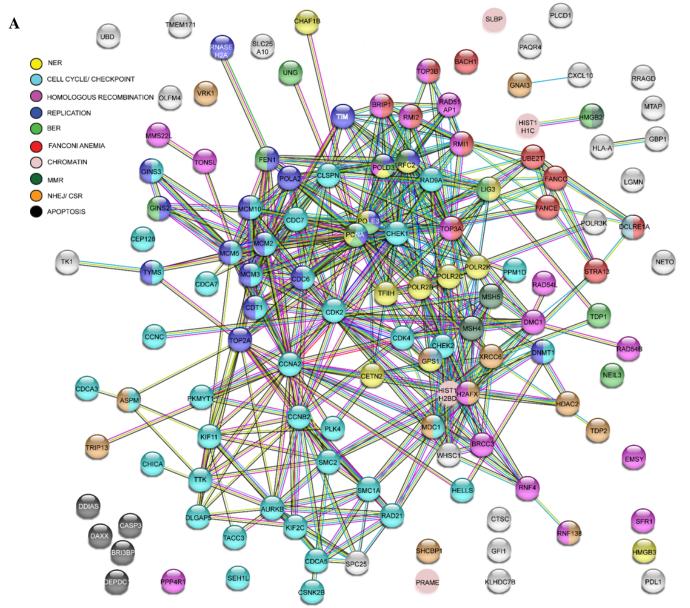


Supplemental Figure 1



Pathway ID	Туре	Description	False discovery rate
hsa04110	KEGG	cell cycle	4.15E-15
hsa03030	KEGG	DNA replication	1.96E-11
hsa03460	KEGG	Fanconi Anemia (FA)	7.30E-09
hsa03410	KEGG	Base excision repair (BER)	2.07E-07
hsa03420	KEGG	Nucleotide excision repair (NER)	1.72E-05
hsa3440	KEGG	Homologous recombination (HR)	2.40E-04
hsa03430	KEGG	Mismatch repair (MMR)	5.20E-03
hsa03450	KEGG	NHEJ	3.08E-02

 \mathbf{C}

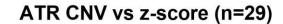
Pathway ID Type Description False discovery rate hsa03420 KEGG Nucleotide excision repair (NER) 1.69E-05 hsa03410 KEGG Base excision repair (BER) 2.10E-04 hsa03030 KEGG DNA replication 2.10E-04 hsa03020 KEGG 2.10E-04 RNA polymerase hsa3440 KEGG Homologous recombination (HR) 2.40E-04 hsa03430 KEGG Mismatch repair (MMR) 4.10E-03

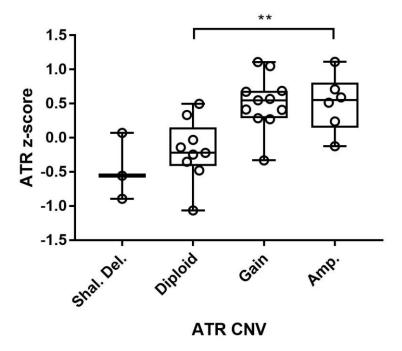
В

Pathway ID	Туре	Description	False discovery rate
GO:0045786	Biological process (GO)	Negative regulation of cell cycle	9.43E-05
hsa05200	KEGG	Pathways in cancer	4.60E-04
hsa03420	KEGG	Nucleotide excision repair (NER)	3.40E-03

Pathway ID	Туре	Description	False discovery rate
hsa03420	KEGG	Nucleotide excision repair (NER)	1.40E-04
hsa03410	KEGG	Base excision repair (BER)	1.00E-03
hsa03030	KEGG	DNA replication	1.00E-03
hsa03020	KEGG	RNA polymerase	1.00E-03
hsa3440	KEGG	Homologous recombination (HR)	1.10E-03
hsa04110	KEGG	Cell cycle	1.30E-03
hsa03460	KEGG	Fanconi Anemia pathway (FA)	1.70E-03
hsa03430	KEGG	Mismatch repair (MMR)	9.40E-03

