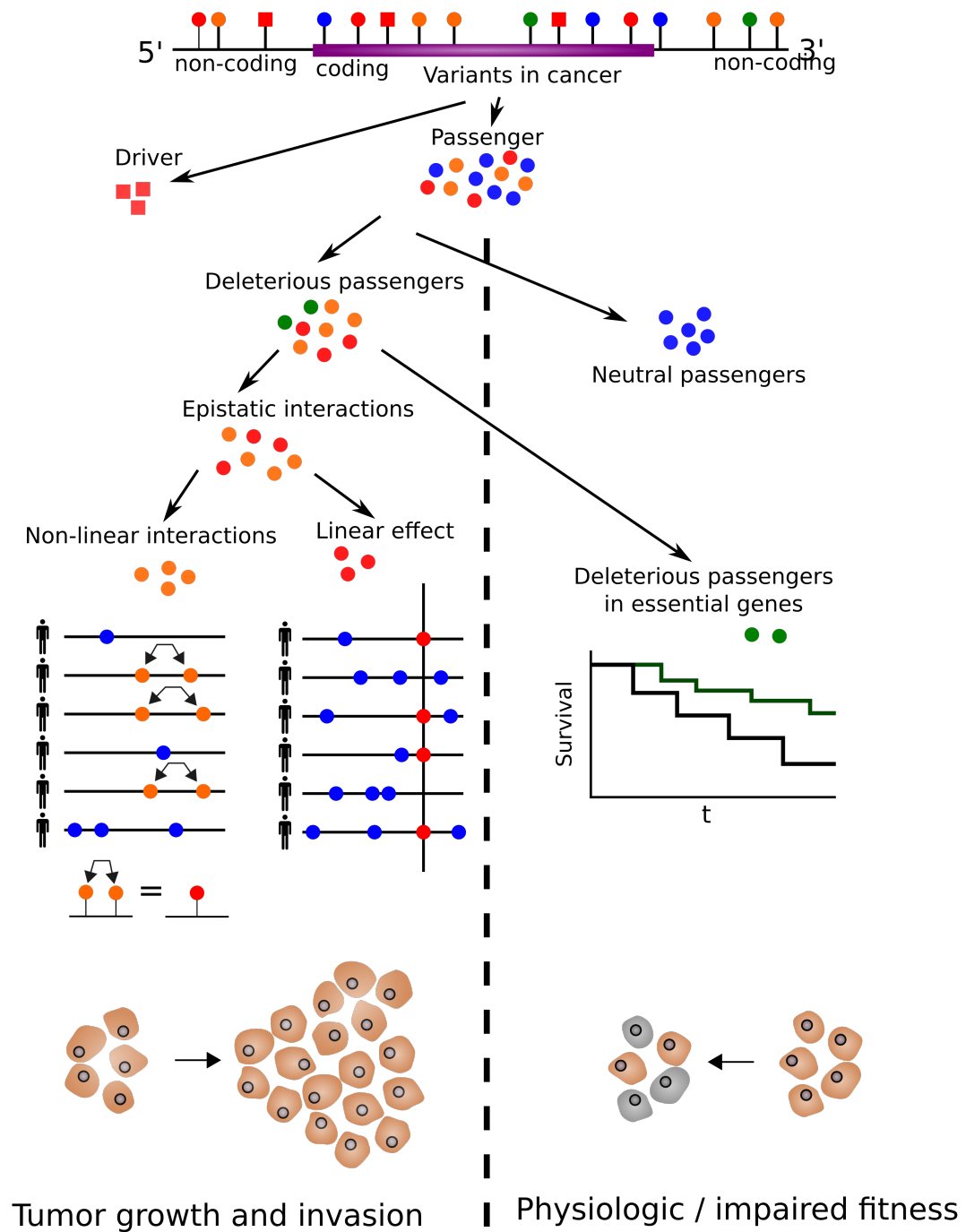
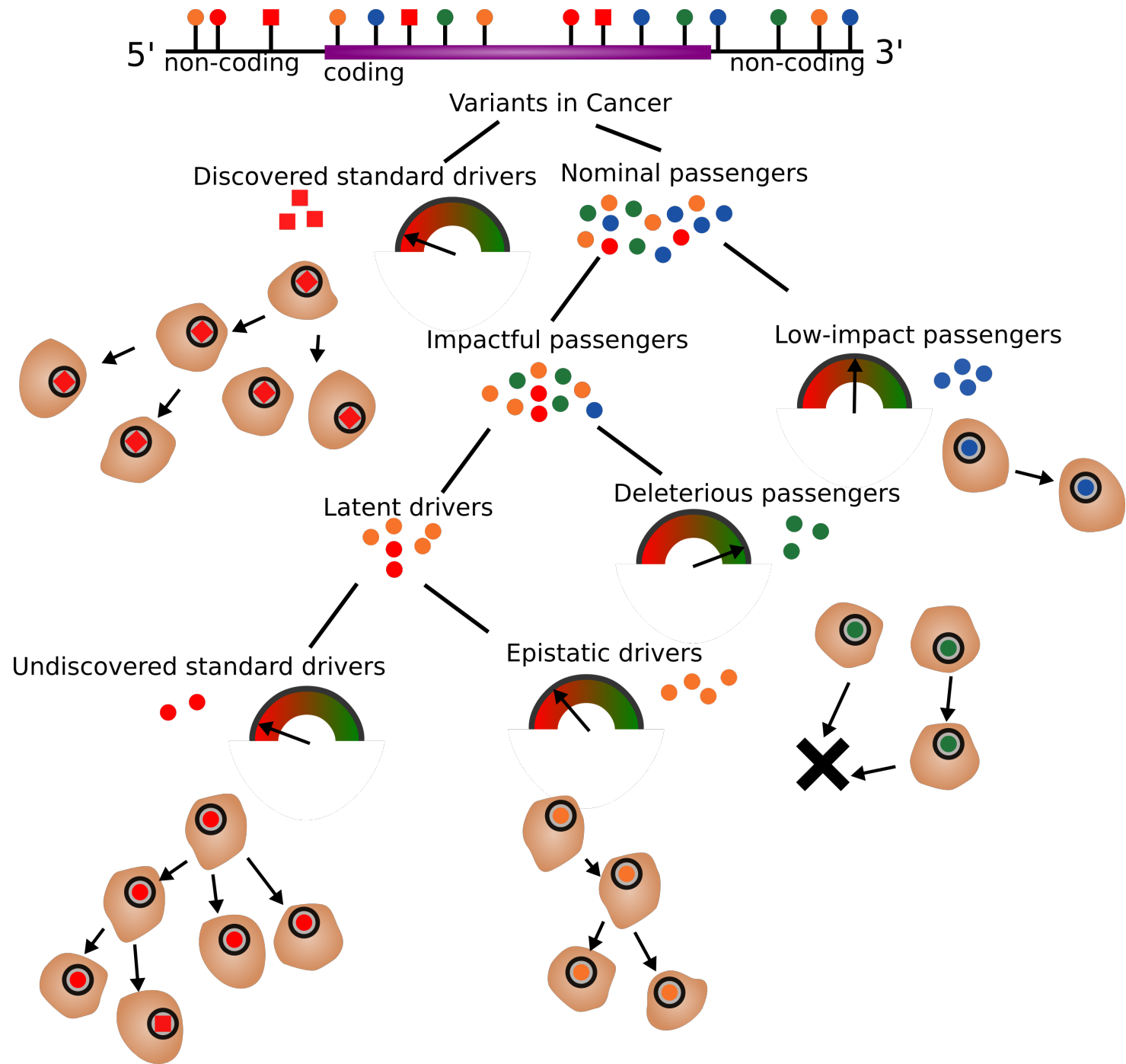
