

A) Patient comparison with All 1000 Genome Project data (1092 individuals)							Nuc = nucleotide for the position. p-value calculated with Fisher Exact Test							
Gene	RS	Type	Pop	Nuc	N	Significance	Gene	RS	Type	Pop	Nuc	N	Significance	
PDE1A	rs3754929	Allelic Frequency	ALL	A	1503 (68.81%)	p=0.446 OR - 1.32 (95% CI. 0.64- 2.72)	PDE6A	rs2277925	Allelic Frequency	ALL	T	1655 (75.77%)	p=0.146 OR - 0.44 (95% CI. 0.15- 1.28)	
				G	681 (31.18%)						G	529 (24.22%)		
				PRS	A		20 (62.5%)				PRS	T		28 (87.5%)
					G		12 (37.5%)					G		4 (12.5%)
PDE1A	rs3754929	Genotype Frequency	ALL	AA	521 (47.71%)	p=0.269	PDE6A	rs2277925	Genotype Frequency	ALL	TT	640 (58.60%)	p=0.125	
				GG	110 (10.07%)						GG	77 (7.051%)		
				AG	461 (42.21%)						TG	375 (34.34%)		
				PRS	AA		5 (31.25%)				PRS	TT		13 (81.25%)
		GG	1 (6.25%)			GG	1 (6.25%)							
			AG	10 (62.5%)			TG	2 (12.5%)						
PDE1A	rs67483153	Allelic Frequency	ALL	A	115 (5.265%)	p=0.684 OR - 0.83 (95% CI. 0.19- 3.53)	PDE6A	rs2277926	Allelic Frequency	ALL	A	471 (21.56%)	p=0.126 OR - 2.65 (95% CI. 0.80- 8.76)	
				G	2069 (94.73%)						G	1713 (78.43%)		
				PRS	A		2 (6.25%)				PRS	A		3 (9.375%)
					G		30 (93.75%)					G		29 (90.62%)
PDE1A	rs67483153	Genotype Frequency	ALL	AA	5 (0.457%)	p=0.869	PDE6A	rs2277926	Genotype Frequency	ALL	AA	58 (5.311%)	p=0.038	
				GG	982 (89.92%)						GG	679 (62.17%)		
				AG	105 (9.615%)						AG	355 (32.50%)		
				PRS	AA		0 (0%)				PRS	AA		1 (6.25%)
		GG	14 (87.5%)			GG	14 (87.5%)							
			AG	2 (12.5%)			AG	1 (6.25%)						
PDE1B	rs1249950	Allelic Frequency	ALL	T	1156 (52.93%)	p=0.858 OR - 1.12 (95% CI. 0.55- 2.26)	PDE6A	rs75282782	Allelic Frequency	ALL	G	2143 (98.12%)	p=0.460 OR - 1.68 (95% CI. 0.22- 12.6)	
				C	1028 (47.06%)						C	41 (1.877%)		
				PRS	T		16 (50%)				PRS	G		31 (96.87%)
					C		16 (50%)					C		1 (3.125%)
PDE1B	rs1249950	Genotype Frequency	ALL	TT	313 (28.66%)	p=0.008	PDE6A	rs75282782	Genotype Frequency	ALL	GG	1051 (96.24%)	p=0.463 OR - 1.70 (95% CI. 0.22- 13.2)	
				CC	249 (22.80%)						CC	0 (0%)		
				TC	530 (48.53%)						GC	41 (3.754%)		
				PRS	TT		7 (43.75%)				PRS	GG		15 (93.75%)
		CC	7 (43.75%)			CC	0 (0%)							
			TC	2 (12.5%)			GC	1 (6.25%)						
PDE1C	rs113385926	Allelic Frequency	ALL	T	2082 (95.32%)	p=1 OR - 0.65 (95% CI. 0.08- 4.87)	PDE6A	rs76082232	Allelic Frequency	ALL	T	2077 (95.10%)	p=0.669 OR - 1.29 (95% CI. 0.30- 5.48)	
				C	102 (4.670%)						C	107 (4.899%)		
				PRS	T		31 (96.87%)				PRS	T		30 (93.75%)
					C		1 (3.125%)					C		2 (6.25%)
PDE1C	rs113385926	Genotype Frequency	ALL	TT	994 (91.02%)	p=0.886	PDE6A	rs76082232	Genotype Frequency	ALL	TT	991 (90.75%)	p=0.809	
				CC	4 (0.366%)						CC	6 (0.549%)		
				TC	94 (8.608%)						TC	95 (8.699%)		
				PRS	TT		15 (93.75%)				PRS	TT		14 (87.5%)
		CC	0 (0%)			CC	0 (0%)							
			TC	1 (6.25%)			TC	2 (12.5%)						
PDE1C	rs115957738	Allelic Frequency	ALL	A	13 (0.595%)	p=0.184 OR - 0.18 (95% CI. 0.02- 1.46)	PDE6B	rs115775983	Allelic Frequency	ALL	A	17 (0.778%)	p=0.029 OR - 0.11 (95% CI. 0.02- 0.53)	
				G	2171 (99.40%)						G	2167 (99.22%)		
				PRS	A		1 (3.125%)				PRS	A		2 (6.25%)
					G		31 (96.87%)					G		30 (93.75%)

PDE1C	rs115957738	Genotype Frequency	AA 0 (0%) GG 1079 (98.80%) AG 13 (1.190%)	p=0.185 OR - 0.18 (95% CI. 0.02-1.47)	PDE6B	rs115775983	Genotype Frequency	AA 0 (0%) GG 1075 (98.44%) AG 17 (1.556%)	p=0.028 OR - 0.11 (95% CI. 0.02-0.52)
		PRS	GG 15 (93.75%) AG 1 (6.25%)				PRS	GG 14 (87.5%) AG 2 (12.5%)	
PDE1C	rs116449276	Allelic Frequency	T 8 (0.366%) C 2176 (99.63%)	p=0.008 OR - 0.05 (95% CI. 0.01-0.27)	PDE6B	rs147482093	Allelic Frequency	A 6 (0.274%) G 2178 (99.72%)	p=0.096 OR - 0.08 (95% CI. 0.00-0.73)
		PRS	T 2 (6.25%) C 30 (93.75%)				PRS	A 1 (3.125%) G 31 (96.87%)	
PDE1C	rs116449276	Genotype Frequency	TT 0 (0%) CC 1084 (99.26%) TC 8 (0.732%)	p=0.008 OR - 0.05 (95% CI. 0.01-0.26)	PDE6B	rs147482093	Genotype Frequency	AA 0 (0%) GG 1086 (99.45%) AG 6 (0.549%)	p=0.097 OR - 0.08 (95% CI. 0.00-0.73)
		PRS	TT 0 (0%) CC 14 (87.5%) TC 2 (12.5%)				PRS	AA 0 (0%) GG 15 (93.75%) AG 1 (6.25%)	
PDE1C	rs117088924	Allelic Frequency	A 2158 (98.80%) T 26 (1.190%)	p=0.326 OR - 2.67 (95% CI. 0.35-20.3)	PDE6B	rs61734864	Allelic Frequency	A 2167 (99.22%) G 17 (0.778%)	p=0.231 OR - 4.11 (95% CI. 0.53-31.8)
		PRS	A 31 (96.87%) T 1 (3.125%)				PRS	A 31 (96.87%) G 1 (3.125%)	
PDE1C	rs117088924	Genotype Frequency	AA 1066 (97.61%) TT 0 (0%) AT 26 (2.380%)	p=0.327 OR - 2.73 (95% CI. 0.34-21.4)	PDE6B	rs61734864	Genotype Frequency	AA 1076 (98.53%) GG 1 (0.091%) AG 15 (1.373%)	p=0.473
		PRS	AA 15 (93.75%) TT 0 (0%) AT 1 (6.25%)				PRS	AA 15 (93.75%) GG 0 (0%) AG 1 (6.25%)	
PDE1C	rs1860790	Allelic Frequency	A 2087 (95.55%) G 97 (4.441%)	p=1 OR - 0.69 (95% CI. 0.09- 5.13)	PDE6B	rs61760239	Allelic Frequency	A 59 (2.701%) C 2125 (97.29%)	p=0.058 OR - 0.26 (95% CI. 0.07-0.90)
		PRS	A 31 (96.87%) G 1 (3.125%)				PRS	A 3 (9.375%) C 29 (90.62%)	
PDE1C	rs1860790	Genotype Frequency	AA 997 (91.30%) GG 2 (0.183%) AG 93 (8.516%)	p=0.916	PDE6B	rs61760239	Genotype Frequency	AA 0 (0%) CC 1033 (94.59%) AC 59 (5.402%)	p=0.055 OR - 0.24 (95% CI. 0.06-0.89)
		PRS	AA 15 (93.75%) GG 0 (0%) AG 1 (6.25%)				PRS	AA 0 (0%) CC 13 (81.25%) AC 3 (18.75%)	
PDE1C	rs2302450	Allelic Frequency	A 495 (22.66%) G 1689 (77.33%)	p=0.999 OR - 1.04 (95% CI. 0.45-2.43)	PDE6B	rs73058408	Allelic Frequency	A 0 (0%) G 2184 (100%)	p=0.014 OR - 1.03 (95% CI. 0.96-1.09)
		PRS	A 7 (21.87%) G 25 (78.12%)				PRS	A 1 (3.125%) G 31 (96.87%)	
PDE1C	rs2302450	Genotype Frequency	AA 53 (4.853%) GG 650 (59.52%) AG 389 (35.62%)	p=0.397	PDE6B	rs73058408	Genotype Frequency	AA 0 (0%) GG 1092 (100%) AG 0 (0%)	p=0.014 OR - 1.06 (95% CI. 0.93-1.21)
		PRS	AA 0 (0%) GG 9 (56.25%) AG 7 (43.75%)				PRS	AA 0 (0%) GG 15 (93.75%) AG 1 (6.25%)	

PDE1C	rs3213709	Allelic Frequency	ALL	A 1757 (80.44%) G 427 (19.55%)	p=0.999 OR - 0.94 (95% CI. 0.38-2.32)	PDE6C	rs11187564	Allelic Frequency	ALL	T 119 (5.448%) C 2065 (94.55%)	p=1 OR - 1.78 (95% CI. 0.24- 13.1)
			PRS	A 26 (81.25%) G 6 (18.75%)					PRS	T 1 (3.125%) C 31 (96.87%)	
PDE1C	rs3213709	Genotype Frequency	ALL	AA 705 (64.56%) GG 40 (3.663%) AG 347 (31.77%)	p=0.514	PDE6C	rs11187564	Genotype Frequency	ALL	TT 5 (0.457%) CC 978 (89.56%) TC 109 (9.981%)	p=0.806
			PRS	AA 10 (62.5%) GG 0 (0%) AG 6 (37.5%)					PRS	CC 15 (93.75%) TC 1 (6.25%)	
PDE1C	rs61729940	Allelic Frequency	ALL	A 255 (11.67%) G 1929 (88.32%)	p=0.574 OR - 1.98 (95% CI. 0.47-8.34)	PDE6C	rs1409332	Allelic Frequency	ALL	A 960 (43.95%) C 1224 (56.04%)	p=0.857 OR - 0.88 (95% CI. 0.44-1.78)
			PRS	A 2 (6.25%) G 30 (93.75%)					PRS	A 15 (46.87%) C 17 (53.12%)	
PDE1C	rs61729940	Genotype Frequency	ALL	AA 24 (2.197%) GG 861 (78.84%) AG 207 (18.95%)	p=0.538	PDE6C	rs1409332	Genotype Frequency	ALL	AA 248 (22.71%) CC 380 (34.79%) AC 464 (42.49%)	p=0.951
			PRS	AA 0 (0%) GG 14 (87.5%) AG 2 (12.5%)					PRS	AA 4 (25%) CC 5 (31.25%) AC 7 (43.75%)	
PDE1C	rs61736729	Allelic Frequency	ALL	G 9 (0.412%) C 2175 (99.58%)	p=0.135 OR - 0.12 (95% CI. 0.01-1.04)	PDE6C	rs182445749	Allelic Frequency	ALL	A 2178 (99.72%) G 6 (0.274%)	p=0.096 OR - 11.7 (95% CI. 1.36-100.)
			PRS	G 1 (3.125%) C 31 (96.87%)					PRS	A 31 (96.87%) G 1 (3.125%)	
PDE1C	rs61736729	Genotype Frequency	ALL	GG 0 (0%) CC 1083 (99.17%) GC 9 (0.824%)	p=0.135 OR - 0.12 (95% CI. 0.01-1.04)	PDE6C	rs182445749	Genotype Frequency	ALL	AA 1086 (99.45%) GG 0 (0%) AG 6 (0.549%)	p=0.097 OR - 12.0 (95% CI. 1.36-106.)
			PRS	GG 0 (0%) CC 15 (93.75%) GC 1 (6.25%)					PRS	AA 15 (93.75%) GG 0 (0%) AG 1 (6.25%)	
PDE1C	rs61745829	Allelic Frequency	ALL	T 2164 (99.08%) C 20 (0.915%)	p=0.264 OR - 3.49 (95% CI. 0.45-26.8)	PDE6C	rs193276411	Allelic Frequency	ALL	A 10 (0.457%) G 2174 (99.54%)	p=0.148 OR - 0.14 (95% CI. 0.01-1.14)
			PRS	T 31 (96.87%) C 1 (3.125%)					PRS	A 1 (3.125%) G 31 (96.87%)	
PDE1C	rs61745829	Genotype Frequency	ALL	TT 1072 (98.16%) CC 0 (0%) TC 20 (1.831%)	p=0.265 OR - 3.57 (95% CI. 0.44-28.3)	PDE6C	rs193276411	Genotype Frequency	ALL	AA 0 (0%) GG 1082 (99.08%) AG 10 (0.915%)	p=0.148 OR - 0.13 (95% CI. 0.01-1.15)
			PRS	TT 15 (93.75%) CC 0 (0%) TC 1 (6.25%)					PRS	AA 0 (0%) GG 15 (93.75%) AG 1 (6.25%)	
PDE1C	rs73690312	Allelic Frequency	ALL	A 2081 (95.28%) G 103 (4.716%)	p=0.999 OR - 0.65 (95% CI. 0.08-4.82)	PDE6C	rs3737228	Allelic Frequency	ALL	G 603 (27.60%) C 1581 (72.39%)	p=0.112 OR - 0.55 (95% CI. 0.27-1.13)
			PRS	A 31 (96.87%) G 1 (3.125%)					PRS	G 13 (40.62%) C 19 (59.37%)	

