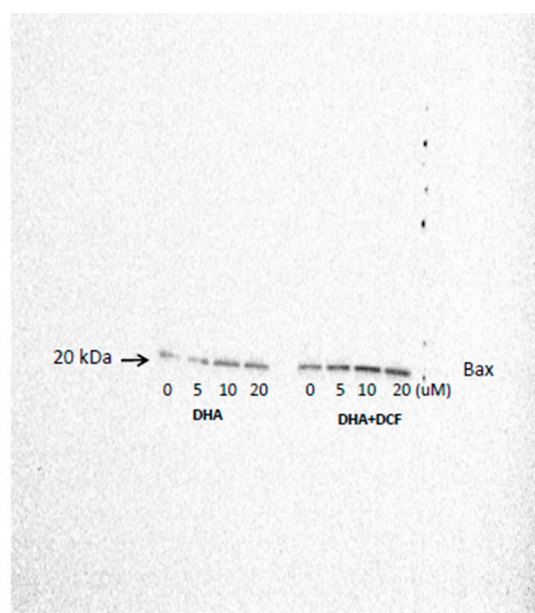
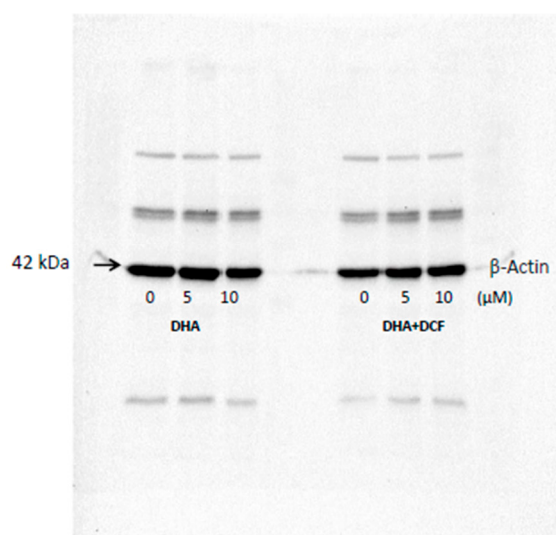
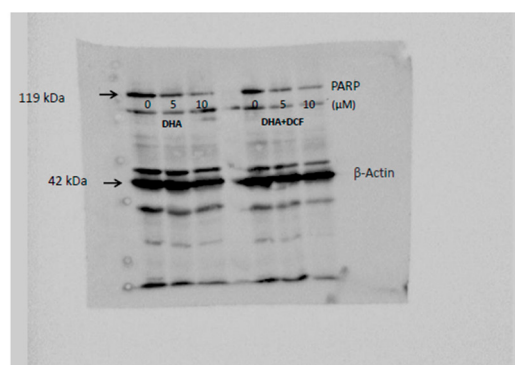
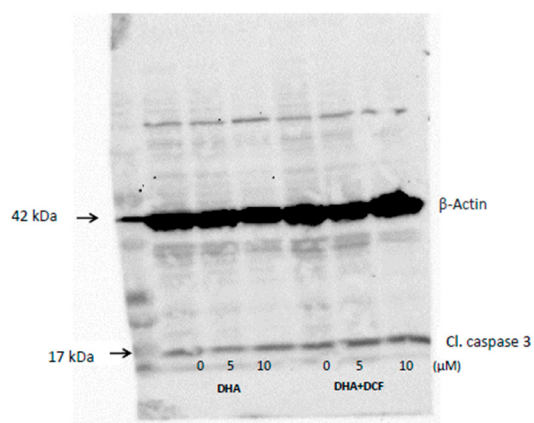
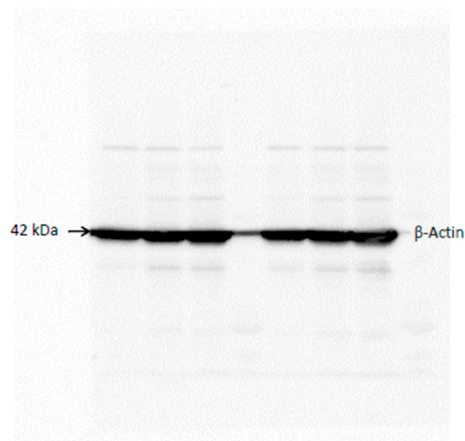