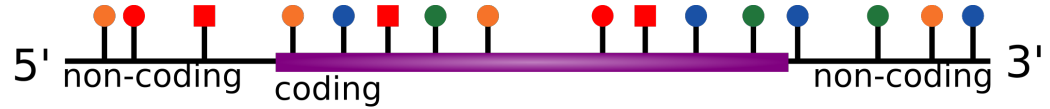
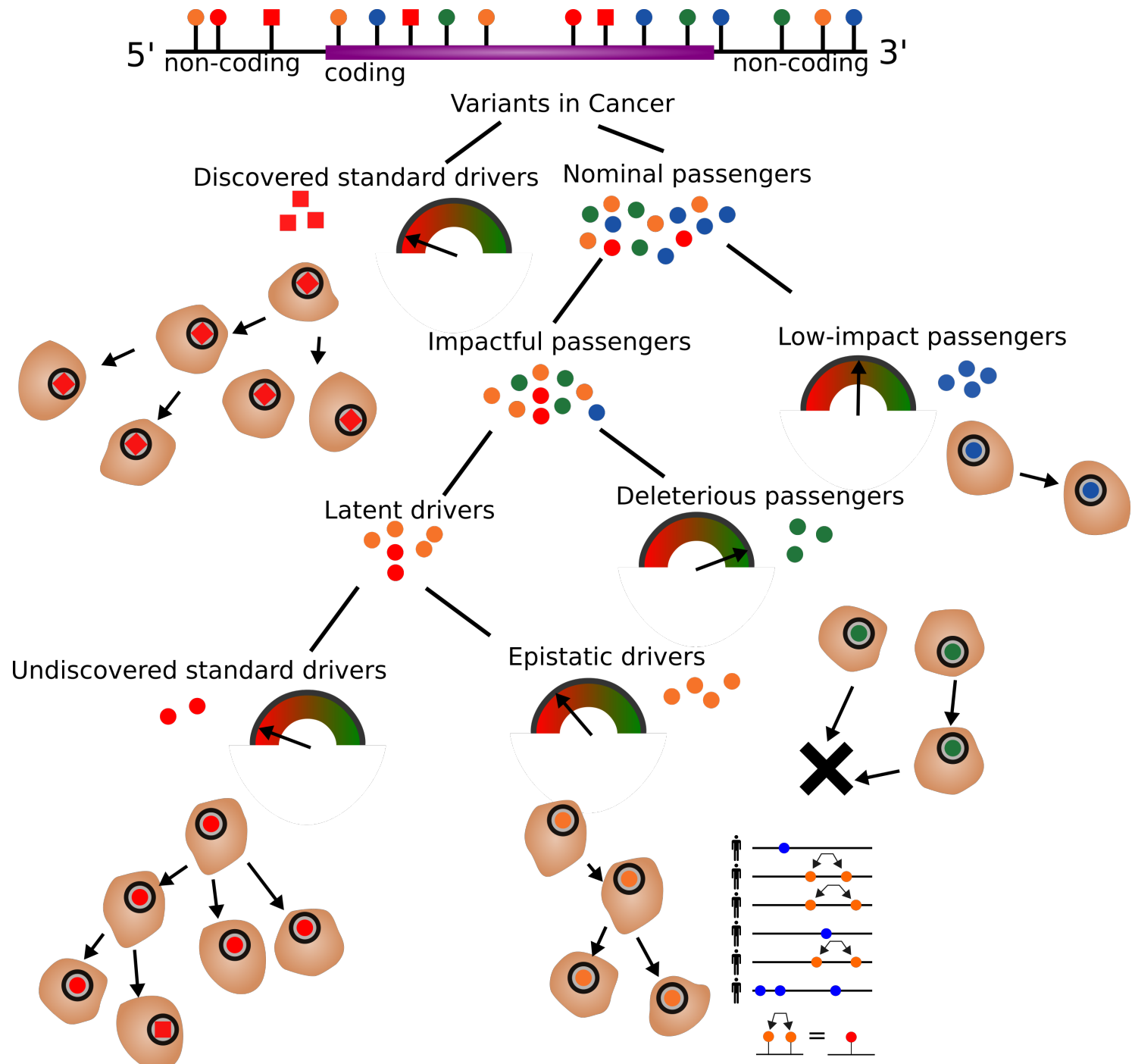


