

Table 4. The genotype, allele distribution and correlation analysis of the BPH group and the non-BPH group in rats model (n=264).

CHR	SNP ID	Genes	Type	Model	BPH, n (%)	Non-BPH, n (%)	¹ <i>P-value</i>	² <i>r</i>	OR(95% CI)	³ B	⁴ <i>P-value</i>
1	rs105294130	CYP17A1					<0.001	0.759			
			GG		129(83.2)	26(16.8)			7.398(4.130-13.255)	2.001	<0.001
			CG	Allele	42(38.5)	67(61.5)			...		...
1	rs105453793	CYP17A1					0.047	0.789			
			CC		125(88.0)	17(12.0)			16.13(1.397-186.248)	2.781	0.026
			CT	Allele	25(55.5)	20(44.5)			...		...
			TT		21(27.2)	56(72.8)			6.106(0.121-308.872)	1.809	0.366
1	rs105712404	CYP17A1					0.042	0.914			
			TT		138(84.1)	26(15.9)			51.435(11.623-227.618)	3.940	<0.001
			CT	Allele	33(33.0)	67(67.0)			...		...
1	rs106046216	CYP17A1					0.567	0.805			
			AG	Allele	17(51.5)	16(48.5)			...		...
			AA		154(66.6)	77(33.4)			20499329(4101.54-1025E+10)	16.836	<0.001
1	rs105128248	CYP17A1					0.020	0.749			
			AA		158(90.2)	17(9.8)			14.746(1.297-167.699)	2.691	0.030
			CA	Allele	13(14.6)	76(85.4)			...		...
1	rs106331143	CYP17A1					0.785	-0.016			
			GG		149(65.0)	80(35.0)		...	...		...
			GT	Allele	22(62.8)	13(37.2)			...		...
1	rs106483266	CYP17A1					0.617	0.005			
			CT	Allele	32(65.3)	17(34.7)			...		...
			TT		139(64.6)	76(35.4)			0.346(0.005-224.667)	-1.063	0.626
1	rs8158080	CYP17A1					0.316	-0.022			
			GA	Allele	30(62.5)	18(37.5)			...		...
			AA		141(65.2)	75(34.8)			0.167(0.004-7.036)	-1.787	0.349
1	rs198630901	CYP17A1					0.004	0.875			
			CC		123(91.1)	12(8.9)			54.5(29.312-99.013)	4.358	0.025
			CT	Allele	47(56.6)	36(43.4)			...		...
			TT		1(2.1)	45(97.9)			0.054(0.004-0.759)	5.736	0.037
8	rs198337055	CYP19A1					0.634	0.029			
			AA		120(65.8)	65(34.2)			309.925(2.709-35458.06)	1.175	0.018
			GA	Allele	4(44.5)	5(55.5)			...		...
			GG		47(67.1)	23(32.9)			2.520(1.054-6.315)	0.03	0.056
8	rs198378898	CYP19A1					0.499	-0.012			
			GG		36(64.2)	20(35.8)			0.062(0-14.037)	-2.782	0.315

			AG	Allele	128(64.6)	70(35.4)			...	...
			AA		7(70.0)	3(30.0)			1.134(0.0011-1189.374)	0.125 0.972
8	rs199350320	CYP19A1					0.678	0.016		
			TC	Allele	41(66.1)	21(33.9)			...	...
			TT		130(64.3)	72(35.4)			0.407(0.004-37.225)	-0.899 0.696
8	rs106952843	CYP19A1					<0.001	0.842		
			AA		113(92.6)	9(7.4)			83.477(3.513-1983.407)	4.425 0.006
			CA	Allele	58(40.8)	84(59.2)			...	...
8	rs197770329	CYP19A1					<0.001	0.901		
			AC	Allele	7(7.3)	88(92.7)			...	...
			CC		164(97.0)	5(3.0)			2393.736(45.057-127172.5)	7.781 <0.001
8	rs64988576	CYP19A1	CC	vf_allele	171(100)	93(100)	NS		...	...
8	rs199405781	CYP19A1	AA	vf_allele	171(100)	93(100)	NS		...	...
8	rs199186847	CYP19A1	TT	vf_allele	171(100)	93(100)	NS		...	...
8	rs198913913	CYP19A1	TT	vf_allele	171(100)	93(100)	NS		...	...
8	rs198091958	CYP19A1	TT	vf_allele	171(100)	93(100)	NS		...	...
8	rs197209169	CYP19A1	CC	vf_allele	171(100)	93(100)	NS		...	...
8	rs197061969	CYP19A1	TT	vf_allele	171(100)	93(100)	NS		...	...
8	rs105901017	CYP19A1	TT	vf_allele	171(100)	93(100)	NS		...	...
8	rs106909058	CYP19A1	CC	vf_allele	171(100)	93(100)	NS		...	...
8	rs106424395	CYP19A1	AA	vf_allele	171(100)	93(100)	NS		...	...
1	rs106051697	CYP17A1	GG	vf_allele	171(100)	93(100)	NS		...	...
1	rs107429900	CYP17A1	GG	vf_allele	171(100)	93(100)	NS		...	...
1	rs105148379	CYP17A1	TT	vf_allele	171(100)	93(100)	NS		...	...
1	rs107062243	CYP17A1	CC	vf_allele	171(100)	93(100)	NS		...	...
1	rs107436346	CYP17A1	AA	vf_allele	171(100)	93(100)	NS		...	...

Abbreviation: CHR, chromosome; BPH, benign prostatic hyperplasia; SNP, single nucleotide polymorphisms; OR, odds ratio; CI, confidence interval.

¹chi-square test;

²on behalf of the correlation coefficient;

³on behalf of the regression coefficient;

⁴Multivariate logistic regression analysis;

The boldface represents statistical significance ($P<0.05$).