PDE1C	rs73690312	Genotype Frequency	AA 993 (90.93%)			PDE6C	rs3737228	Genotype Frequency	GG 101 (9.249%)		
			ALL GG 4 (0.366%)						ALL CC 590 (54.02%)		
			AG 95 (8.699%)	p=0.882					GC 401 (36.72%)		p=0.321
			PRS AA 15 (93.75%)						GG 3 (18.75%)		
			GG 0 (0%)						PRS CC 6 (37.5%)		
			AG 1 (6.25%)						GC 7 (43.75%)		
PDE1C	rs76290787	Allelic Frequency	A 20 (0.915%)			PDE6C	rs45522236	Allelic Frequency	T 6 (0.274%)		
			G 2164 (99.08%)	p=0.264					G 2178 (99.72%)		p=0.096
			PRS A 1 (3.125%)	OR - 0.28					PRS T 1 (3.125%)		OR - 0.08
			G 31 (96.87%)	(95% CI. 0.03-2.20)					G 31 (96.87%)		(95% CI. 0.00-0.73)
PDE1C	rs76290787	Genotype Frequency	AA 0 (0%)			PDE6C	rs45522236	Genotype Frequency	TT 0 (0%)		
			ALL GG 1072 (98.16%)	p=0.265					ALL GG 1086 (99.45%)		p=0.097
			AG 20 (1.831%)	OR - 0.27					TG 6 (0.549%)		OR - 0.08
			PRS AA 0 (0%)	(95% CI. 0.03-2.22)					TT 0 (0%)		(95% CI. 0.00-0.73)
			GG 15 (93.75%)						PRS GG 15 (93.75%)		
			AG 1 (6.25%)						TG 1 (6.25%)		
PDE1C	rs78021925	Allelic Frequency	A 2144 (98.16%)			PDE6C	rs616522	Allelic Frequency	A 645 (29.53%)		
			T 40 (1.831%)	p=0.452					G 1539 (70.46%)		p=0.846
			PRS A 31 (96.87%)	OR - 1.72					PRS A 10 (31.25%)		OR - 0.92
			T 1 (3.125%)	(95% CI. 0.23-12.9)					G 22 (68.75%)		(95% CI. 0.43-1.95)
PDE1C	rs78021925	Genotype Frequency	AA 1055 (96.61%)			PDE6C	rs616522	Genotype Frequency	AA 104 (9.523%)		
			ALL TT 3 (0.274%)						ALL GG 551 (50.45%)		p=0.700
			AT 34 (3.113%)	p=0.785					AG 437 (40.01%)		
			PRS AA 15 (93.75%)						AA 1 (6.25%)		
			TT 0 (0%)						PRS GG 7 (43.75%)		
			AT 1 (6.25%)						AG 8 (50%)		
PDE2A	rs1135029	Allelic Frequency	T 1484 (67.94%)			PDE6C	rs701865	Allelic Frequency	A 935 (42.81%)		
			C 700 (32.05%)	p=0.086					T 1249 (57.18%)		p=0.473
			PRS T 17 (53.12%)	OR - 1.87					PRS A 16 (50%)		OR - 0.74
			C 15 (46.87%)	(95% CI. 0.92-3.76)					T 16 (50%)		(95% CI. 0.37-1.50)
PDE2A	rs1135029	Genotype Frequency	TT 539 (49.35%)			PDE6C	rs701865	Genotype Frequency	AA 220 (20.14%)		
			ALL CC 147 (13.46%)						ALL TT 377 (34.52%)		p=0.703
			TC 406 (37.17%)	p=0.139					AT 495 (45.32%)		
			PRS TT 4 (25%)						AA 4 (25%)		
			CC 3 (18.75%)						PRS TT 4 (25%)		
			TC 9 (56.25%)						AT 8 (50%)		
PDE2A	rs11824084	Allelic Frequency	G 35 (1.602%)			PDE6C	rs714550	Allelic Frequency	A 896 (41.02%)		
			C 2149 (98.39%)	p=0.098					G 1288 (58.97%)		p=1 OR -
			PRS G 2 (6.25%)	OR - 0.24					PRS A 13 (40.62%)		1.01 (95%
			C 30 (93.75%)	(95% CI. 0.05-1.06)					G 19 (59.37%)		CI. 0.49-2.06)
PDE2A	rs11824084	Genotype Frequency	GG 0 (0%)			PDE6C	rs714550	Genotype Frequency	AA 199 (18.22%)		
			ALL CC 1057 (96.79%)						ALL GG 395 (36.17%)		p=0.143
			GC 35 (3.205%)	p=0.097					AG 498 (45.60%)		OR - 0.23
			PRS GG 0 (0%)	(95% CI. 0.05-1.05)					AA 1 (6.25%)		(95% CI. 0.05-1.05)
			CC 14 (87.5%)						PRS GG 4 (25%)		
			GC 2 (12.5%)						AG 11 (68.75%)		

PDE2A	rs1980091	Allelic Frequency	ALL	A 595 (27.24%) G 1589 (72.75%)	p=0.999 OR - 1.12 (95% CI. 0.50-2.51)	PDE6C	rs76999928	Allelic Frequency	ALL	T 2161 (98.94%) G 23 (1.053%)	p=0.295 OR - 3.03 (95% CI. 0.39-23.1)
			PRS	A 8 (25%) G 24 (75%)					PRS	T 31 (96.87%) G 1 (3.125%)	
PDE2A	rs1980091	Genotype Frequency	ALL	AA 80 (7.326%) GG 577 (52.83%) AG 435 (39.83%)	p=0.959	PDE6C	rs76999928	Genotype Frequency	ALL	TT 1069 (97.89%) GG 0 (0%) TG 23 (2.106%)	p=0.297 OR - 3.09 (95% CI. 0.39-24.4)
			PRS	AA 1 (6.25%) GG 9 (56.25%) AG 6 (37.5%)					PRS	TT 15 (93.75%) GG 0 (0%) TG 1 (6.25%)	
PDE2A	rs392818	Allelic Frequency	ALL	A 44 (2.014%) G 2140 (97.98%)	p=0.483 OR - 0.63 (95% CI. 0.08-4.77)	PDE7A	rs11557049	Allelic Frequency	ALL	T 65 (2.976%) C 2119 (97.02%)	p=0.072 OR - 0.29 (95% CI. 0.08-0.99)
			PRS	A 1 (3.125%) G 31 (96.87%)					PRS	T 3 (9.375%) C 29 (90.62%)	
PDE2A	rs392818	Genotype Frequency	ALL	AA 1 (0.091%) GG 1049 (96.06%) AG 42 (3.846%)	p=0.888	PDE7A	rs11557049	Genotype Frequency	ALL	TT 4 (0.366%) CC 1031 (94.41%) TC 57 (5.219%)	p=0.158
			PRS	AA 0 (0%) GG 15 (93.75%) AG 1 (6.25%)					PRS	TT 0 (0%) CC 13 (81.25%) TC 3 (18.75%)	
PDE2A	rs4944557	Allelic Frequency	ALL	A 89 (4.075%) G 2095 (95.92%)	p=0.381 OR - 0.63 (95% CI. 0.14-2.70)	PDE8A	rs11073917	Allelic Frequency	ALL	T 444 (20.32%) G 1740 (79.67%)	p=0.375 OR - 1.78 (95% CI. 0.62-5.11)
			PRS	A 2 (6.25%) G 30 (93.75%)					PRS	T 4 (12.5%) G 28 (87.5%)	
PDE2A	rs4944557	Genotype Frequency	ALL	AA 8 (0.732%) GG 1011 (92.58%) AG 73 (6.684%)	p=0.634	PDE8A	rs11073917	Genotype Frequency	ALL	TT 65 (5.952%) GG 713 (65.29%) TG 314 (28.75%)	p=0.334
			PRS	AA 0 (0%) GG 14 (87.5%) AG 2 (12.5%)					PRS	TT 0 (0%) GG 12 (75%) TG 4 (25%)	
PDE2A	rs577536	Allelic Frequency	ALL	T 44 (2.014%) C 2140 (97.98%)	p=0.028 OR - 0.19 (95% CI. 0.05-0.67)	PDE8A	rs148254104	Allelic Frequency	ALL	T 0 (??%) C 0 (??%)	p=
			PRS	T 3 (9.375%) C 29 (90.62%)					PRS	T 0 (??%) C 0 (??%)	
PDE2A	rs577536	Genotype Frequency	ALL	TT 1 (0.091%) CC 1049 (96.06%) TC 42 (3.846%)	p=0.048	PDE8A	rs148254104	Genotype Frequency	ALL	TT ??? (??%) CC ??? (??%) TC ??? (??%)	p=
			PRS	TT 1 (6.25%) CC 14 (87.5%) TC 1 (6.25%)					PRS	TT ??? (??%) CC ??? (??%) TC ??? (??%)	
PDE3A	rs10743380	Allelic Frequency	ALL	T 2025 (92.71%) C 159 (7.280%)	p=0.725 OR - 0.41 (95% CI. 0.05-3.02)	PDE8A	rs16974908	Allelic Frequency	ALL	T 165 (7.554%) C 2019 (92.44%)	p=0.509 OR - 2.53 (95% CI. 0.34-18.6)
			PRS	T 31 (96.87%) C 1 (3.125%)					PRS	T 1 (3.125%) C 31 (96.87%)	

PDE3A	rs10743380	Genotype Frequency	TT 943 (86.35%)	p=0.597	PDE8A	rs16974908	Genotype Frequency	TT 28 (2.564%)	p=0.565	
		ALL CC	10 (0.915%)					ALL CC		955 (87.45%)
		TC	139 (12.72%)					TC		109 (9.981%)
		TT	15 (93.75%)					TT		0 (0%)
		PRS CC	0 (0%)					PRS CC		15 (93.75%)
		TC	1 (6.25%)					TC		1 (6.25%)
PDE3A	rs10743384	Allelic Frequency	T 937 (42.90%)	p=0.473 OR - 0.75 (95% CI. 0.37-1.51)	PDE8A	rs35666574	Allelic Frequency	T 36 (1.648%)	p=0.418 OR - 0.51 (95% CI. 0.06-3.91)	
		C	1247 (57.09%)					C		2148 (98.35%)
		PRS T	16 (50%)					PRS T		1 (3.125%)
		C	16 (50%)					C		31 (96.87%)
PDE3A	rs10743384	Genotype Frequency	TT 231 (21.15%)	p=0.034	PDE8A	rs35666574	Genotype Frequency	TT 0 (0%)	p=0.421 OR - 0.51 (95% CI. 0.06-3.97)	
		ALL CC	386 (35.34%)					ALL CC		1056 (96.70%)
		TC	475 (43.49%)					TC		36 (3.296%)
		TT	2 (12.5%)					TT		0 (0%)
		PRS CC	2 (12.5%)					PRS CC		15 (93.75%)
		TC	12 (75%)					TC		1 (6.25%)
PDE3A	rs117453345	Allelic Frequency	T 61 (2.793%)	p=0.599 OR - 0.89 (95% CI. 0.11-6.63)	PDE8B	rs115599001	Allelic Frequency	A 14 (0.641%)	p=0.021 OR - 0.09 (95% CI. 0.02-0.44)	
		C	2123 (97.20%)					G		2170 (99.35%)
		PRS T	1 (3.125%)					PRS A		2 (6.25%)
		C	31 (96.87%)					G		30 (93.75%)
PDE3A	rs117453345	Genotype Frequency	TT 1 (0.091%)	p=0.975	PDE8B	rs115599001	Genotype Frequency	AA 0 (0%)	p=0.020 OR - 0.09 (95% CI. 0.01-0.43)	
		ALL CC	1032 (94.50%)					ALL GG		1078 (98.71%)
		TC	59 (5.402%)					AG		14 (1.282%)
		TT	0 (0%)					AA		0 (0%)
		PRS CC	15 (93.75%)					PRS GG		14 (87.5%)
		TC	1 (6.25%)					AG		2 (12.5%)
PDE3A	rs171539448	Allelic Frequency	A 166 (7.600%)	p=1 OR - 1.23 (95% CI. 0.29- 5.20)	PDE8B	rs182775622	Allelic Frequency	A 1 (0.045%)	p=0.028 OR - 0.01 (95% CI. 0.00-0.23)	
		G	2018 (92.39%)					G		2183 (99.95%)
		PRS A	2 (6.25%)					PRS A		1 (3.125%)
		G	30 (93.75%)					G		31 (96.87%)
PDE3A	rs71539448	Genotype Frequency	AA 8 (0.732%)	p=0.879	PDE8B	rs182775622	Genotype Frequency	AA 0 (0%)	p=0.028 OR - 0.01 (95% CI. 0.00-0.23)	
		ALL GG	934 (85.53%)					ALL GG		1091 (99.90%)
		AG	150 (13.73%)					AG		1 (0.091%)
		AA	0 (0%)					AA		0 (0%)
		PRS GG	14 (87.5%)					PRS GG		15 (93.75%)
		AG	2 (12.5%)					AG		1 (6.25%)
PDE3A	rs78782960	Allelic Frequency	A 165 (7.554%)	p=0.730 OR - 0.78 (95% CI. 0.23-2.62)	PDE8B	rs186753	Allelic Frequency	T 0 (0%)	p=	
		G	2019 (92.44%)					C		2184 (100%)
		PRS A	3 (9.375%)					PRS T		0 (0%)
		G	29 (90.62%)					C		32 (100%)
PDE3A	rs78782960	Genotype Frequency	AA 9 (0.824%)	p=0.744	PDE8B	rs186753	Genotype Frequency	TT 0 (0%)	p=	
		ALL GG	936 (85.71%)					ALL CC		1092 (100%)
		AG	147 (13.46%)					TC		0 (0%)
		AA	0 (0%)					TT		0 (0%)
		PRS GG	13 (81.25%)					PRS CC		16 (100%)
		AG	3 (18.75%)					TC		0 (0%)