# Extended abstract slide pack

11/04/2016







Variants in Cancer

Discovered standard drivers

Nominal passengers

Impactful passengers

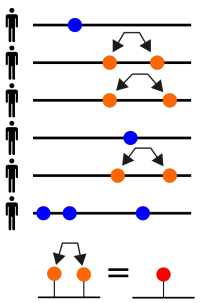
Low-impact passengers

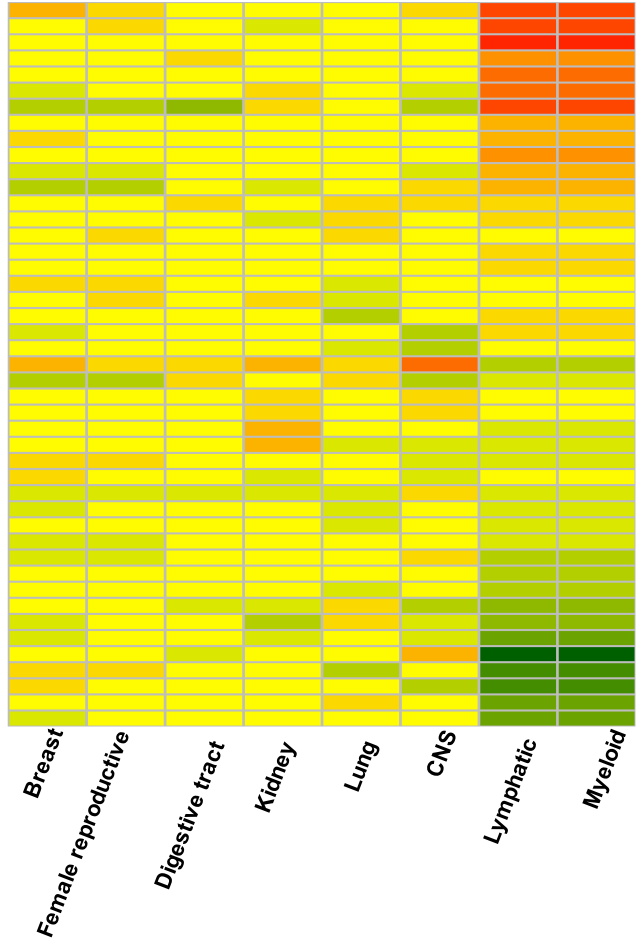
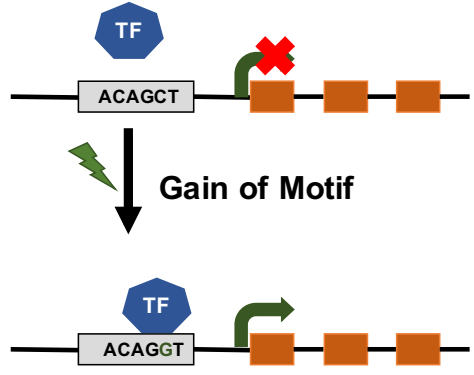
Latent drivers