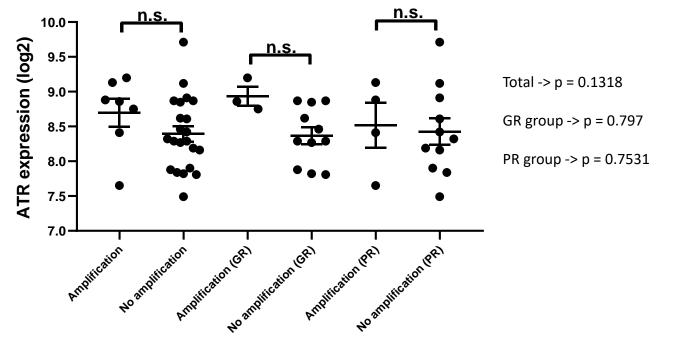
Supplemental Figure 2





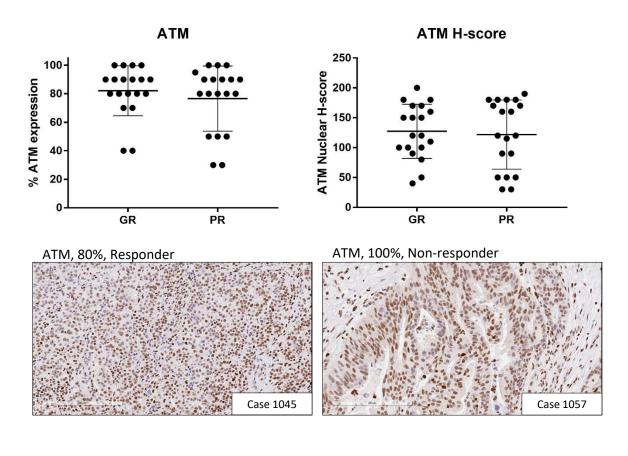
P= 0.0076 Two-tailed Mann-Whitney

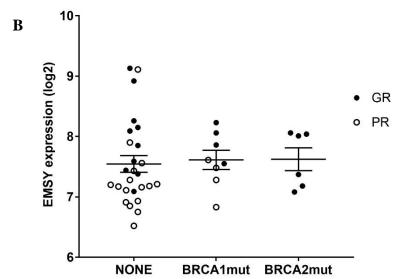
Correlation of *ATR* expression with its amplification

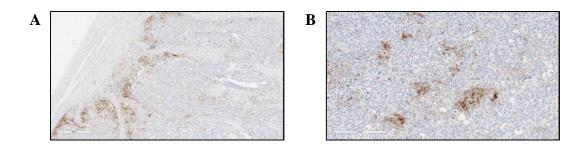


A

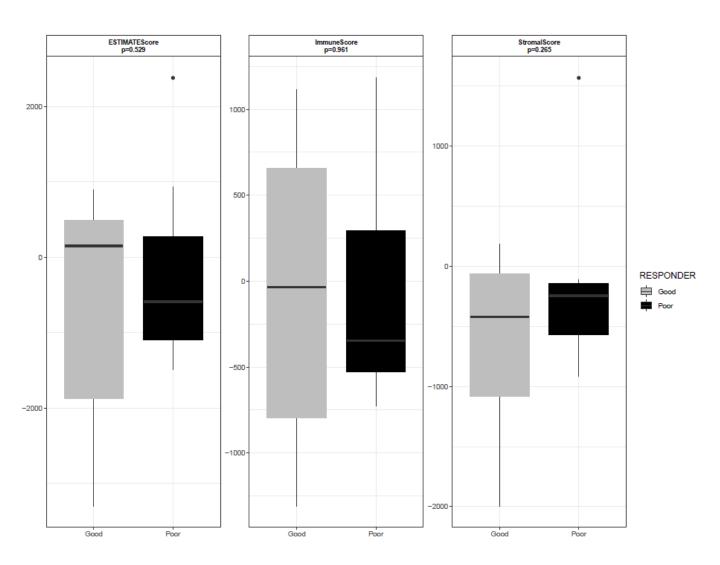
В



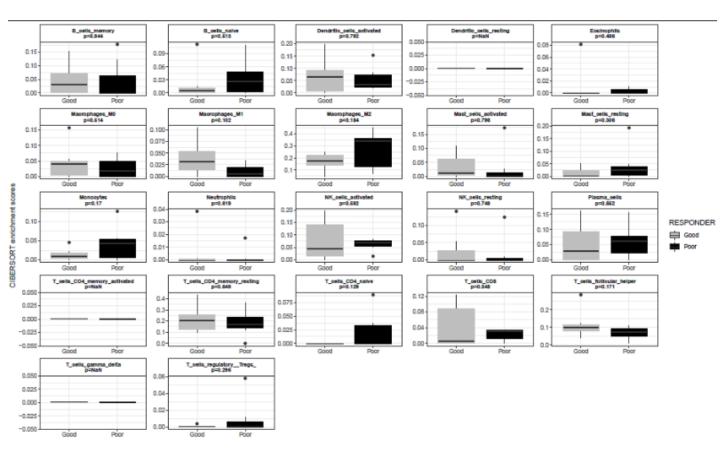




Supplemental Figure 5



Supplemental Figure 6



Supplemental Figure 7