PDE3B	rs1247719	Allelic Frequency	ALL	T 24 (1.098%) C 2160 (98.90%)	p=1 OR - 0.98 (95% CI. 0.98- 0.99)	PDE8B	rs335614	Allelic Frequency	ALL	A 564 (25.82%) G 1620 (74.17%)	p=1 OR - 1.04 (95% CI. 0.46- 2.33)
			PRS	T 0 (0%) C 32 (100%)					PRS	A 8 (25%) G 24 (75%)	
PDE3B	rs1247719	Genotype Frequency	ALL	TT 0 (0%) CC 1068 (97.80%) TC 24 (2.197%)	p=0.999 OR - 0.97 (95% CI. 0.96-0.98)	PDE8B	rs335614	Genotype Frequency	ALL	AA 82 (7.509%) GG 610 (55.86%) AG 400 (36.63%)	p=0.204
			PRS	TT 0 (0%) CC 16 (100%) TC 0 (0%)					PRS	AA 0 (0%) GG 8 (50%) AG 8 (50%)	
PDE3B	rs1247720	Allelic Frequency	ALL	T 24 (1.098%) C 2160 (98.90%)	p=1 OR - 0.98 (95% CI. 0.98- 0.99)	PDE8B	rs40594	Allelic Frequency	ALL	A 1346 (61.63%) G 838 (38.36%)	p=0.017 OR - 2.34 (95% CI. 1.15-4.77)
			PRS	T 0 (0%) C 32 (100%)					PRS	A 13 (40.62%) G 19 (59.37%)	
PDE3B	rs1247720	Genotype Frequency	ALL	TT 0 (0%) CC 1068 (97.80%) TC 24 (2.197%)	p=0.999 OR - 0.97 (95% CI. 0.96-0.98)	PDE8B	rs40594	Genotype Frequency	ALL	AA 445 (40.75%) GG 191 (17.49%) AG 456 (41.75%)	p=0.051
			PRS	TT 0 (0%) CC 16 (100%) TC 0 (0%)					PRS	AA 4 (25%) GG 7 (43.75%) AG 5 (31.25%)	
PDE3B	rs4757268	Allelic Frequency	ALL	A 772 (35.34%) G 1412 (64.65%)	p=0.577 OR - 0.79 (95% CI. 0.39-1.62)	PDE8B	rs62362531	Allelic Frequency	ALL	T 250 (11.44%) C 1934 (88.55%)	p=0.999 OR - 1.24 (95% CI. 0.37-4.13)
			PRS	A 13 (40.62%) G 19 (59.37%)					PRS	T 3 (9.375%) C 29 (90.62%)	
PDE3B	rs4757268	Genotype Frequency	ALL	AA 137 (12.54%) GG 457 (41.84%) AG 498 (45.60%)	p=0.777	PDE8B	rs62362531	Genotype Frequency	ALL	TT 19 (1.739%) CC 861 (78.84%) TC 212 (19.41%)	p=0.752
			PRS	AA 3 (18.75%) GG 6 (37.5%) AG 7 (43.75%)					PRS	TT 0 (0%) CC 13 (81.25%) TC 3 (18.75%)	
PDE4A	rs1051738	Allelic Frequency	ALL	A 388 (17.76%) C 1796 (82.23%)	p=0.346 OR - 2.08 (95% CI. 0.63-6.89)	PDE9A	rs1045382	Allelic Frequency	ALL	T 1181 (54.07%) C 1003 (45.92%)	p=0.049 OR - 0.46 (95% CI. 0.21-1.00)
			PRS	A 3 (9.375%) C 29 (90.62%)					PRS	T 23 (71.87%) C 9 (28.12%)	
PDE4A	rs1051738	Genotype Frequency	ALL	AA 36 (3.296%) CC 740 (67.76%) AC 316 (28.93%)	p=0.351	PDE9A	rs1045382	Genotype Frequency	ALL	TT 343 (31.41%) CC 254 (23.26%) TC 495 (45.32%)	p=0.118
			PRS	AA 0 (0%) CC 13 (81.25%) AC 3 (18.75%)					PRS	TT 8 (50%) CC 1 (6.25%) TC 7 (43.75%)	
PDE4A	rs138164292	Allelic Frequency	ALL	T 0 (0%) C 0 (0%)	p=	PDE9A	rs13047953	Allelic Frequency	ALL	T 698 (31.95%) C 1486 (68.04%)	p=1 OR - 1.03 (95% CI. 0.48- 2.19)
			PRS	T 0 (0%) C 0 (0%)					PRS	T 10 (31.25%) C 22 (68.75%)	

PDE4A	rs138164292	Genotype Frequency	TT	???	(?)	p=	PDE9A	rs13047953	Genotype Frequency	TT	146	(13.36%)	p=0.560		
		ALL	CC	???	(?)				ALL	CC	540	(49.45%)			
			TC	???	(?)					TC	406	(37.17%)			
			TT	???	(?)					TT	3	(18.75%)			
		PRS	CC	???	(?)				PRS	CC	9	(56.25%)			
			TC	???	(?)				TC	4	(25%)				
PDE4A	rs141286487	Allelic Frequency	ALL	T	9 (0.412%)	p=0.135 OR - 0.12 (95% CI. 0.01-1.04)	PDE9A	rs2269153	Allelic Frequency	ALL	A	805	(36.85%)	p=0.854 OR - 1.11 (95% CI. 0.53-2.32)	
			C	2175	(99.58%)					G	1379	(63.14%)			
		PRS	T	1	(3.125%)				PRS	A	11	(34.37%)			
			C	31	(96.87%)					G	21	(65.62%)			
PDE4A	rs141286487	Genotype Frequency	ALL	TT	0 (0%)	p=0.135 OR - 0.12 (95% CI. 0.01-1.04)	PDE9A	rs2269153	Genotype Frequency	ALL	AA	171	(15.65%)	p=0.938	
			CC	1083	(99.17%)					GG	458	(41.94%)			
			TC	9	(0.824%)					AG	463	(42.39%)			
		PRS	TT	0	(0%)				PRS	AA	2	(12.5%)			
			CC	15	(93.75%)					GG	7	(43.75%)			
			TC	1	(6.25%)				AG	7	(43.75%)				
PDE4A	rs74453701	Allelic Frequency	ALL	G	2129	(97.48%)	p=0.198 OR - 2.58 (95% CI. 0.60-11.0)	PDE9A	rs3087994	Allelic Frequency	ALL	A	1194	(54.67%)	p=0.071 OR - 0.47 (95% CI. 0.21-1.02)
			C	55	(2.518%)					C	990	(45.32%)			
		PRS	G	30	(93.75%)				PRS	A	23	(71.87%)			
			C	2	(6.25%)					C	9	(28.12%)			
PDE4A	rs74453701	Genotype Frequency	ALL	GG	1038	(95.05%)	p=0.487	PDE9A	rs3087994	Genotype Frequency	ALL	AA	345	(31.59%)	p=0.135
			CC	1	(0.091%)					CC	243	(22.25%)			
			GC	53	(4.853%)					AC	504	(46.15%)			
		PRS	GG	14	(87.5%)				PRS	AA	8	(50%)			
			CC	0	(0%)					CC	1	(6.25%)			
			GC	2	(12.5%)				AC	7	(43.75%)				
PDE4B	rs114408173	Allelic Frequency	ALL	A	12	(0.549%)	p=0.172 OR - 0.17 (95% CI. 0.02-1.35)	PDE9A	rs71320554	Allelic Frequency	ALL	T	39	(1.785%)	p=0.444 OR - 0.56 (95% CI. 0.07-4.23)
			G	2172	(99.45%)					C	2145	(98.21%)			
		PRS	A	1	(3.125%)				PRS	T	1	(3.125%)			
			G	31	(96.87%)					C	31	(96.87%)			
PDE4B	rs114408173	Genotype Frequency	ALL	AA	0 (0%)	p=0.173 OR - 0.16 (95% CI. 0.02-1.36)	PDE9A	rs71320554	Genotype Frequency	ALL	TT	0 (0%)	p=0.446 OR - 0.55 (95% CI. 0.07-4.31)		
			GG	1080	(98.90%)					CC	1053	(96.42%)			
			AG	12	(1.098%)					TC	39	(3.571%)			
		PRS	AA	0	(0%)				PRS	TT	0	(0%)			
			GG	15	(93.75%)					CC	15	(93.75%)			
			AG	1	(6.25%)				TC	1	(6.25%)				
PDE4B	rs200851592	Allelic Frequency	ALL	G	0 (?)	p=	PDE10A	rs220740	Allelic Frequency	ALL	T	492	(22.52%)	p=0.285 OR - 0.63 (95% CI. 0.30-1.35)	
			C	0 (?)						C	1692	(77.47%)			
		PRS	G	16	(50%)				PRS	T	10	(31.25%)			
			C	16	(50%)					C	22	(68.75%)			
PDE4B	rs200851592	Genotype Frequency	ALL	GG	???	(?)	p=	PDE10A	rs220740	Genotype Frequency	ALL	TT	59	(5.402%)	p=0.044
			CC	???	(?)					CC	659	(60.34%)			
			GC	???	(?)					TC	374	(34.24%)			
		PRS	GG	1	(6.25%)				PRS	TT	0	(0%)			
			CC	1	(6.25%)					CC	6	(37.5%)			
			GC	14	(87.5%)				TC	10	(62.5%)				



PDE4B	rs34492439	Allelic Frequency	ALL	T	0 (??%)	p=	PDE10A	rs73022128	Allelic Frequency	ALL	T	1949 (89.23%)	p=0.999 OR - 0.85 (95% CI. 0.25-2.83)	
				C	0 (??%)						C	235 (10.76%)		
			PRS	T	0 (??%)						PRS	T		29 (90.62%)
				C	0 (??%)							C		3 (9.375%)
PDE4B	rs34492439	Genotype Frequency	ALL	TT	???	p=	PDE10A	rs73022128	Genotype Frequency	ALL	TT	869 (79.57%)	p=0.836	
				CC	???						CC	12 (1.098%)		
				TC	???						TC	211 (19.32%)		
			PRS	TT	???						PRS	TT		13 (81.25%)
				CC	???						CC	0 (0%)		
				TC	???						TC	3 (18.75%)		
PDE4B	rs7534999	Allelic Frequency	ALL	T	59 (2.701%)	p=0.587 OR - 0.86 (95% CI. 0.11-6.41)	PDE10A	rs77122094	Allelic Frequency	ALL	A	12 (0.549%)	p=0.016 OR - 0.08 (95% CI. 0.01-0.38)	
				C	2125 (97.29%)						T	2172 (99.45%)		
			PRS	T	1 (3.125%)						PRS	A		2 (6.25%)
				C	31 (96.87%)							T		30 (93.75%)
PDE4B	rs7534999	Genotype Frequency	ALL	TT	3 (0.274%)	p=0.928	PDE10A	rs77122094	Genotype Frequency	ALL	AA	0 (0%)	p=0.016 OR - 0.07 (95% CI. 0.01-0.38)	
				CC	1036 (94.87%)						TT	1080 (98.90%)		
				TC	53 (4.853%)						AT	12 (1.098%)		
			PRS	TT	0 (0%)						PRS	AA		0 (0%)
				CC	15 (93.75%)						TT	14 (87.5%)		
				TC	1 (6.25%)						AT	2 (12.5%)		
PDE4B	rs75398902	Allelic Frequency	ALL	G	34 (1.556%)	p=0.401 OR - 0.49 (95% CI. 0.06-3.69)	PDE10A	rs79469867	Allelic Frequency	ALL	T	2024 (92.67%)	p=0.292 OR - 1.80 (95% CI. 0.62-5.21)	
				C	2150 (98.44%)						C	160 (7.326%)		
			PRS	G	1 (3.125%)						PRS	T		28 (87.5%)
				C	31 (96.87%)							C		4 (12.5%)
PDE4B	rs75398902	Genotype Frequency	ALL	GG	0 (0%)	p=0.403 OR - 0.48 (95% CI. 0.06-3.75)	PDE10A	rs79469867	Genotype Frequency	ALL	TT	940 (86.08%)	p=0.410	
				CC	1058 (96.88%)						CC	8 (0.732%)		
				GC	34 (3.113%)						TC	144 (13.18%)		
			PRS	GG	0 (0%)						PRS	TT		12 (75%)
				CC	15 (93.75%)						CC	0 (0%)		
				GC	1 (6.25%)						TC	4 (25%)		
PDE4B	rs783036	Allelic Frequency	ALL	A	1015 (46.47%)	p=0.723 OR - 0.86 (95% CI. 0.43-1.74)	PDE10A	rs9459421	Allelic Frequency	ALL	T	1902 (87.08%)	p=0.790 OR - 0.69 (95% CI. 0.21-2.30)	
				G	1169 (53.52%)						C	282 (12.91%)		
			PRS	A	16 (50%)						PRS	T		29 (90.62%)
				G	16 (50%)							C		3 (9.375%)
PDE4B	rs783036	Genotype Frequency	ALL	AA	286 (26.19%)	p=0.904	PDE10A	rs9459421	Genotype Frequency	ALL	TT	841 (77.01%)	p=0.620	
				GG	363 (33.24%)						CC	31 (2.838%)		
				AG	443 (40.56%)						TC	220 (20.14%)		
			PRS	AA	5 (31.25%)						PRS	TT		13 (81.25%)
				GG	5 (31.25%)						CC	0 (0%)		
				AG	6 (37.5%)						TC	3 (18.75%)		
PDE4B	rs783039	Allelic Frequency	ALL	A	328 (15.01%)	p=0.001 OR - 0.29 (95% CI. 0.14-0.60)	PDE11A	rs1047884	Allelic Frequency	ALL	G	1500 (68.68%)	p=0.565 OR - 0.73 (95% CI. 0.32-1.63)	
				G	1856 (84.98%)						C	684 (31.31%)		
			PRS	A	12 (37.5%)						PRS	G		24 (75%)
				G	20 (62.5%)							C		8 (25%)

PDE4B	rs783039	Genotype Frequency	AA 33 (3.021%)	p=0.004	PDE11A	rs1047884	Genotype Frequency	GG 533 (48.80%)	p=0.726	
		ALL	GG 797 (72.98%)					ALL		CC 125 (11.44%)
			AG 262 (23.99%)					PRS		GC 434 (39.74%)
		PRS	AA 4 (25%)					PRS		GG 9 (56.25%)
			GG 8 (50%)							GC 6 (37.5%)
			AG 4 (25%)							
PDE4C	rs783039	Allelic Frequency	T 557 (25.50%)	p=0.024 OR - 0.44 (95% CI. 0.21-0.89)	PDE11A	rs115616942	Allelic Frequency	A 58 (2.655%)	p=0.580 OR - 0.84 (95% CI. 0.11-6.30)	
		ALL	C 1627 (74.49%)					ALL		C 2126 (97.34%)
		PRS	T 14 (43.75%)					PRS		A 1 (3.125%)
			C 18 (56.25%)							C 31 (96.87%)
PDE4C	rs783039	Genotype Frequency	TT 88 (8.058%)	p=0.091	PDE11A	rs115616942	Genotype Frequency	AA 1 (0.091%)	p=0.967	
		ALL	CC 623 (57.05%)					ALL		CC 1035 (94.78%)
			TC 381 (34.89%)					PRS		AC 56 (5.128%)
		PRS	TT 4 (25%)					PRS		AA 0 (0%)
			CC 6 (37.5%)							CC 15 (93.75%)
			TC 6 (37.5%)					AC 1 (6.25%)		
PDE4D	rs11950492	Allelic Frequency	A 1815 (83.10%)	p=0.999 OR - 0.91 (95% CI. 0.34-2.38)	PDE11A	rs115662866	Allelic Frequency	A 39 (1.785%)	p=0.444 OR - 0.56 (95% CI. 0.07-4.23)	
		ALL	G 369 (16.89%)					ALL		G 2145 (98.21%)
		PRS	A 27 (84.37%)					PRS		A 1 (3.125%)
			G 5 (15.62%)							G 31 (96.87%)
PDE4D	rs11950492	Genotype Frequency	AA 758 (69.41%)	p=0.576	PDE11A	rs115662866	Genotype Frequency	AA 0 (0%)	p=0.446 OR - 0.55 (95% CI. 0.07-4.31)	
		ALL	GG 35 (3.205%)					ALL		GG 1053 (96.42%)
			AG 299 (27.38%)					PRS		AG 39 (3.571%)
		PRS	AA 11 (68.75%)					PRS		AA 0 (0%)
			GG 0 (0%)							GG 15 (93.75%)
			AG 5 (31.25%)					AG 1 (6.25%)		
PDE4D	rs11950495	Allelic Frequency	A 1992 (91.20%)	p=0.756 OR - 1.07 (95% CI. 0.32-3.55)	PDE11A	rs13012088	Allelic Frequency	A 158 (7.234%)	p=0.724 OR - 2.41 (95% CI. 0.32-17.8)	
		ALL	G 192 (8.791%)					ALL		G 2026 (92.76%)
		PRS	A 29 (90.62%)					PRS		A 1 (3.125%)
			G 3 (9.375%)							G 31 (96.87%)
PDE4D	rs11950495	Genotype Frequency	AA 914 (83.69%)	p=0.758	PDE11A	rs13012088	Genotype Frequency	AA 11 (1.007%)	p=0.603	
		ALL	GG 14 (1.282%)					ALL		GG 945 (86.53%)
			AG 164 (15.01%)					PRS		AG 136 (12.45%)
		PRS	AA 13 (81.25%)					PRS		AA 0 (0%)
			GG 0 (0%)							GG 15 (93.75%)
			AG 3 (18.75%)					AG 1 (6.25%)		
PDE4D	rs11959349	Allelic Frequency	A 1815 (83.10%)	p=0.638 OR - 0.70 (95% CI. 0.24-2.01)	PDE11A	rs1435573	Allelic Frequency	T 246 (11.26%)	p=0.250 OR - 3.93 (95% CI. 0.53-28.9)	
		ALL	C 369 (16.89%)					ALL		G 1938 (88.73%)
		PRS	A 28 (87.5%)					PRS		T 1 (3.125%)
			C 4 (12.5%)							G 31 (96.87%)
PDE4D	rs11959349	Genotype Frequency	AA 758 (69.41%)	p=0.570	PDE11A	rs1435573	Genotype Frequency	TT 23 (2.106%)	p=0.254	
		ALL	CC 35 (3.205%)					ALL		GG 869 (79.57%)
			AC 299 (27.38%)					PRS		TG 200 (18.31%)
		PRS	AA 12 (75%)					PRS		TT 0 (0%)
			CC 0 (0%)							GG 15 (93.75%)
			AC 4 (25%)					TG 1 (6.25%)		

