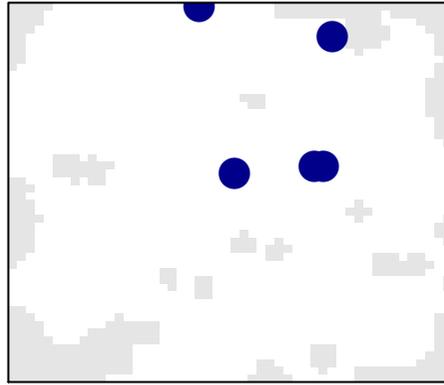
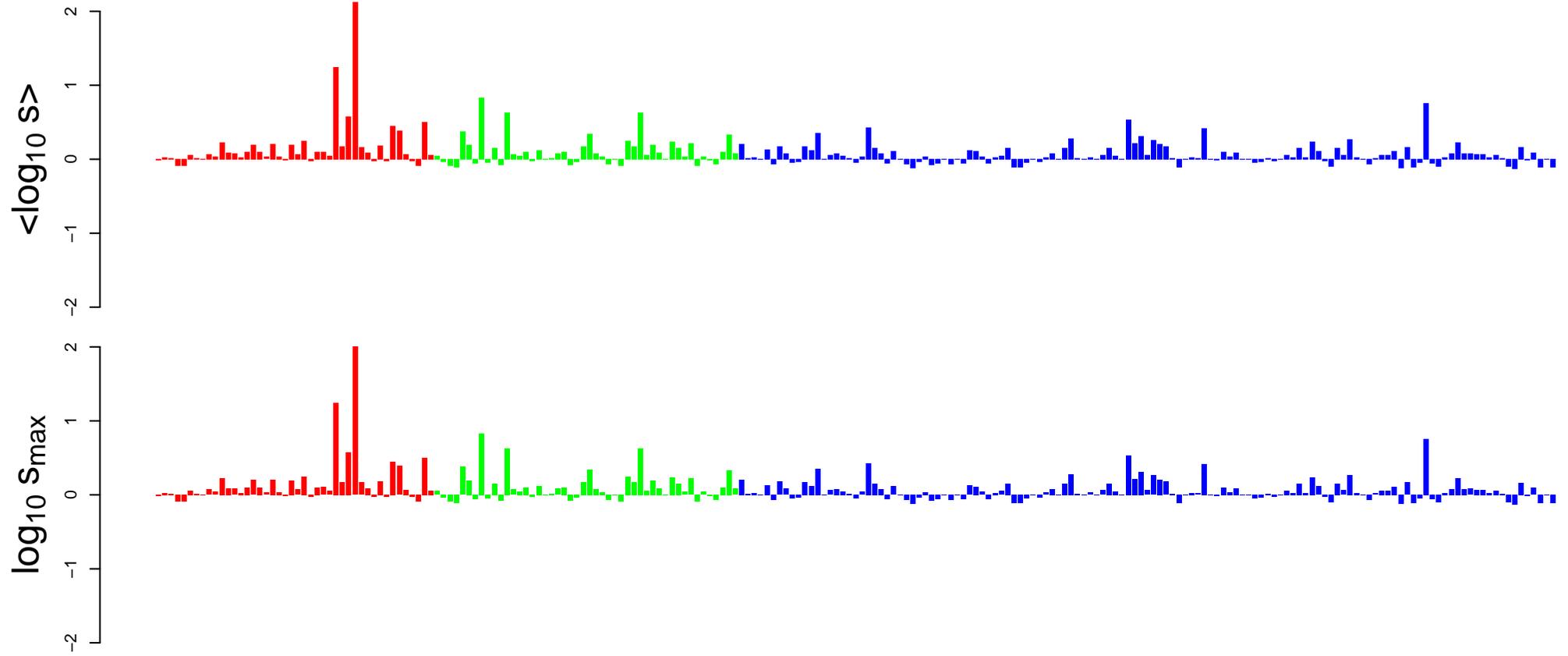


