

Supplementary Materials: Shallow whole-genome sequencing from plasma identifies FGFR1 amplified breast cancers and predicts overall survival

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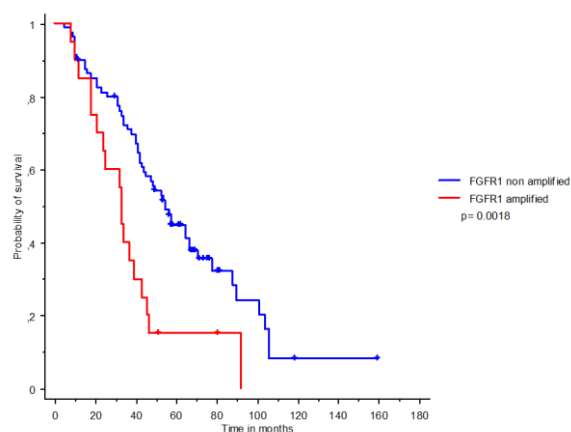


Figure S1. Overall Survival according to FGFR1 Amplification.

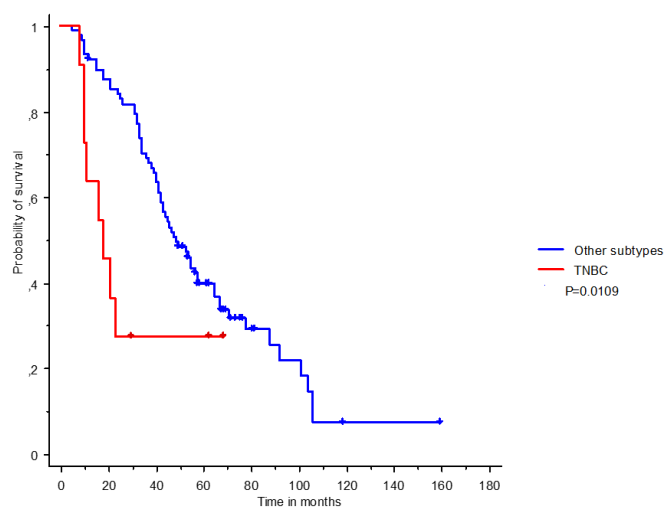


Figure S2. overall survival according to histological subtype (Log Rank).

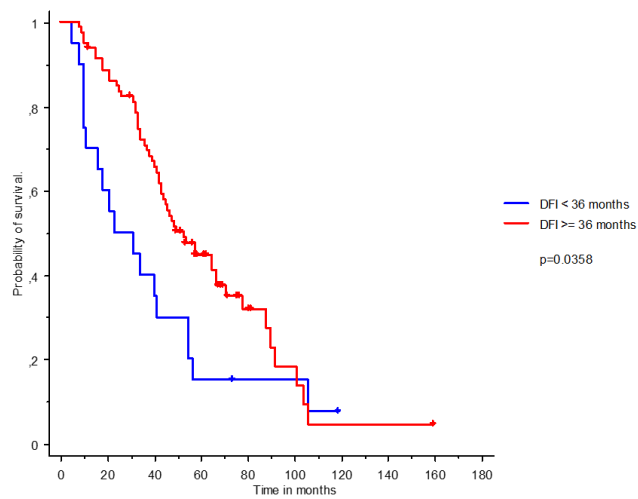


Figure S3. Overall survival according to Disease Free Interval in months (Log Rank).