PDE4D	rs1553114	Allelic Frequency	ALL	T 1764 (80.76%) C 420 (19.23%)	p=1 OR - 0.96 (95% CI. 0.39- 2.36)	PDE11A	rs2293473	Allelic Frequency	ALL	A 190 (8.699%) G 1994 (91.30%)	p=0.520 OR - 0.66 (95% CI. 0.23-1.92)
			PRS	T 26 (81.25%) C 6 (18.75%)					PRS	A 4 (12.5%) G 28 (87.5%)	
PDE4D	rs1553114	Genotype Frequency	ALL	TT 720 (65.93%) CC 48 (4.395%) TC 324 (29.67%)	p=0.882	PDE11A	rs2293473	Genotype Frequency	ALL	AA 17 (1.556%) GG 919 (84.15%) AG 156 (14.28%)	p=0.430
			PRS	TT 11 (68.75%) CC 1 (6.25%) TC 4 (25%)					PRS	AA 0 (0%) GG 12 (75%) AG 4 (25%)	
PDE4D	rs72769729	Allelic Frequency	ALL	T 211 (9.661%) C 1973 (90.33%)	p=0.358 OR - 3.31 (95% CI. 0.45-24.4)	PDE11A	rs3821010	Allelic Frequency	ALL	A 1284 (58.79%) G 900 (41.20%)	p=0.150 OR - 0.55 (95% CI. 0.25-1.21)
			PRS	T 1 (3.125%) C 31 (96.87%)					PRS	A 23 (71.87%) G 9 (28.12%)	
PDE4D	rs72769729	Genotype Frequency	ALL	TT 9 (0.824%) CC 890 (81.50%) TC 193 (17.67%)	p=0.350	PDE11A	rs3821010	Genotype Frequency	ALL	AA 409 (37.45%) GG 217 (19.87%) AG 466 (42.67%)	p=0.028
			PRS	TT 0 (0%) CC 15 (93.75%) TC 1 (6.25%)					PRS	AA 7 (43.75%) GG 0 (0%) AG 9 (56.25%)	
PDE5A	rs11947234	Allelic Frequency	ALL	A 1537 (70.37%) G 647 (29.62%)	p=0.361 OR - 0.79 (95% CI. 0.49-1.26)	PDE11A	rs6433711	Allelic Frequency	ALL	T 2164 (99.08%) C 20 (0.915%)	p=0.999 OR - 0.99 (95% CI. 0.98-0.99)
			PRS	A 72 (75%) G 24 (25%)					PRS	T 32 (100%) C 0 (0%)	
PDE5A	rs11947234	Genotype Frequency	ALL	AA 543 (49.72%) GG 98 (8.974%) AG 451 (41.30%)	p=0.145	PDE11A	rs6433711	Genotype Frequency	ALL	TT 1073 (98.26%) CC 1 (0.091%) TC 18 (1.648%)	p=0.756
			PRS	AA 25 (52.08%) GG 1 (2.083%) AG 22 (45.83%)					PRS	TT 16 (100%) CC 0 (0%) TC 0 (0%)	
PDE5A	rs142272118	Allelic Frequency	ALL	T 12 (0.549%) C 2172 (99.45%)	p=0.172 OR - 0.17 (95% CI. 0.02-1.35)	PDE11A	rs6720891	Allelic Frequency	ALL	T 1284 (58.79%) C 900 (41.20%)	p=0.071 OR - 0.47 (95% CI. 0.21-1.06)
			PRS	T 1 (3.125%) C 31 (96.87%)					PRS	T 24 (75%) C 8 (25%)	
PDE5A	rs142272118	Genotype Frequency	ALL	TT 1 (0.091%) CC 1081 (98.99%) TC 10 (0.915%)	p=0.343	PDE11A	rs6720891	Genotype Frequency	ALL	TT 409 (37.45%) CC 217 (19.87%) TC 466 (42.67%)	p=0.181
			PRS	TT 0 (0%) CC 15 (93.75%) TC 1 (6.25%)					PRS	TT 9 (56.25%) CC 1 (6.25%) TC 6 (37.5%)	
PDE5A	rs144204269	Allelic Frequency	ALL	T 2181 (99.86%) G 3 (0.137%)	p=0.158 OR - 7.65 (95% CI. 0.78-74.2)	PDE11A	rs71423514	Allelic Frequency	ALL	T 2025 (92.71%) C 159 (7.280%)	p=0.725 OR - 0.41 (95% CI. 0.05-3.02)
			PRS	T 95 (98.95%) G 1 (1.041%)					PRS	T 31 (96.87%) C 1 (3.125%)	

PDE5A	rs144204269	Genotype Frequency	TT 1089 (99.72%)			PDE11A	rs71423514	Genotype Frequency	TT 944 (86.44%)		
			ALL GG 0 (0%)						ALL CC 11 (1.007%)		
			TG 3 (0.274%)	p=0.158 OR - 7.72 (95% CI. 0.78-75.6)					TC 137 (12.54%)		p=0.597
			PRS TT 47 (97.91%)						TT 15 (93.75%)		
			GG 0 (0%)						PRS CC 0 (0%)		
			TG 1 (2.083%)						TC 1 (6.25%)		
PDE5A	rs148360694	Allelic Frequency	T 1 (0.045%)			PDE11A	rs71423544	Allelic Frequency	A 134 (6.135%)		
			ALL C 2183 (99.95%)	p=0.028 OR - 0.01 (95% CI. 0.00-0.23)					ALL C 2050 (93.86%)		p=0.718 OR - 2.02 (95% CI. 0.27-14.9)
			PRS T 1 (3.125%)						PRS A 1 (3.125%)		
			C 31 (96.87%)						C 31 (96.87%)		
PDE5A	rs148360694	Genotype Frequency	TT 0 (0%)			PDE11A	rs71423544	Genotype Frequency	AA 6 (0.549%)		
			ALL CC 1091 (99.90%)						ALL CC 964 (88.27%)		
			TC 1 (0.091%)	p=0.028 OR - 0.01 (95% CI. 0.00-0.23)					AC 122 (11.17%)		p=0.727
			PRS TT 0 (0%)						PRS AA 0 (0%)		
			CC 15 (93.75%)						CC 15 (93.75%)		
			TC 1 (6.25%)						AC 1 (6.25%)		
PDE5A	rs17051276	Allelic Frequency	A 2122 (97.16%)			PDE11A	rs75461311	Allelic Frequency	A 2105 (96.38%)		
			ALL C 62 (2.838%)	p=0.357 OR - 1.48 (95% CI. 0.52-4.17)					ALL G 79 (3.617%)		p=0.029 OR - 3.80 (95% CI. 1.30-11.1)
			PRS A 92 (95.83%)						PRS A 28 (87.5%)		
			C 4 (4.166%)						G 4 (12.5%)		
PDE5A	rs17051276	Genotype Frequency	AA 1031 (94.41%)			PDE11A	rs75461311	Genotype Frequency	AA 1015 (92.94%)		
			ALL CC 1 (0.091%)						ALL GG 2 (0.183%)		
			AC 60 (5.494%)	p=0.704					AG 75 (6.868%)		p=0.079
			PRS AA 44 (91.66%)						PRS AA 12 (75%)		
			CC 0 (0%)						GG 0 (0%)		
			AC 4 (8.333%)						AG 4 (25%)		
PDE5A	rs3733526	Allelic Frequency	A 1769 (80.99%)			PDE11A	rs75672043	Allelic Frequency	A 156 (7.142%)		
			ALL G 415 (19.00%)	p=0.080 OR - 0.55 (95% CI. 0.29-1.04)					ALL G 2028 (92.85%)		p=1 OR - 1.15 (95% CI. 0.27- 4.87)
			PRS A 85 (88.54%)						PRS A 2 (6.25%)		
			G 11 (11.45%)						G 30 (93.75%)		
PDE5A	rs3733526	Genotype Frequency	AA 723 (66.20%)			PDE11A	rs75672043	Genotype Frequency	AA 9 (0.824%)		
			ALL GG 46 (4.212%)						ALL GG 945 (86.53%)		
			AG 323 (29.57%)	p=0.148					AG 138 (12.63%)		p=0.876
			PRS AA 38 (79.16%)						PRS AA 0 (0%)		
			GG 1 (2.083%)						GG 14 (87.5%)		
			AG 9 (18.75%)						AG 2 (12.5%)		
PDE5A	rs1045177	Allelic Frequency	A 31 (1.419%)			PDE11A	rs77597060	Allelic Frequency	T 2182 (99.90%)		
			ALL G 2153 (98.58%)	p=0.080 OR - 0.21 (95% CI. 0.04-0.94)					ALL C 2 (0.091%)		p=0.042 OR - 35.1 (95% CI. 3.10-398.)
			PRS A 2 (6.25%)						PRS T 31 (96.87%)		
			G 30 (93.75%)						C 1 (3.125%)		
PDE5A	rs1045177	Genotype Frequency	AA 1 (0.091%)			PDE11A	rs77597060	Genotype Frequency	TT 1090 (99.81%)		
			ALL GG 1062 (97.25%)						ALL CC 0 (0%)		
			AG 29 (2.655%)	p=0.206					TC 2 (0.183%)		p=0.042 OR - 36.3 (95% CI. 3.12-422.)
			PRS AA 0 (0%)						TT 15 (93.75%)		
			GG 14 (87.5%)						PRS CC 0 (0%)		
			AG 2 (12.5%)						TC 1 (6.25%)		

PDE5A	rs114886951	Allelic Frequency	ALL	A	2183 (99.95%)	p=0.005 OR - 46.4 (95% CI. 4.17-516.)	PDE11A	rs79903863	Allelic Frequency	ALL	A	1 (0.045%)	p=1.1*10 <sup>^-6</sup> OR - 0.00 (95% CI. 0.00-0.04)
				G	1 (0.045%)						C	2183 (99.95%)	
			PRS	A	94 (97.91%)						A	3 (9.375%)	
				G	2 (2.083%)						C	29 (90.62%)	
PDE5A	rs114886951	Genotype Frequency	ALL	AA	1091 (99.90%)	p=0.005 OR - 47.4 (95% CI. 4.22-532.)	PDE11A	rs79903863	Genotype Frequency	ALL	AA	0 (0%)	p=9.82 <sup>^-6</sup> OR - 0.00 (95% CI. 0.00-0.04)
				GG	0 (0%)						CC	1091 (99.90%)	
				AG	1 (0.091%)						AC	1 (0.091%)	
			PRS	AA	46 (95.83%)						AA	0 (0%)	
				GG	0 (0%)						CC	13 (81.25%)	
				AG	2 (4.166%)						AC	3 (18.75%)	
PDE5A	rs3733523	Allelic Frequency	ALL	T	651 (29.80%)	p=0.493 OR - 1.20 (95% CI. 0.75-1.91)	PDE11A	rs10201180	Allelic Frequency	ALL	T	449 (20.55%)	p=0.026 OR - 0.43 (95% CI. 0.20- 0.88)
				C	1533 (70.19%)						C	1735 (79.44%)	
			PRS	T	25 (26.04%)						T	12 (37.5%)	
				C	71 (73.95%)						C	20 (62.5%)	
PDE5A	rs3733523	Genotype Frequency	ALL	TT	98 (8.974%)	p=0.135	PDE11A	rs10201180	Genotype Frequency	ALL	TT	42 (3.846%)	p=0.086
				CC	539 (49.35%)						CC	685 (62.72%)	
				TC	455 (41.66%)						TC	365 (33.42%)	
			PRS	TT	1 (2.083%)						TT	2 (12.5%)	
				CC	24 (50%)						CC	6 (37.5%)	
				TC	23 (47.91%)						TC	8 (50%)	
PDE5A	rs3733524	Allelic Frequency	ALL	T	1602 (73.35%)	p=0.637 OR - 0.86 (95% CI. 0.53-1.39)	PDE11A	rs17400325	Allelic Frequency	ALL	T	2116 (96.88%)	p=0.268 OR - 2.07 (95% CI. 0.48- 8.85)
				C	582 (26.64%)						C	68 (3.113%)	
			PRS	T	73 (76.04%)						T	30 (93.75%)	
				C	23 (23.95%)						C	2 (6.25%)	
PDE5A	rs3733524	Genotype Frequency	ALL	TT	598 (54.76%)	p=0.178	PDE11A	rs17400325	Genotype Frequency	ALL	TT	1025 (93.86%)	p=0.630
				CC	88 (8.058%)						CC	1 (0.091%)	
				TC	406 (37.17%)						TC	66 (6.043%)	
			PRS	TT	26 (54.16%)						TT	14 (87.5%)	
				CC	1 (2.083%)						CC	0 (0%)	
				TC	21 (43.75%)						TC	2 (12.5%)	
PDE6A	rs113309832	Allelic Frequency	ALL	T	23 (1.053%)	p=0.295 OR - 0.32 (95% CI. 0.04-2.52)	PDE11A	rs75127279	Allelic Frequency	ALL	T	24 (1.098%)	p=0.029 OR - 0.26 (95% CI. 0.08- 0.76)
				C	2161 (98.94%)						C	2160 (98.90%)	
			PRS	T	1 (3.125%)						T	4 (4.081%)	
				C	31 (96.87%)						C	94 (95.91%)	
PDE6A	rs113309832	Genotype Frequency	ALL	TT	2 (0.183%)	p=0.555	PDE11A	rs75127279	Genotype Frequency	ALL	TT	0 (0%)	p=0.030
				CC	1071 (98.07%)						CC	1068 (97.80%)	
				TC	19 (1.739%)						TC	24 (2.197%)	
			PRS	TT	0 (0%)						TT	1 (2.040%)	
				CC	15 (93.75%)						CC	46 (93.87%)	
				TC	1 (6.25%)						TC	2 (4.081%)	