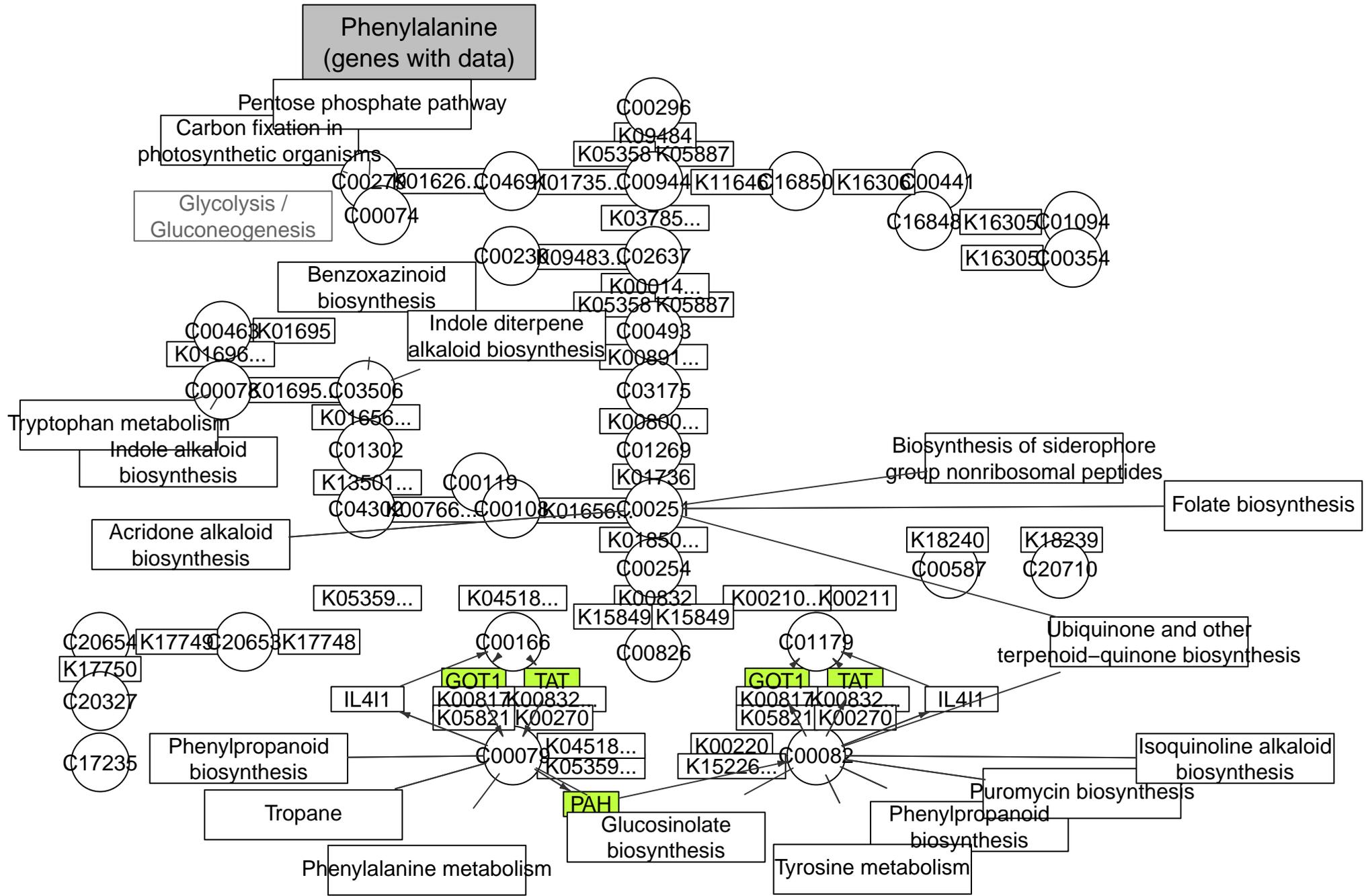
# Phenylalanine, tyrosine and tryptoph

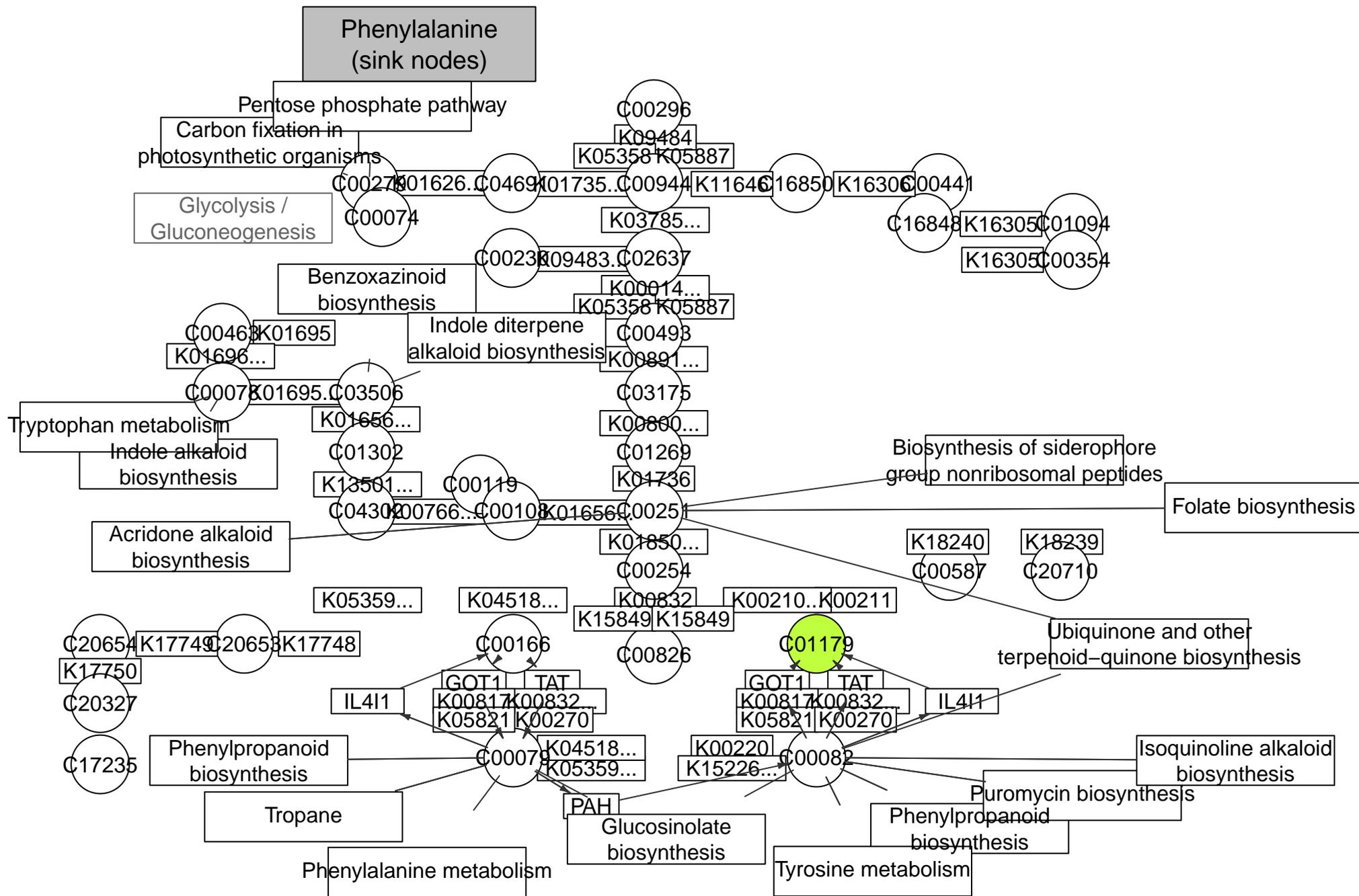
all genes

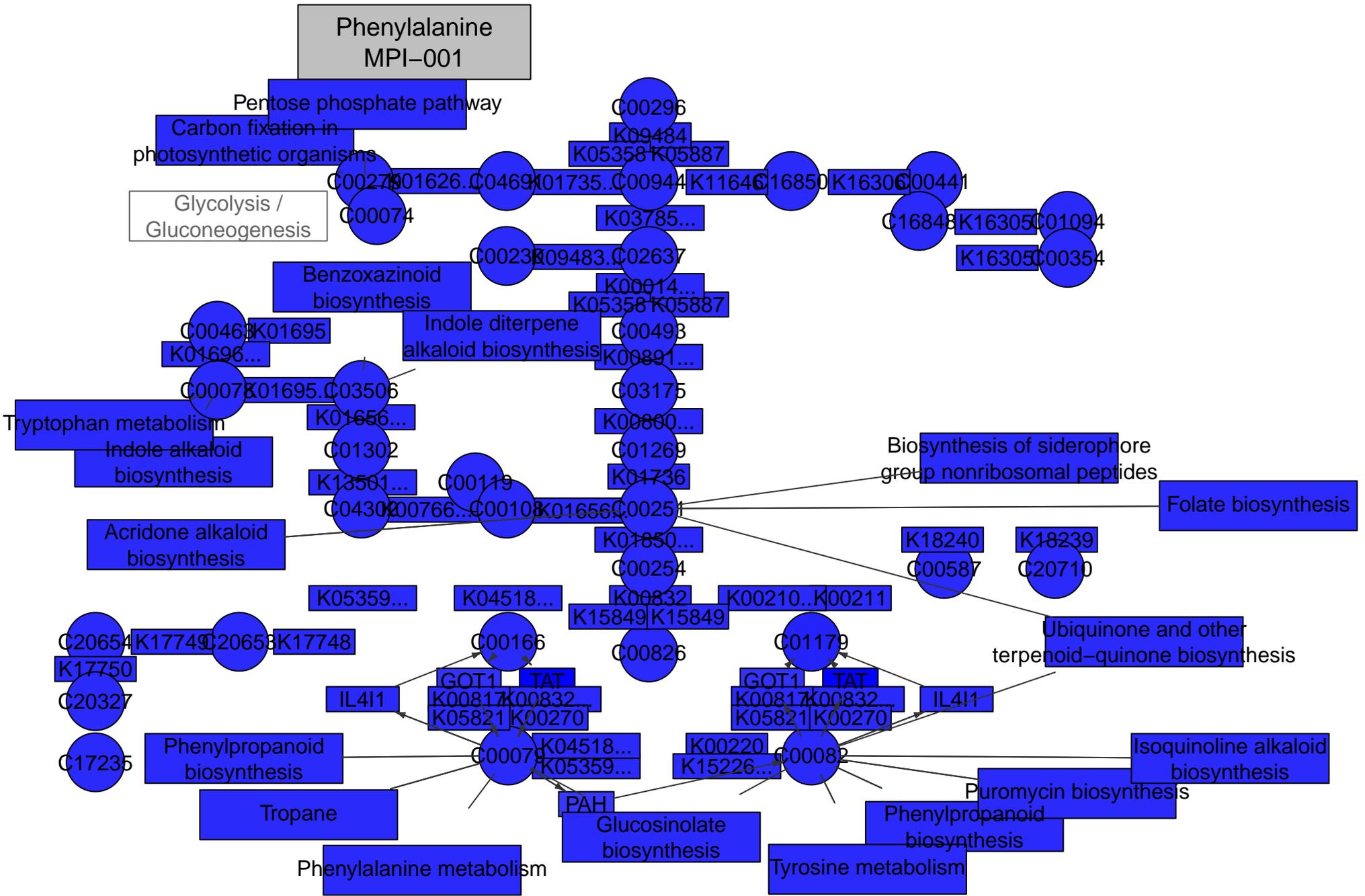