Deleterious passengers

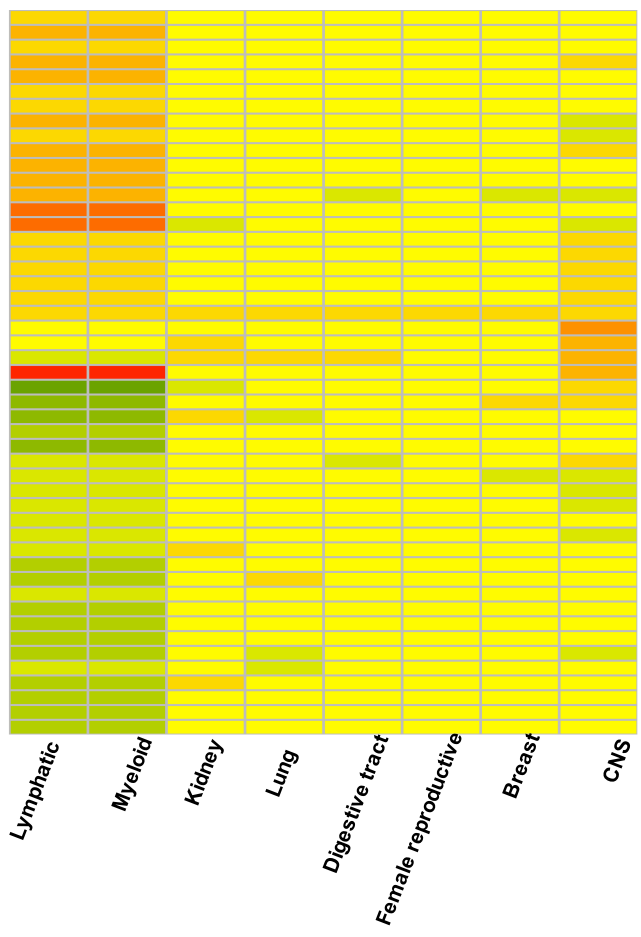
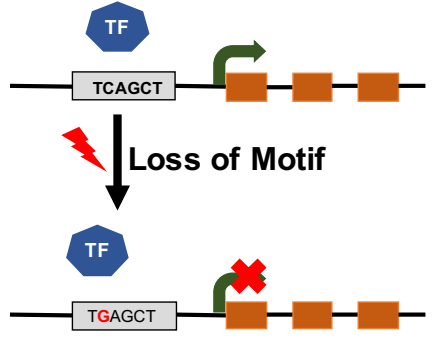
Undiscovered standard drivers