B) Patient comparison with Eurpean 1000 Genome Project data (379 individuals)							Nuc = nucleotide for the position. p-value calculated with Fisher Exact Test						
Gene	RS	Type	Pop	Nuc	N	Significance	Gene	RS	Type	Pop	Nuc	N	Significance
PDE1A	rs3754929	Allelic Frequency	EUR	A	482 (63.58%)	p=0.446 OR - 1.32 (95% CI. 0.64-2.72)	PDE6A	rs2277925	Allelic Frequency	EUR	T	632 (83.37%)	p=0.806 OR - 0.71 (95% CI. 0.24-2.07)
				G	276 (36.41%)						G	126 (16.62%)	
			PRS	A	20 (62.5%)					T	28 (87.5%)		
				G	12 (37.5%)					G	4 (12.5%)		
PDE1A	rs3754929	Genotype Frequency	EUR	AA	157 (41.42%)	p=0.314	PDE6A	rs2277925	Genotype Frequency	EUR	TT	266 (70.18%)	p=0.378
				GG	54 (14.24%)						GG	13 (3.430%)	
				AG	168 (44.32%)						TG	100 (26.38%)	
			PRS	AA	5 (31.25%)					TT	13 (81.25%)		
				GG	1 (6.25%)					GG	1 (6.25%)		
				AG	10 (62.5%)					TG	2 (12.5%)		
PDE1A	rs67483153	Allelic Frequency	EUR	A	42 (5.540%)	p=0.697 OR - 0.87 (95% CI. 0.20-3.80)	PDE6A	rs2277926	Allelic Frequency	EUR	A	126 (16.62%)	p=0.338 OR - 1.92 (95% CI. 0.57-6.42)
				G	716 (94.45%)						G	632 (83.37%)	
			PRS	A	2 (6.25%)					A	3 (9.375%)		
				G	30 (93.75%)					G	29 (90.62%)		
PDE1A	rs67483153	Genotype Frequency	EUR	AA	1 (0.263%)	p=0.932	PDE6A	rs2277926	Genotype Frequency	EUR	AA	13 (3.430%)	p=0.113
				GG	338 (89.18%)						GG	266 (70.18%)	
				AG	40 (10.55%)						AG	100 (26.38%)	
			PRS	AA	0 (0%)					AA	1 (6.25%)		
				GG	14 (87.5%)					GG	14 (87.5%)		
				AG	2 (12.5%)					AG	1 (6.25%)		
PDE1B	rs1249950	Allelic Frequency	EUR	T	402 (53.03%)	p=0.856 OR - 0.87 (95% CI. 0.20-3.80)	PDE6A	rs75282782	Allelic Frequency	EUR	G	751 (99.07%)	p=0.282 OR - 3.46 (95% CI. 0.41-29.0)
				C	356 (46.96%)						C	7 (0.923%)	
			PRS	T	16 (50%)					G	31 (96.87%)		
				C	16 (50%)					C	1 (3.125%)		
PDE1B	rs1249950	Genotype Frequency	EUR	TT	113 (29.81%)	p=0.015	PDE6A	rs75282782	Genotype Frequency	EUR	GG	372 (98.15%)	p=0.283 OR - 3.54 (95% CI. 0.40-30.6)
				CC	90 (23.74%)						CC	0 (0%)	
				TC	176 (46.43%)						GC	7 (1.846%)	
			PRS	TT	7 (43.75%)					GG	15 (93.75%)		
				CC	7 (43.75%)					CC	0 (0%)		
				TC	2 (12.5%)					GC	1 (6.25%)		
PDE1C	rs113385926	Allelic Frequency	EUR	T	723 (95.38%)	p=1 OR - 0.66 (95% CI. 0.08-5.02)	PDE6A	rs76082232	Allelic Frequency	EUR	T	731 (96.43%)	p=0.330 OR - 1.80 (95% CI. 0.41-7.94)
				C	35 (4.617%)						C	27 (3.562%)	
			PRS	T	31 (96.87%)					T	30 (93.75%)		
				C	1 (3.125%)					C	2 (6.25%)		
PDE1C	rs113385926	Genotype Frequency	EUR	TT	346 (91.29%)	p=0.881	PDE6A	rs76082232	Genotype Frequency	EUR	TT	352 (92.87%)	p=0.331 OR - 1.86 (95% CI. 0.40-8.62)
				CC	2 (0.527%)						CC	0 (0%)	
				TC	31 (8.179%)						TC	27 (7.124%)	
			PRS	TT	15 (93.75%)					TT	14 (87.5%)		
				CC	0 (0%)					CC	0 (0%)		
				TC	1 (6.25%)					TC	2 (12.5%)		
PDE1C	rs115957738	Allelic Frequency	EUR	A	0 (0%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)	PDE6B	rs115775983	Allelic Frequency	EUR	A	11 (1.451%)	p=0.093 OR - 0.22 (95% CI. 0.04-1.04)
				G	758 (100%)						G	747 (98.54%)	
			PRS	A	1 (3.125%)					A	2 (6.25%)		

G 31  
(96.87%)

G 30  
(93.75%)

PDE1C	rs115957738	Genotype Frequency	AA	0 (0%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)	PDE6B	rs115775983	Genotype Frequency	AA	0 (0%)	p=0.092 OR - 0.20 (95% CI. 0.04-1.03)
		EUR	GG	379 (100%)				EUR	GG	368 (97.09%)	
			AG	0 (0%)					AG	11 (2.902%)	
		PRS	GG	15 (93.75%)				PRS	GG	14 (87.5%)	
			AG	1 (6.25%)					AG	2 (12.5%)	
PDE1C	rs116449276	Allelic Frequency	T	0 (0%)	p=0.001 OR - 1.06 (95% CI. 0.97-1.16)	PDE6B	rs147482093	Allelic Frequency	A	4 (0.527%)	p=0.187 OR - 0.16 (95% CI. 0.01-1.51)
		EUR	C	758 (100%)				EUR	G	754 (99.47%)	
		PRS	T	2 (6.25%)				PRS	A	1 (3.125%)	
			C	30 (93.75%)					G	31 (96.87%)	
PDE1C	rs116449276	Genotype Frequency	TT	0 (0%)	p=0.001 OR - 1.14 (95% CI. 0.94-1.37)	PDE6B	rs147482093	Genotype Frequency	AA	0 (0%)	p=0.187 OR - 0.16 (95% CI. 0.01-1.51)
		EUR	CC	379 (100%)				EUR	GG	375 (98.94%)	
			TC	0 (0%)					AG	4 (1.055%)	
		PRS	CC	14 (87.5%)				PRS	AA	0 (0%)	
			TC	2 (12.5%)					GG	15 (93.75%)	
								AG	1 (6.25%)		
PDE1C	rs117088924	Allelic Frequency	A	741 (97.75%)	p=0.528 OR - 1.40 (95% CI. 0.18-10.9)	PDE6B	rs61734864	Allelic Frequency	A	758 (100%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)
		EUR	T	17 (2.242%)				EUR	G	0 (0%)	
		PRS	A	31 (96.87%)				PRS	A	31 (96.87%)	
			T	1 (3.125%)					G	1 (3.125%)	
PDE1C	rs117088924	Genotype Frequency	AA	362 (95.51%)	p=0.532 OR - 1.41 (95% CI. 0.17-11.3)	PDE6B	rs61734864	Genotype Frequency	AA	379 (100%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)
		EUR	TT	0 (0%)				EUR	GG	0 (0%)	
			AT	17 (4.485%)					AG	0 (0%)	
		PRS	AA	15 (93.75%)				PRS	AA	15 (93.75%)	
			TT	0 (0%)					GG	0 (0%)	
			AT	1 (6.25%)				AG	1 (6.25%)		
PDE1C	rs1860790	Allelic Frequency	A	739 (97.49%)	p=0.567 OR - 1.25 (95% CI. 0.16-9.67)	PDE6B	rs61760239	Allelic Frequency	A	21 (2.770%)	p=0.068 OR - 0.27 (95% CI. 0.07-0.97)
		EUR	G	19 (2.506%)				EUR	C	737 (97.22%)	
		PRS	A	31 (96.87%)				PRS	A	3 (9.375%)	
			G	1 (3.125%)					C	29 (90.62%)	
PDE1C	rs1860790	Genotype Frequency	AA	361 (95.25%)	p=0.913	PDE6B	rs61760239	Genotype Frequency	AA	0 (0%)	p=0.065 OR - 0.25 (95% CI. 0.06-0.96)
		EUR	GG	1 (0.263%)				EUR	CC	358 (94.45%)	
			AG	17 (4.485%)					AC	21 (5.540%)	
		PRS	AA	15 (93.75%)				PRS	AA	0 (0%)	
			GG	0 (0%)					CC	13 (81.25%)	
			AG	1 (6.25%)				AC	3 (18.75%)		
PDE1C	rs2302450	Allelic Frequency	A	194 (25.59%)	p=0.835 OR - 1.22 (95% CI. 0.52-2.88)	PDE6B	rs73058408	Allelic Frequency	A	0 (0%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)
		EUR	G	564 (74.40%)				EUR	G	758 (100%)	
		PRS	A	7 (21.87%)				PRS	A	1 (3.125%)	
			G	25 (78.12%)					G	31 (96.87%)	
PDE1C	rs2302450	Genotype Frequency	AA	28 (7.387%)	p=0.282	PDE6B	rs73058408	Genotype Frequency	AA	0 (0%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)
		EUR	GG	213 (56.20%)				EUR	GG	379 (100%)	
			AG	138 (36.41%)					AG	0 (0%)	
		PRS	AA	0 (0%)				PRS	AA	0 (0%)	
			GG	9 (56.25%)					GG	15 (93.75%)	
			AG	7 (43.75%)				AG	1 (6.25%)		



PDE1C	rs3213709	Allelic Frequency	EUR	A	594 (78.36%)	p=0.828 OR - 0.83 (95% CI. 0.33-2.06)	PDE6C	rs11187564	Allelic Frequency	EUR	T	55 (7.255%)	p=0.720 OR - 2.42 (95% CI. 0.32-18.1)	
				G	164 (21.63%)						C	703 (92.74%)		
			PRS	A	26 (81.25%)						PRS	T		1 (3.125%)
				G	6 (18.75%)							C		31 (96.87%)
PDE1C	rs3213709	Genotype Frequency	EUR	AA	235 (62.00%)	p=0.415	PDE6C	rs11187564	Genotype Frequency	EUR	TT	4 (1.055%)	p=0.607	
				GG	20 (5.277%)						CC	328 (86.54%)		
				AG	124 (32.71%)						TC	47 (12.40%)		
			PRS	AA	10 (62.5%)						PRS	CC		15 (93.75%)
				GG	0 (0%)						TC	1 (6.25%)		
				AG	6 (37.5%)									
PDE1C	rs61729940	Allelic Frequency	EUR	A	91 (12.00%)	p=0.571 OR - 2.04 (95% CI. 0.48-8.70)	PDE6C	rs1409332	Allelic Frequency	EUR	A	399 (52.63%)	p=0.589 OR - 1.25 (95% CI. 0.62-2.55)	
				G	667 (87.99%)						C	359 (47.36%)		
			PRS	A	2 (6.25%)						PRS	A		15 (46.87%)
				G	30 (93.75%)							C		17 (53.12%)
PDE1C	rs61729940	Genotype Frequency	EUR	AA	9 (2.374%)	p=0.516	PDE6C	rs1409332	Genotype Frequency	EUR	AA	114 (30.07%)	p=0.825	
				GG	297 (78.36%)						CC	94 (24.80%)		
				AG	73 (19.26%)						AC	171 (45.11%)		
			PRS	AA	0 (0%)						PRS	AA		4 (25%)
				GG	14 (87.5%)						CC	5 (31.25%)		
				AG	2 (12.5%)						AC	7 (43.75%)		
PDE1C	rs61736729	Allelic Frequency	EUR	G	4 (0.527%)	p=0.187 OR - 0.16 (95% CI. 0.01-1.51)	PDE6C	rs182445749	Allelic Frequency	EUR	A	756 (99.73%)	p=0.116 OR - 12.1 (95% CI. 1.07-138.)	
				C	754 (99.47%)						G	2 (0.263%)		
			PRS	G	1 (3.125%)						PRS	A		31 (96.87%)
				C	31 (96.87%)							G		1 (3.125%)
PDE1C	rs61736729	Genotype Frequency	EUR	GG	0 (0%)	p=0.187 OR - 0.16 (95% CI. 0.01-1.51)	PDE6C	rs182445749	Genotype Frequency	EUR	AA	377 (99.47%)	p=0.116 OR - 12.5 (95% CI. 1.07-146.)	
				CC	375 (98.94%)						GG	0 (0%)		
				GC	4 (1.055%)						AG	2 (0.527%)		
			PRS	GG	0 (0%)						PRS	AA		15 (93.75%)
				CC	15 (93.75%)						GG	0 (0%)		
				GC	1 (6.25%)						AG	1 (6.25%)		
PDE1C	rs61745829	Allelic Frequency	EUR	T	750 (98.94%)	p=0.312 OR - 3.02 (95% CI. 0.36-24.9)	PDE6C	rs193276411	Allelic Frequency	EUR	A	0 (0%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)	
				C	8 (1.055%)						G	758 (100%)		
			PRS	T	31 (96.87%)						PRS	A		1 (3.125%)
				C	1 (3.125%)							G		31 (96.87%)
PDE1C	rs61745829	Genotype Frequency	EUR	TT	371 (97.88%)	p=0.313 OR - 3.09 (95% CI. 0.36-26.3)	PDE6C	rs193276411	Genotype Frequency	EUR	AA	0 (0%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)	
				CC	0 (0%)						GG	379 (100%)		
				TC	8 (2.110%)						AG	0 (0%)		
			PRS	TT	15 (93.75%)						PRS	AA		0 (0%)
				CC	0 (0%)						GG	15 (93.75%)		
				TC	1 (6.25%)						AG	1 (6.25%)		
PDE1C	rs73690312	Allelic Frequency	EUR	A	752 (99.20%)	p=0.252 OR - 4.04 (95% CI. 0.47-34.6)	PDE6C	rs3737228	Allelic Frequency	EUR	G	222 (29.28%)	p=0.171 OR - 0.60 (95% CI. 0.29-1.24)	
				G	6 (0.791%)						C	536 (70.71%)		
			PRS	A	31 (96.87%)						PRS	G		13 (40.62%)
				G	1 (3.125%)							C		19 (59.37%)