maximum = 1

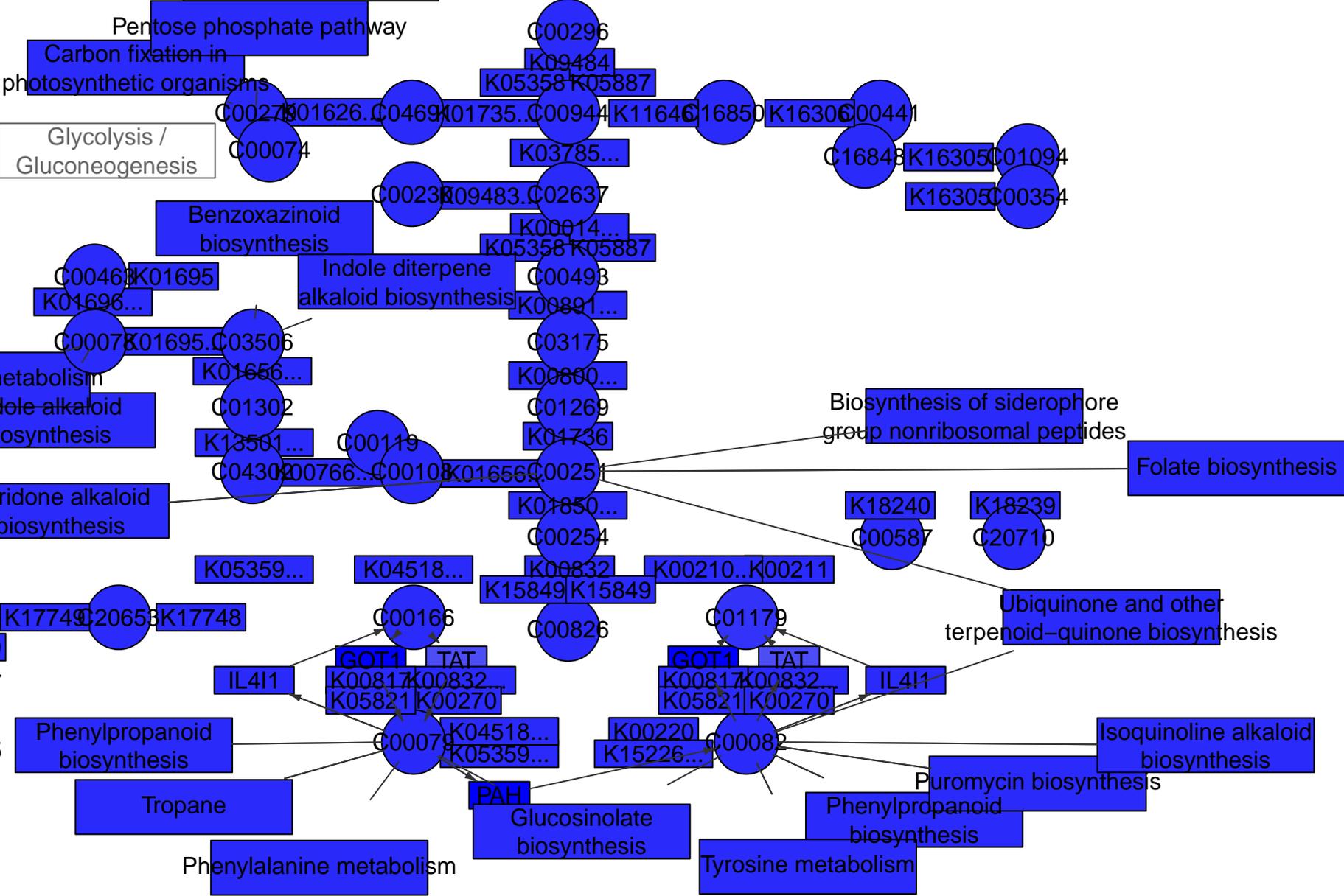


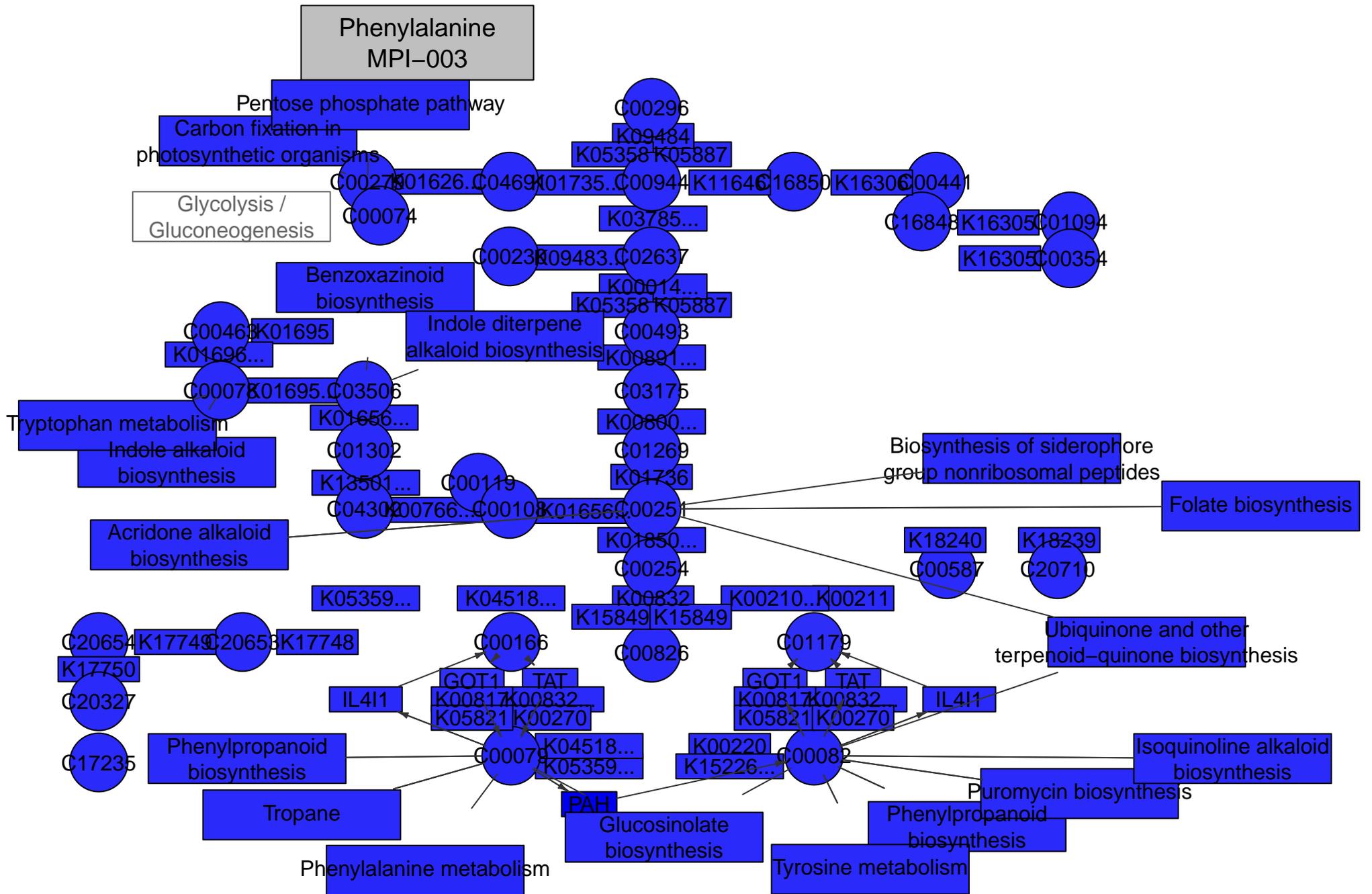






Phenylalanine  
MPI-002





Phenylalanine MPI-005

Pentose phosphate pathway

Carbon fixation in photosynthetic organisms

Glycolysis / Gluconeogenesis

Benzoxazinoid biosynthesis

Indole diterpene alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid biosynthesis

Acridone alkaloid biosynthesis

Biosynthesis of siderophore group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other terpenoid-quinone biosynthesis