Epistatic drivers

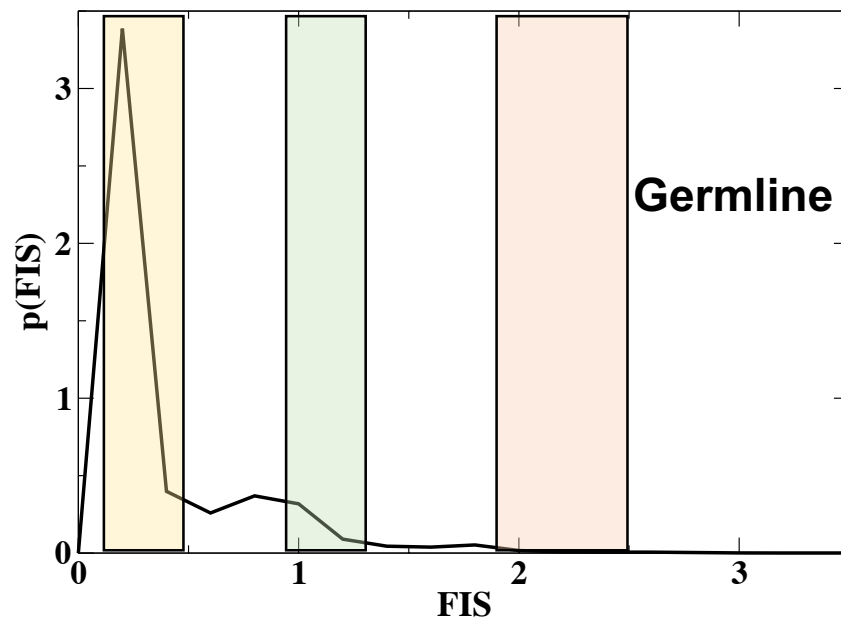
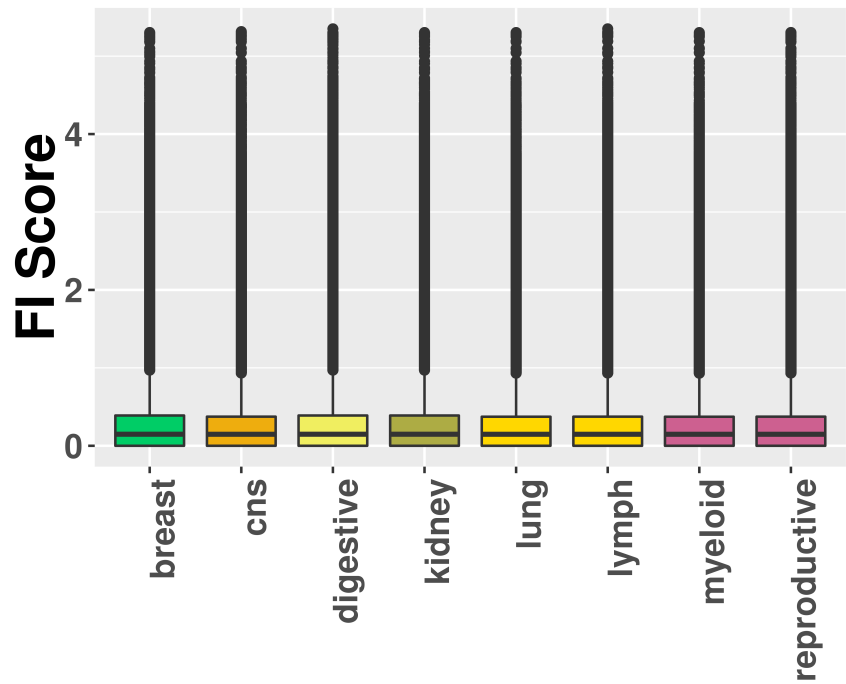
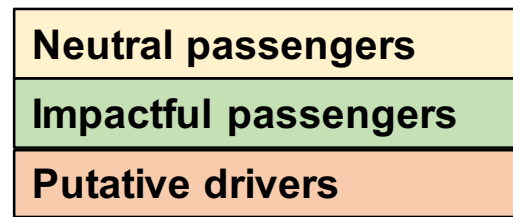
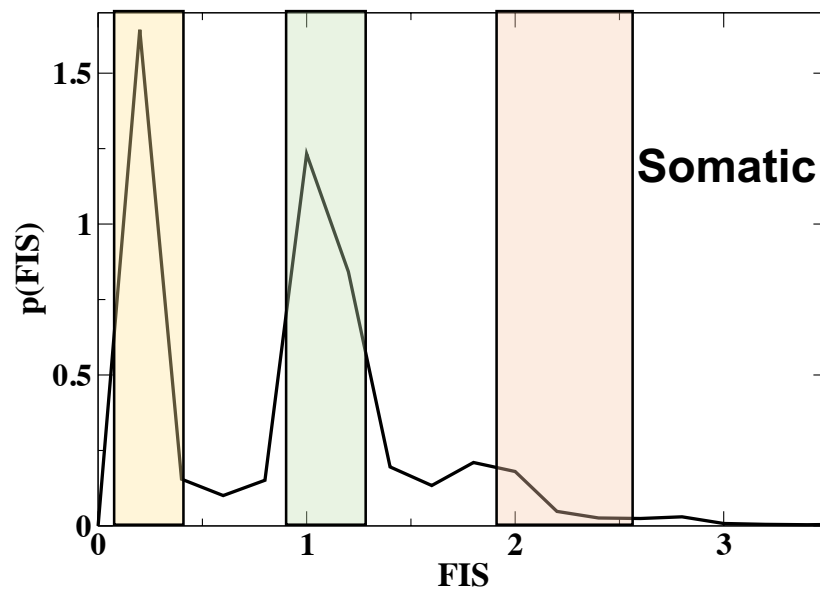
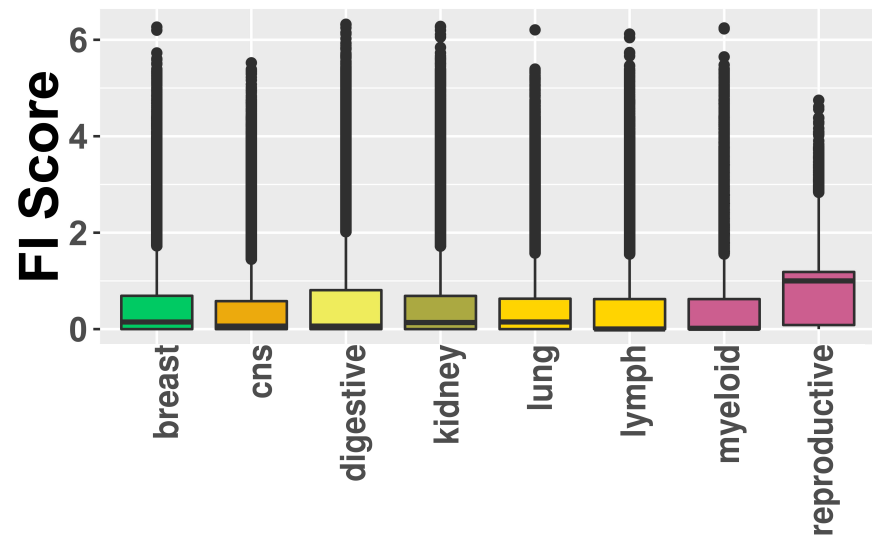




