

ADDITIONAL FILE

Additional file 4. (A) Genotype and allele frequencies of ALDH1A1 (for rs8187929, rs1049981, rs11554423) and ALDH2 (rs671, rs769724893) in control, FAS and PAE children. (B) Genotype and allele frequencies of CYP2E1 (for rs2031920, rs3813867, rs72559710, rs6413432, rs6413419 and rs55897648 in control, FAS and PAE children.

(A)

ALDH1A1											
SNP		Control			FAS		PAE		Statistical hypothesis testing		
		n	Freq		n	Freq	n	Freq	Groups	χ2	p-value
rs8187929 (A → T)	Genotype	AA	28	1	34	1	9	1	Ctrl vs FAS	0	1
		AT	0	0	0	0	0	0	Ctrl vs PAE	0	1
		TT	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	A	56	1	68	1	18	1	Ctrl vs FAS	0	1
		T	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1
rs1049981 (G → A)	Genotype	AA	28	1	34	1	9	1	Ctrl vs FAS	0	1
		AG	0	0	0	0	0	0	Ctrl vs PAE	0	1
		GG	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	A	56	1	68	1	18	1	Ctrl vs FAS	0	1
		G	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1
rs11554423 (G → C)	Genotype	GG	28	1	34	1	9	1	Ctrl vs FAS	0	1
		GC	0	0	0	0	0	0	Ctrl vs PAE	0	1
		CC	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	G	56	1	68	1	18	1	Ctrl vs FAS	0	1
		C	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1
ALDH2											
rs671 (G → A)	Genotype	GG	28	1	34	1	9	1	Ctrl vs FAS	0	1
		AG	0	0	0	0	0	0	Ctrl vs PAE	0	1
		AA	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	G	56	1	68	1	18	1	Ctrl vs FAS	0	1
		A	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1
rs769724893 (G → A)	Genotype	GG	28	1	34	1	9	1	Ctrl vs FAS	0	1
		AG	0	0	0	0	0	0	Ctrl vs PAE	0	1
		AA	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	G	56	1	68	1	18	1	Ctrl vs FAS	0	1
		A	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1

(B)

CYP2E1	SNP	Control			FAS		PAE		Statistical hypothesis testing		
		n	Freq		n	Freq	n	Freq	Groups	χ^2	p-value
rs2031920 (C → T)	Genotype	CC	28	1	34	1	9	1	Ctrl vs FAS	0	1
		CT	0	0	0	0	0	0	Ctrl vs PAE	0	1
		TT	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	C	56	1	68	1	18	1	Ctrl vs FAS	0	1
		T	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1
rs3813867 (G → C)	Genotype	GG	28	1	34	1	9	1	Ctrl vs FAS	0	1
		CG	0	0	0	0	0	0	Ctrl vs PAE	0	1
		CC	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	G	56	1	68	1	18	1	Ctrl vs FAS	0	1
		C	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1
rs72559710 (G → A)	Genotype	GG	27	0.96	34	1	9	1	Ctrl vs FAS	1.23	0.54
		GC	1	0.04	0	0	0	0	Ctrl vs PAE	0.33	0.85
		CC	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	G	55	0.98	68	1	18	1	Ctrl vs FAS	1.22	0.27
		C	1	0.02	0	0	0	0	Ctrl vs PAE	0.33	0.57
									PAE vs FAS	0	1
rs6413432 (A → T)	Genotype	TT	28	1	32	0.94	9	1	Ctrl vs FAS	1.70	0.43
		AT	0	0	2	0.06	0	0	Ctrl vs PAE	0	1
		AA	0	0	0	0	0	0	PAE vs FAS	0.55	0.76
	Allele	T	56	1	66	0.97	18	1	Ctrl vs FAS	1.67	0.20
		A	0	0	2	0.03	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0.54	0.46
rs6413419 (G → C)	Genotype	GG	22	1	32	1	9	1	Ctrl vs FAS	3.30	0.19
		AG	6	0	2	0	0	0	Ctrl vs PAE	0.37	0.83
		AA	0	0	0	0	0	0	PAE vs FAS	0.55	0.76
	Allele	G	50	1	66	1	18	1	Ctrl vs FAS	3.07	0.08
		A	6	0	2	0	0	0	Ctrl vs PAE	0.17	0.68
									PAE vs FAS	0.54	0.46
rs55897648 (A → G)	Genotype	GG	28	1	34	1	9	1	Ctrl vs FAS	0	1
		AG	0	0	0	0	0	0	Ctrl vs PAE	0	1
		AA	0	0	0	0	0	0	PAE vs FAS	0	1
	Allele	G	56	1	68	1	18	1	Ctrl vs FAS	0	1
		A	0	0	0	0	0	0	Ctrl vs PAE	0	1
									PAE vs FAS	0	1

Abbreviations: FAS: Fetal Alcohol Syndrome; PAE: Prenatal Ethanol Exposure. * Indicates statistical significance (p -value <0.05). χ^2 : Chi-square test.