

**Supplementary Table 1 Genotype and allele frequencies of rs7234029 in patients and controls stratified by gender**

Gender	Genotype allele	BD		Controls		P Value	Pc Value	OR	95%CI
		N	%	N	%				
Male	A	1061	0.703	1718	0.703	0.984	NS	0.999	0.868-1.149
	AA	335	0.444	605	0.495	0.026	NS	0.813	0.678-0.976
	AG	391	0.518	508	0.416	$9.32 \times 10^{-6}$	$4.01 \times 10^{-4}$	1.51	1.258-1.812
	GG	29	0.038	109	0.089	$1.66 \times 10^{-5}$	$7.14 \times 10^{-4}$	0.408	0.268-0.621
Female	A	207	0.685	1375	0.719	0.228	NS	0.851	0.654-1.106
	AA	65	0.43	497	0.52	0.041	NS	0.698	0.494-0.987
	AG	77	0.51	381	0.399	0.01	NS	1.57	1.113-2.216
	GG	9	0.06	78	0.082	0.351	NS	0.713	0.350-1.455

**Supplementary Table 2 Logistic Regression Analysis of the Risk of BD Patients with PTPN2/rs7234029 in Additive Codominant, Dominant, Allelic, and Recessive Models**

Model	Genotype	Control ( <i>N</i> = 2178)	Case ( <i>N</i> = 906)	Univariate logistic regression			Multivariate logistic regression <sup>a</sup>			
				OR	95% CI	<i>P</i>	OR	95% CI	<i>P</i> <sup>a</sup>	
Additive		217870.62	90629.38	1.050	0.931.19	0.40	1.01	0.88	1.15	0.88
Co-dominant	AA	110250.60	40044.15							2.98×10 <sup>-4</sup>
	AG	88940.82	46851.66	1.451	1.241.705	3.0×10 <sup>-6</sup>	1.38	1.16	1.64	2.41×10 <sup>-4</sup>
	GG	187	8.59	38	4.190	0.560.390	8.11.95×10 <sup>-3</sup>	0.52	0.35	0.76
Dominant	AA	110250.60	40044.15							
	AG+GG	107649.40	50655.85	1.301	1.111.511	1.12×10 <sup>-3</sup>	1.23	1.04	1.45	1.58×10 <sup>-2</sup>
Recessive	AA+AG	199191.41	86895.81							
	GG	187	8.59	38	4.190	0.470.330	0.672.89×10 <sup>-5</sup>	0.44	0.30	0.65
Over-dominant	AA+GG	128959.18	43848.34							
	AG	88940.82	46851.66	1.551	1.331.813	6.6×10 <sup>-8</sup>	1.49	1.26	1.76	3.18×10 <sup>-6</sup>
Allelic	A	309371.01	126869.98							
	G	126328.99	54430.02	1.050	0.931.18		0.42	1.01	0.89	1.15

<sup>a</sup>Adjusted for age and gender in the logistic regression model.