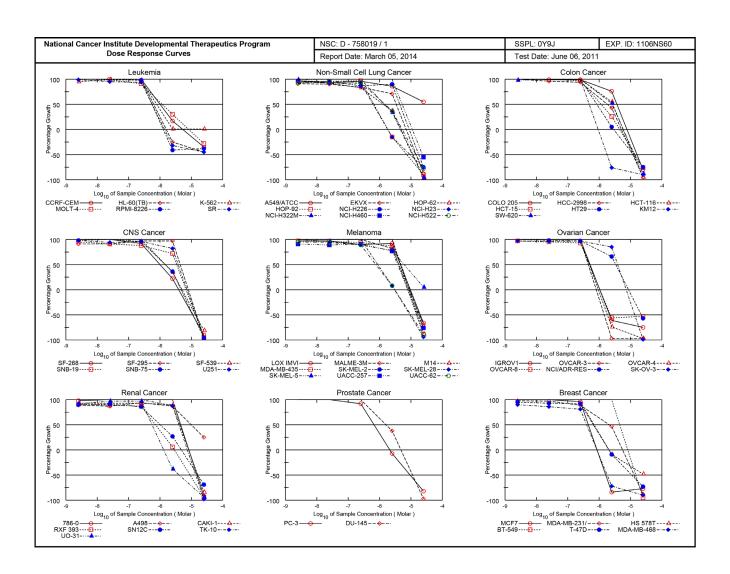
## Inhibition of skeletal growth of human prostate cancer by the combination of docetaxel and BKM1644, an aminobisphosphonate derivative

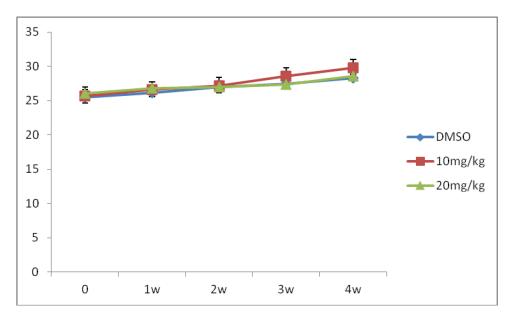
**Supplementary Materials** 



		Natio	onal (	Cand	er Ir			evelop Testir				peuti	cs Prograi	m	
NSC : D - 758	3019 / 1				Exp			106NS60				Test	Туре : 08	Units : M	1olar
Report Date :	March (	05, 2014			Tes	t Date	: June (	06, 2011				QNS	:	MC :	
COMI : GH1002 (103735)				Sta	Stain Reagent : SRB Dual-Pass Related						SSPL: 0Y9J				
	Log10 Concentration Time Mean Optical Densities Percent Growth														
Panel/Cell Line Leukemia	Time Zero	Ctrl	-8.6	Mear -7.6	Optica -6.6	Densiti -5.6	es -4.6	-8.6	-7.6	ercent G -6.6	-5.6	-4.6	GI50	TGI	LC50
CCRF-CEM HL-60(TB) K-562 MOLT-4 RPMI-8226 SR	0.506 1.198 0.284 0.632 0.798 0.695	1.646 3.257 1.823 2.447 1.803 2.674	1.658 3.269 1.752 2.457 1.891 2.651	1.715 3.287 1.812 2.432 1.874 2.572	1.677 3.307 1.798 2.277 1.779 2.555	0.705 0.897 0.296 1.181 0.469 0.471	0.329 0.660 0.296 0.458 0.491 0.381	101 101 95 101 109	106 101 99 99 107 95	103 102 98 91 98 94	17 -25 1 30 -41 -32	-35 -45 1 -28 -38 -45	1.04E-6 6.44E-7 7.83E-7 1.18E-6 5.50E-7 5.57E-7	5.37E-6 1.59E-6 > 2.50E-5 8.35E-6 1.26E-6 1.39E-6	> 2.50E-5 > 2.50E-5 > 2.50E-5 > 2.50E-5 > 2.50E-5 > 2.50E-5
Non-Small Cell Lun A549/ATCC EKVX HOP-62 HOP-92 NCI-H226 NCI-H23 NCI-H322M NCI-H460 NCI-H522	g Cancer 0.407 0.641 0.462 1.092 0.680 0.598 0.709 0.249 0.809	1.863 1.497 1.228 1.311 1.411 1.779 1.464 1.776 1.792	1.826 1.422 1.190 1.299 1.387 1.734 1.456 1.954 1.714	1.764 1.408 1.168 1.303 1.373 1.686 1.476 1.985 1.748	1.802 1.359 1.098 1.305 1.319 1.686 1.487 1.887 1.733	1.657 1.249 0.744 0.934 1.337 0.506 0.962 1.779 1.171	1.207 0.081 0.030 0.113 0.173 0.145 0.026 0.112 0.179	97 91 95 94 97 96 99 112	93 90 92 96 95 92 102 114 96	96 84 83 97 87 92 103 107 94	86 71 37 -15 90 -15 34 100 37	55 -87 -94 -90 -75 -76 -96 -55	> 2.50E-5 3.39E-6 1.30E-6 6.62E-7 4.37E-6 6.16E-7 1.45E-6 5.26E-6 1.47E-6	> 2.50E-5 7.02E-6 4.79E-6 1.85E-6 8.80E-6 1.80E-6 4.53E-6 1.10E-5 5.23E-6	> 2.50E-5 1.45E-5 1.16E-5 7.41E-6 1.77E-5 9.36E-6 1.10E-5 2.32E-5 1.43E-5