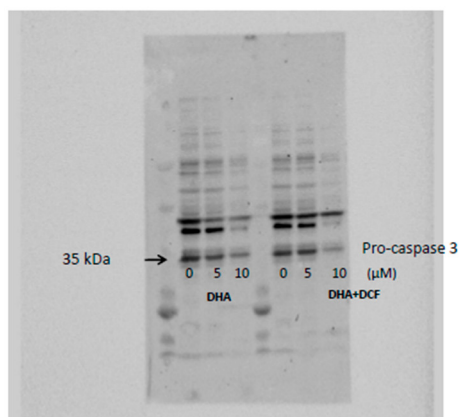


Supplementary Materials

Diclofenac Enhances Docosahexaenoic Acid-Induced Apoptosis in Lung Cancer Cells

Rosemary A. Poku, Kylee J. Jones, Megan Van Baren, Jamie K. Alan and Felix Amissah



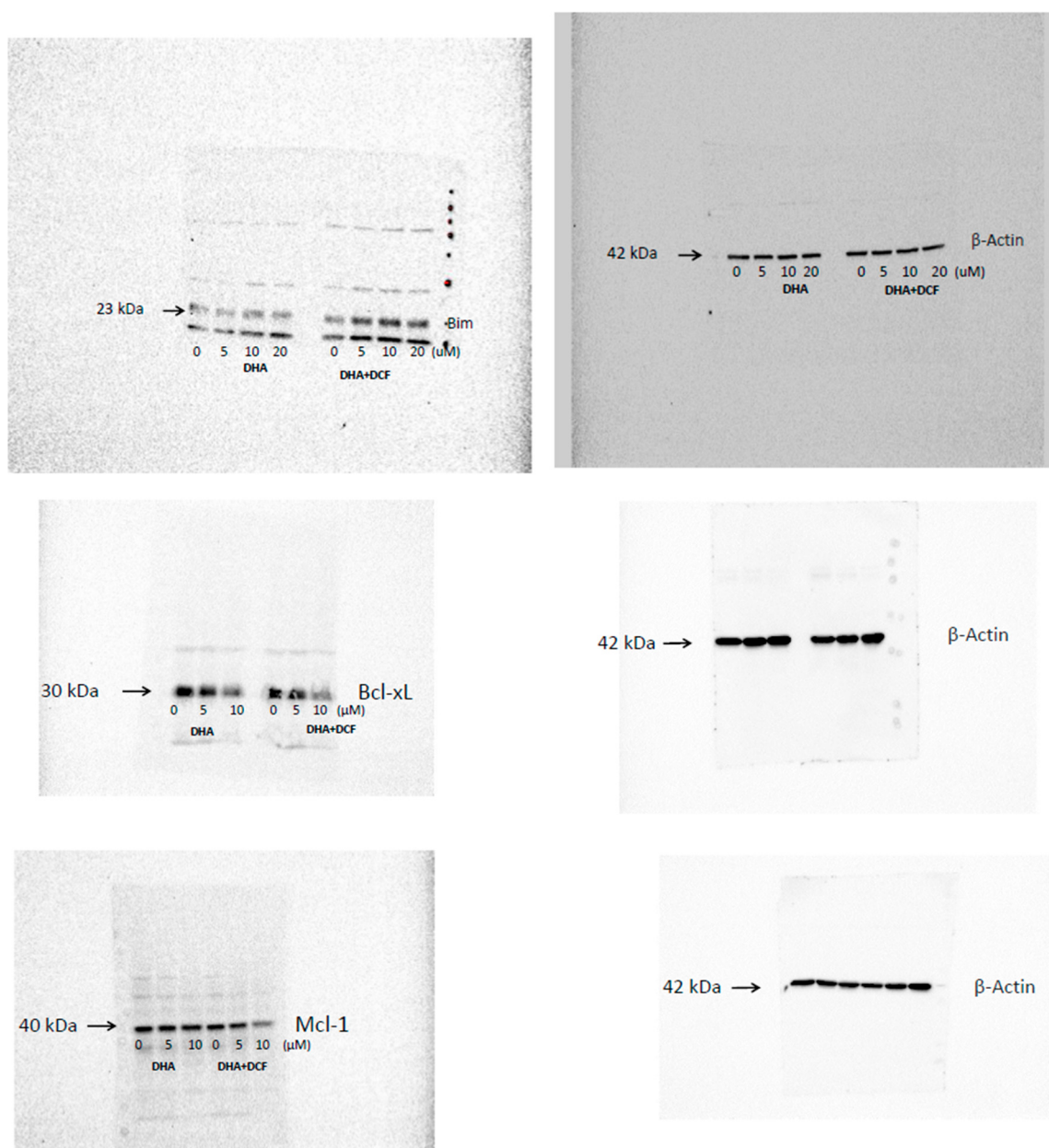
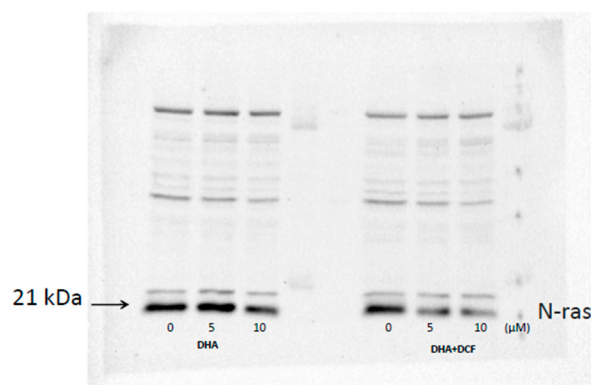
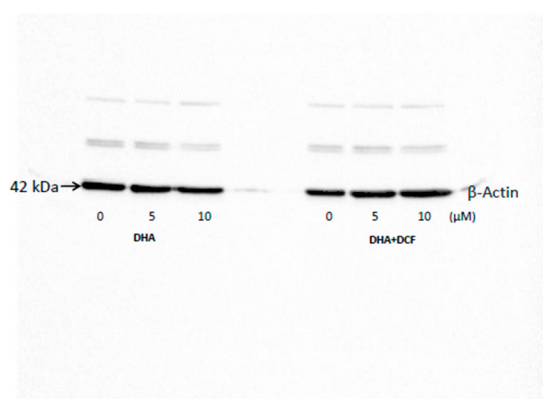
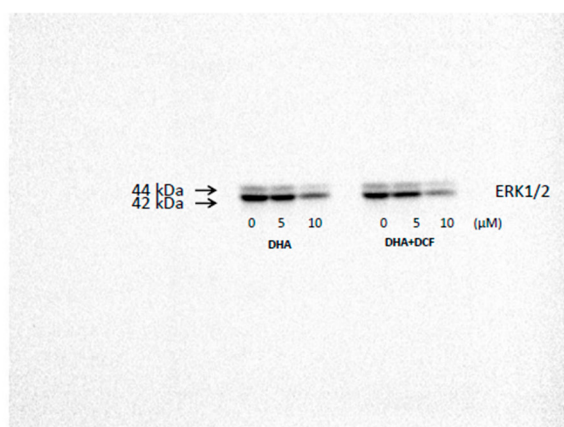
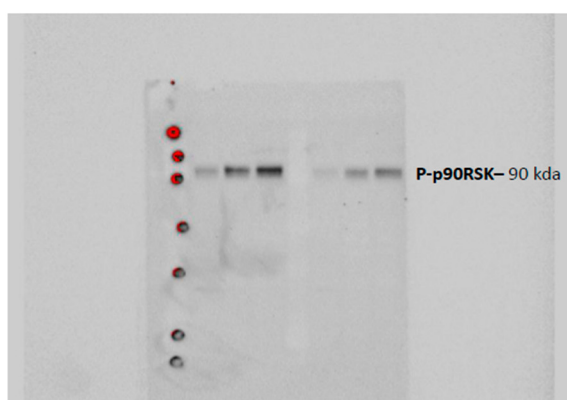
