

**Supplementary Table 1. Sample count by population and contributing center**

Center	Country	Discovery, n (%)	Replication, n (%)
MEL	Australia	181 (1.4%)	-
PER	Australia	327 (2.6%)	-
TAS	Australia	63 (0.5%)	-
UON	Australia	310 (2.5%)	-
MUG	Austria	246 (2.0%)	-
BEL	Belgium	347 (2.8%)	51 (0.5%)
CAL	Canada	455 (3.6%)	-
DEN	Denmark	-	286 (2.9%)
TUM	Germany	683 (5.4%)	2121 (21.6%)
UMZ	Germany	301 (2.4%)	-
THE	Greece	140 (1.1%)	-
IT1	Italy	1067 (8.5%)	58 (0.6%)
IT2	Italy	538 (4.3%)	447 (4.6%)
EUR	Netherlands	209 (1.7%)	-
NOR	Norway	575 (4.6%)	63 (0.6%)
SP1	Spain	151 (1.2%)	-
SP2	Spain	-	234 (2.4%)
SWE	Sweden	2751 (21.9%)	6059 (61.8%)
UKC	UK	943 (7.5%)	486 (5.0%)
BWH	USA	512 (4.1%)	-
UCB	USA	910 (7.2%)	-
UCSF	USA	1603 (12.7%)	-
USM	USA	272 (2.2%)	-
Total		12584	9805

Centers could contribute samples to both the discovery and replication population; however, no individual overlapped between the two