Phenylpropanoid biosynthesis

Tropane

Phenylalanine metabolism

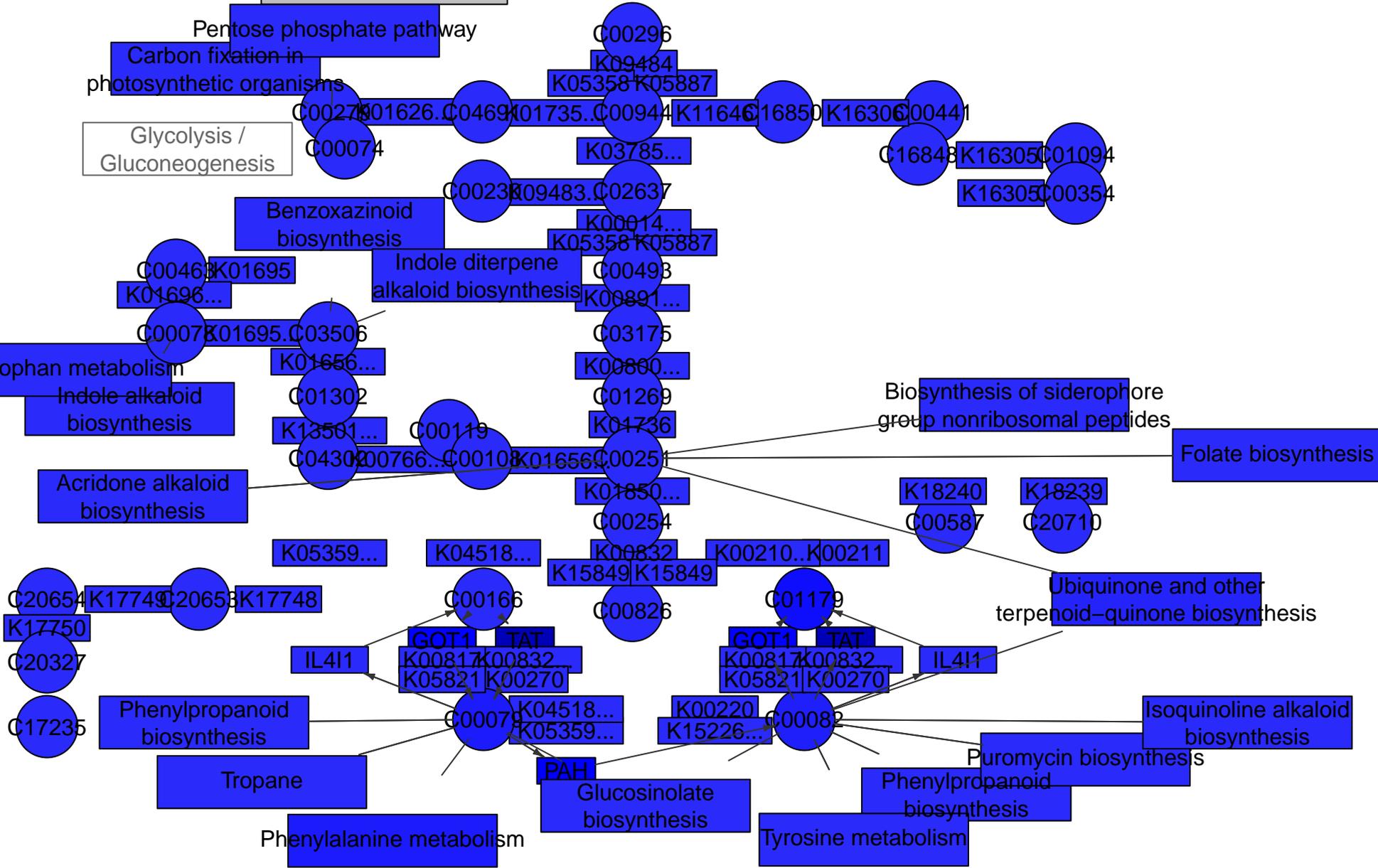
Glucosinolate biosynthesis