Colon Cancer COLO 205 HCC-2998 HCT-116 HCT-15 HT29 KM12 SW-620	0.222 0.823 0.183 0.445 0.230 0.339 0.238	0.983 2.606 1.207 2.272 1.079 1.398 1.462	1.005 2.606 1.249 2.266 1.163 1.441 1.443	0.974 2.528 1.205 2.310 1.186 1.457 1.496	0.975 2.505 1.257 2.225 1.210 1.439 1.465	0.800 1.586 0.750 0.926 0.273 0.080 0.872	0.044 0.045 0.010 0.105 0.057 0.034 0.029	103 100 104 100 110 104 98	99 96 100 102 113 106 103	99 94 105 97 115 104 100	76 43 55 26 5 -76 52	-80 -95 -95 -76 -75 -90 -88	3.66E-6 1.81E-6 2.71E-6 1.16E-6 9.79E-7 4.97E-7 2.57E-6	7.66E-6 5.12E-6 5.84E-6 4.51E-6 2.89E-6 9.42E-7 5.87E-6	1.60E-5 1.18E-5 1.26E-5 1.38E-5 1.21E-5 1.78E-6 1.34E-5
CNS Cancer SF-268 SF-295 SF-539 SNB-19 SNB-75 U251	0.506 0.745 0.765 0.463 0.564 0.331	1.559 2.138 1.854 1.436 1.100 1.461	1.570 2.020 1.939 1.389 1.089 1.439	1.571 2.019 1.849 1.348 1.108 1.392	1.477 2.095 1.964 1.319 1.081 1.421	0.735 2.094 1.149 1.162 0.755 1.260	0.053 0.040 0.145 0.022 0.025 0.016	101 91 108 95 98 98	101 91 100 91 102 94	92 97 110 88 96 96	22 97 35 72 36 82	-90 -95 -81 -95 -96 -95	9.93E-7 4.39E-6 1.59E-6 3.38E-6 1.45E-6 3.80E-6	3.92E-6 8.01E-6 5.02E-6 6.73E-6 4.67E-6 7.26E-6	1.10E-5 1.46E-5 1.35E-5 1.34E-5 1.12E-5 1.39E-5
Melanoma LOX IMVI MALME-3M M14 MDA-MB-435 SK-MEL-2 SK-MEL-28 SK-MEL-5 UACC-257 UACC-62	0.305 0.719 0.388 0.424 1.029 0.486 0.445 0.690 0.749	1.775 1.491 1.267 1.836 1.798 1.148 2.557 1.427 2.228	1.725 1.506 1.290 1.787 1.884 1.157 2.565 1.358 2.153	1.725 1.506 1.275 1.775 1.928 1.183 2.473 1.343 2.134	1.621 1.515 1.288 1.753 1.912 1.157 2.332 1.359 2.065	1.658 1.350 1.273 1.656 1.855 0.536 2.100 1.254 0.861	0.104 0.222 0.048 0.046 0.251 0.031 0.555 0.168 0.086	97 102 103 97 111 101 100 91 95	97 102 101 96 117 105 96 89 94	90 103 102 94 115 101 89 91 89	92 82 101 87 107 8 78 77	-66 -69 -88 -89 -76 -94 5 -76	4.61E-6 4.05E-6 4.64E-6 4.06E-6 5.14E-6 8.82E-7 6.10E-6 3.73E-6 7.53E-7	9.55E-6 8.69E-6 8.55E-6 7.80E-6 9.65E-6 2.97E-6 > 2.50E-5 7.96E-6 3.00E-6	1.98E-5 1.87E-5 1.58E-5 1.50E-5 1.81E-5 9.25E-6 > 2.50E-5 1.70E-5 9.92E-6
