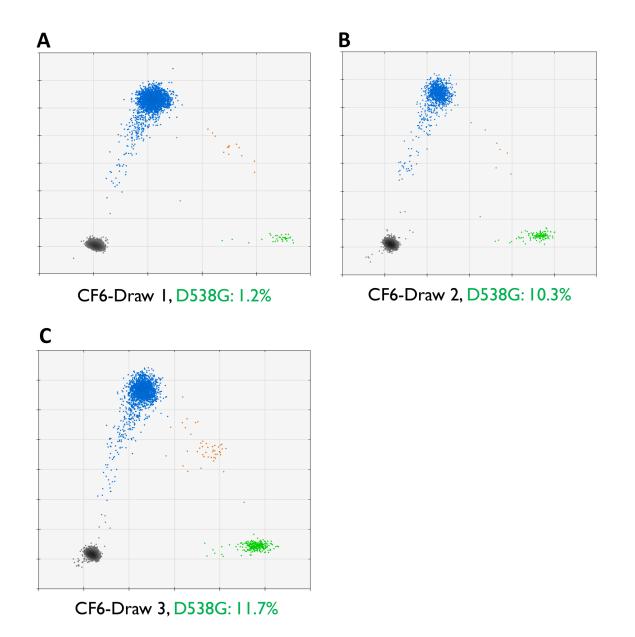
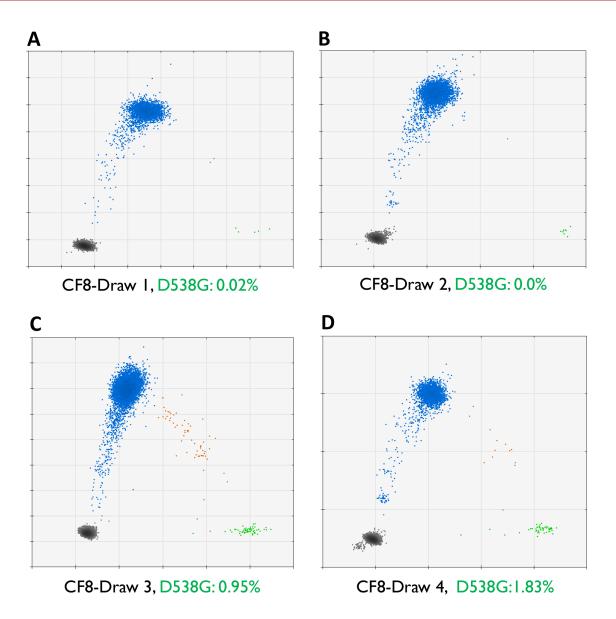
Detection of ESR1 mutations in circulating cell-free DNA from patients with metastatic breast cancer treated with palbociclib and letrozole

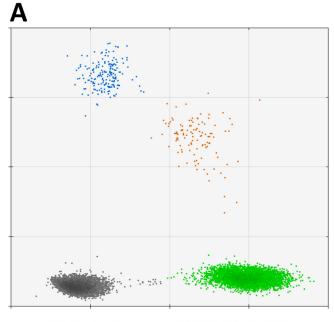
SUPPLEMENTARY FIGURES AND TABLES



Supplementary Figure S1: ESR1-D538G mutant allele frequency in serial blood draws is indicated for patient CF6 using data from a representative experiment (after subtraction of background noise).



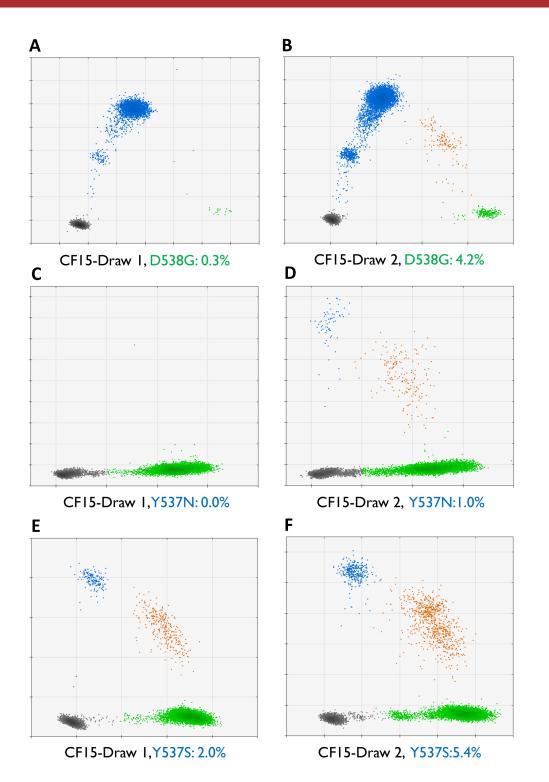
Supplementary Figure S2: ESR1-D538G mutant allele frequency in serial blood draws is indicated for patient CF8 using data from a representative experiment (after subtraction of background noise).



