

SNPStats results

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Descriptive statistics

Response variable: **status** **Type:** categorical

	n	missing	unique
All subjects	182	0	2
status=0-control	53 (29.12%)	---	---
status=1-cese	129 (70.88%)	---	---

Covariate: **ethnicity** **Type:** categorical

	n	missing	unique
All subjects	182	0	2
status=0-control	53	0	2
status=1-cese	129	0	2

	1	2
All subjects	132 (73%)	50 (27%)
status=0-control	48 (91%)	5 (9%)
status=1-cese	84 (65%)	45 (35%)

Covariate: **gender** **Type:** categorical

	n	missing	unique
All subjects	182	0	2
status=0-control	53	0	2
status=1-cese	129	0	2

	FeMale	Male
All subjects	113 (62%)	69 (38%)
status=0-control	29 (55%)	24 (45%)
status=1-cese	84 (65%)	45 (35%)

Single-SNP analysis

SNP: **rs4256**

Percentage of typed samples: 182/182 (100%)

rs4256 allele frequencies (n=182)						
	All subjects		status=0-control		status=1-cese	
Allele	Count	Proportion	Count	Proportion	Count	Proportion
A	223	0.61	69	0.65	154	0.6
C	141	0.39	37	0.35	104	0.4

rs4256 genotype frequencies (n=182)						
	All subjects		status=0-control		status=1-cese	
Genotype	Count	Proportion	Count	Proportion	Count	Proportion

A/A	66	0.36	21	0.4	45	0.35
A/C	91	0.5	27	0.51	64	0.5
C/C	25	0.14	5	0.09	20	0.16

rs4256 exact test for Hardy-Weinberg equilibrium (n=182)						
	N11	N12	N22	N1	N2	P-value
All subjects	66	91	25	223	141	0.53
status=0-control	21	27	5	69	37	0.55
status=1-cese	45	64	20	154	104	0.85

rs4256 association with response status (n=182, adjusted by ethnicity+gender)							
Model	Genotype	status=0-control	status=1-cese	OR (95% CI)	P-value	AIC	BIC
Codominant	A/A	21 (39.6%)	45 (34.9%)	1.00	0.53	214	230
	C/A	27 (50.9%)	64 (49.6%)	0.98 (0.48-2.00)			
	C/C	5 (9.4%)	20 (15.5%)	1.78 (0.57-5.57)			
Dominant	A/A	21 (39.6%)	45 (34.9%)	1.00	0.78	213.2	226
	C/A-C/C	32 (60.4%)	84 (65.1%)	1.10 (0.56-2.19)			
Recessive	A/A-C/A	48 (90.6%)	109 (84.5%)	1.00	0.26	212	224.8
	C/C	5 (9.4%)	20 (15.5%)	1.81 (0.62-5.24)			
Overdominant	A/A-C/C	26 (49.1%)	65 (50.4%)	1.00	0.62	213	225.8
	C/A	27 (50.9%)	64 (49.6%)	0.85 (0.43-1.65)			
Log-additive ---		---	---	1.21 (0.74-2.00)	0.44	212.7	225.5

Interaction analysis with covariate ethnicity

rs4256 and ethnicity cross-classification interaction table (n=182, adjusted by gender)						
	1			2		
	status=0-control	status=1-cese	OR (95% CI)	status=0-control	status=1-cese	OR (95% CI)
A/A	20	31	1.00	1	14	8.64 (1.05-71.34)
C/A	24	39	1.03 (0.48-2.20)	3	25	5.05 (1.32-19.32)
C/C	4	14	2.23 (0.64-7.77)	1	6	3.61 (0.40-32.74)
Interaction p-value: 0.6						

ethnicity within rs4256 (n=182, adjusted by gender)			
	status=0-control	status=1-cese	OR (95% CI)
A/A	1 20	31	1.00
	2 1	14	8.64 (1.05-71.34)
	status=0-control	status=1-cese	OR (95% CI)
C/A	1 24	39	1.00
	2 3	25	4.92 (1.33-18.23)
	status=0-control	status=1-cese	OR (95% CI)
C/C	1 4	14	1.00
	2 1	6	1.62 (0.15-17.84)
Test for interaction in the trend: 0.36			

rs4256 within ethnicity (n=182, adjusted by gender)			
	status=0-control	status=1-cese	OR (95% CI)
1	A/A 20	31	1.00
	C/A 24	39	1.03 (0.48-2.20)
	C/C 4	14	2.23 (0.64-7.77)
	status=0-control	status=1-cese	OR (95% CI)
2	A/A 1	14	1.00
	C/A 3	25	0.58 (0.06-6.18)
	C/C 1	6	0.42 (0.02-7.86)
Test for interaction in the trend: 0.6			