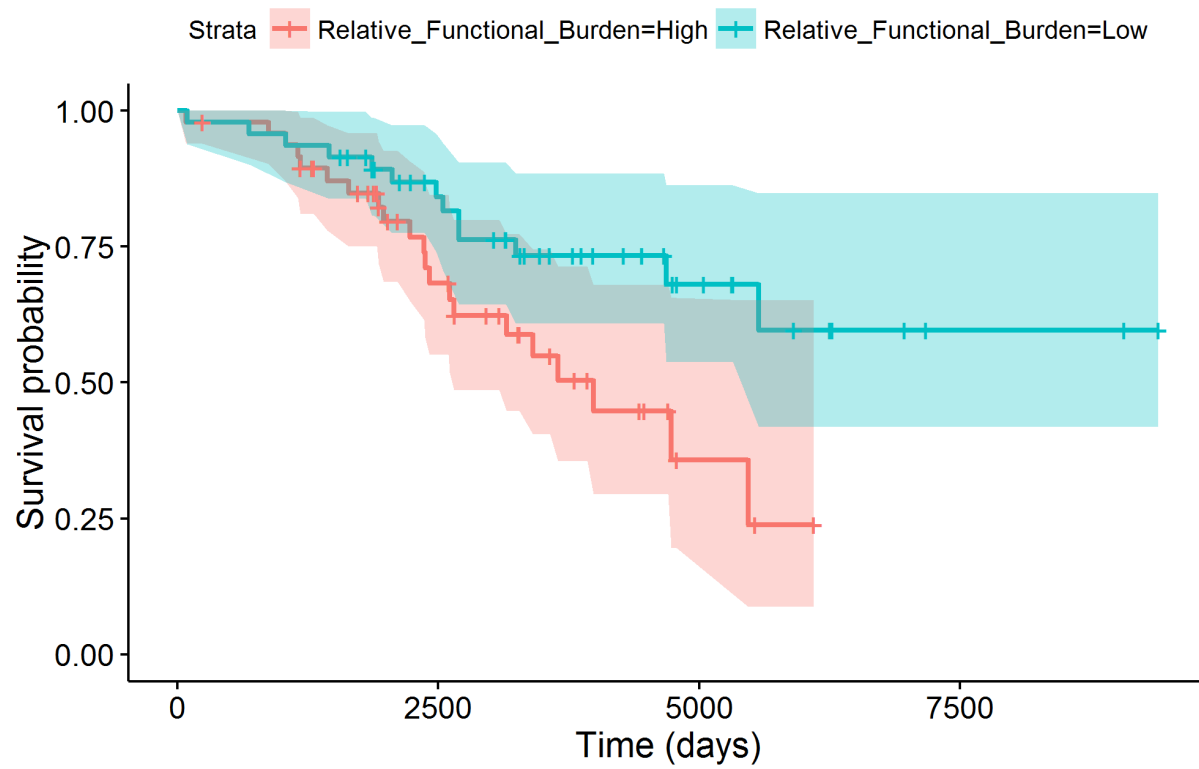
- OVOL2
- CPEB1
- CCNT2
- NKX3-1
- BRCA1
- AP1
- HNF4
- MAZ
- MZF1
- SIX5
- ARNT
- ARID3A
- NFATC2
- TEAD1
- KLF12
- BARX1
- HMGAI
- IRF
- STAT
- TCF7L2
- AHR::ARNT
- ZNF354C
- ETS
- PRRX2
- SRY
- MYOG
- FOXC1
- NFIC
- TFCP2
- ETV4
- NFE2L1::MAFG
- SOX17
- CACD
- ITGB2
- TCF12
- MYB
- FOXA
- RUNX1
- SOX10
- HOXA7
- YY1
- GATA
- SREBP
- NKX2-5
- SP1



