

Supplementary Table 3. Selected genes related to DNA damage repair and response and affected by BMS

Name	Fold changed	p-value	Signal Intensity		Description
			Veh	BMS	
GADD45A	4.45	1.61E-03	300	1284	Homo sapiens growth arrest and DNA-damage-inducible gene
SFN	2.68	1.14E-02	1269	2759	Homo sapiens stratifin (SFN)
HIPK1	2.51	9.97E-04	159	372	Homo sapiens homeodomain interacting protein kinase 1
GADD45G	2.25	1.39E-02	468	1019	Homo sapiens growth arrest and DNA-damage-inducible gene
*SIRT1	-5.34	3.72E-03	2241	382	Homo sapiens sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae) (SIRT1)
DCLRE1B	-4.55	1.44E-03	1029	205	Homo sapiens DNA cross-link repair 1B
RARA	-3.83	8.90E-05	2969	699	Homo sapiens retinoic acid receptor
CDKN1B	-3.33	1.55E-03	1240	339	Homo sapiens cyclin-dependent kinase inhibitor 1B (p27)
DYRK2	-3.19	1.08E-02	1221	353	Homo sapiens dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 (DYRK2)
BCL6	-3.16	1.70E-02	1190	340	Homo sapiens B-cell CLL/lymphoma 6 (zinc finger protein 51)
FBXO45	-3.03	5.04E-03	1074	321	Homo sapiens F-box protein 45 (FBXO45)
ALKBH1	-3.00	6.79E-04	1170	353	Homo sapiens alkB
ASF1A	-2.99	1.44E-02	1122	334	Homo sapiens ASF1 anti-silencing function 1 homolog A (S. cerevisiae) (ASF1A)
*PALB2	-2.63	2.04E-02	810	281	Homo sapiens partner and localizer of BRCA2 (PALB2)
*EXO1	-2.51	3.15E-04	1373	493	Homo sapiens exonuclease 1 (EXO1)
POLG2	-2.50	1.18E-05	1283	460	Homo sapiens polymerase (DNA directed)
*RAD54B	-2.50	7.82E-04	1303	471	Homo sapiens RAD54 homolog B (S. cerevisiae) (RAD54B)
NIPBL	-2.43	4.36E-04	878	325	Homo sapiens Nipped-B homolog (Drosophila) (NIPBL)
SETMAR	-2.39	1.97E-02	1715	655	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR)
BCL3	-2.37	3.59E-03	1327	493	Homo sapiens B-cell CLL/lymphoma 3 (BCL3)
RNF168	-2.36	1.44E-03	958	362	Homo sapiens E3 ubiquitin-protein ligase RNF 168
REV1	-2.30	1.33E-02	1896	760	Homo sapiens REV1 homolog (S. cerevisiae) (REV1)
SMAD3	-2.29	3.51E-04	1006	397	Homo sapiens SMAD family member 3 (SMAD3)
HINFP	-2.25	3.08E-03	694	276	Homo sapiens histone H4 transcription factor (HINFP)
BCL2	-2.23	1.29E-02	1048	401	Homo sapiens B-cell CLL/lymphoma 2 (BCL2)
XPC	-2.16	1.91E-03	1754	735	Homo sapiens xeroderma pigmentosum
DCLRE1A	-2.10	1.11E-02	794	343	Homo sapiens DNA cross-link repair 1A
*BARD	-2.10	1.60E-03	1766	763	Homo sapiens BRCA1 associated RING domain 1 (BARD1)
TDP1	-2.09	4.80E-03	534	235	Homo sapiens tyrosyl-DNA phosphodiesterase 1 (TDP1)

OBFC2A	-2.07	1.50E-02	868	376	Homo sapiens oligonucleotide/oligosaccharide-binding fold containing 2A (OBFC2A)
PAXIP1	-2.04	1.37E-03	2520	1128	Homo sapiens PAX interacting (with transcription-activation domain) protein 1 (PAXIP1)
ABL1	-2.02	2.72E-03	1505	693	Homo sapiens c-abl oncogene 1

* Genes are involved in HR