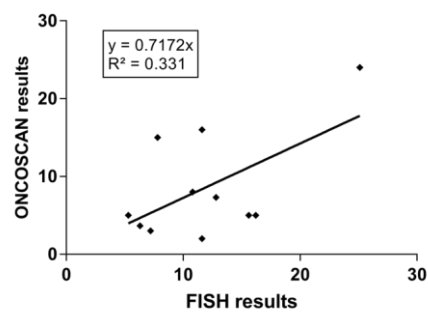
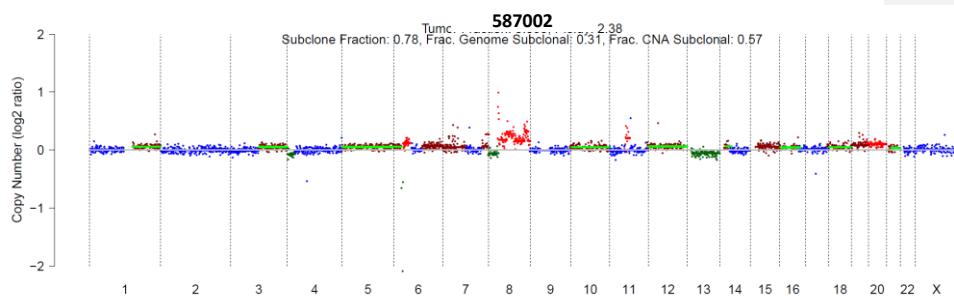
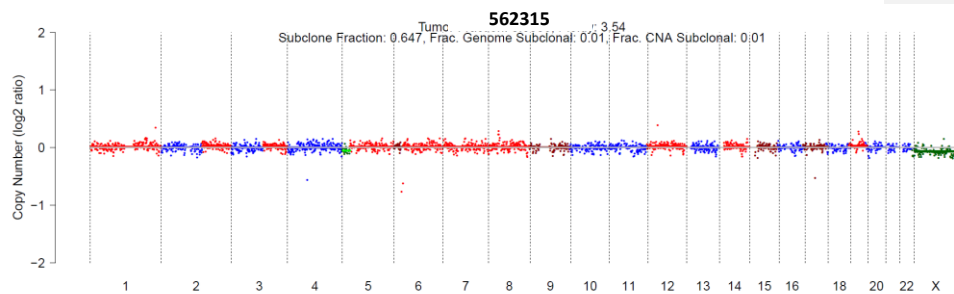
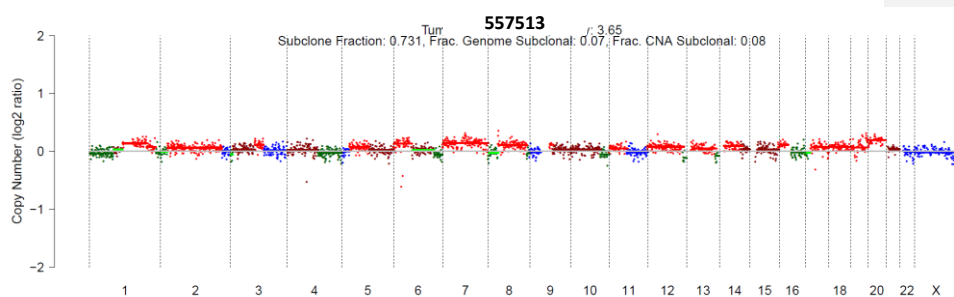
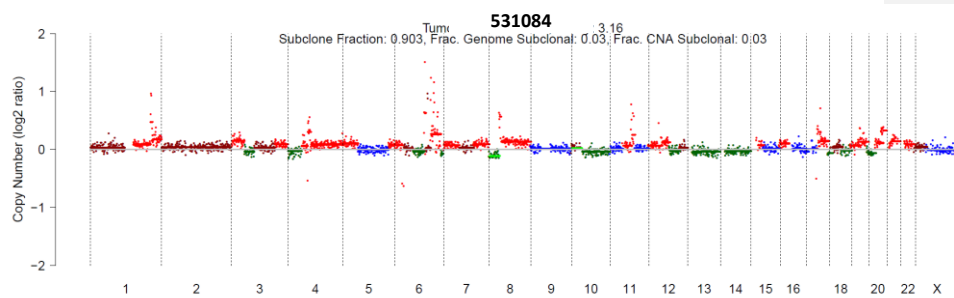