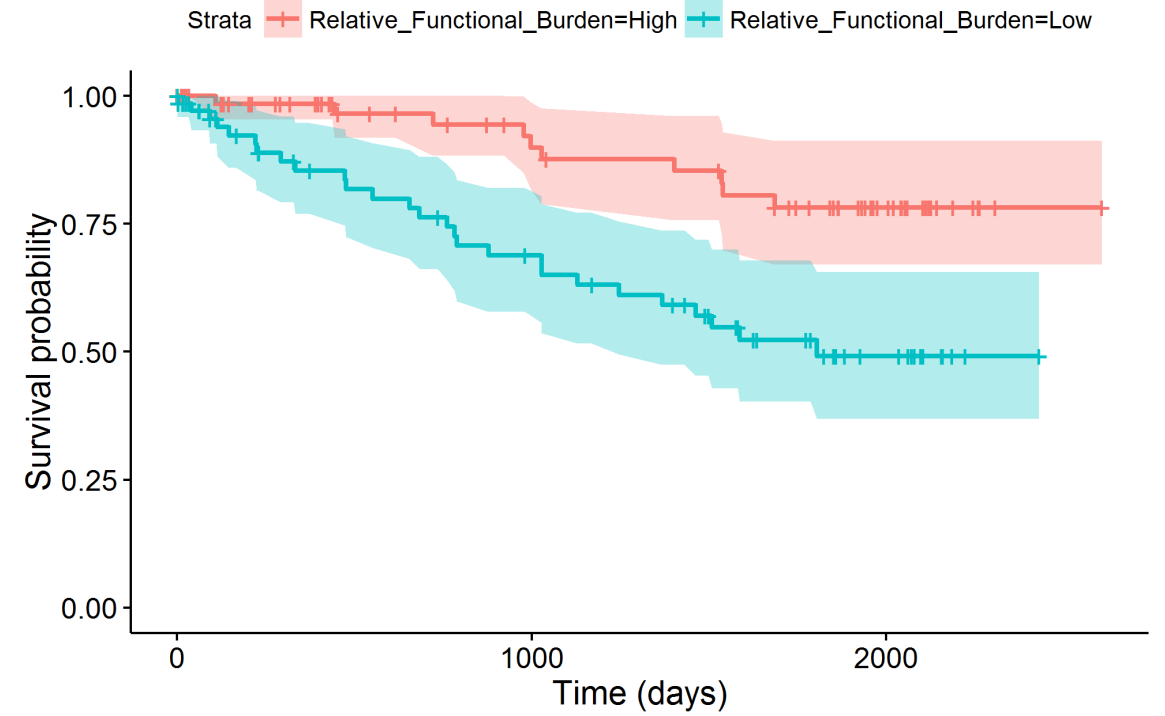
- ZNF691
- SRF
- ATF6
- FOXA
- BCL
- ELF1
- YY1
- POU1F1
- CEBPB
- AP1
- ZFX
- MEF2
- STAT
- HDAC2
- VDR
- ZNF524
- NRF1
- PAX5
- ATF3
- REST
- BHLHE40
- RFX5
- MYC
- SP1
- MAF
- EGR1
- HNF4
- ZEB1
- ZNF589
- CTCF
- PPARA
- TBX1
- HIC1
- ESRRA
- SOX2
- EWSR1::FLI1
- POU2F2
- PRDM1
- SOX9
- SOX10
- SOX
- XPB1
- RAD21
- BDP1
- SIN3A
- RORA
- HF1H3B
- MYOD1



### Lymph-CLL



### Kidney-RCC



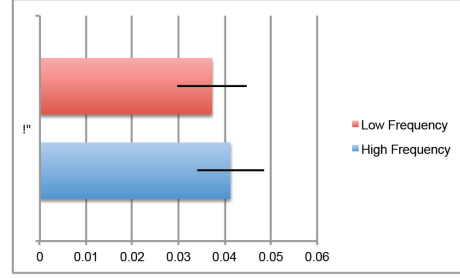
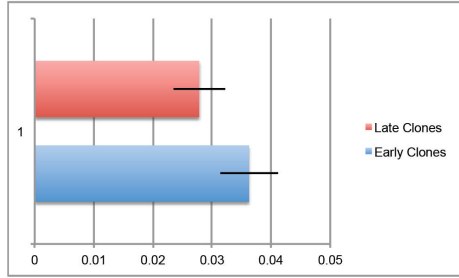
# FUNSEQ - No Drivers