Ovarian Cancer IGROV1 OVCAR-3 OVCAR-4 OVCAR-8 NCI/ADR-RES SK-OV-3	0.428 0.403 0.609 0.365 0.487 0.533	1.386 1.115 1.502 1.385 1.465 1.259	1.387 1.143 1.584 1.354 1.525 1.236	1.336 1.447		0.169 0.014 0.160 0.161 1.136 1.147		100 104 109 97 106 97	110 104 103 95 98 96	106 111 106 93 97 97	-61 -97 -74 -56 66 85	-75 -97 -97 -53 -57	5.42E-7 4.92E-7 5.11E-7 4.88E-7 3.39E-6 3.86E-6	1.08E-6 8.57E-7 9.70E-7 1.05E-6 8.61E-6 7.24E-6	2.16E-6 1.49E-6 1.84E-6 2.28E-6 2.19E-5 1.36E-5
Renal Cancer 786-0 A498 CAKI-1 RXF 393 SN12C TK-10 UO-31	0.572 1.260 0.687 0.635 0.590 0.702 0.552	2.014 2.004 2.159 1.197 1.903 1.203 1.740	1.921 2.052 1.144 1.773 1.223	2.056 1.133 1.782	1.963 2.060 1.121 1.717 1.217	1.907 2.008 0.671 0.945 1.144	1.443 0.113 0.038 0.183 0.013	98 89 93 91 90 104 92	100 87 93 89 91 101 97	105 94 93 87 86 103 97	111 87 90 6 27 88 -38	-92 25 -84 -94 -69 -98	4.99E-6 9.79E-6 4.24E-6 7.14E-7 1.02E-6 4.01E-6 5.56E-7	8.78E-6 > 2.50E-5 8.23E-6 2.89E-6 4.78E-6 7.43E-6 1.30E-6	1.55E-5 > 2.50E-5 1.60E-5 9.10E-6 1.58E-5 1.38E-5 4.03E-6
Prostate Cancer PC-3 DU-145	0.595 0.449	1.545 1.373	1.546 1.409	1.552 1.421	1.466 1.461	0.551 0.797	0.106 0.015	100 104	101 105	92 109	-7 38	-82 -97	6.58E-7 1.68E-6	2.10E-6 4.77E-6	9.27E-6 1.12E-5
Breast Cancer MCF7 MDA-MB-231/ATC HS 578T BT-549 T-47D MDA-MB-468	0.402 C 0.581 0.841 0.821 0.722 0.606	1.621 1.421 1.491 1.525 1.563 1.401	1.401 1.514 1.613 1.525	1.561	1.332 1.467 1.674 1.493	0.979 0.767 1.633 0.658	0.199	102 98 104 112 95 90	102 97 110 105 93 86	96 89 96 121 92 81	-84 47 -9 115 -9 -72	-77 -88 -48 -95 -73 -90	4.51E-7 2.16E-6 6.90E-7 5.11E-6 6.50E-7 3.99E-7	8.54E-7 5.60E-6 2.06E-6 8.82E-6 2.04E-6 8.46E-7	1.62E-6 1.31E-5 > 2.50E-5 1.52E-5 1.11E-5 1.79E-6

ational Cancer Institute De	evelopmental Therapeutics F	rogram	NSC : D - 758019/1	Units :Molar	SSPL:0Y9J	EXP. ID :1106NS6
	Mean Graphs		Report Date :March 05, 2	2014	Test Date :June 06, 201	1
Panel/Cell Line	Log <sub>10</sub> GI50	GI50	Log <sub>10</sub> TGI	TGI	Log <sub>10</sub> LC50 LC5	0