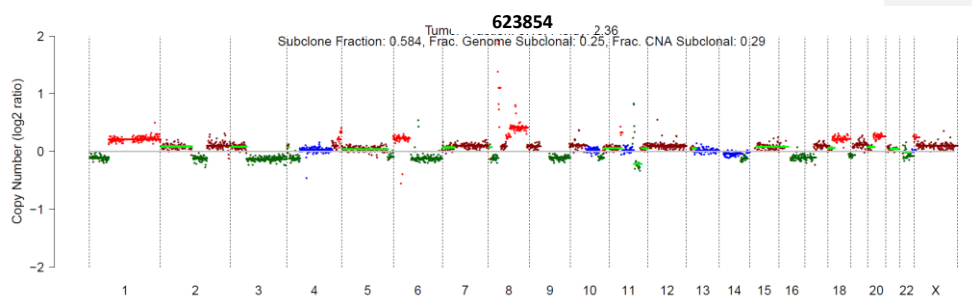
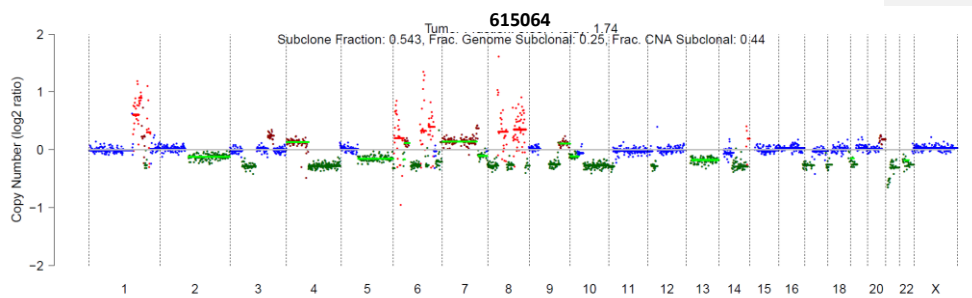
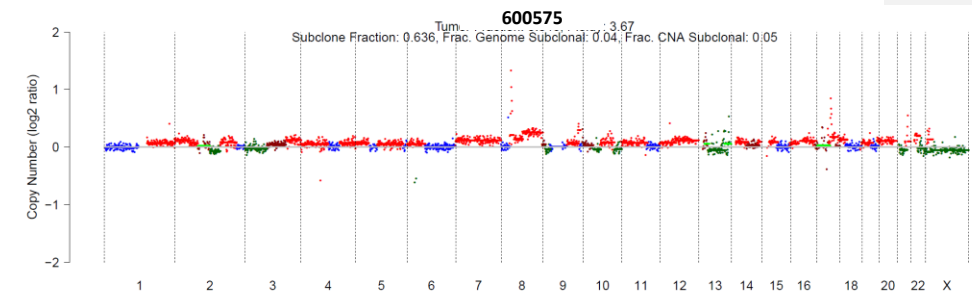
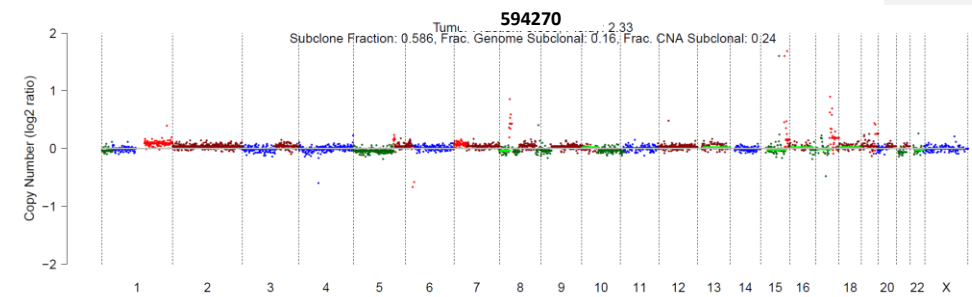