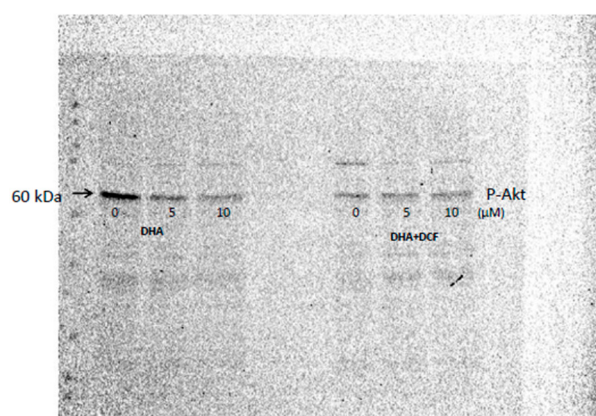
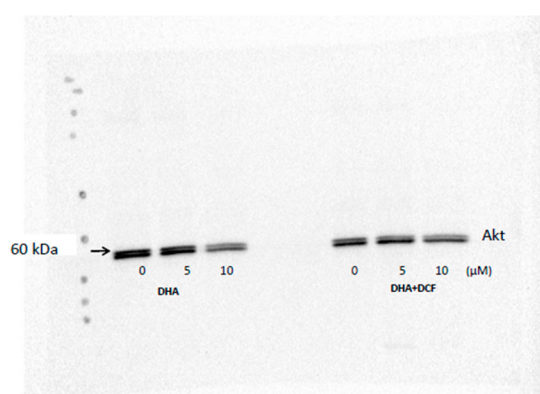
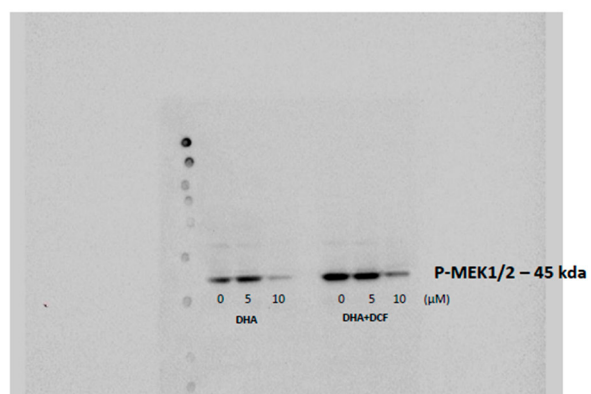
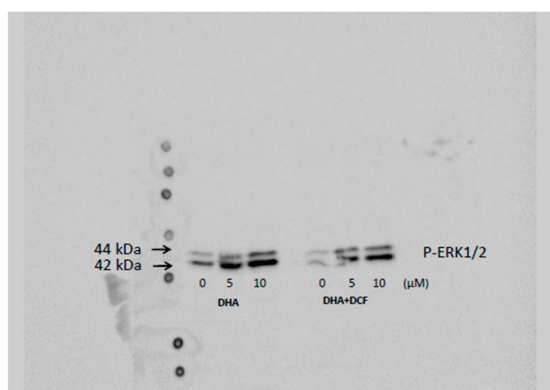


Figure S1. Detailed information about western blot in Figure 7.



