

Table S2. Overlap between EWAS hits and GWAS for metabolic traits

EWAS locus	Chr	Bp start	Bp end	Candidate Genes(s)	Gene in GWAS catalog	Phenotype in GWAS catalog	SNP in GWAS catalog	Publication
Met1	2	34545726	34545903	LINC01317, LINC01320	LINC01317	Glomerular filtration rate in chronic kidney disease	rs11677592	(Wuttke <i>et al.</i> 2016)
Met2	2	47979865	47980000	MSH2, MSH6				
Met3	2	65064793	65064867	AFTPH, SLC1A4	SLC1A4	Atrial fibrillation	rs2540953	(Low <i>et al.</i> 2017)
Met3	2	65064793	65064867	AFTPH, SLC1A4	SLC1A4	Metabolite levels	rs2160387, rs10211524	(Kettunen <i>et al.</i> 2016), (Shin <i>et al.</i> 2014), (Inouye <i>et al.</i> 2012)
Met4	4	7774215	7774379	AFAP1				
Met5	5	173132627	173132883	BOD1, CPEB4	CPEB4	Waist-to-hip ratio adjusted for body mass index	rs7705502, rs7705502	(Shungin <i>et al.</i> 2015)
Met6	6	3132000	3132119	BPHL				
Met7	9	137263485	137263573	RXRA	RXRA	Blood pressure	rs4841895	(Simino <i>et al.</i> 2014)
Met8	10	75600604	75600822	CAMK2G				
Met9	10	100183346	100183441	HPS1	HPS1	Obesity-related traits	rs6584202	(Comuzzie <i>et al.</i> 2012)
Met10	11	65248602	65248737	FRMD8, SCYL1				
Met11	12	42883183	42883320	PRICKLE1	PRICKLE1	Visceral adipose tissue/ subcutaneous adipose tissue ratio	rs12316797	(Fox <i>et al.</i> 2012)
Met12	12	113734359	113734579	TPCN1		Response to fenofibrate (adiponectin levels)	rs2384207	(Aslibekyan <i>et al.</i> 2013)
Met13	17	2893657	2893829	RAP1GAP2				
Met14	17	40913548	40913600	RAMP2				
Met15	17	80041514	80042067	FASN				
Met16	17	80046324	80047195	FASN				
Met17	17	80050198	80050365	FASN				
Met18	17	80051500	80053080	FASN				
Met19	19	1148096	1148232	SBNO2				
Met20	21	16661536	16661714	NRIP1, USP25				
Met21	22	28151964	28152032	MN1	MN1	Blood pressure smoking interaction	rs133980	(Sung <i>et al.</i> 2015)
Met21	22	28151964	28152032	MN1	MN1	Warfarin maintenance dose	rs68043594	(Parra <i>et al.</i> 2015)