SNP: rs0519

Percentage of typed samples: 182/182 (100%)

rs0519 allele frequencies (n=182)						
	All subjects		status=0-control		status=1-cese	
Allele	Count	Proportion	Count	Proportion	Count	Proportion
G	240	0.66	74	0.7	166	0.64
A	124	0.34	32	0.3	92	0.36

rs0519 genotype frequencies (n=182)						
	All subjects		status=0-control		status=1-cese	
Genotype	Count	Proportion	Count	Proportion	Count	Proportion
A/A	20	0.11	4	0.08	16	0.12
G/A	84	0.46	24	0.45	60	0.47
G/G	78	0.43	25	0.47	53	0.41

rs0519 exact test for Hardy-Weinberg equilibrium (n=182)						
	N11	N12	N22	N1	N2	P-value
All subjects	78	84	20	240	124	0.87
status=0-control	25	24	4	74	32	0.75
status=1-cese	53	60	16	166	92	1

rs0519 association with response status (n=182, adjusted by ethnicity+gender)							
Model	Genotype	status=0-control	status=1-cese	OR (95% CI)	P-value	AIC	BIC
Codominant	G/G	25 (47.2%)	53 (41.1%)	1.00	0.55	214.1	230.1
	A/G	24 (45.3%)	60 (46.5%)	1.08 (0.54-2.17)			
	A/A	4 (7.5%)	16 (12.4%)	1.92 (0.56-6.52)			
Dominant	G/G	25 (47.2%)	53 (41.1%)	1.00	0.6	213	225.8
	A/G-A/A	28 (52.8%)	76 (58.9%)	1.20 (0.61-2.34)			
Recessive	G/G-A/G	49 (92.5%)	113 (87.6%)	1.00	0.29	212.1	224.9
	A/A	4 (7.5%)	16 (12.4%)	1.84 (0.57-5.96)			
Overdominant	G/G-A/A	29 (54.7%)	69 (53.5%)	1.00	0.9	213.3	226.1
	A/G	24 (45.3%)	60 (46.5%)	0.96 (0.49-1.87)			
Log-additive	---	---	---	1.26 (0.76-2.09)	0.37	212.5	225.3

Interaction analysis with covariate ethnicity

rs0519 and ethnicity cross-classification interaction table (n=182, adjusted by gender)						
	1			2		
	status=0-control	status=1-cese	OR (95% CI)	status=0-control	status=1-cese	OR (95% CI)
G/G	23	36	1.00	2	17	5.24 (1.10-24.99)
A/G	21	37	1.12 (0.53-2.36)	3	23	4.63 (1.23-17.51)
A/A	4	11	1.74 (0.49-6.12)	0	5	---
Interaction p-value: 0.7						

ethnicity within rs0519 (n=182, adjusted by gender)			
	status=0-control	status=1-cese	OR (95% CI)
G/G	1 23	36	1.00
	2 2	17	5.24 (1.10-24.99)
	status=0-control	status=1-cese	OR (95% CI)
A/G	1 21	37	1.00
	2 3	23	4.15 (1.10-15.68)
	status=0-control	status=1-cese	OR (95% CI)
A/A	1 4	11	1.00
	2 0	5	---
Test for interaction in the trend: 0.89			

rs0519 within ethnicity (n=182, adjusted by gender)				
1		status=0-control	status=1-cese	OR (95% CI)
	G/G	23	36	1.00
	A/G	21	37	1.12 (0.53-2.36)
	A/A	4	11	1.74 (0.49-6.12)
2		status=0-control	status=1-cese	OR (95% CI)
	G/G	2	17	1.00
	A/G	3	23	0.88 (0.13-5.90)
	A/A	0	5	---
Test for interaction in the trend: 0.7				

