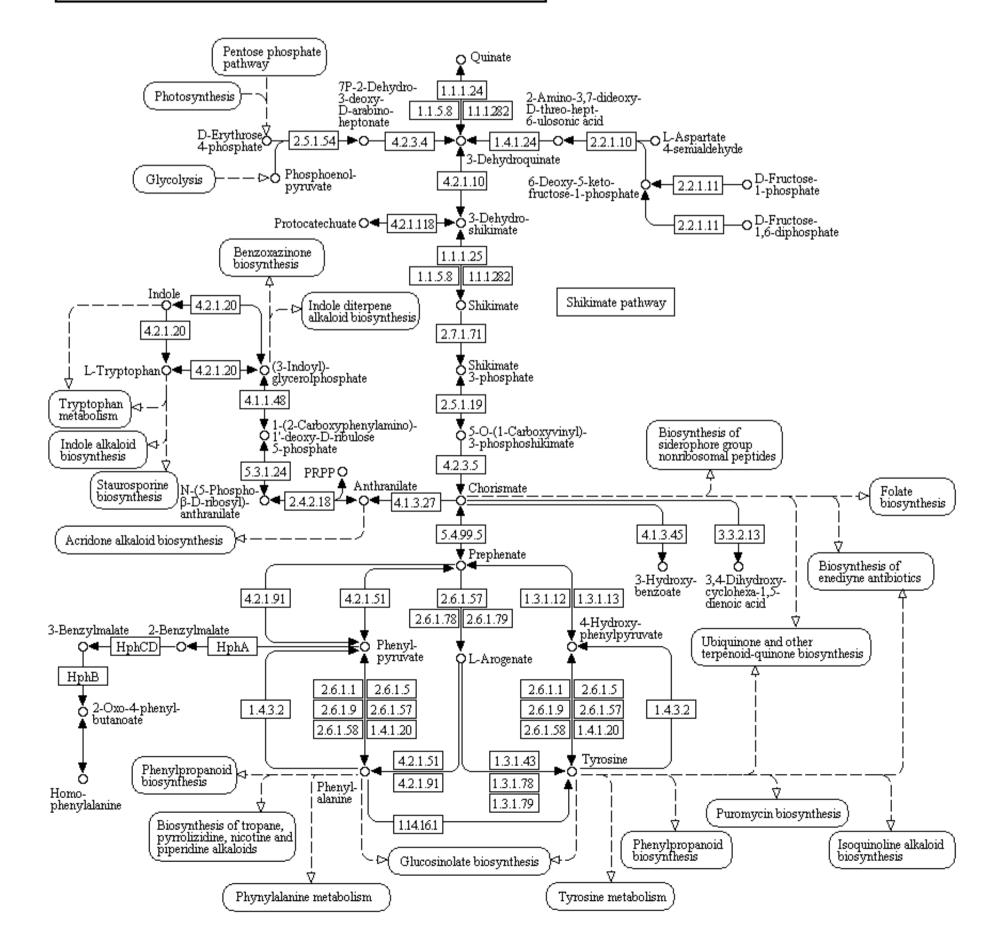
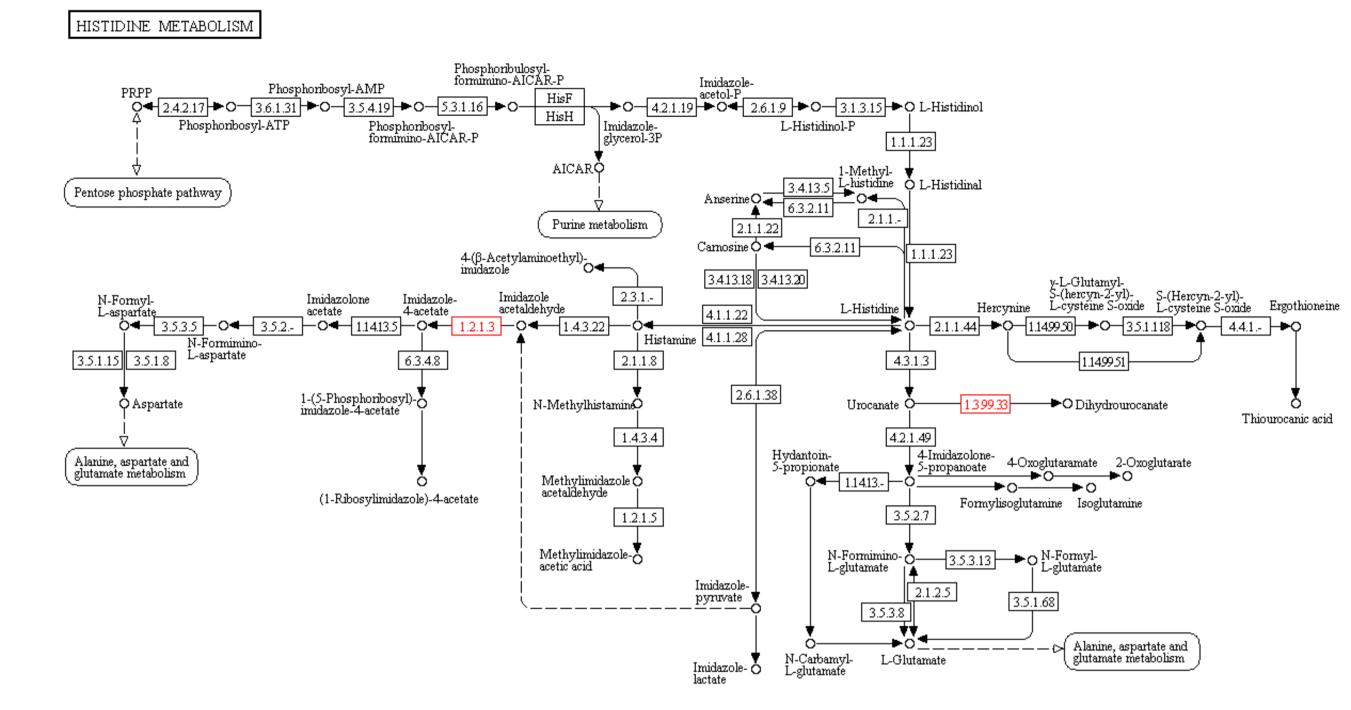
## BlastKoala output

