

Supplementary Table 1 – Characteristics of the Study Sample

	Parent Study 1	Parent Study 2	Comparisons Between Studies		Parent Study 1				Parent Study 2			
	Whole Sample	Whole Sample			CC Genotype	AC/AA Genotype	Comparisons Within Study, Between Genotype		CC Genotype	AC/AA Genotype	Comparisons Within Study, Between Genotype	
	(n = 279)	(n = 23)	p value	χ^2 / t	(n = 173)	(n = 106)	p value	χ^2 / t	(n = 13)	(n = 10)	p value	χ^2 / t
Sex (Females / Males), n (%)	146 (52%) / 133 (48%)	13 (57%) / 10 (43%)	.70	0.15	92 (53%) / 81 (47%)	54 (51%) / 52 (49%)	.717	0.13	8 (62%) / 5 (38%)	5 (50%) / 5 (50%)	.580	0.31
Age, Years[†]	19.7 (1.02)	21.8 (1.93)	<0.001***	-8.56	19.6 (0.96)	19.9 (1.01)	.012*	-2.52	21.6(2.15)	22.1(1.67)	.502	-0.68
Ethnicity (Caucasian / Non-caucasian), n (%)	139 (50%) / 140 (50%)	14 (61%) / 9 (39%)	.31	1.04	88 (51%) / 85 (49%)	51 (48%) / 55 (52%)	.655	0.12	10 (77%) / 3 (23%)	4 (40%) / 6 (60%)	.072	3.24
Currently Enrolled as a Student, n (%)	223 (80%)	13 (57%)	.02*	7.74	143 (83%)	80 (75%)	.419	1.74	8 (62%)	5 (50%)	.580	0.31
Current Cigarette Smoker, n (%)	70 (25%)	0 (0%)	.009**	6.9	41 (24%)	29 (27%)	.511	0.43	0 (0%)	0 (0%)	-	-
Fagerström Test of Nicotine Dependence^{†a}	1.2 (1.5)	-	-	-	1.1 (1.3)	1.3 (1.7)	.574	-0.56	-	-	-	-
Barratt Impulsivity Scale - Total[†]	64.5 (10.5) ^b	61.1 (12.62)	.14	1.47	64.7 (10.5)	64.1 (10.5)	.642	.466	63.5(12.8)	58.0(12.4)	.315	1.03
<i>Self-reported Current Frequency of Cannabis Use, past 90 days</i>												
"Never", n (%)	85 (30%)	15 (65%)	.002**	16.5	54 (31%)	31 (29%)	.077	8.44	8 (62%)	7 (70%)	.803	0.99
"Once or twice", n (%)	69 (25%)	3 (13%)			47 (27%)	22 (21%)			2 (15%)	1 (10%)		
"Monthly", n (%)	24 (9%)	2 (9%)			13 (8%)	11 (10%)			1 (8%)	1 (10%)		
"Weekly", n (%)	45 (16%)	1 (4%)			32 (18%)	13 (12%)			1 (8%)	0 (0%)		
"Daily or almost daily", n (%)	55 (20%)	0 (0%)			26 (15%)	29 (27%)			0 (0%)	0 (0%)		

Supplementary Table 1 – [†]Values represented as mean (SD); *p < 0.05, **p<0.01, *p<0.001 for independent t-tests or Pearson's chi square tests conducted between genotype groups of the same parent study. ^abased on a subset of participants who reported regular nicotine use and completed the Fagerström Test of Nicotine Dependence (n = 68). ^bbased on a subset of participants who completed the Barratt Impulsivity Scale (n = 278).**

Supplementary Table 2

	<i>FAAH</i> CC Genotype (n=186)		<i>FAAH</i> AC/AA Genotype (n=116)		
	Unadjusted Mean	SD	Unadjusted Mean	SD	<i>Cohen's d</i>
<i>TLFB 90 Days</i>					
Number of drinking days	18.15	11.5	21.22	12.47	0.26
Average Number of Drinks per Drinking Occasion	4.85	2.25	5.23	2.24	0.17
Number of Heavy Drinking Episodes	9.81	8.59	13.23	11.88	0.34
<i>AUDIT</i>					
Total Score	9.91	5.37	11.06	5.92	0.21
AUDIT-C	5.73	1.86	6.19	2.00	0.24
<i>Drinking Motives Questionnaire</i>					
Coping Motives	10.66	4.37	12.01	4.89	0.29
Enhancement Motives	16.2	5.09	17.06	4.56	0.17

Supplementary Table 2 – Unadjusted means, standard deviations (SD) and standardized mean differences (*d*) shown for outcomes from the 90-day Timeline Followback (TLFB), the Alcohol Use Disorders Identification Test (AUDIT) and the Drinking Motives Questionnaire between *FAAH* genotype groups.