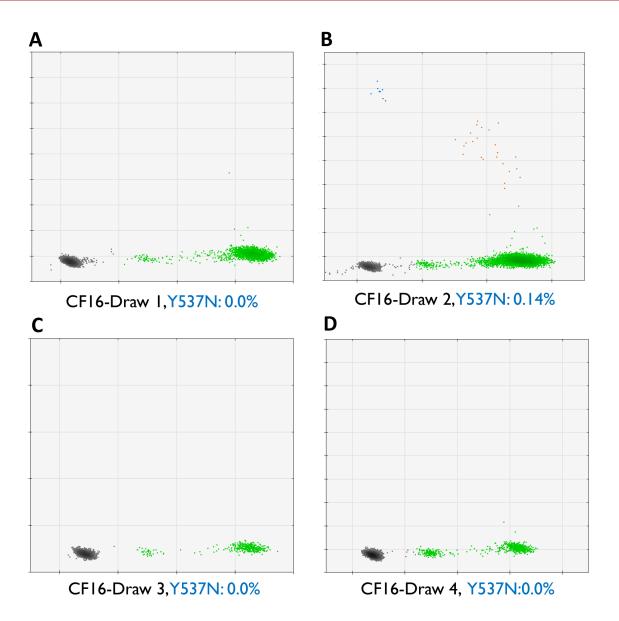
CFI4-Draw 1, Y537S: 3.3%

Supplementary Figure S3: ESR1-Y537S mutant allele frequency is indicated for patient CF14 using data from a representative experiment (after subtraction of background noise).

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Supplementary Figure S4: ESR1-D538G, -Y537N, and -Y537S mutant allele frequencies in serial blood draws are indicated for patient CF15 using data from a representative experiment (after subtraction of background noise).



Supplementary Figure S5: ESR1-Y537N mutant allele frequency in serial blood draws is indicated for patient CF16 using data from a representative experiment (after subtraction of background noise).

Supplementary Table S1: Clinical characteristics and treatment data for all patients

See Supplementary File 1

Supplementary Table S2: Sequence of targeted amplification primers

Mutations	Forward primer	Reverse primer	Amplicon size
<i>ESR1</i> Y537C <i>ESR1</i> Y537N <i>ESR1</i> Y537S <i>ESR1</i> D538G	CAAAGGCATGGAGCATCTGTA	TGAAGTAGAGCCCGCAGT	169

Mutation	Forward primer	Reverse primer	Mutant Probe	WT probe	Fluorescence	
<i>ESR1-</i>	CAGCATGAAGTGC	TGGGCGTCCAGCA	CCCCTCTGTG	TGCCCCTCTAT	FAM/VIC	
Y537C	AAGAACGT	TCTC	ACCTG	GACCTG		
<i>ESR1-</i>	CTGTACAGCATGA	TGGGCGTCCAGCA	TGCCCCTC	TGGTGCCCCT	FAM/VIC	
Y537N	AGTGCAAGAAC	TCTC	AATGAC	CTATGAC		
<i>ESR1-</i>	CAGCATGAAGTGC	TGGGCGTCCAGCA	CCCTCTCTG	CCCCTCTAT	FAM/VIC	
Y537S	AAGAACGT	TCTC	ACCTGC	GACCTGC		
<i>ESR1-</i>	GCATGAAGTGCAA	AAGTGGCTTTGGTC	TCTATGGCCTGCTGCT	TCTATGACCTGCT	HEX/FAM	
D538G	GAACGTG	CGTCT	GGAGATGCT	GCTGGAGATGCT		

Supplementary Table S3: Sequence of ddPCR primer and probes