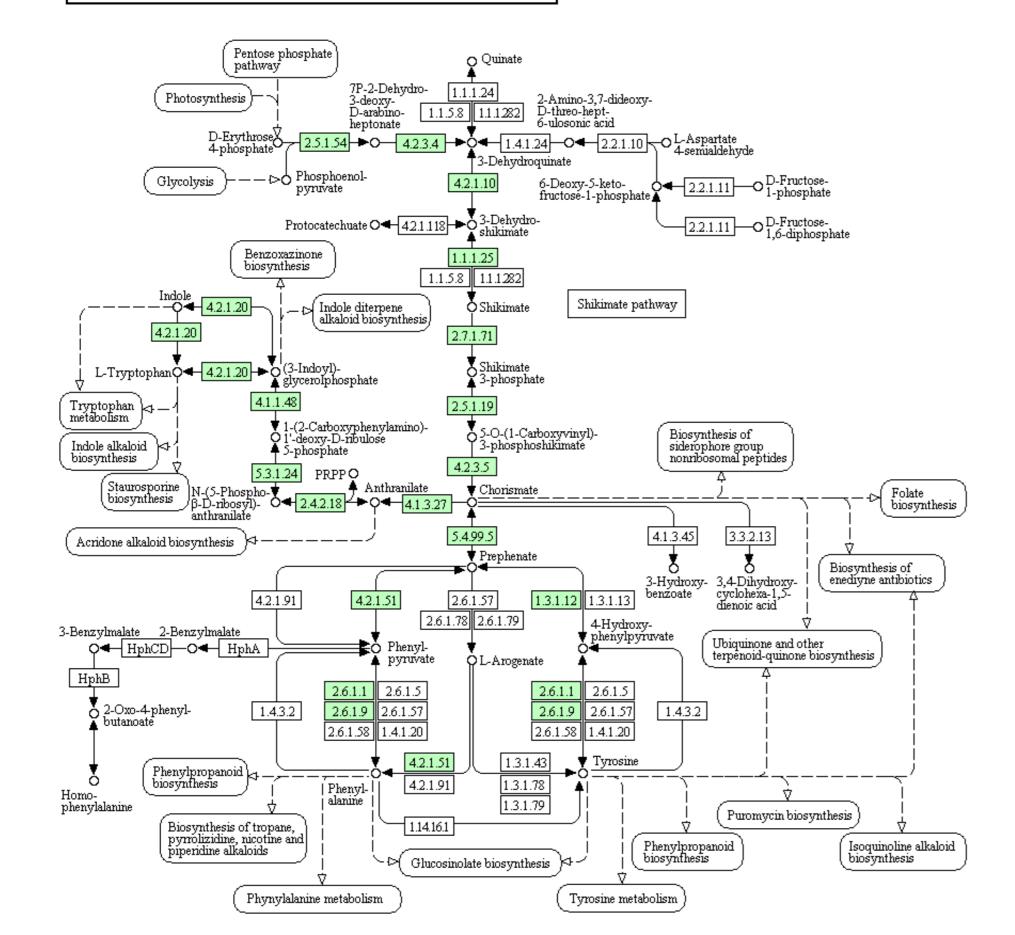
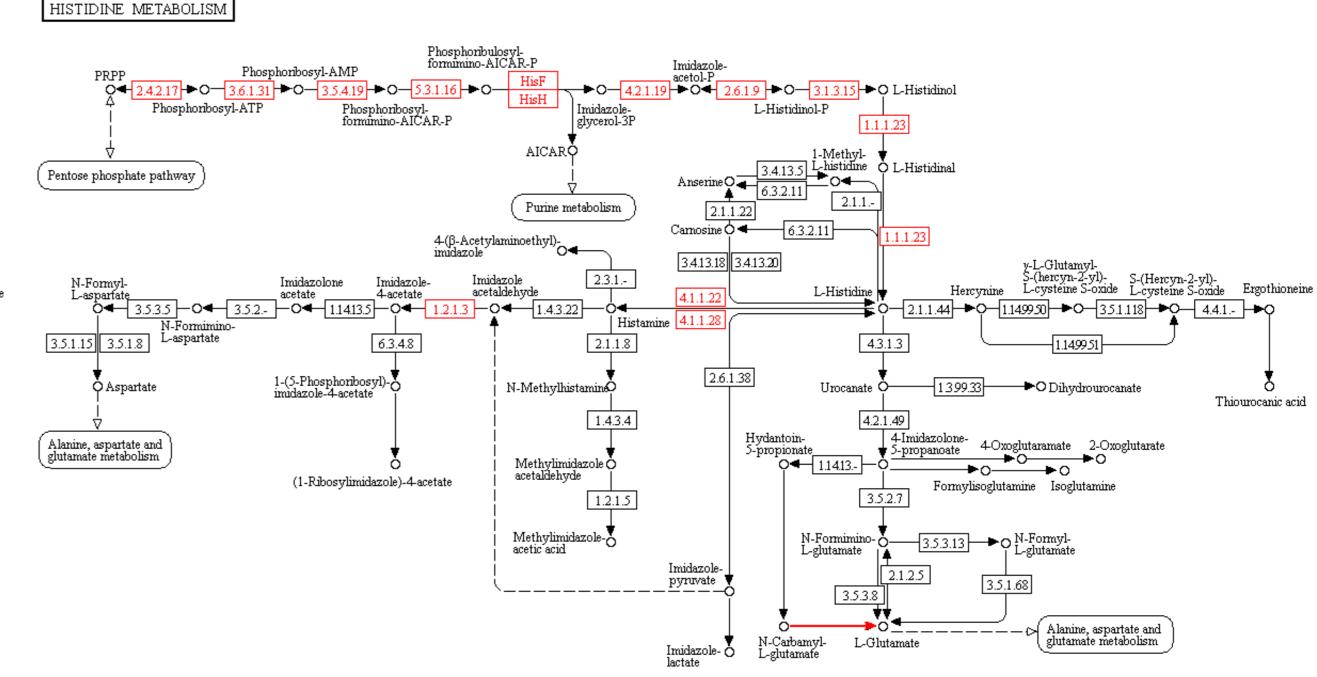
## BlastKoala output