PDE1C	rs73690312	Genotype Frequency	EUR	AA	373 (98.41%)		PDE6C	rs3737228	Genotype Frequency	EUR	GG	38 (10.02%)	
				GG	0 (0%)	p=0.253 OR - 4.14 (95% CI. 0.46-36.6)					CC	195 (51.45%)	p=0.435
				AG	6 (1.583%)						GC	146 (38.52%)	
			PRS	AA	15 (93.75%)						GG	3 (18.75%)	
				GG	0 (0%)					PRS	CC	6 (37.5%)	
				AG	1 (6.25%)						GC	7 (43.75%)	
PDE1C	rs76290787	Allelic Frequency	EUR	A	0 (0%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)	PDE6C	rs45522236	Allelic Frequency	EUR	T	6 (0.791%)	p=0.252 OR - 0.24 (95% CI. 0.02-2.11)
				G	758 (100%)						G	752 (99.20%)	
			PRS	A	1 (3.125%)						T	1 (3.125%)	
				G	31 (96.87%)					PRS	G	31 (96.87%)	
PDE1C	rs76290787	Genotype Frequency	EUR	AA	0 (0%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)	PDE6C	rs45522236	Genotype Frequency	EUR	TT	0 (0%)	p=0.253 OR - 0.24 (95% CI. 0.02-2.13)
				GG	379 (100%)						GG	373 (98.41%)	
				AG	0 (0%)						TG	6 (1.583%)	
			PRS	AA	0 (0%)					PRS	GG	15 (93.75%)	
				GG	15 (93.75%)						TG	1 (6.25%)	
				AG	1 (6.25%)								
PDE1C	rs78021925	Allelic Frequency	EUR	A	758 (100%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)	PDE6C	rs616522	Allelic Frequency	EUR	A	199 (26.25%)	p=0.541 OR - 0.78 (95% CI. 0.36-1.68)
				T	0 (0%)						G	559 (73.74%)	
			PRS	A	31 (96.87%)						A	10 (31.25%)	
				T	1 (3.125%)					PRS	G	22 (68.75%)	
PDE1C	rs78021925	Genotype Frequency	EUR	AA	379 (100%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)	PDE6C	rs616522	Genotype Frequency	EUR	AA	32 (8.443%)	p=0.515
				TT	0 (0%)						GG	212 (55.93%)	
				AT	0 (0%)						AG	135 (35.62%)	
			PRS	AA	15 (93.75%)					PRS	AA	1 (6.25%)	
				TT	0 (0%)						GG	7 (43.75%)	
				AT	1 (6.25%)						AG	8 (50%)	
PDE2A	rs1135029	Allelic Frequency	EUR	T	366 (48.28%)	p=0.718 OR - 0.82 (95% CI. 0.40-1.67)	PDE6C	rs701865	Allelic Frequency	EUR	A	270 (35.62%)	p=0.131 OR - 0.55 (95% CI. 0.27-1.12)
				C	392 (51.71%)						T	488 (64.37%)	
			PRS	T	17 (53.12%)						A	16 (50%)	
				C	15 (46.87%)					PRS	T	16 (50%)	
PDE2A	rs1135029	Genotype Frequency	EUR	TT	90 (23.74%)	p=0.734	PDE6C	rs701865	Genotype Frequency	EUR	AA	59 (15.56%)	p=0.268
				CC	103 (27.17%)						TT	168 (44.32%)	
				TC	186 (49.07%)						AT	152 (40.10%)	
			PRS	TT	4 (25%)					PRS	AA	4 (25%)	
				CC	3 (18.75%)						TT	4 (25%)	
				TC	9 (56.25%)						AT	8 (50%)	
PDE2A	rs11824084	Allelic Frequency	EUR	G	0 (0%)	p=0.001 OR - 1.06 (95% CI. 0.97-1.16)	PDE6C	rs714550	Allelic Frequency	EUR	A	259 (34.16%)	p=0.452 OR - 0.75 (95% CI. 0.36-1.56)
				C	758 (100%)						G	499 (65.83%)	
			PRS	G	2 (6.25%)						A	13 (40.62%)	
				C	30 (93.75%)					PRS	G	19 (59.37%)	
PDE2A	rs11824084	Genotype Frequency	EUR	GG	0 (0%)	p=0.001 OR - 1.14 (95% CI. 0.94-1.37)	PDE6C	rs714550	Genotype Frequency	EUR	AA	54 (14.24%)	p=0.071
				CC	379 (100%)						GG	174 (45.91%)	
				GC	0 (0%)						AG	151 (39.84%)	
			PRS	GG	0 (0%)					PRS	AA	1 (6.25%)	
				CC	14 (87.5%)						GG	4 (25%)	
				GC	2 (12.5%)						AG	11 (68.75%)	

PDE2A	rs1980091	Allelic Frequency	EUR	A 239 (31.53%) G 519 (68.46%)	p=0.560 OR -1.38 (95% CI. 0.61- 3.12)	PDE6C	rs76999928	Allelic Frequency	EUR	T 758 (100%) G 0 (0%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)
			PRS	A 8 (25%) G 24 (75%)					PRS	T 31 (96.87%) G 1 (3.125%)	
PDE2A	rs1980091	Genotype Frequency	EUR	AA 39 (10.29%) GG 179 (47.22%) AG 161 (42.48%)	p=0.730	PDE6C	rs76999928	Genotype Frequency	EUR	TT 379 (100%) GG 0 (0%) TG 0 (0%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)
			PRS	AA 1 (6.25%) GG 9 (56.25%) AG 6 (37.5%)					PRS	TT 15 (93.75%) GG 0 (0%) TG 1 (6.25%)	
PDE2A	rs392818	Allelic Frequency	EUR	A 0 (0%) G 758 (100%)	p=0.040 OR -1.03 (95% CI. 0.96- 1.09)	PDE7A	rs11557049	Allelic Frequency	EUR	T 53 (6.992%) C 705 (93.00%)	p=0.489 OR - 0.72 (95% CI. 0.21-2.46)
			PRS	A 1 (3.125%) G 31 (96.87%)					PRS	T 3 (9.375%) C 29 (90.62%)	
PDE2A	rs392818	Genotype Frequency	EUR	AA 0 (0%) GG 379 (100%) AG 0 (0%)	p=0.040 OR -1.06 (95% CI. 0.93- 1.21)	PDE7A	rs11557049	Genotype Frequency	EUR	TT 4 (1.055%) CC 330 (87.07%) TC 45 (11.87%)	p=0.635
			PRS	AA 0 (0%) GG 15 (93.75%) AG 1 (6.25%)					PRS	TT 0 (0%) CC 13 (81.25%) TC 3 (18.75%)	
PDE2A	rs4944557	Allelic Frequency	EUR	A 0 (0%) G 758 (100%)	p=0.001 OR -1.06 (95% CI. 0.97- 1.16)	PDE8A	rs11073917	Allelic Frequency	EUR	T 89 (11.74%) G 669 (88.25%)	p=0.783 OR - 0.93 (95% CI. 0.31-2.71)
			PRS	A 2 (6.25%) G 30 (93.75%)					PRS	T 4 (12.5%) G 28 (87.5%)	
PDE2A	rs4944557	Genotype Frequency	EUR	AA 0 (0%) GG 379 (100%) AG 0 (0%)	p=0.001 OR -1.14 (95% CI. 0.94- 1.37)	PDE8A	rs11073917	Genotype Frequency	EUR	TT 10 (2.638%) GG 300 (79.15%) TG 69 (18.20%)	p=0.546
			PRS	AA 0 (0%) GG 14 (87.5%) AG 2 (12.5%)					PRS	TT 0 (0%) GG 12 (75%) TG 4 (25%)	
PDE2A	rs577536	Allelic Frequency	EUR	T 0 (0%) C 758 (100%)	p=6.1*10 <sup>-5</sup> OR - 1.10 (95% CI. 0.98-1.23)	PDE8A	rs148254104	Allelic Frequency	EUR	T 2 (0.023%) C 8596 (99.97%)	p=0.011 OR - 0.00 (95% CI. 0.00-0.08)
			PRS	T 3 (9.375%) C 29 (90.62%)					PRS	T 1 (3.125%) C 31 (96.87%)	
PDE2A	rs577536	Genotype Frequency	EUR	TT 0 (0%) CC 379 (100%) TC 0 (0%)	p=0.001	PDE8A	rs148254104	Genotype Frequency	EUR	TT 0 (0%) CC 4297 (99.95%) TC 2 (0.046%)	p=0.011 OR - 0.00 (95% CI. 0.00-0.08)
			PRS	TT 1 (6.25%) CC 14 (87.5%) TC 1 (6.25%)					PRS	TT 0 (0%) CC 15 (93.75%) TC 1 (6.25%)	
PDE3A	rs10743380	Allelic Frequency	EUR	T 714 (94.19%) C 44 (5.804%)	p=1 OR - 0.52 (95% CI. 0.06- 3.92)	PDE8A	rs16974908	Allelic Frequency	EUR	T 10 (1.319%) C 748 (98.68%)	p=0.367 OR - 0.41 (95% CI. 0.05-3.33)
			PRS	T 31 (96.87%) C 1 (3.125%)					PRS	T 1 (3.125%) C 31 (96.87%)	

PDE3A	rs10743380	Genotype Frequency	TT 336 (88.65%) EUR CC 1 (0.263%) TC 42 (11.08%) TT 15 (93.75%) PRS CC 0 (0%) TC 1 (6.25%)	p=0.773	PDE8A	rs16974908	Genotype Frequency	TT 0 (0%) EUR CC 369 (97.36%) TC 10 (2.638%) TT 0 (0%) PRS CC 15 (93.75%) TC 1 (6.25%)	p=0.369 OR - 0.40 (95% CI. 0.04-3.38)
PDE3A	rs10743384	Allelic Frequency	T 277 (36.54%) EUR C 481 (63.45%) T 16 (50%) PRS C 16 (50%)	p=0.136 OR - 0.57 (95% CI. 0.28-1.16)	PDE8A	rs35666574	Allelic Frequency	T 29 (3.825%) EUR C 729 (96.17%) T 1 (3.125%) PRS C 31 (96.87%)	p=1 OR - 1.23 (95% CI. 0.16- 9.34)
PDE3A	rs10743384	Genotype Frequency	TT 50 (13.19%) EUR CC 152 (40.10%) TC 177 (46.70%) TT 2 (12.5%) PRS CC 2 (12.5%) TC 12 (75%)	p=0.043	PDE8A	rs35666574	Genotype Frequency	TT 0 (0%) EUR CC 350 (92.34%) TC 29 (7.651%) TT 0 (0%) PRS CC 15 (93.75%) TC 1 (6.25%)	p=1 OR - 1.24 (95% CI. 0.15- 9.74)
PDE3A	rs117453345	Allelic Frequency	T 36 (4.749%) EUR C 722 (95.25%) T 1 (3.125%) PRS C 31 (96.87%)	p=1 OR - 1.54 (95% CI. 0.20- 11.6)	PDE8B	rs115599001	Allelic Frequency	A 10 (1.319%) EUR G 748 (98.68%) A 2 (6.25%) PRS G 30 (93.75%)	p=0.081 OR - 0.20 (95% CI. 0.04-0.95)
PDE3A	rs117453345	Genotype Frequency	TT 1 (0.263%) EUR CC 344 (90.76%) TC 34 (8.970%) TT 0 (0%) PRS CC 15 (93.75%) TC 1 (6.25%)	p=0.886	PDE8B	rs115599001	Genotype Frequency	AA 0 (0%) EUR GG 369 (97.36%) AG 10 (2.638%) AA 0 (0%) PRS GG 14 (87.5%) AG 2 (12.5%)	p=0.080 OR - 0.18 (95% CI. 0.03-0.94)
PDE3A	rs71539448	Allelic Frequency	A 54 (7.124%) EUR G 704 (92.87%) A 2 (6.25%) PRS G 30 (93.75%)	p=1 OR - 1.15 (95% CI. 0.26- 4.94)	PDE8B	rs182775622	Allelic Frequency	A 0 (0%) EUR G 758 (100%) A 1 (3.125%) PRS G 31 (96.87%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)
PDE3A	rs71539448	Genotype Frequency	AA 2 (0.527%) EUR GG 327 (86.27%) AG 50 (13.19%) AA 0 (0%) PRS GG 14 (87.5%) AG 2 (12.5%)	p=0.916	PDE8B	rs182775622	Genotype Frequency	AA 0 (0%) EUR GG 379 (100%) AG 0 (0%) AA 0 (0%) PRS GG 15 (93.75%) AG 1 (6.25%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)
PDE3A	rs78782960	Allelic Frequency	A 84 (11.08%) EUR G 674 (88.91%) A 3 (9.375%) PRS G 29 (90.62%)	p=1 OR - 1.20 (95% CI. 0.35- 4.04)	PDE8B	rs186753	Allelic Frequency	T 0 (0%) EUR C 758 (100%) T 0 (0%) PRS C 32 (100%)	p=
PDE3A	rs78782960	Genotype Frequency	AA 4 (1.055%) EUR GG 299 (78.89%) AG 76 (20.05%) AA 0 (0%) PRS GG 13 (81.25%) AG 3 (18.75%)	p=0.837	PDE8B	rs186753	Genotype Frequency	TT 0 (0%) EUR CC 379 (100%) TC 0 (0%) TT 0 (0%) PRS CC 16 (100%) TC 0 (0%)	p=