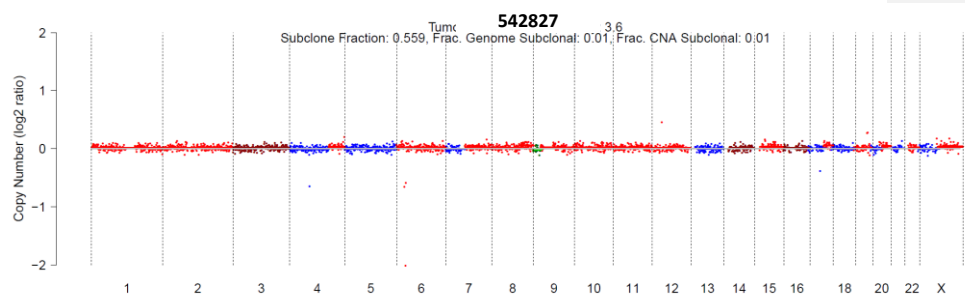
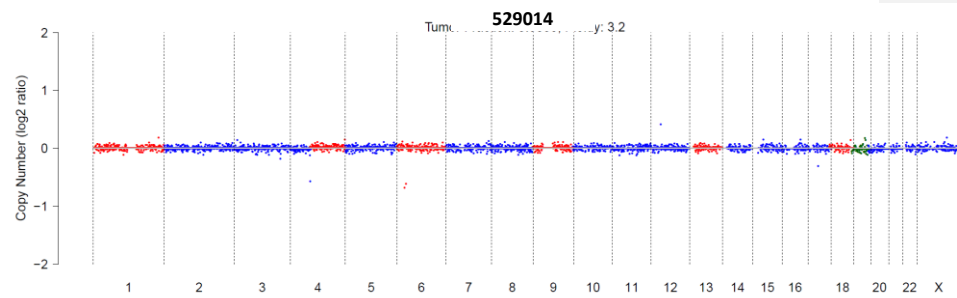
Figure S4. Correlation between Oncoscan and FISH results.