ukemia CCRF-CEM HL-60(TB) K-562 K-562 RPMI-8226 SR n-Smail Cell Lung Cancer A549/ATCC	-5.98 -6.19 -6.11 -5.93 -6.26 -6.25	Ē	-5.27 -5.80 -4.60 -5.08 -5.90 -5.86	<u> </u>	> -4.60 > -4.60 > -4.60 > -4.60 > -4.60 > -4.60 > -4.60	
AS49/ATCC EKVX HOP-82 HOP-92 HOI-H226 HOI-H23 HOI-H322M HOI-H450 HOI-Gancer	> 4.60 -5.47 -5.89 -6.18 -5.36 -6.21 -5.84 -5.28 -5.83	}	> 4 60 -5.15 -5.32 -5.73 -5.06 -5.75 -5.34 -4.96 -5.28	-	4.84 4.94 4.915 5.13 4.03 4.96 4.83 4.85	
COL O 205 HCC-2998 HCT-116 HCT-15 HT29 KM12 SW-620 CNS Cancer	-5.44 -5.77 -5.57 -5.94 -6.01 -6.30 -5.59	-	-5.12 -5.29 -5.23 -5.35 -5.54 -6.03 -5.23	1	-4.93 -4.90 -4.86 -4.92 -5.75 -4.87	_
SV-620 SF-268 SF-285 SF-395 SNB-19 SNB-75 UZ51 Jalanoma LOX IMVI	-6.00 -5.36 -5.80 -5.47 -5.84 -5.42		-5,41 -5,10 -5,30 -5,17 -5,33 -5,14		-4.96 -4.84 -4.87 -4.87 -4.87 -4.86 -4.70	
MALME-3M V14 MDA-MB-435 SK-MEL-2 SK-MEL-28 SK-MEL-5 JACC-257 JACC-62 arian Cancer	-5.34 -5.39 -5.33 -5.39 -6.29 -6.05 -6.12	=======================================	-5.02 -5.06 -5.07 -5.17 -5.02 -5.53 > -4.60 -5.52		-4.73 -4.80 -4.82 -4.74 -5.03 > -4.60 -4.77 -5.00	
GROV1 DVCAR-3 DVCAR-4 DVCAR-8 ICI/ADR-RES SK-OV-3 nal Cancer	-6.27 -6.31 -6.29 -6.31 -5.47 -5.41		-5.97 -6.07 -6.01 -5.98 -5.07 -5.14	F	-5.67 -5.83 -5.73 -5.64 -4.66 -4.87	
86-0 ,498 ,AKI-1 XXF 393 N12C K-10 JO-31 state Cancer C-3 U-145	-5.30 -5.01 -5.37 -6.15 -5.49 -6.25 -6.18 -5.77	1	-5.06 > -4.60 -5.08 -5.54 -5.52 -5.32 -5.89 -5.68 -5.88		-4.81 > 4.80 -5.04 -4.80 -5.04 -4.86 -5.39 -5.03 -4.95	_
ast Cancer MCF7 MDA-MB-231/ATCC 19 578T 17-549 -47D MDA-MB-468	-6.35 -5.67 -6.16 -5.29 -6.19 -6.40	=	6.07 -5.25 -5.69 -5.05 -5.69 -6.07		5.79 4.88 > 4.60 4.82 4.96 -5.75	
_MID	5.79		536		494	
Delta Range	-5.78 0.62 1.8		-5.36 0.71 1.47	<del> </del>	-4.94 0.89 1.23	_

**Supplementary Figure S1:** *In vitro* **activity of BKM1644 in NCI-60 panel.** Compound activities presented as GI50, TGI (total growth inhibition) and LC50, using the median value as the y-axis, respectively.



Supplementary Figure S2: Body weight of mice treated with BKM1644 at 10 mg/kg and 20 mg/kg, and the vehicle control (DMSO) via i.p. route, 3 times per week for 4 weeks. n = 4 per group.