

Supplementary Table 1. Effect modification by hypertension on the associations of selected NOS3 polymorphisms and primary open-angle glaucoma*

		Women			Men			Pooled All POAG		Pooled High Tension POAG		Pooled Normal Tension POAG	
SNP	Genotype	Number of Cases (HTN-/HTN+)*	No hypertension RR (95% CI)	Hypertension RR (95% CI)	Number of Cases (HTN-/HTN+)*	No hypertension RR (95% CI)	Hypertension RR (95% CI)	No hypertension RR (95% CI)	Hypertension RR (95% CI)	No hypertension RR (95% CI)	Hypertension RR (95% CI)	No hypertension RR (95% CI)	Hypertension RR (95% CI)
Promoter -786C/T	TT	73/64	1.00	1.43 (0.93, 2.21)	38/27	1.00	1.67 (0.86, 3.26)	1.00	1.50 (1.04, 2.16)	1.00	1.71 (1.08, 2.70)	1.00	1.71 (0.85, 3.43)
	TC	112/54	1.45 (1.00, 2.10)	1.06 (0.68, 1.67)	32/34	0.89 (0.50, 1.58)	1.73 (0.94, 3.18)	1.20 (0.75, 1.91)	1.30 (0.81, 2.07)	1.47 (1.00, 2.16)	1.24 (0.76, 2.03)	0.66 (0.14, 3.17)	1.24 (0.61, 2.49)
	CC	42/20	1.53 (0.95, 2.45)	1.18 (0.64, 2.18)	19/ 3	1.29 (0.62, 2.68)	0.24 (0.06, 0.95)	1.45 (0.97, 2.16)	0.60 (0.13, 2.82)	2.18 (1.34, 3.56)	0.84 (0.09, 7.90)	0.58 (0.23, 1.45)	0.41 (0.13, 1.27)
									P-interaction =0.007		P-interaction =0.04		P-interaction =0.22
<i>Glu298Asp</i> (rs1799983)	GG	97/67	1.00	1.14 (0.75, 1.72)	37/35	1.00	1.96 (1.06, 3.60)	1.00	1.42 (0.84, 2.40)	1.00	1.48 (0.86, 2.54)	1.00	1.25 (0.65, 2.42)
	GT	97/46	1.17 (0.81, 1.67)	0.89 (0.57, 1.40)	36/24	1.33 (0.74, 2.38)	2.03 (1.04, 3.96)	1.21 (0.89, 1.64)	1.29 (0.58, 2.88)	1.29 (0.88, 1.89)	1.17 (0.73, 1.88)	1.00 (0.40, 2.46)	1.76 (0.37, 8.27)
	TT	35/21	1.55 (0.95, 2.53)	1.56 (0.82, 2.99)	11/ 4	1.38 (0.61, 3.12)	0.94 (0.25, 3.56)	1.50 (0.99, 2.29)	1.42 (0.79, 2.54)	1.67 (1.00, 2.79)	1.25 (0.57, 2.72)	1.75 (0.71, 4.30)	2.26 (0.77, 6.67)
									P-interaction =0.18		P-interaction =0.09		P-interaction =0.92
rs3918188	CC	114/59	1.00	0.94 (0.62, 1.42)	42/27	1.00	1.40 (0.73, 2.69)	1.00	1.05 (0.74, 1.50)	1.00	0.94 (0.60, 1.46)	1.00	2.65 (0.25, 28.24)
	CA	93/64	0.75 (0.53, 1.06)	0.79 (0.53, 1.17)	28/25	0.63 (0.35, 1.13)	0.91 (0.48, 1.72)	0.72 (0.53, 0.96)	0.82 (0.58, 1.15)	0.56 (0.38, 0.81)	0.63 (0.41, 0.96)	1.16 (0.65, 2.06)	1.78 (0.86, 3.68)
	AA	24/17	0.71 (0.41, 1.21)	0.59 (0.31, 1.13)	20/12	1.42 (0.69, 2.94)	2.28 (0.93, 5.59)	0.96 (0.49, 1.89)	1.12 (0.30, 4.18)	0.63 (0.37, 1.08)	0.99 (0.15, 6.61)	2.23 (0.60, 8.24)	1.08 (0.39, 2.98)
									P-interaction =0.95		P-interaction =0.56		P-interaction =0.40
rs7830	CC	106/66	1.00	0.84 (0.56, 1.26)	44/21	1.00	0.76 (0.40, 1.45)	1.00	0.82 (0.58, 1.15)	1.00	0.65 (0.42, 1.00)	1.00	1.32 (0.67, 2.62)
	CA	94/52	0.71 (0.50, 1.01)	0.70 (0.46, 1.07)	39/32	0.79 (0.46, 1.36)	1.97 (1.05, 3.70)	0.74 (0.55, 0.99)	1.14 (0.42, 3.14)	0.61 (0.42, 0.88)	1.09 (0.39, 3.07)	1.02 (0.56, 1.84)	1.42 (0.42, 4.75)
	AA	33/22	1.03 (0.62, 1.73)	1.18 (0.62, 2.25)	7/11	0.74 (0.26, 2.10)	1.26 (0.52, 3.05)	0.97 (0.61, 1.54)	1.21 (0.72, 2.03)	0.95 (0.54, 1.68)	1.12 (0.59, 2.14)	1.11 (0.43, 2.89)	1.32 (0.48, 3.63)
									P-interaction =0.13		P-interaction =0.04		P-interaction =0.92