FGFR1 amplification positive samples & detected in plasma DNA

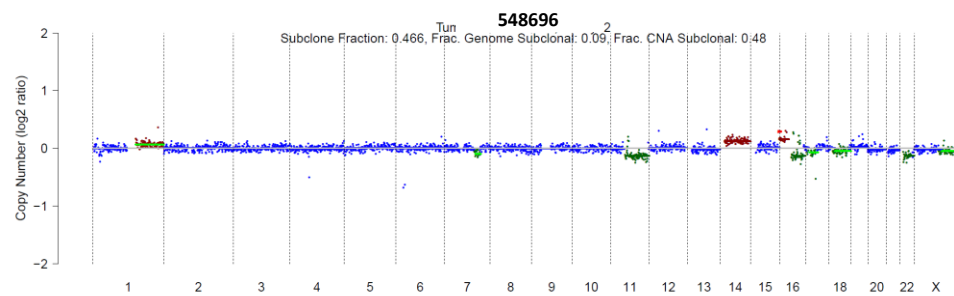
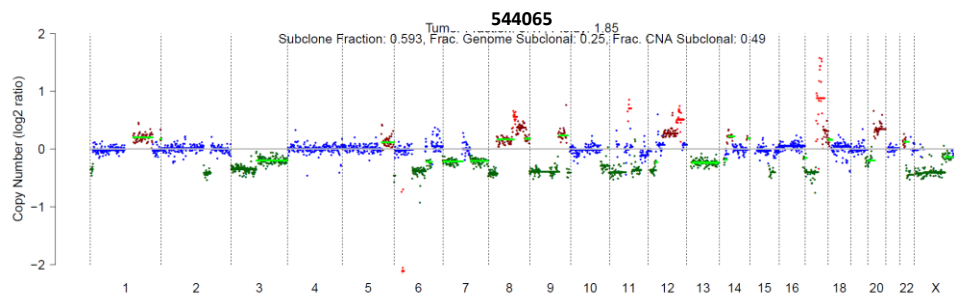
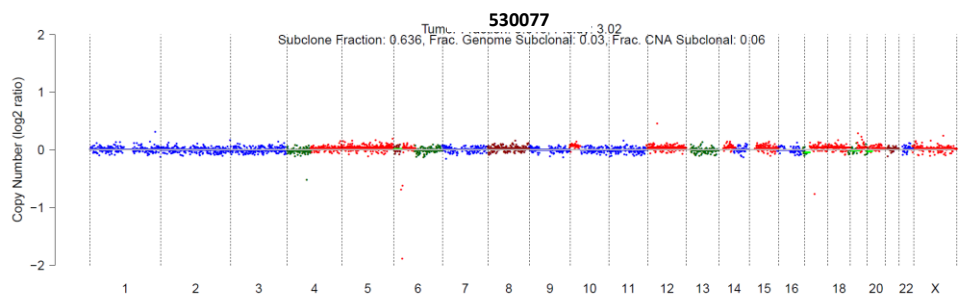
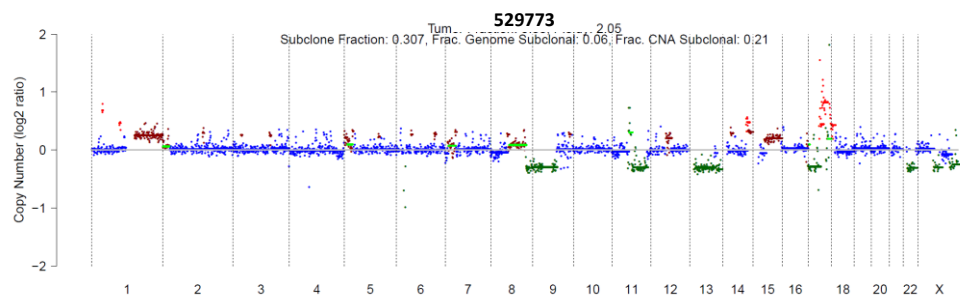