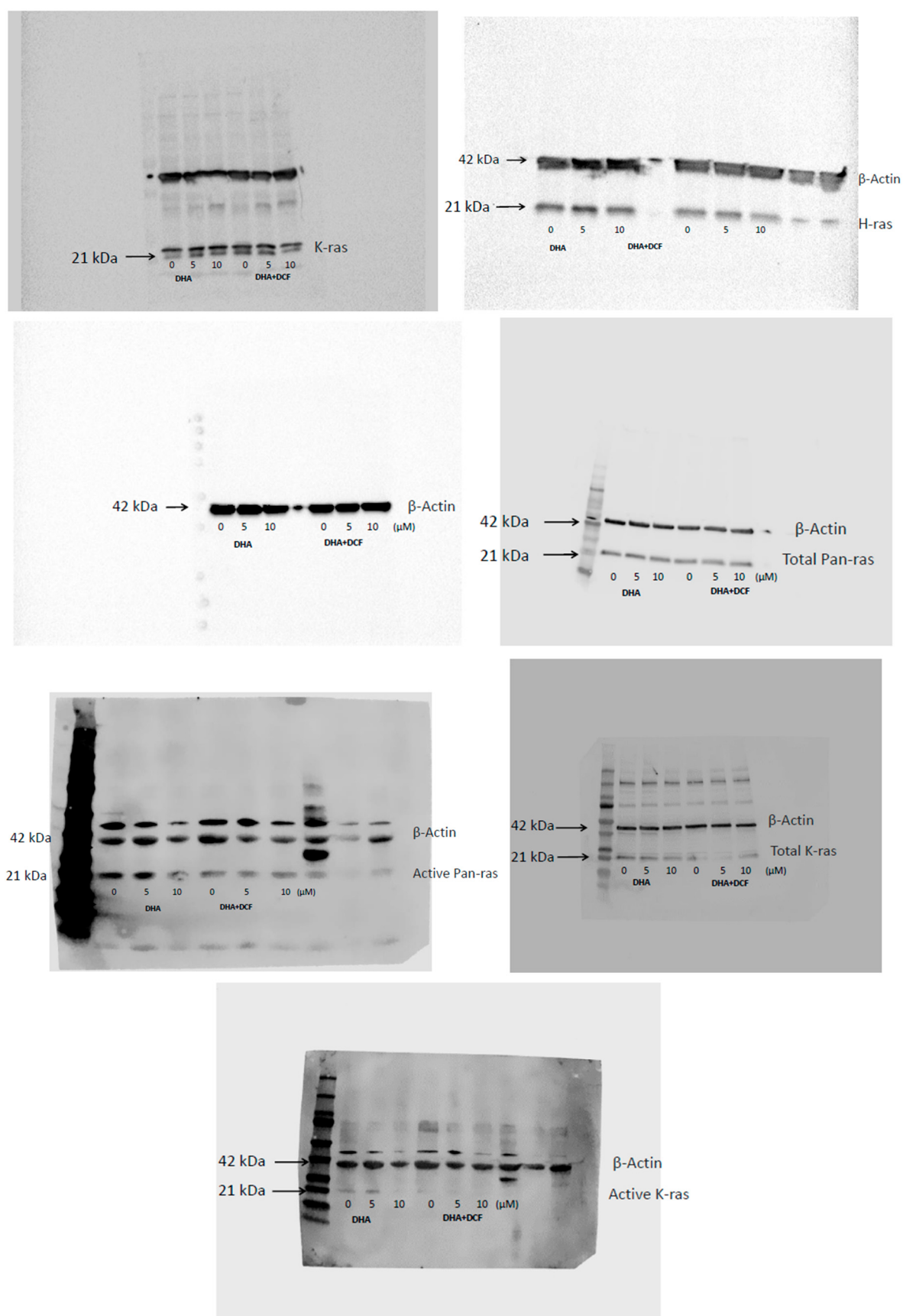


Figure S2. Detailed information about western blot in Figure 8.

Table S1. The major pathways and genes whose levels of expression were significantly altered in A549 and H1573 cancer cell lines treated with the indicated concentrations of DHA and diclofenac.