PDE3B	rs1247719	Allelic Frequency	EUR	T	0 (0%)	p=	PDE8B	rs335614	Allelic Frequency	EUR	A	253 (33.37%)	p=0.442 OR - 1.50 (95% CI. 0.66-3.39)	
				C	758 (100%)						G	505 (66.62%)		
			PRS	T	0 (0%)						A	8 (25%)		
				C	32 (100%)						G	24 (75%)		
PDE3B	rs1247719	Genotype Frequency	EUR	TT	0 (0%)	p=	PDE8B	rs335614	Genotype Frequency	EUR	AA	37 (9.762%)	p=0.196	
				CC	379 (100%)						GG	163 (43.00%)		
			PRS	TT	0 (0%)						AG	179 (47.22%)		
				CC	16 (100%)						AA	0 (0%)		
				TC	0 (0%)					GG	8 (50%)			
				TC	0 (0%)					AG	8 (50%)			
PDE3B	rs1247720	Allelic Frequency	EUR	T	0 (0%)	p=	PDE8B	rs40594	Allelic Frequency	EUR	A	362 (47.75%)	p=0.473 OR - 1.33 (95% CI. 0.65-2.74)	
				C	758 (100%)						G	396 (52.24%)		
			PRS	T	0 (0%)						A	13 (40.62%)		
				C	32 (100%)						G	19 (59.37%)		
PDE3B	rs1247720	Genotype Frequency	EUR	TT	0 (0%)	p=	PDE8B	rs40594	Genotype Frequency	EUR	AA	88 (23.21%)	p=0.305	
				CC	379 (100%)						GG	105 (27.70%)		
			PRS	TT	0 (0%)						AG	186 (49.07%)		
				CC	16 (100%)						AA	4 (25%)		
				TC	0 (0%)					GG	7 (43.75%)			
				TC	0 (0%)					AG	5 (31.25%)			
PDE3B	rs4757268	Allelic Frequency	EUR	A	307 (40.50%)	p=1 OR - 0.99 (95% CI. 0.48-2.04)	PDE8B	rs62362531	Allelic Frequency	EUR	T	133 (17.54%)	p=0.337 OR - 2.05 (95% CI. 0.61-6.85)	
				G	451 (59.49%)						C	625 (82.45%)		
			PRS	A	13 (40.62%)						T	3 (9.375%)		
				G	19 (59.37%)						C	29 (90.62%)		
PDE3B	rs4757268	Genotype Frequency	EUR	AA	59 (15.56%)	p=0.882	PDE8B	rs62362531	Genotype Frequency	EUR	TT	10 (2.638%)	p=0.375	
				GG	131 (34.56%)						CC	256 (67.54%)		
			PRS	AA	3 (18.75%)						TC	113 (29.81%)		
				GG	6 (37.5%)						TT	0 (0%)		
				AG	7 (43.75%)					CC	13 (81.25%)			
				AG	7 (43.75%)					TC	3 (18.75%)			
PDE4A	rs1051738	Allelic Frequency	EUR	A	123 (16.22%)	p=0.457 OR - 1.87 (95% CI. 0.56-6.24)	PDE9A	rs1045382	Allelic Frequency	EUR	T	492 (64.90%)	p=0.455 OR - 0.72 (95% CI. 0.33-1.58)	
				C	635 (83.77%)						C	266 (35.09%)		
			PRS	A	3 (9.375%)						T	23 (71.87%)		
				C	29 (90.62%)						C	9 (28.12%)		
PDE4A	rs1051738	Genotype Frequency	EUR	AA	10 (2.638%)	p=0.464	PDE9A	rs1045382	Genotype Frequency	EUR	TT	158 (41.68%)	p=0.683	
				CC	266 (70.18%)						CC	45 (11.87%)		
			PRS	AA	0 (0%)						TC	176 (46.43%)		
				CC	13 (81.25%)						TT	8 (50%)		
				AC	3 (18.75%)					CC	1 (6.25%)			
				AC	3 (18.75%)					TC	7 (43.75%)			
PDE4A	rs138164292	Allelic Frequency	EUR	T	3 (2.205%)	p=0.241 OR - 0.33 (95% CI. 0.05-2.11)	PDE9A	rs13047953	Allelic Frequency	EUR	T	357 (47.09%)	p=0.102 OR - 1.95 (95% CI. 0.91-4.19)	
				C	133 (97.79%)						C	401 (52.90%)		
			PRS	T	2 (6.25%)						T	10 (31.25%)		
				C	30 (93.75%)						C	22 (68.75%)		

PDE4A	rs138164292	Genotype Frequency	TT	1 (1.470%)	p=0.495	PDE9A	rs13047953	Genotype Frequency	TT	79 (20.84%)	p=0.037		
			EUR	CC		66 (97.05%)				EUR		CC	101 (26.64%)
				TC		1 (1.470%)						TC	199 (52.50%)
				TT		1 (6.25%)						TT	3 (18.75%)
			PRS	CC		15 (93.75%)				PRS		CC	9 (56.25%)
				TC		0 (0%)						TC	4 (25%)
PDE4A	rs141286487	Allelic Frequency	T	6 (0.791%)	p=0.252 OR - 0.24 (95% CI. 0.02-2.11)	PDE9A	rs2269153	Allelic Frequency	A	244 (32.18%)	p=0.847 OR - 0.90 (95% CI. 0.43-1.90)		
			EUR	C		752 (99.20%)				EUR		G	514 (67.81%)
				T		1 (3.125%)				PRS		A	11 (34.37%)
			PRS	C		31 (96.87%)						G	21 (65.62%)
PDE4A	rs141286487	Genotype Frequency	TT	0 (0%)	p=0.253 OR - 0.24 (95% CI. 0.02-2.13)	PDE9A	rs2269153	Genotype Frequency	AA	43 (11.34%)	p=0.966		
			EUR	CC		373 (98.41%)				EUR		GG	178 (46.96%)
				TC		6 (1.583%)						AG	158 (41.68%)
				TT		0 (0%)				AA		2 (12.5%)	
			PRS	CC		15 (93.75%)				PRS		GG	7 (43.75%)
				TC		1 (6.25%)						AG	7 (43.75%)
PDE4A	rs74453701	Allelic Frequency	G	712 (93.93%)	p=1 OR - 1.03 (95% CI. 0.23-4.45)	PDE9A	rs3087994	Allelic Frequency	A	492 (64.90%)	p=0.455 OR - 0.72 (95% CI. 0.33-1.58)		
			EUR	C		46 (6.068%)				EUR		C	266 (35.09%)
				G		30 (93.75%)				PRS		A	23 (71.87%)
			PRS	C		2 (6.25%)						C	9 (28.12%)
PDE4A	rs74453701	Genotype Frequency	GG	334 (88.12%)	p=0.954	PDE9A	rs3087994	Genotype Frequency	AA	158 (41.68%)	p=0.683		
			EUR	CC		1 (0.263%)				EUR		CC	45 (11.87%)
				GC		44 (11.60%)						AC	176 (46.43%)
				GG		14 (87.5%)				AA		8 (50%)	
			PRS	CC		0 (0%)				PRS		CC	1 (6.25%)
				GC		2 (12.5%)						AC	7 (43.75%)
PDE4B	rs114408173	Allelic Frequency	A	0 (0%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)	PDE9A	rs71320554	Allelic Frequency	T	28 (3.693%)	p=1 OR - 1.18 (95% CI. 0.15-9.02)		
			EUR	G		758 (100%)				EUR		C	730 (96.30%)
				A		1 (3.125%)				PRS		T	1 (3.125%)
			PRS	G		31 (96.87%)						C	31 (96.87%)
PDE4B	rs114408173	Genotype Frequency	AA	0 (0%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)	PDE9A	rs71320554	Genotype Frequency	TT	0 (0%)	p=1 OR - 1.19 (95% CI. 0.15-9.39)		
			EUR	GG		379 (100%)				EUR		CC	351 (92.61%)
				AG		0 (0%)						TC	28 (7.387%)
				AA		0 (0%)				TT		0 (0%)	
			PRS	GG		15 (93.75%)				PRS		CC	15 (93.75%)
				AG		1 (6.25%)						TC	1 (6.25%)
PDE4B	rs200851592	Allelic Frequency	G	0 (?)	p=	PDE10A	rs220740	Allelic Frequency	T	181 (23.87%)	p=0.397 OR - 0.69 (95% CI. 0.32-1.48)		
			EUR	C		0 (?)				EUR		C	577 (76.12%)
				G		16 (50%)				PRS		T	10 (31.25%)
			PRS	C		16 (50%)						C	22 (68.75%)
PDE4B	rs200851592	Genotype Frequency	GG	??? (?)	p=	PDE10A	rs220740	Genotype Frequency	TT	15 (3.957%)	p=0.135		
			EUR	CC		??? (?)				EUR		CC	213 (56.20%)
				GC		??? (?)						TC	151 (39.84%)
				GG		1 (6.25%)				TT		0 (0%)	
			PRS	CC		1 (6.25%)				PRS		CC	6 (37.5%)
				GC		14 (87.5%)						TC	10 (62.5%)

PDE4B	rs34492439	Allelic Frequency	EUR	T C	8600 (100%) 0 (0%)	p=0.003 OR - 1.03 (95% CI. 0.96-1.09)	PDE10A	rs73022128	Allelic Frequency	EUR	T C	679 (89.57%) 79 (10.42%)	p=1 OR - 0.88 (95% CI. 0.26- 2.98)
			PRS	T C	31 (96.87%) 1 (3.125%)					PRS	T C	29 (90.62%) 3 (9.375%)	
PDE4B	rs34492439	Genotype Frequency	EUR	TT CC TC	4300 (100%) 0 (0%) 0 (0%)	p=0.003 OR - 1.06 (95% CI. 0.93-1.21)	PDE10A	rs73022128	Genotype Frequency	EUR	TT CC TC	304 (80.21%) 4 (1.055%) 71 (18.73%)	p=0.846
			PRS	TT CC TC	15 (93.75%) 0 (0%) 1 (6.25%)					PRS	TT CC TC	13 (81.25%) 0 (0%) 3 (18.75%)	
PDE4B	rs7534999	Allelic Frequency	EUR	T C	0 (0%) 758 (100%)	p=0.040 OR - 1.03 (95% CI. 0.96-1.09)	PDE10A	rs77122094	Allelic Frequency	EUR	A T	11 (1.451%) 747 (98.54%)	p=0.093 OR - 0.22 (95% CI. 0.04-1.04)
			PRS	T C	1 (3.125%) 31 (96.87%)					PRS	A T	2 (6.25%) 30 (93.75%)	
PDE4B	rs7534999	Genotype Frequency	EUR	TT CC TC	0 (0%) 379 (100%) 0 (0%)	p=0.040 OR - 1.06 (95% CI. 0.93-1.21)	PDE10A	rs77122094	Genotype Frequency	EUR	AA AT AA	0 (0%) 368 (97.09%) 11 (2.902%)	p=0.092 OR - 0.20 (95% CI. 0.04-1.03)
			PRS	CC TC	15 (93.75%) 1 (6.25%)					PRS	TT AT	14 (87.5%) 2 (12.5%)	
PDE4B	rs75398902	Allelic Frequency	EUR	G C	13 (1.715%) 745 (98.28%)	p=0.442 OR - 0.54 (95% CI. 0.06-4.26)	PDE10A	rs79469867	Allelic Frequency	EUR	T C	654 (86.27%) 104 (13.72%)	p=1 OR - 0.89 (95% CI. 0.30- 2.61)
			PRS	G C	1 (3.125%) 31 (96.87%)					PRS	T C	28 (87.5%) 4 (12.5%)	
PDE4B	rs75398902	Genotype Frequency	EUR	GG CC GC	0 (0%) 366 (96.56%) 13 (3.430%)	p=0.445 OR - 0.53 (95% CI. 0.06-4.34)	PDE10A	rs79469867	Genotype Frequency	EUR	TT CC TC	283 (74.67%) 8 (2.110%) 88 (23.21%)	p=0.710
			PRS	CC GC	15 (93.75%) 1 (6.25%)					PRS	CC TC	0 (0%) 4 (25%)	
PDE4B	rs783036	Allelic Frequency	EUR	A G	378 (49.86%) 380 (50.13%)	p=1 OR - 0.99 (95% CI. 0.49- 2.01)	PDE10A	rs9459421	Allelic Frequency	EUR	T C	720 (94.98%) 38 (5.013%)	p=0.227 OR - 1.96 (95% CI. 0.57-6.72)
			PRS	A G	16 (50%) 16 (50%)					PRS	T C	29 (90.62%) 3 (9.375%)	
PDE4B	rs783036	Genotype Frequency	EUR	AA GG AG	87 (22.95%) 88 (23.21%) 204 (53.82%)	p=0.438	PDE10A	rs9459421	Genotype Frequency	EUR	TT CC TC	342 (90.23%) 1 (0.263%) 36 (9.498%)	p=0.525
			PRS	AA GG AG	5 (31.25%) 5 (31.25%) 6 (37.5%)					PRS	TT CC TC	13 (81.25%) 0 (0%) 3 (18.75%)	
PDE4B	rs783039	Allelic Frequency	EUR	A G	199 (26.25%) 559 (73.74%)	p=0.158 OR - 0.59 (95% CI. 0.28-1.23)	PDE11A	rs1047884	Allelic Frequency	EUR	G C	575 (75.85%) 183 (24.14%)	p=1 OR - 1.04 (95% CI. 0.46- 2.37)
			PRS	A G	12 (37.5%) 20 (62.5%)					PRS	G C	24 (75%) 8 (25%)	

PDE4B	rs783039	Genotype Frequency	AA 24 (6.332%)	p=0.057	PDE11A	rs1047884	Genotype Frequency	GG 213 (56.20%)	p=0.947	
		EUR	GG 204 (53.82%)					EUR		CC 17 (4.485%)
			AG 151 (39.84%)							GC 149 (39.31%)
		PRS	AA 4 (25%)					PRS		GG 9 (56.25%)
			GG 8 (50%)							CC 1 (6.25%)
			AG 4 (25%)					GC 6 (37.5%)		
PDE4C	rs783039	Allelic Frequency	T 288 (37.99%)	p=0.578 OR - 0.78 (95% CI. 0.38-1.60)	PDE11A	rs115616942	Allelic Frequency	A 2 (0.263%)	p=0.116 OR - 0.08 (95% CI. 0.00-0.92)	
		EUR	C 470 (62.00%)					EUR		C 756 (99.73%)
		PRS	T 14 (43.75%)					PRS		A 1 (3.125%)
			C 18 (56.25%)							C 31 (96.87%)
PDE4C	rs783039	Genotype Frequency	TT 58 (15.30%)	p=0.600	PDE11A	rs115616942	Genotype Frequency	AA 0 (0%)	p=0.116 OR - 0.07 (95% CI. 0.00-0.92)	
		EUR	CC 149 (39.31%)					EUR		CC 377 (99.47%)
			TC 172 (45.38%)							AC 2 (0.527%)
		PRS	TT 4 (25%)					PRS		AA 0 (0%)
			CC 6 (37.5%)							CC 15 (93.75%)
			TC 6 (37.5%)					AC 1 (6.25%)		
PDE4D	rs11950492	Allelic Frequency	A 637 (84.03%)	p=1 OR - 0.97 (95% CI. 0.36- 2.58)	PDE11A	rs115662866	Allelic Frequency	A 10 (1.319%)	p=0.367 OR - 0.41 (95% CI. 0.05-3.33)	
		EUR	G 121 (15.96%)					EUR		G 748 (98.68%)
		PRS	A 27 (84.37%)					PRS		A 1 (3.125%)
			G 5 (15.62%)					G 31 (96.87%)		
PDE4D	rs11950492	Genotype Frequency	AA 268 (70.71%)	p=0.621	PDE11A	rs115662866	Genotype Frequency	AA 0 (0%)	p=0.369 OR - 0.40 (95% CI. 0.04-3.38)	
		EUR	GG 10 (2.638%)					EUR		GG 369 (97.36%)
			AG 101 (26.64%)							AG 10 (2.638%)
		PRS	AA 11 (68.75%)					PRS		AA 0 (0%)
			GG 0 (0%)							GG 15 (93.75%)
			AG 5 (31.25%)					AG 1 (6.25%)		
PDE4D	rs11950495	Allelic Frequency	A 692 (91.29%)	p=0.753 OR - 1.08 (95% CI. 0.32-3.65)	PDE11A	rs13012088	Allelic Frequency	A 110 (14.51%)	p=0.071 OR - 5.26 (95% CI. 0.71-38.9)	
		EUR	G 66 (8.707%)					EUR		G 648 (85.48%)
		PRS	A 29 (90.62%)					PRS		A 1 (3.125%)
			G 3 (9.375%)							G 31 (96.87%)
PDE4D	rs11950495	Genotype Frequency	AA 315 (83.11%)	p=0.894	PDE11A	rs13012088	Genotype Frequency	AA 11 (2.902%)	p=0.111	
		EUR	GG 2 (0.527%)					EUR		GG 280 (73.87%)
			AG 62 (16.35%)							AG 88 (23.21%)
		PRS	AA 13 (81.25%)					PRS		AA 0 (0%)
			GG 0 (0%)							GG 15 (93.75%)
			AG 3 (18.75%)					AG 1 (6.25%)		
PDE4D	rs11959349	Allelic Frequency	A 637 (84.03%)	p=0.805 OR - 0.75 (95% CI. 0.25-2.18)	PDE11A	rs1435573	Allelic Frequency	T 101 (13.32%)	p=0.108 OR - 4.76 (95% CI. 0.64-35.2)	
		EUR	C 121 (15.96%)					EUR		G 657 (86.67%)
		PRS	A 28 (87.5%)					PRS		T 1 (3.125%)
			C 4 (12.5%)							G 31 (96.87%)
PDE4D	rs11959349	Genotype Frequency	AA 268 (70.71%)	p=0.643	PDE11A	rs1435573	Genotype Frequency	TT 6 (1.583%)	p=0.138	
		EUR	CC 10 (2.638%)					EUR		GG 284 (74.93%)
			AC 101 (26.64%)							TG 89 (23.48%)
		PRS	AA 12 (75%)					PRS		TT 0 (0%)
			CC 0 (0%)							GG 15 (93.75%)
			AC 4 (25%)					TG 1 (6.25%)		



