

Supple. Table 1: Melanoma cell line characteristics

	Cell Line	SF2	Mutation	Source	Base Media <sup>a</sup>
1.	SKMel-27	1.002	B-Raf(V600E)	A.Houghton <sup>1</sup>	RPMI 1640
2.	SKMel-187	0.807	WT	A.Houghton <sup>1</sup>	DMEM
3.	SK-Mel-23	0.796	B-Raf(G466A)	A.Houghton <sup>1</sup>	DMEM
4.	SKMel-131	0.783	WT	A.Houghton <sup>1</sup>	RPMI 1640
5.	RPMi-7951	0.763	B-Raf(V600E)	UNC-TCF <sup>2</sup>	MEM, 1X AA <sup>b</sup>
6.	SKMel-181	0.726	B-Raf(V600E)	A.Houghton <sup>1</sup>	RPMI 1640
7.	SK-Mel-28	0.723	B-Raf(V600E)	ATCC	MEM, 1X AA <sup>b</sup>
8.	WM1361A	0.719	N-Ras(Q61R)	M. Herlyn <sup>6</sup>	Tu 2%
9.	WM35	0.708	B-Raf(V600E)	ATCC	Tu 2%
10.	VMM39	0.706	N-Ras(Q61R)	C.Slingluff <sup>3</sup>	DMEM
11.	SKMel-115	0.686	B-Raf(V600E)	A.Houghton <sup>1</sup>	RPMI 1640
12.	SKMel-239	0.683	B-Raf(V600E)	A.Houghton <sup>1</sup>	RPMI 1640
13.	SK-Me-119	0.663	N-Ras(Q61R)	A.Houghton <sup>1</sup>	RPMI 1640
14.	SK-Mel-130	0.647	B-Raf(V600E)	A.Houghton <sup>1</sup>	DMEM
15.	SK-Mel-78	0.647	WT	J.Hansson <sup>4</sup>	RPMI 1640
16.	RPMI 8322	0.613	WT	J.Arbiser <sup>5</sup>	DMEM
17.	A2058	0.606	B-Raf(V600E)	J.Hansson <sup>4</sup>	RPMI 1640
18.	Mel 505	0.574	WT	A.Houghton <sup>1</sup>	RPMI 1640
19.	WM1158	0.525	B-Raf(V600E)	M. Herlyn <sup>6</sup>	Tu 2%
20.	SKMel-100	0.523	B-Raf(V600E)	A.Houghton <sup>1</sup>	RPMI 1640
21.	UACC 257	0.502	B-Raf(V600E)	M.Soengas <sup>8</sup>	RPMI 1640
22.	SK-Mel-103	0.491	N-Ras(Q61R)	A.Houghton <sup>1</sup>	DMEM
23.	SKMel-186	0.460	N-Ras(Q61R)	A.Houghton <sup>1</sup>	RPMI 1640
24.	Malme-3M	0.431	B-Raf(V600E)	NCI-DCTD	RPMI 1640
25.	1205 LU	0.405	B-Raf(V600E)	M. Herlyn <sup>6</sup>	Tu 2%
26.	SKMel-190	0.394	B-Raf(V600E)	A.Houghton <sup>1</sup>	RPMI 1640
27.	Mel 537	0.376	WT	Lowy <sup>7</sup>	RPMI 1640
28.	SBC12	0.370	N-Ras(Q61R)	M. Herlyn <sup>6</sup>	DMEM
29.	A375	0.367	B-Raf(V600E)	J.Arbiser <sup>5</sup>	DMEM
30.	PMWK	0.319	WT	J.Arbiser <sup>5</sup>	MEM, 1X AA <sup>b</sup>
31.	Mel 224	0.229	N-Ras(Q61R)	J.Hansson <sup>4</sup>	RPMI 1640
32.	SK-Mel-147	0.213	N-Ras(Q61R)	A.Houghton <sup>1</sup>	DMEM
33.	WM 2664	0.212	B-Raf(V600D)	J.Arbiser <sup>5</sup>	DMEM
34.	SK-Mel-24	0.123	B-Raf(V600E)	ATCC	MEM, 1X AA <sup>b</sup>
35.	SKMel-5	0.078	WT	A.Houghton <sup>1</sup>	RPMI 1640
36.	SKMel-153	0.055	B-Raf(V600K)	A.Houghton <sup>1</sup>	RPMI 1640
37.	SK-Mel-173	0.053	N-Ras(Q61K)	A.Houghton <sup>1</sup>	DMEM

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SF2 = Surviving Fraction at 2 Gy

WT = *B-Raf/N-Ras* wildtype