Probe Name	Fold Change									
	A549					H1573				
	DHA	DHA	DCF	DCF	DCF	DHA	DHA	DCF	DCF	DCF
	(5 μ M)	(10 μ M)	(25 μ M)	(25 μ M) +DHA (5 μ M)	(25 μ M) +DHA (10 μ M)	(5 μ M)	(10 μ M)	(25 μ M)	(25 μ M) +DHA (5 μ M)	(25 μ M) +DHA (10 μ M)
MAPK Signaling Pathway										
CACNA1D	-2	1	2	2	2	-1	-1	-3	-4	-4
GADD45A	-1	1	2	2	3	-1	-1	3	4	6
NR4A1	-2	-2	-2	-2	-2	1	-2	-4	-4	-7
NTF3	-1	-1	-1	-5	-2	1	1	-8	-15	-15
PDGFC	-2	-1	2	1	3	-2	3	1	2	2
PLA2G4A	-1	-1	-1	-1	-2	3	-2	-1	-4	-5
RAC1	1	-1	-2	-1	-5	-1	-2	2	-4	-4
TP53	-1	-1	-2	-1	-2	2	-2	1	-3	-3
IKBKG	2	2	3	3	2	-1	2	1	2	3
KRAS	-1	-1	1	1	-2	1	-1	-2	-2	-2
NRAS	-1	-1	1	1	-2	1	2	1	-2	-2
HRAS	-2	-2	-2	-2	-2	2	2	2	-1	-2
PI3K-AKT Signaling Pathway										
BRCA1	-1	-1	-2	-2	-2	-3	-1	-1	-2	-2
CCND3	-2	-2	-2	-4	-3	-1	2	-3	-3	-2
CCNE2	-2	-2	-3	-4	-4	1	-2	-3	-9	-5
COL24A1	-3	-2	-1	-1	-2	1	-2	-8	-11	-5
DDIT4	-2	-1	2	1	3	-2	2	3	3	4
ITGA2	1	2	3	3	4	-1	2	-1	1	2
LAMC2	-1	1	2	2	4	2	4	2	3	5
NR4A1	-2	-2	-2	-2	-2	1	-2	-4	-4	-7
PDGFC	-2	-1	2	1	3	-2	3	1	2	2
PIK3CD	-2	-1	2	1	3	2	1	2	2	3
RAC1	1	-1	-2	-1	-5	-1	-2	2	-4	-4
TP53	-1	-1	-2	-1	-2	2	-2	1	-3	-3
CREB3L4	-3	-2	-3	-2	-3	-2	-1	-2	-3	-2
IKBKG	2	2	3	3	2	-1	2	1	2	3
KRAS	-1	-1	1	1	-2	1	-1	-2	-2	-2
NRAS	-1	-1	1	1	-2	1	2	1	-2	-2

HRAS	-2	-2	-2	-2	-2	2	2	2	-1	-2
Cell Cycle/Apoptosis										
CCNA2	-2	-2	-3	-4	-6	1	-1	-2	-4	-4
CCNB1	-1	-2	-2	-3	-4	1	-1	-2	-4	-4
CCND3	-2	-2	-2	-4	-3	-1	2	-3	-3	-2
CCNE2	-2	-2	-3	-4	-4	1	-2	-3	-9	-5
CDC25C	-2	-2	-2	-3	-3	1	2	-2	-3	-3
CDKN2A	-2	-2	-1	-2	-2	-2	1	-3	-5	-2
CDKN2C	-2	-2	-2	-4	-4	1	-1	-3	-7	-5
CHEK1	-1	-1	-2	-2	-2	1	-2	-1	-2	-2
E2F1	-1	-1	-3	-3	-3	-1	-1	-2	-4	-5
GADD45A	-1	1	2	2	3	-1	-1	3	4	6
HDAC2	1	-1	-2	-1	-2	3	-1	2	-2	-2
IKBKG	2	2	3	3	2	-1	2	1	2	3
IRAK2	1	2	2	2	3	5	1	2	2	-3
MCM4	-2	-2	-3	-4	-4	-1	-1	-2	-3	-5
MCM5	-2	-2	-3	-5	-3	1	-1	-3	-3	-6