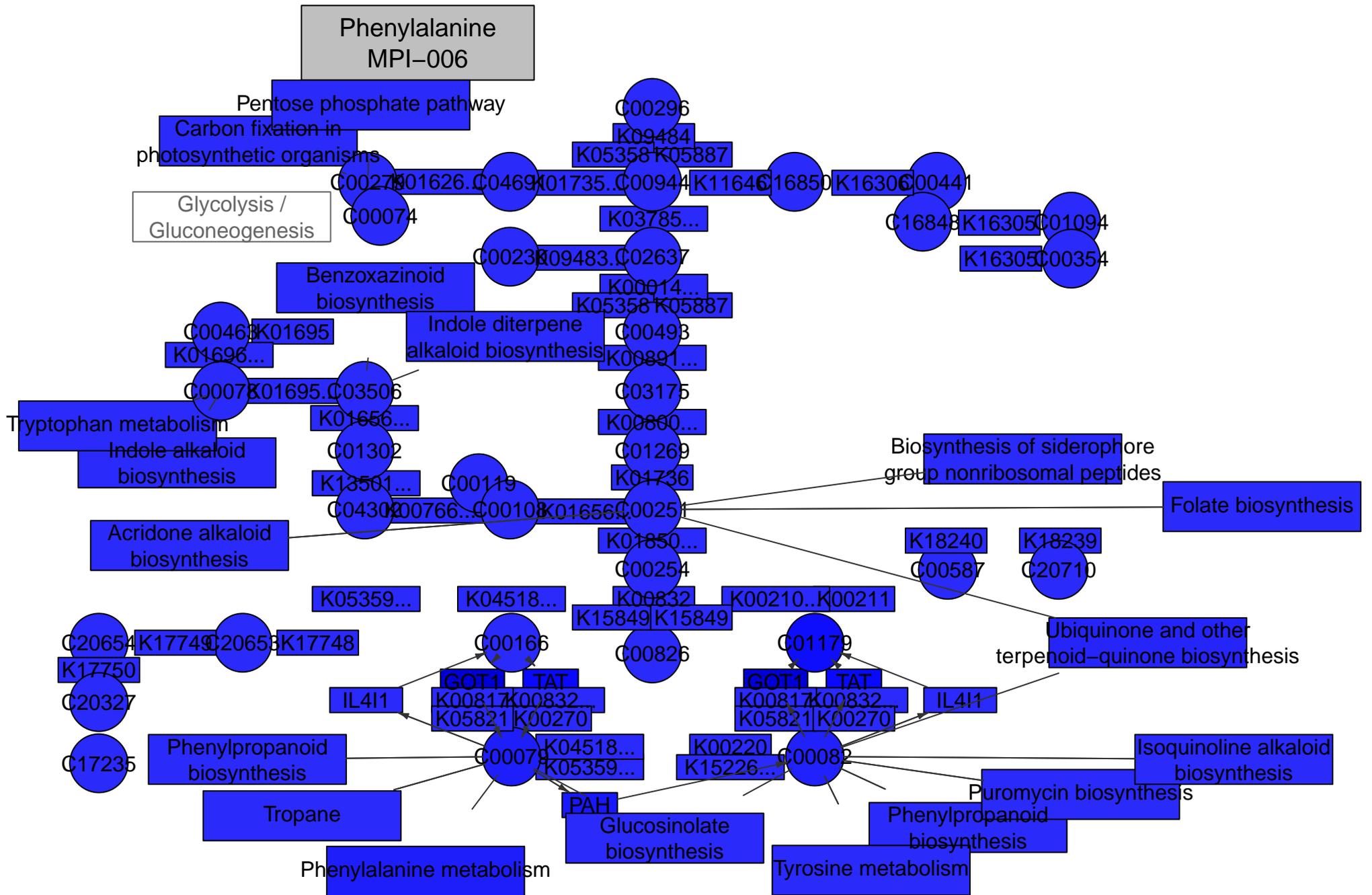
Tyrosine metabolism

Phenylpropanoid biosynthesis

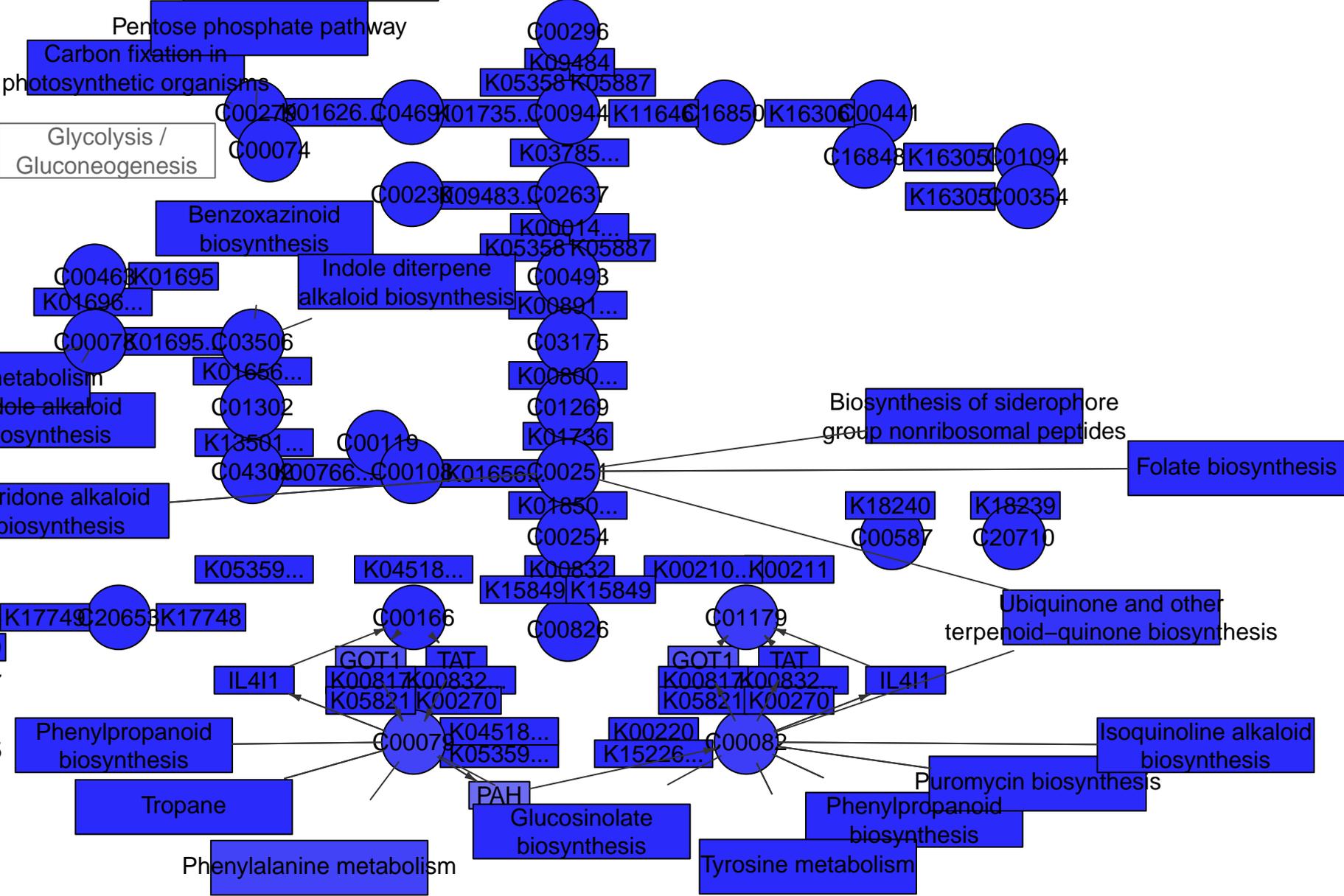