*Abbreviation: POAG: primary-open angle glaucoma; HTN: hypertension

Supplementary Table 2. Effect modification by smoking status on the associations of selected NOS3 polymorphisms and POAG

SNP	Genotype	Women			Men			Pooled All Glaucoma		Pooled High Tension Glaucoma		Pooled Normal Tension Glaucoma	
		Number of Cases (SMK+/-SMK-)†	No Smoking RR (95% CI)	Past or Current Smoking RR (95% CI)	Number of Cases (SMK+/-SMK-)†	No Smoking RR (95% CI)	Past or Current Smoking RR (95% CI)	No Smoking RR (95% CI)	Past or Current Smoking RR (95% CI)	No Smoking RR (95% CI)	Past or Current Smoking RR (95% CI)	No Smoking RR (95% CI)	Past or Current Smoking RR (95% CI)
Promoter -786C/T	TT	61/76	1.00	1.24 (0.79, 1.93)	27/37	1.00	1.67 (0.83, 3.38)	1.00	1.35 (0.92, 1.97)	1.00	1.32 (0.77, 2.28)	1.00	1.42 (0.70, 2.90)
	TC	84/80	1.30 (0.84, 2.00)	1.18 (0.76, 1.84)	24/39	0.73 (0.37, 0.43)	1.52 (0.78, 2.99)	1.03 (0.60, 1.79)	1.27 (0.88, 1.84)	1.10 (0.70, 1.74)	1.27 (0.79, 2.06)	0.50 (0.05, 4.49)	1.09 (0.52, 2.28)
	CC	24/38	1.06 (0.58, 1.94)	1.70 (0.98, 2.96)	11/11	1.30 (0.53, 3.23)	0.71 (0.28, 1.78)	1.13 (0.68, 1.87)	1.19 (0.51, 2.75)	1.68 (0.91, 3.10)	1.62 (0.68, 3.87)	0.34 (0.11, 1.04)	0.70 (0.26, 1.86)
									P-interaction =0.60		P-interaction =0.62		P-interaction =0.93
<i>Glu298Asp</i> (rs1799983)	GG	83/79	1.00	0.90 (0.59, 1.36)	35/35	1.00	1.16 (0.61, 2.21)	1.00	0.97 (0.68, 1.38)	1.00	0.78 (0.49, 1.23)	1.00	1.49 (0.75, 2.97)
	GT	60/82	0.79 (0.51, 1.24)	1.02 (0.67, 1.56)	17/41	0.79 (0.38, 1.64)	1.78 (0.93, 3.39)	0.79 (0.54, 1.16)	1.27 (0.75, 2.17)	0.64 (0.39, 1.04)	1.16 (0.57, 2.34)	1.18 (0.57, 2.45)	1.60 (0.77, 3.32)