## HISTIDINE METABOLISM Phosphoribulosyl-formimino-AICAR-P Phosphoribosyl-AMP HisF Q 2.4.2.17 ► O 3.6.1.31 ► O 3.5.4.19 ► O 5.3.1.16 ► O -►O 4.2.1.19 ►O 2.6.1.9 ►O 3.1.3.15 ►O L-Histidinol HisH Phosphoribosyl-formimino-AICAR-P Phosphonbosyl-ATP AICARÇ Ò L-Histidinal Pentose phosphate pathway Purine metabolism 2.1.1.22 Carnosine 🗸 🖛 6.3.2.11 4-(β-Acetylaminoethyl)-imidazole 3.4.13.18 3.4.13.20 y-L-Glutamyl-S-(hercyn-2-yl)- S-(Hercyn-2-yl)-L-cysteine S-oxide L-cysteine S-oxide Ergothioneine Imidazole acetaldehyde 2.3.1.-N-Formyl-Imidazolone L-Histidine 4.1.1.22 2.1.1.44 ▶○ 1.1499.50 ▶○ 35.1.118 ▶○ 4.4.1.- ▶○ • 3.5.3.5 • • 3.5.2.- • • 1.1413.5 • • • 1.2.1.3 • | Histamine | 4.1.1.28 3.5.1.15 3.5.1.8 6.3.4.8 2.1.1.8 4.3.1.3 1.1499.51 2.6.1.38 1-(5-Phosphonbosyl)-imidazole-4-acetate N-Methylhistamin 🗘 Aspartate Urocanate C →O Dihydrourocanate 4.2.1.49 1.4.3.4 4 Imidazolone-4 Oxoglutaramate 2-Oxoglutarate Alanine, aspartate and glutamate metabolism Methylimidazole Ö acetaldehyde **○**◀ 1.14.13.-(1-Ribosylimidazole)-4-acetate Formylisoglutamine Isoglutamine 3.5.2.7 1.2.1.5 Methylimidazole-3.5.3.13 PO N-Formyl-L-glutamate acetic acid Imidazolepyruvate 3.5.1.68 3.5.3.8 Alanine, aspartate and L-Glutamate Imidazole- 💍

## PHENYLALANINE, TYROSINE AND TRYPTOPHAN BIOSYNTHESIS



## MetaDraft output



PHENYLALANINE, TYROSINE AND TRYPTOPHAN BIOSYNTHESIS