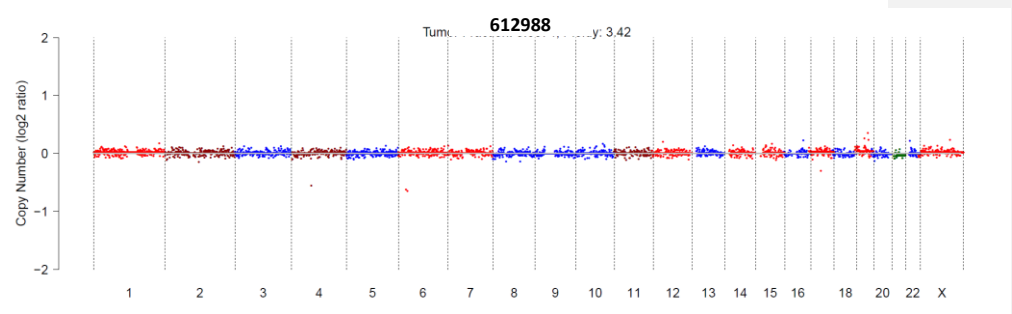
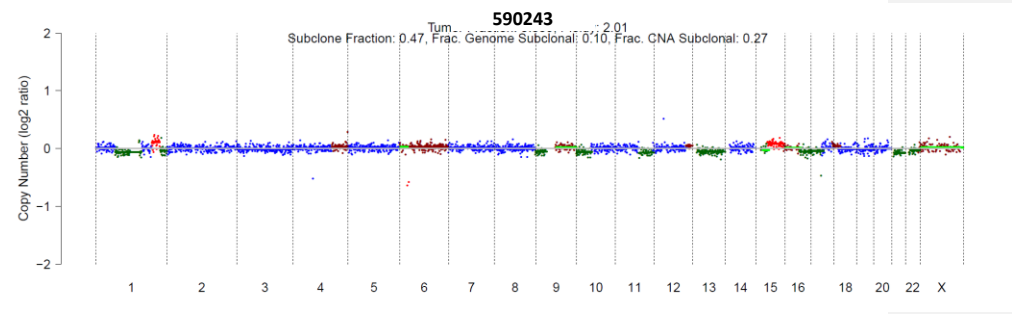
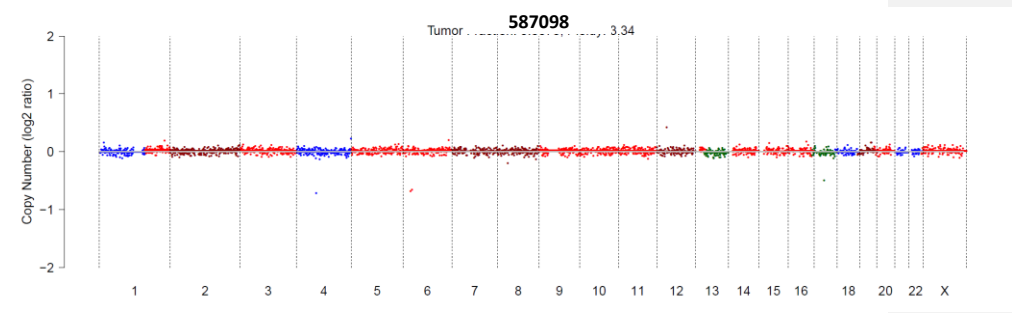
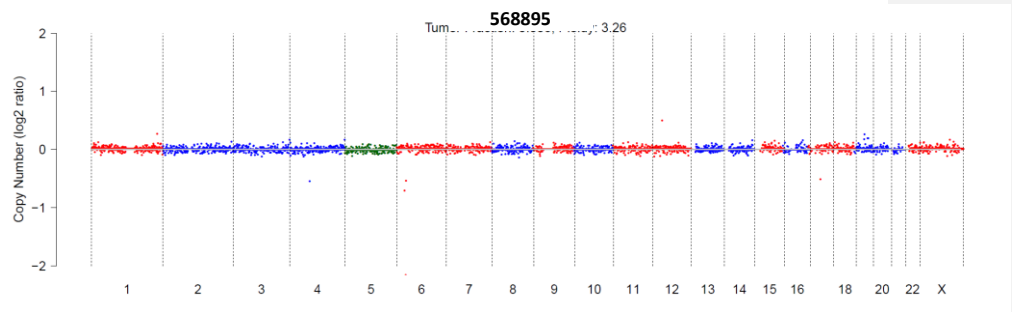