## HISTIDINE METABOLISM Phosphoribulosyl-formimino-AICAR-P Phosphoribosyl-AMP Q 4 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 Phosphoribosyl-ATP glycerol-3F 1.1.1.23 AICARÒ 3.4.13.5 Lhistidine O L-Histidinal Anserine O 6.3.2.11 Pentose phosphate pathway Purine metabolism 6.3.2.11 Camosine 🔾 🖛 4-(β-Acetylaminoethyl)-imidazole O◀ 1.1.1.23 3.4.13.18 3.4.13.20 S-(hercyn-2-yl)- S-(Hercyn-2-yl)-L-cysteine S-oxide L-cysteine S-oxide Ergothioneine 2.3.1.-L-Histidine acetaldehyde 4-acetate 4.1.1.22 2.1.1.44 ► 0 1.149950 ► 0 35.1.118 ► 0 4.4.1.- ► 0 O◀ 3.5.3.5 O◀ 3.5.2.- O◀ 11413.5 O◀ 1.2.1.3 O◀ 1.4.3.22 Histamine N-Formimino-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-Phosphoribosyl)-O Aspartate N-Methylhistamine <del>|</del>1399.33|− →O Dihydrourocanate Urocanate ! Thiourocanic acid 4.2.1.49 1.4.3.4 4-Imidazolone-Alanine, aspartate and 4-Oxoglutaramate 2-Oxoglutarate glutamate metabolism Methylimidazole Ö acetaldehyde O**-** 1.14.13.- ├─ (1-Ribosylimidazole)-4-acetate Formylisoglutamine Isoglutamine 1.2.1.5 Methylimidazole-3.5.3.13 N-Formyl-L-glutamate acetic acid L-glutamate Imidazole-2.1.2.5 pyruvate 3.5.1.68 3.5.3.8 \_\_\_\_\_ Alanine, aspartate and L-Glutamate Imidazole- 💍 lactate

## PHENYLALANINE, TYROSINE AND TRYPTOPHAN BIOSYNTHESIS



## MetaDraft output



PHENYLALANINE, TYROSINE AND TRYPTOPHAN BIOSYNTHESIS

