

**Supplementary Table 7** Pathway analysis of metabolic biomarkers in tear on OAG.

Pathway Name	Match Status	P	FDR	Impact
Aminoacyl-tRNA biosynthesis	7/48	6.01E-10	5.05E-08	0
Phenylalanine, tyrosine and tryptophan biosynthesis	2/4	1.79E-04	0.0075115	1
Phenylalanine metabolism	2/10	0.0013173	0.036883	0.35714
Arginine and proline metabolism	2/38	0.018907	0.39704	0.13566
Valine, leucine and isoleucine biosynthesis	1/8	0.04562	0.71666	0

OAG, Open Angle glaucoma