

**Supplementary Table 5** Pathway analysis of metabolic biomarkers in plasma on OAG.

Pathway Name	Match Status	P	FDR	Impact
Arginine and proline metabolism	3/38	0.013334	0.66047	0.09187
Aminoacyl-tRNA biosynthesis	3/48	0.025055	0.66047	0
beta-Alanine metabolism	2/21	0.031451	0.66047	0.05597
Sphingolipid metabolism	2/21	0.031451	0.66047	0.1785

OAG, Open Angle glaucoma