## Aloft - no drivers

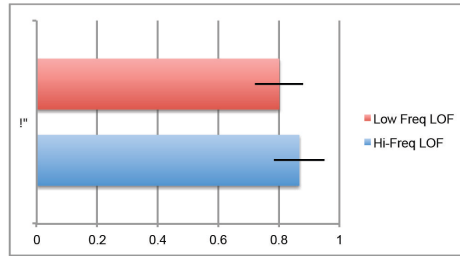
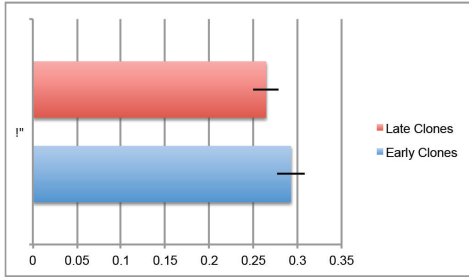
Early vs Late Subclones

High vs Low Frequency

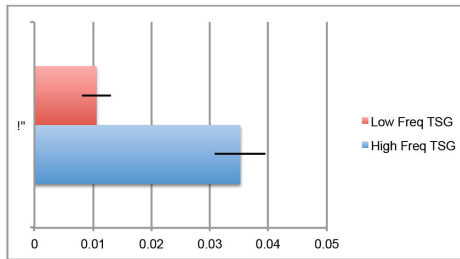
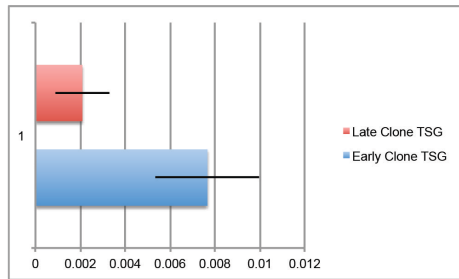
Hi Impact LOF



ALL LOF



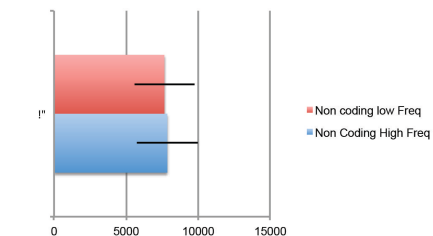
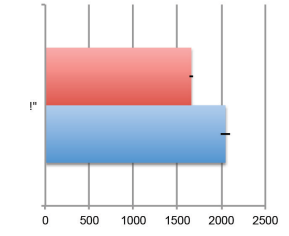
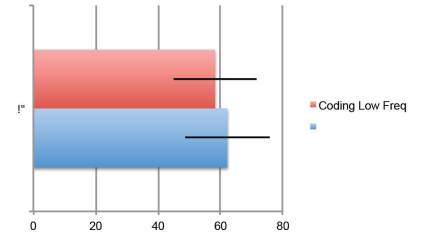
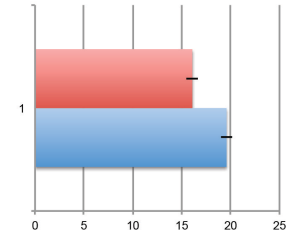
ALL LOF Tumor Suppressor Genes



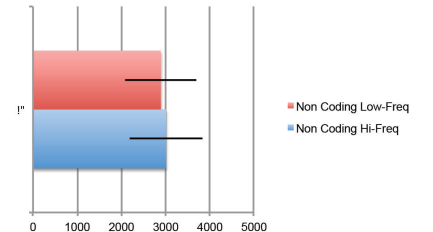
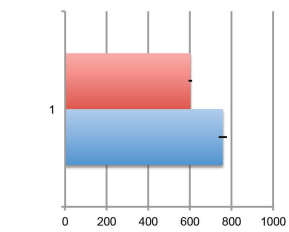
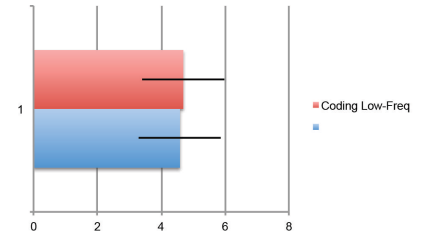
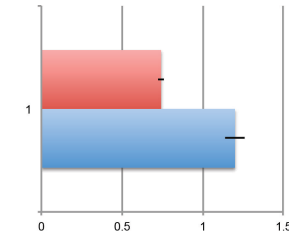
Early vs Late Subclones  
(Almost complete sample)

High vs Low Freq  
(Small sample ~200 patients)

Any impact



Hi Impact





# FUNSEQ - No Drivers Tumor Suppressor Genes

EARly vs Late Subclones  
(Almost complete sample)

High vs Low Freq  
(Small sample ~200 patients)

Hi Impact

