Supplementary Table S2. Complete Genetic Mutation Profile of Two Patients				
Patient 6				
Gene	**Amino Acid Change**	**Variant Allele Frequency**	**Copy Number Variation**	**Mutation Status**
ATM	p.F1463C	54.86		Benign/Likely Benign
NF1	p.Y1659fs	32.57		Pathogenic/Likely Pathogenic
PMS2	p.A572V	61.42		VUS
PTEN	p.N292fs	62.4		Pathogenic/Likely Pathogenic
TSC2	p.P768S	54.8		VUS
BCOR	p.E1093K	43.9		VUS
CARD11	p.V429I	24.48		VUS
FBXO11	p.E234K	48.18		VUS
KDR	p.R1022*	39.5		VUS
EGFR			Amplified	Pathogenic/Likely Pathogenic
Patient 8				
Gene	**Amino Acid Change**	**Variant Allele Frequency**	**Copy Number Variation**	**Mutation Status**
BRCA2	p.D2237V	73.59		VUS
PTEN	p.C124Y	45.89		Pathogenic/Likely Pathogenic
RB1	p.L662R	43.51		VUS
TERT	c.-146C>T	35.02		Pathogenic/Likely Pathogenic
EPHB1	p.S774L	43.23		VUS
FANCE	p.Q182fs	29.7		VUS
KDM5A	p.I1226V	52.77		VUS
PCLO	p.R3540W	22.31		VUS
SETD2	p.A2451V	47.14		VUS
WDR90	p.R784Q	45.61		VUS
***Stop Codon**				