

## Corrigendum: Joint analysis is more efficient than replication-based analysis for two-stage genome-wide association studies

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*Nat. Genet.* 38, 209–213 (2006).

In Table 1 of the versions of this article initially published online and in print, the significance thresholds for  $C_2$  were incorrect, and the significance thresholds for  $C_{\text{joint}}$  in the case of  $\pi_{\text{samples}} = 0.20$  were incorrect. The error has been corrected in the HTML and PDF versions of the article. This correction has been appended to the PDF version.

**Table 1** Significance thresholds and power of joint analysis for two-stage genome-wide association designs

$\pi_{\text{samples}}$	$\pi_{\text{markers}}$	Proportion of genotypes <sup>a</sup>	Power									
			Significance threshold			GRR = 1.30		GRR = 1.35		GRR = 1.40		
			$C_1$	$C_2$	$C_{\text{joint}}$	Joint	Rep	Joint	Rep	Joint	Rep	
1.0	0	1.00	—	—	5.23	0.26	—	0.51	—	0.75	—	
0.50	0.10	0.55	1.64	4.65	5.23	0.26	0.08	0.51	0.17	0.75	0.31	
	0.05	0.53	1.96	4.50	5.23	0.26	0.09	0.51	0.21	0.75	0.36	
	0.01	0.51	2.58	4.15	5.23	0.26	0.14	0.50	0.29	0.74	0.48	
	0.40	0.10	0.46	1.64	4.65	5.23	0.26	0.12	0.51	0.27	0.75	0.46
0.40	0.05	0.43	1.96	4.50	5.23	0.26	0.14	0.50	0.30	0.74	0.51	
	0.01	0.41	2.58	4.15	5.20	0.24	0.17	0.48	0.36	0.71	0.58	
	0.30	0.10	0.37	1.64	4.65	5.22	0.25	0.17	0.50	0.36	0.73	0.58
	0.05	0.34	1.96	4.50	5.21	0.24	0.18	0.48	0.37	0.72	0.60	
0.30	0.01	0.31	2.58	4.15	5.16	0.21	0.18	0.42	0.37	0.64	0.58	
	0.20	0.10	0.28	1.64	4.65	5.19	0.23	0.19	0.46	0.39	0.68	0.62
	0.05	0.24	1.96	4.50	5.16	0.21	0.18	0.42	0.38	0.63	0.59	
	0.01	0.21	2.58	4.15	5.06	0.15	0.14	0.31	0.29	0.47	0.46	

Shown is analysis of 1,000 cases and 1,000 controls,  $M = 300,000$  markers, genome-wide significance level  $\alpha_{\text{genome}} = 0.05$ , multiplicative model, control risk allele frequency = 0.40 and prevalence = 0.10.

<sup>a</sup>(Number of genotypes required for two-stage design) / (number of genotypes required when all markers are genotyped on all samples).