

SNP (control)	Gene	Metabolite	$P_{\text{ref}}$	Spectrum	Cohort	$P_C$	Rank
rs37369	<i>AGXT2</i>	3-aminoisobutyrate	$3.2 \times 10^{-75}$	multi-peak	SHIP	$1.0 \times 10^{-46}$	1
rs8101881	<i>SLC7A9</i>	lysine	$1.0 \times 10^{-8}$	multi-peak	SHIP	$1.5 \times 10^{-15}$	1
rs17279437	<i>SLC6A20</i>	dimethylglycine	$5.5 \times 10^{-10}$	multi-peak	SHIP	$4.6 \times 10^{-10}$	3
rs11884776	<i>ALMS1</i>	N-acetylated compounds	$4.1 \times 10^{-19}$	multi-peak	MolPAGE	$1.0 \times 10^{-123}$	3, 14, 21
rs4539242	<i>PYROXD2</i>	trimethylamine	$2.8 \times 10^{-23}$	single peak	MolPAGE	$1.7 \times 10^{-128}$	44
rs830124	<i>PSMD9</i>	2-hydroxyisobutyrate	$1.6 \times 10^{-15}$	single peak	SHIP	$6.6 \times 10^{-11}$	65
rs1495743	<i>NAT2</i>	formate	$1.4 \times 10^{-10}$	single peak	SHIP	$6.0 \times 10^{-7}$	222 (9)