

Supplementary Table 1 Cancer gene mutation frequencies								
Gene	COSMIC ^a		cBioPortal ^b		TumorPortal ^c		ICGC Data Portal ^d	
	%	Mutations/Samples	%	Mutations/Samples	%	Mutations/Samples	%	Mutations/Samples
<i>TP53</i>	29.0	25,071/86,305	26.8	4,714/17,584	39.1	1,852/4,742	30.7	2,020/6,590
<i>PIK3CA</i>	11.7	7,214/61,468	9.9	1750/17,584	16.2	766/4,742	14.2	889/6263
<i>BRAF</i>	19.5	36,590/187,951	4.8	850/17,584	4.2	198/4,742	11.6	726/6233
<i>KRAS</i>	21.1	30,067/142,526	5.7	1,007/17,584	7.3	348/4,742	10.2	645/6,590
<i>HRAS</i>	3.1	1,164/37,707	0.7	117/17,584	0.7	34/4,742	1.9	83/4440
<i>NRAS</i>	5.6	3,662/65,492	2.2	389/17,584	2.7	130/4,742	4.1	231/5581
<i>All RAS</i>	29.8	34,893 mutations	8.6		10.8		16.2	

^aData from 99,9872 samples, including analyses of 9,424 whole genomes
^bData from 69 cancer genomics studies (17,584 patients)
^cData from 21 cancers (4,742 patients)
^dData from 18 primary sites in 42 cancers (11,633 patients)