FGFR1 amplification positive samples & NOT detected in plasma DNA



FGFR1 amplification negative samples





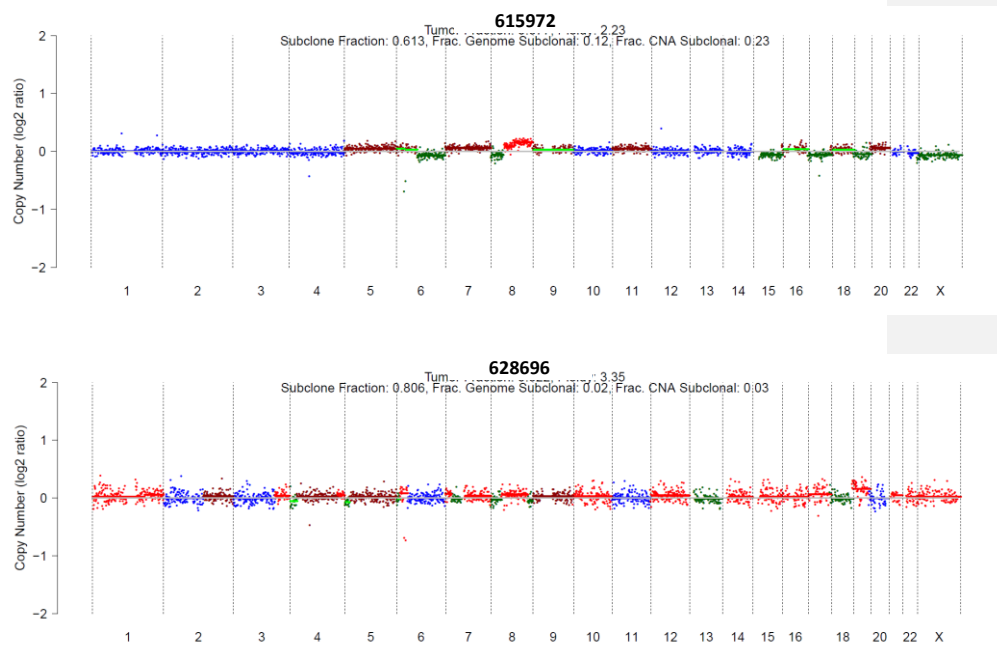


Figure S5: Detailed copy number profiles for each patient sample obtained by sWGS

Commented [BC11]: Figure 5 was previously sent in another file. We added figures in this document.

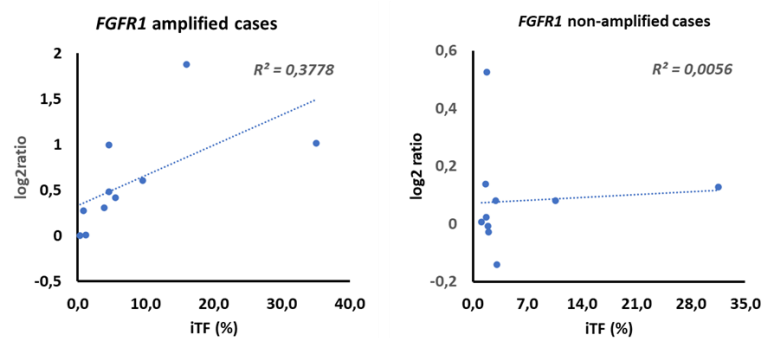


Figure S6. Correlation of tumour fractions FGFR1 log2ratios in plasma. Shown is a linear regression of the ichorCNA-derived tumour fraction (iTF) and respective log2ratio of a 1Mb genomic region harbouring the FGFR1 gene. Left plot, plasma DNA data from FGFR1 amplified cases. Right plot, plasma DNA data from FGFR1 non-amplified cases.

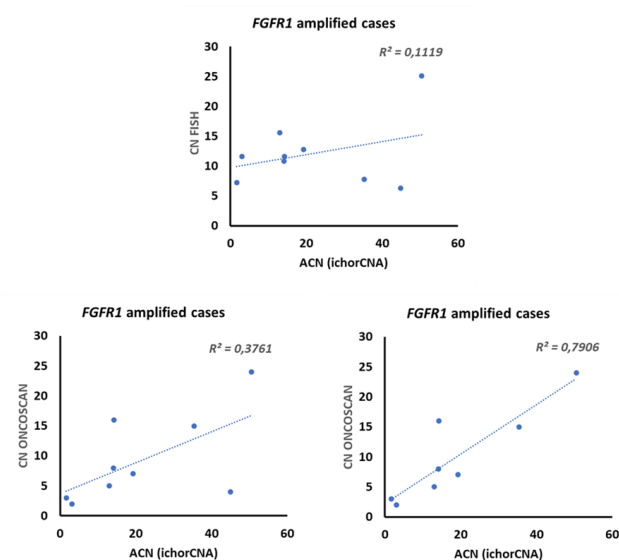


Figure S7. Correlation of copy numbers from three orthogonal approaches. Shown is a linear regressions of the copy number (CN) established from FISH, ONCOSCAN and sWGS. Hypothetical absolute copy numbers (ACN) were calculated from the ichorCNA-derived tumour fraction (iTf) and respective log2ratio for FGFR1. Upper plot, Correlation of FISH and ACN from ichorCNA. Lower left plot, Correlation of ONCOSCAN and ACN from ichorCNA. Lower right plot, Correlation of ONCOSCAN and ACN from ichorCNA without one outlier.



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