	TT	26/30	1.02 (0.55, 1.90)	1.70 (0.96, 3.04)	7/ 8	1.01 (0.37, 2.73)	1.20 (0.44, 3.26)	1.01 (0.60, 1.72)	1.56 (0.94, 2.57)	0.90 (0.47, 1.74)	1.38 (0.74, 2.57)	1.58 (0.35, 7.19)	2.73 (0.98, 7.63)
									P-interaction =0.08		P-interaction =0.02		P-interaction =0.80
rs3918188	CC	78/93	1.00	1.16 (0.75, 1.79)	27/39	1.00	1.41 (0.73, 2.72)	1.00	1.23 (0.86, 1.77)	1.00	1.16 (0.75, 1.80)	1.00	1.77 (0.84, 3.75)
	CA	76/80	0.81 (0.53, 1.23)	0.80 (0.53, 1.22)	22/30	0.66 (0.33, 1.31)	0.97 (0.48, 1.97)	0.77 (0.54, 1.09)	0.84 (0.59, 1.21)	0.61 (0.39, 0.94)	0.65 (0.41, 1.04)	1.13 (0.33, 3.90)	1.57 (0.69, 3.58)
	AA	18/23	0.61 (0.32, 1.18)	0.82 (0.45, 1.51)	13/19	1.44 (0.61, 3.42)	2.34 (1.03, 5.29)	0.90 (0.39, 2.07)	1.34 (0.48, 3.69)	0.89 (0.30, 2.67)	1.05 (0.21, 5.30)	1.08 (0.40, 2.95)	2.49 (0.92, 6.76)
									P-interaction =0.91		P-interaction =0.87		P-interaction =0.89
rs7830	CC	68/103	1.00	1.46 (0.96, 2.23)	24/40	1.00	2.16 (1.11, 4.21)	1.00	1.63 (1.14, 2.33)	1.00	1.57 (1.02, 2.42)	1.00	2.72 (0.54, 13.76)
	CA	72/72	0.91 (0.59, 1.41)	0.87 (0.56, 1.34)	27/42	1.56 (0.78, 3.12)	2.07 (1.08, 3.96)	1.11 (0.67, 1.84)	1.30 (0.55, 3.03)	1.05 (0.61, 1.79)	1.16 (0.38, 3.58)	1.24 (0.49, 3.15)	1.58 (0.76, 3.30)
	AA	32/23	1.76 (1.00, 3.10)	1.17 (0.62, 2.21)	11/ 6	1.81 (0.72, 4.51)	1.17 (0.39, 3.51)	1.77 (1.09, 2.87)	1.17 (0.67, 2.03)	1.91 (1.07, 3.40)	1.06 (0.53, 2.14)	1.42 (0.52, 3.92)	1.36 (0.49, 3.83)
									P-interaction =0.004		P-interaction =0.007		P-interaction =0.37

*Abbreviation: POAG: primary-open angle glaucoma; SMK: cigarette smoking

Supplementary Table 3. Effect modification by alcohol intake on the associations of selected NOS3 polymorphisms and POAG