ethnicity within rs0270 (n=182, adjusted by gender)				
A/A	status=0-control status=1-cese OR (95% CI)			
	1	18	27	1.00
	2	0	11	---
G/A	status=0-control status=1-cese OR (95% CI)			
	1	25	43	1.00
	2	4	24	3.38 (1.04-10.94)
G/G	status=0-control status=1-cese OR (95% CI)			
	1	5	14	1.00
	2	1	10	3.37 (0.34-33.84)
Test for interaction in the trend: 0.31				

rs0270 within ethnicity (n=182, adjusted by gender)				
1	status=0-control status=1-cese OR (95% CI)			
	A/A	18	27	1.00
	G/A	25	43	1.12 (0.51-2.44)
	G/G	5	14	1.83 (0.56-5.99)
2	status=0-control status=1-cese OR (95% CI)			
	A/A	0	11	1.00
	G/A	4	24	0.00
	G/G	1	10	0.00
Test for interaction in the trend: 0.22				

Multiple-SNP analysis

Linkage disequilibrium analysis

D statistic

	rs4256	rs0519	rs0270
rs4256	.	0.2086	0.2213
rs0519	.	.	0.1946
rs0270	.	.	.

D' statistic

	rs4256	rs0519	rs0270
rs4256	.	0.9997	0.9997
rs0519	.	.	0.9997
rs0270	.	.	.

r statistic

	rs4256	rs0519	rs0270
rs4256	.	0.9037	0.9179
rs0519	.	.	0.8298
rs0270	.	.	.

P-values

	rs4256	rs0519	rs0270
rs4256	.	0	0
rs0519	.	.	0
rs0270	.	.	.

Haplotype analysis

Haplotype frequencies estimation (n=182)							
	rs4256	rs0519	rs0270	Total	group.0.control	group.1.cese	Cumulative frequency
1	A	G	A	0.5714	0.6132	0.5543	0.5714
2	C	A	G	0.3407	0.3019	0.3566	0.9121

3	C	G	G	0.0467	0.0472	0.0465	0.9588
4	A	G	G	0.0412	0.0377	0.0426	1

Haplotype association with response (n=182, adjusted by ethnicity+gender)						
	rs4256	rs0519	rs0270	Freq	OR (95% CI)	P-value
1	A	G	A	0.5714	1.00	---
2	C	A	G	0.3407	1.23 (0.73 - 2.08)	0.45
3	C	G	G	0.0467	0.91 (0.28 - 2.98)	0.88
4	A	G	G	0.0412	0.79 (0.21 - 2.98)	0.73
Global haplotype association p-value: 0.82						

Haplotype interaction analysis with covariate ethnicity

Haplotype and ethnicity cross-classification interaction table (n=182, adjusted by gender)			
		1	2
Haplotype	Frequency	OR (95% CI)	OR (95% CI)
AGA	0.5714	1.00	12.88 (1.49 - 111.09)
CAG	0.3407	1.27 (0.73 - 2.23)	11.08 (2.34 - 52.40)
AGG	0.0412	0.87 (0.18 - 4.24)	4.94 (0.47 - 51.86)
CGG	0.0467	1.71 (0.42 - 6.97)	1.38 (0.21 - 9.16)
Interaction p-value: 0.28			

Haplotypes within ethnicity (n=182, adjusted by gender)			
		1	2
Haplotype	Frequency	OR (95% CI)	OR (95% CI)
AGA	0.5714	1.00	1.00
CAG	0.3407	1.27 (0.73 - 2.23)	0.86 (0.16 - 4.76)
AGG	0.0412	0.87 (0.18 - 4.24)	0.38 (0.03 - 5.23)
CGG	0.0467	1.71 (0.42 - 6.97)	0.11 (0.01 - 1.19)

ethnicity whithin haplotypes (n=182, adjusted by gender)			
		1	2
Haplotype	Frequency	OR (95% CI)	OR (95% CI)
AGA	0.5714	1.00	12.88 (1.49 - 111.09)
CAG	0.3407	1.00	8.70 (1.93 - 39.25)
AGG	0.0412	1.00	5.70 (0.37 - 87.19)
CGG	0.0467	1.00	0.81 (0.09 - 7.64)

<<< Step 3: Customize analysis