Supplemental Table 1. Genotype and allele frequencies of the studied variants in patients with CRPC.							
Allelic variant <sup>†</sup>	Effect	$\mathbf{n}^{\ddagger}$	Genotype frequencies§			Allele frequencies	
			Wt	Het	Var	p	q
Caucasians							
<i>ERα</i> (rs2234693) <i>T&gt;C</i>	IVS1-397C/T	128	25 (19.5)	75 (58.6)	28 (21.9)	0.49	0.51
ERα (rs9340799) A>G	IVS1-351A/G	129	42 (32.5)	69 (53.5)	18 (14.0)	0.59	0.40
CYP19 (rs700519) C>T	Exon 8 R264C	130	125 (96.0)	5 (4.0)	0 (0)	0.98	0.02
African Americans							
ERα (rs2234693) T>C	IVS1-397C/T	10	2 (20.0)	4 (40.0)	4 (40.0)	0.40	0.60
ERα (rs9340799) A>G	IVS1-351A/G	11	5 (50.0)	3 (30.0)	2 (20.0)	0.65	0.35
CYP19 (rs700519) C>T Asians	Exon 8 R264C	12	6 (50.0)	6 (50.0)	0 (0)	0.75	0.25
<i>ERα</i> (rs2234693) <i>T&gt;C</i>	IVS1-397C/T	4	0 (0)	3 (0.75)	1 (0.25)	0.38	0.62
ERα (rs9340799) A>G	IVS1-351A/G	4	1 (0.25)	3 (0.75)	0 (0)	0.62	0.38
CYP19 (rs700519) C>T	Exon 8 R264C	4	1 (0.25)	2 (0.50)	1 (0.25)	0.50	0.50

CYP19 (rs700519) C > T Exon 8 R264C 4 1 (0.25) 2 (0.50) 1 (0.25) 0.50 0.50 Abbreviations: p, frequency for wild type allele; q, frequency for variant allele; Wt, homozygous wild type allele patient; Het, heterozygous patient; Var, homozygous variant patient.

<sup>&</sup>lt;sup>†</sup>Variants were in Hardy-Weinberg equilibrium in Caucasians regardless of disease status (P>0.05). Both  $ER\alpha$  SNPs demonstrated genetic linkage in Caucasians (D'=1.0, R2=0.66, P<0.001).

<sup>&</sup>lt;sup>‡</sup>Genotype data was not available in all patients, as not all samples yielded sufficient DNA or were able to amplified by PCR. <sup>§</sup>Number represents patients with percentage in parenthesis; the difference in the total number of patients is due to the fact that not all samples yielded sequencing data or showed PCR amplification. There were 3 patients with unknown races with the following genotype information: *n*=2 *ERα* rs2234693 wt, *n*=2 *ERα* rs9340799 wt, *n*=3 *CYP19* rs700519 wt.