PCNA	-2	-2	-2	-4	-5	-3	-4	-3	-12	3
PIK3CD	-2	-1	2	1	3	2	1	2	2	-2
PTTG2	-2	-2	-2	-4	-3	-1	1	-3	-4	2
TNFRSF10A	-1	1	2	1	3	1	2	1	2	4
TNFRSF10B	-1	1	2	1	3	-1	3	2	3	-3
TP53	-1	-1	-2	-1	-2	2	-2	1	-3	-3
TTK	-1	-1	-2	-3	-3	-1	-1	-1	-3	3
Driver Genes										
BRCA1	-1	-1	-2	-2	-2	-3	-1	-1	-2	-2
BRCA2	-1	-1	-2	-2	-2	-1	1	-2	-2	-2
CDKN2A	-2	-2	-1	-2	-2	-2	1	-3	-5	-2
HIST1H3B	-1	-2	-4	-5	-9	1	-2	-3	-11	-13
TP53	-1	-1	-2	-1	-2	2	-2	1	-3	-3
RET	-5	-2	-15	-3	-6	2	1	-2	-4	-2
KRAS	-1	-1	1	1	-2	1	-1	-2	-2	-2
NRAS	-1	-1	1	1	-2	1	2	1	-2	-2
HRAS	-2	-2	-2	-2	-2	2	2	2	-1	-2
APC/Wnt Signaling Pathway										
CCND3	-2	-2	-2	-4	-3	-1	2	-3	-3	-2
FOSL1	-1	1	2	2	4	-1	2	1	3	4
RAC1	1	-1	-2	-1	-5	-1	-2	2	-4	-4
RHOA	-2	-2	-1	-2	-2	-1	2	-2	-3	-2
TP53	-1	-1	-2	-1	-2	2	-2	1	-3	-3

WNT5A	-2	-3	-3	-5	-5	-2	-1	-3	-4	-3
Ras Signaling Pathway										
MLLT4	-1	-1	2	1	3	-4	1	-1	2	3
PDGFC	-2	-1	2	1	3	-2	3	1	2	2
PIK3CD	-2	-1	2	1	3	2	1	2	2	3
PLA2G4A	-1	-1	-1	-1	-2	3	-2	-1	-4	-5
RAC1	1	-1	-2	-1	-5	-1	-2	2	-4	-4
RHOA	-2	-2	-1	-2	-2	-1	2	-2	-3	-2
RIN1	-2	-1	2	-1	3	-1	2	-1	2	2
IKBKG	2	2	3	3	2	-1	2	1	2	3
KRAS	-1	-1	1	1	-2	1	-1	-2	-2	-2
NRAS	-1	-1	1	1	-2	1	2	1	-2	-2
HRAS	-2	-2	-2	-2	-2	2	2	2	-1	-2
Transcriptional Regulation										
CDKN2C	-2	-2	-2	-4	-4	1	-1	-3	-7	-5
HDAC2	1	-1	-2	-1	-2	3	-1	2	-2	-2
HIST1H3B	-1	-2	-4	-5	-9	1	-2	-3	-11	-13
HIST1H3H	-2	-2	-3	-5	-7	1	1	-5	-12	-7
TP53	-1	-1	-2	-1	-2	2	-2	1	-3	-3
DNA Damage Control										
BRCA1	-1	-1	-2	-2	-2	-3	-1	-1	-2	-2
BRCA2	-1	-1	-2	-2	-2	-1	1	-2	-2	-2
BRIP1	1	-1	-2	-2	-2	1	1	-2	-2	-3
FANCA	1	1	-3	-2	-4	-1	1	2	-1	-3
FANCL	-1	-1	-2	-2	-2	2	-2	1	-2	-6
FEN1	1	-1	-4	-4	-6	3	-3	-1	-4	-4
PCNA	-2	-2	-2	-4	-5	-3	-4	-3	-12	-4
POLE2	1	-1	-3	-2	-7	2	-1	-1	-5	-6
RAD51	-1	-2	-2	-3	-3	2	-1	1	-2	-4
UBE2T	-1	-1	-3	-3	-7	2	-2	1	-5	-4