PDE4D	rs1553114	Allelic Frequency	EUR	T 617 (81.39%) C 141 (18.60%)	p=1 OR - 1.00 (95% CI. 0.40- 2.49)	PDE11A	rs2293473	Allelic Frequency	EUR	A 40 (5.277%) G 718 (94.72%)	p=0.096 OR - 0.38 (95% CI. 0.13-1.16)
			PRS	T 26 (81.25%) C 6 (18.75%)					PRS	A 4 (12.5%) G 28 (87.5%)	
PDE4D	rs1553114	Genotype Frequency	EUR	TT 253 (66.75%) CC 15 (3.957%) TC 111 (29.28%)	p=0.868	PDE11A	rs2293473	Genotype Frequency	EUR	AA 0 (0%) GG 339 (89.44%) AG 40 (10.55%)	p=0.089 OR - 0.35 (95% CI. 0.10-1.14)
			PRS	TT 11 (68.75%) CC 1 (6.25%) TC 4 (25%)					PRS	GG 12 (75%) AG 4 (25%)	
PDE4D	rs72769729	Allelic Frequency	EUR	T 63 (8.311%) C 695 (91.68%)	p=0.505 OR - 2.81 (95% CI. 0.37-20.9)	PDE11A	rs3821010	Allelic Frequency	EUR	A 524 (69.12%) G 234 (30.87%)	p=0.846 OR - 0.87 (95% CI. 0.39-1.92)
			PRS	T 1 (3.125%) C 31 (96.87%)					PRS	A 23 (71.87%) G 9 (28.12%)	
PDE4D	rs72769729	Genotype Frequency	EUR	TT 1 (0.263%) CC 317 (83.64%) TC 61 (16.09%)	p=0.476	PDE11A	rs3821010	Genotype Frequency	EUR	AA 182 (48.02%) GG 37 (9.762%) AG 160 (42.21%)	p=0.152
			PRS	TT 0 (0%) CC 15 (93.75%) TC 1 (6.25%)					PRS	GG 0 (0%) AG 9 (56.25%)	
PDE5A	rs11947234	Allelic Frequency	EUR	A 555 (71.52%) G 221 (28.47%)	p=0.547 OR - 0.83 (95% CI. 0.51-1.36)	PDE11A	rs6433711	Allelic Frequency	EUR	T 757 (99.86%) C 1 (0.131%)	p=1 OR - 0.99 (95% CI. 0.99- 1.00)
			PRS	A 72 (75%) G 24 (25%)					PRS	T 32 (100%) C 0 (0%)	
PDE5A	rs11947234	Genotype Frequency	EUR	AA 198 (51.03%) GG 31 (7.989%) AG 159 (40.97%)	p=0.224	PDE11A	rs6433711	Genotype Frequency	EUR	TT 378 (99.73%) CC 0 (0%) TC 1 (0.263%)	p=1 OR - 0.99 (95% CI. 0.99- 1.00)
			PRS	AA 25 (52.08%) GG 1 (2.083%) AG 22 (45.83%)					PRS	TT 16 (100%) CC 0 (0%) TC 0 (0%)	
PDE5A	rs142272118	Allelic Frequency	EUR	T 6 (0.791%) C 752 (99.20%)	p=0.252 OR - 0.24 (95% CI. 0.02-2.11)	PDE11A	rs6720891	Allelic Frequency	EUR	T 524 (69.12%) C 234 (30.87%)	p=0.560 OR - 0.74 (95% CI. 0.33-1.68)
			PRS	T 1 (3.125%) C 31 (96.87%)					PRS	T 24 (75%) C 8 (25%)	
PDE5A	rs142272118	Genotype Frequency	EUR	TT 1 (0.263%) CC 374 (98.68%) TC 4 (1.055%)	p=0.394	PDE11A	rs6720891	Genotype Frequency	EUR	TT 182 (48.02%) CC 37 (9.762%) TC 160 (42.21%)	p=0.773
			PRS	TT 0 (0%) CC 15 (93.75%) TC 1 (6.25%)					PRS	TT 9 (56.25%) CC 1 (6.25%) TC 6 (37.5%)	
PDE5A	rs144204269	Allelic Frequency	EUR	T 758 (100%) G 0 (0%)	p=0.112 OR - 1.01 (95% CI. 0.98-1.03)	PDE11A	rs71423514	Allelic Frequency	EUR	T 648 (85.48%) C 110 (14.51%)	p=0.071 OR - 0.19 (95% CI. 0.02-1.40)
			PRS	T 95 (98.95%) G 1 (1.041%)					PRS	T 31 (96.87%) C 1 (3.125%)	

PDE5A	rs144204269	Genotype Frequency	TT 379 (100%)			PDE11A	rs71423514	Genotype Frequency	TT 280 (73.87%)		
			EUR GG 0 (0%)		p=0.112 OR - 1.02 (95% CI. 0.97-1.06)				EUR CC 11 (2.902%)		p=0.111
			TG 0 (0%)						TC 88 (23.21%)		
			PRG TT 47 (97.91%)						PRG TT 15 (93.75%)		
			PRG GG 0 (0%)						PRG CC 0 (0%)		
			TG 1 (2.083%)						TC 1 (6.25%)		
PDE5A	rs148360694	Allelic Frequency	T 1 (0.131%)		p=0.079 OR - 0.04 (95% CI. 0.00-0.67)	PDE11A	rs71423544	Allelic Frequency	A 100 (13.19%)		p=0.108 OR - 4.71 (95% CI. 0.63-34.8)
			EUR C 757 (99.86%)						EUR C 658 (86.80%)		
			PRG T 1 (3.125%)					PRG A 1 (3.125%)			
			C 31 (96.87%)					C 31 (96.87%)			
PDE5A	rs148360694	Genotype Frequency	TT 0 (0%)		p=0.079 OR - 0.03 (95% CI. 0.00-0.66)	PDE11A	rs71423544	Genotype Frequency	AA 6 (1.583%)		p=0.144
			EUR CC 378 (99.73%)						EUR CC 285 (75.19%)		
			TC 1 (0.263%)					AC 88 (23.21%)			
			PRG TT 0 (0%)					PRG AA 0 (0%)			
			CC 15 (93.75%)					PRG CC 15 (93.75%)			
			TC 1 (6.25%)					AC 1 (6.25%)			
PDE5A	rs17051276	Allelic Frequency	A 730 (96.30%)		p=0.775 OR - 1.13 (95% CI. 0.38-3.30)	PDE11A	rs75461311	Allelic Frequency	A 754 (99.47%)		p=1.4*10 <sup>-4</sup> (-4) OR - 26.9 (95% CI. 6.40-113.0)
			EUR C 28 (3.693%)						EUR G 4 (0.527%)		
			PRG A 92 (95.83%)					PRG A 28 (87.5%)			
			C 4 (4.166%)					G 4 (12.5%)			
PDE5A	rs17051276	Genotype Frequency	AA 351 (92.61%)		p=0.771 OR - 1.13 (95% CI. 0.38-3.40)	PDE11A	rs75461311	Genotype Frequency	AA 375 (98.94%)		p=1.1*10 <sup>-4</sup> (-4) OR - 31.2 (95% CI. 6.97-140.)
			EUR CC 0 (0%)						EUR GG 0 (0%)		
			AC 28 (7.387%)					AG 4 (1.055%)			
			PRG AA 44 (91.66%)					PRG AA 12 (75%)			
			CC 0 (0%)					GG 0 (0%)			
			AC 4 (8.333%)					AG 4 (25%)			
PDE5A	rs3733526	Allelic Frequency	A 606 (79.94%)		p=0.052 OR - 0.51 (95% CI. 0.26-0.99)	PDE11A	rs75672043	Allelic Frequency	A 94 (12.40%)		p=0.412 OR - 2.12 (95% CI. 0.49-9.03)
			EUR G 152 (20.05%)						EUR G 664 (87.59%)		
			PRG A 85 (88.54%)					PRG A 2 (6.25%)			
			G 11 (11.45%)					G 30 (93.75%)			
PDE5A	rs3733526	Genotype Frequency	AA 237 (62.53%)		p=0.059	PDE11A	rs75672043	Genotype Frequency	AA 7 (1.846%)		p=0.490
			EUR GG 10 (2.638%)						EUR GG 292 (77.04%)		
			AG 132 (34.82%)					AG 80 (21.10%)			
			PRG AA 38 (79.16%)					PRG AA 0 (0%)			
			GG 1 (2.083%)					PRG GG 14 (87.5%)			
			AG 9 (18.75%)					AG 2 (12.5%)			
PDE5A	rs1045177	Allelic Frequency	A 24 (3.166%)		p=0.284 OR - 0.49 (95% CI. 0.11-2.17)	PDE11A	rs77597060	Allelic Frequency	T 757 (99.86%)		p=0.079 OR - 24.4 (95% CI. 1.49-399.)
			EUR G 734 (96.83%)						EUR C 1 (0.131%)		
			PRG A 2 (6.25%)					PRG T 31 (96.87%)			
			G 30 (93.75%)					C 1 (3.125%)			
PDE5A	rs1045177	Genotype Frequency	AA 1 (0.263%)		p=0.597	PDE11A	rs77597060	Genotype Frequency	TT 378 (99.73%)		p=0.079 OR - 25.2 (95% CI. 1.50-422.)
			EUR GG 356 (93.93%)						EUR CC 0 (0%)		
			AG 22 (5.804%)					TC 1 (0.263%)			
			PRG AA 0 (0%)					PRG TT 15 (93.75%)			
			GG 14 (87.5%)					PRG CC 0 (0%)			
			AG 2 (12.5%)					TC 1 (6.25%)			

PDE5A	rs114886951	Allelic Frequency	EUR	A	757 (99.86%)	p=0.034 OR - 16.1 (95% CI. 1.44- 179.)	PDE11A	rs79903863	Allelic Frequency	EUR	A	0 (0%)	p=6.1*10 <sup>-5</sup> OR - 1.10 (95% CI. 0.98-1.23)	
				G	1 (0.131%)					EUR	C	758 (100%)		
			PRS	A	94 (97.91%)					PRS	A	3 (9.375%)		
				G	2 (2.083%)						C	29 (90.62%)		
PDE5A	rs114886951	Genotype Frequency	EUR	AA	378 (99.73%)	p=0.034 OR - 16.4 (95% CI. 1.46- 184.)	PDE11A	rs79903863	Genotype Frequency	EUR	AA	0 (0%)	p=5.49*10 <sup>-5</sup> OR - 1.23 (95% CI. 0.97-1.55)	
				GG	0 (0%)					EUR	CC	379 (100%)		
				AG	1 (0.263%)						AC	0 (0%)		
			PRS	AA	46 (95.83%)					PRS	CC	13 (81.25%)		
				GG	0 (0%)					AC	3 (18.75%)			
PDE5A	rs3733523	Allelic Frequency	EUR	T	218 (28.75%)	p=0.632 OR - 1.14 (95% CI. 0.70- 1.85)	PDE11A	rs10201180	Allelic Frequency	EUR	T	187 (24.67%)	p=0.142 OR - 0.54 (95% CI. 0.26-1.13)	
				C	540 (71.24%)					EUR	C	571 (75.32%)		
			PRS	T	25 (26.04%)					PRS	T	12 (37.5%)		
				C	71 (73.95%)						C	20 (62.5%)		
PDE5A	rs3733523	Genotype Frequency	EUR	TT	30 (7.915%)	p=0.215	PDE11A	rs10201180	Genotype Frequency	EUR	TT	19 (5.013%)	p=0.268	
				CC	191 (50.39%)					EUR	CC	211 (55.67%)		
				TC	158 (41.68%)						TC	149 (39.31%)		
			PRS	TT	1 (2.083%)					PRS	CC	6 (37.5%)		
				CC	24 (50%)					TC	8 (50%)			
PDE5A	rs3733524	Allelic Frequency	EUR	T	540 (71.24%)	p=0.399 OR - 0.78 (95% CI. 0.47- 1.27)	PDE11A	rs17400325	Allelic Frequency	EUR	T	710 (93.66%)	p=1 OR - 0.98 (95% CI. 0.22-4.24)	
				C	218 (28.75%)					EUR	C	48 (6.332%)		
			PRS	T	73 (76.04%)					PRS	T	30 (93.75%)		
				C	23 (23.95%)						C	2 (6.25%)		
PDE5A	rs3733524	Genotype Frequency	EUR	TT	191 (50.39%)	p=0.240	PDE11A	rs17400325	Genotype Frequency	EUR	TT	331 (87.33%)	p=1 OR - 0.98 (95% CI. 0.21-4.46)	
				CC	30 (7.915%)					EUR	CC	0 (0%)		
				TC	158 (41.68%)						TC	48 (12.66%)		
			PRS	TT	26 (54.16%)					PRS	CC	0 (0%)		
				CC	1 (2.083%)					TC	2 (12.5%)			
				TC	21 (43.75%)					TC	2 (12.5%)			
PDE6A	rs113309832	Allelic Frequency	EUR	T	0 (0%)	p=0.038 OR - 1.03 (95% CI. 0.96- 1.09)	PDE11A	rs75127279	Allelic Frequency	EUR	T	20 (2.638%)	p=0.343 OR - 0.63 (95% CI. 0.21-1.90)	
				C	794 (100%)					EUR	C	738 (97.36%)		
			PRS	T	1 (3.125%)					PRS	T	4 (4.081%)		
				C	31 (96.87%)						C	94 (95.91%)		
PDE6A	rs113309832	Genotype Frequency	EUR	TT	0 (0%)	p=0.038 OR - 1.06 (95% CI. 0.93- 1.21)	PDE11A	rs75127279	Genotype Frequency	EUR	TT	0 (0%)	p=0.107	
				CC	397 (100%)					EUR	CC	359 (94.72%)		
				TC	0 (0%)						TC	20 (5.277%)		
			PRS	TT	0 (0%)					PRS	CC	46 (93.87%)		
				CC	15 (93.75%)					TC	2 (4.081%)			
				TC	1 (6.25%)					TC	2 (4.081%)			