SNP	Genotype	Women			Men			Pooled All Glaucoma		Pooled High Tension Glaucoma		Pooled Normal Tension Glaucoma	
		Number of Cases (ALC+/ALC-)†	No Drinking RR (95% CI)	Any Drinking RR (95% CI)	Number of Cases (ALC+/ALC-)†	No Drinking RR (95% CI)	Any Drinking RR (95% CI)	No Drinking RR (95% CI)	Any Drinking RR (95% CI)	No Drinking RR (95% CI)	Any Drinking RR (95% CI)	No Drinking RR (95% CI)	Any Drinking RR (95% CI)
Promoter -786C/T	TT	32/105	1.00	0.85 (0.51, 1.42)	12/53	1.00	0.72 (0.31, 1.70)	1.00	0.82 (0.53, 1.26)	1.00	0.85 (0.50, 1.47)	1.00	0.58 (0.23, 1.49)
	TC	35/131	0.98 (0.53, 1.80)	1.00 (0.60, 1.65)	11/55	0.99 (0.34, 2.94)	0.67 (0.29, 1.54)	0.98 (0.57, 1.67)	0.90 (0.58, 1.38)	0.99 (0.51, 1.93)	0.97 (0.57, 1.66)	0.59 (0.19, 1.86)	0.38 (0.06, 2.42)
	CC	13/49	1.36 (0.59, 3.12)	0.99 (0.56, 1.74)	3/19	0.43 (0.09, 2.04)	0.56 (0.21, 1.53)	0.93 (0.32, 2.69)	0.86 (0.53, 1.41)	0.98 (0.38, 2.52)	1.44 (0.79, 2.64)	0.58 (0.03, 12.53)	0.17 (0.05, 0.52)
								P-interaction =0.86			P-interaction =0.30		P-interaction =0.68
<i>Glu298Asp</i> (rs1799983)	GG	36/128	1.00	0.87 (0.53, 1.41)	11/61	1.00	0.97 (0.41, 2.30)	1.00	0.89 (0.58, 1.36)	1.00	0.85 (0.50, 1.44)	1.00	0.95 (0.41, 2.22)
	GT	35/108	1.00 (0.55, 1.82)	0.88 (0.54, 1.44)	12/48	1.86 (0.62, 5.61)	1.04 (0.44, 2.50)	1.15 (0.68, 1.95)	0.92 (0.60, 1.41)	0.85 (0.43, 1.67)	0.94 (0.55, 1.62)	2.32 (0.85, 6.32)	0.87 (0.37, 2.06)
	TT	9/47	0.96 (0.38, 2.46)	1.42 (0.79, 2.54)	3/12	1.51 (0.27, 8.44)	0.90 (0.31, 2.64)	1.07 (0.47, 2.43)	1.28 (0.76, 2.13)	0.91 (0.33, 2.50)	1.27 (0.67, 2.40)	1.56 (0.25, 9.79)	1.59 (0.55, 4.58)
								P-interaction =0.08			P-interaction =0.40		P-interaction =0.38
rs3918188	CC	38/135	1.00	0.93 (0.57, 1.53)	12/57	1.00	0.77 (0.33, 1.82)	1.00	0.89 (0.58, 1.36)	1.00	1.43 (0.83, 2.46)	1.00	0.24 (0.10, 0.58)
	CA	36/121	0.75 (0.41, 1.38)	0.74 (0.45, 1.19)	12/41	0.94 (0.32, 2.76)	0.46 (0.20, 1.08)	0.79 (0.47, 1.35)	0.66 (0.43, 1.00)	0.99 (0.50, 1.95)	0.77 (0.45, 1.32)	0.38 (0.13, 1.10)	0.26 (0.04, 1.77)
	AA	8/33	0.70 (0.27, 1.82)	0.62 (0.34, 1.13)	2/30	0.41 (0.07, 2.53)	1.47 (0.58, 3.73)	0.62 (0.27, 1.45)	0.88 (0.38, 2.04)	0.73 (0.25, 2.17)	1.15 (0.26, 5.03)	0.35 (0.06, 2.09)	0.41 (0.15, 1.09)
								P-interaction =0.91			P-interaction =0.77		P-interaction =0.03
rs7830	CC	31/141	1.00	1.16 (0.70, 1.91)	10/55	1.00	0.85 (0.37, 1.98)	1.00	1.07 (0.70, 1.64)	1.00	1.04 (0.63, 1.73)	1.00	1.80 (0.64, 5.06)
	CA	38/108	1.11 (0.60, 2.04)	0.81 (0.49, 1.35)	13/58	2.20 (0.71, 6.88)	0.91 (0.39, 2.12)	1.31 (0.73, 2.35)	0.84 (0.54, 1.29)	0.94 (0.39, 2.27)	0.83 (0.49, 1.39)	4.68 (1.41, 15.48)	1.20 (0.43, 3.36)
	AA	14/41	1.33 (0.57, 3.08)	1.31 (0.71, 2.40)	3/15	0.47 (0.10, 2.30)	1.00 (0.37, 2.73)	0.99 (0.40, 2.48)	1.22 (0.72, 2.05)	0.91 (0.37, 2.25)	1.32 (0.71, 2.46)	3.53 (0.62, 19.95)	1.22 (0.38, 3.96)
								P-interaction =0.62			P-interaction =0.72		P-interaction =0.06

*Abbreviation: POAG: primary-open angle glaucoma; ALC: alcohol