Puromycin biosynthesis

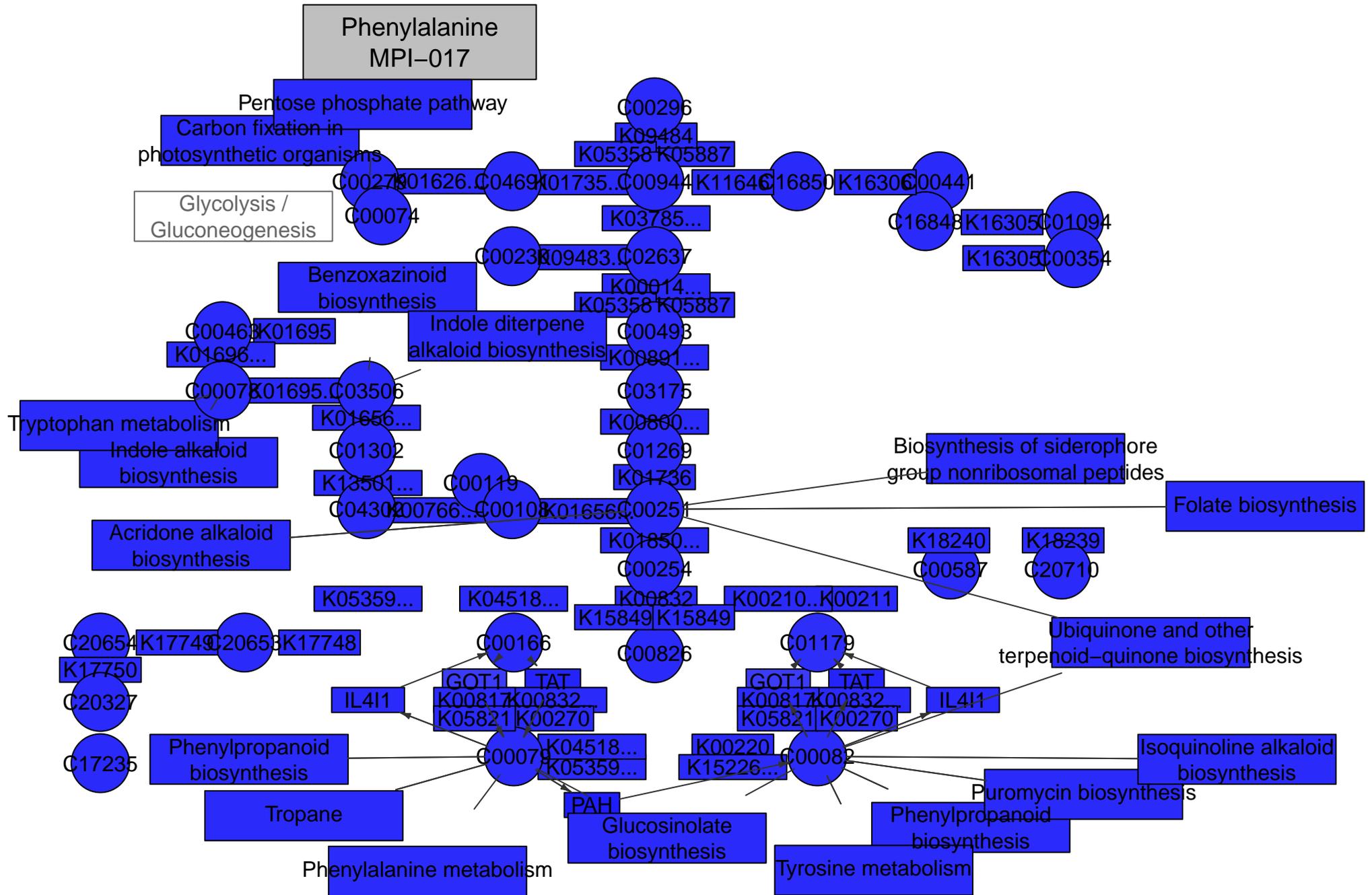
Isoquinoline alkaloid biosynthesis



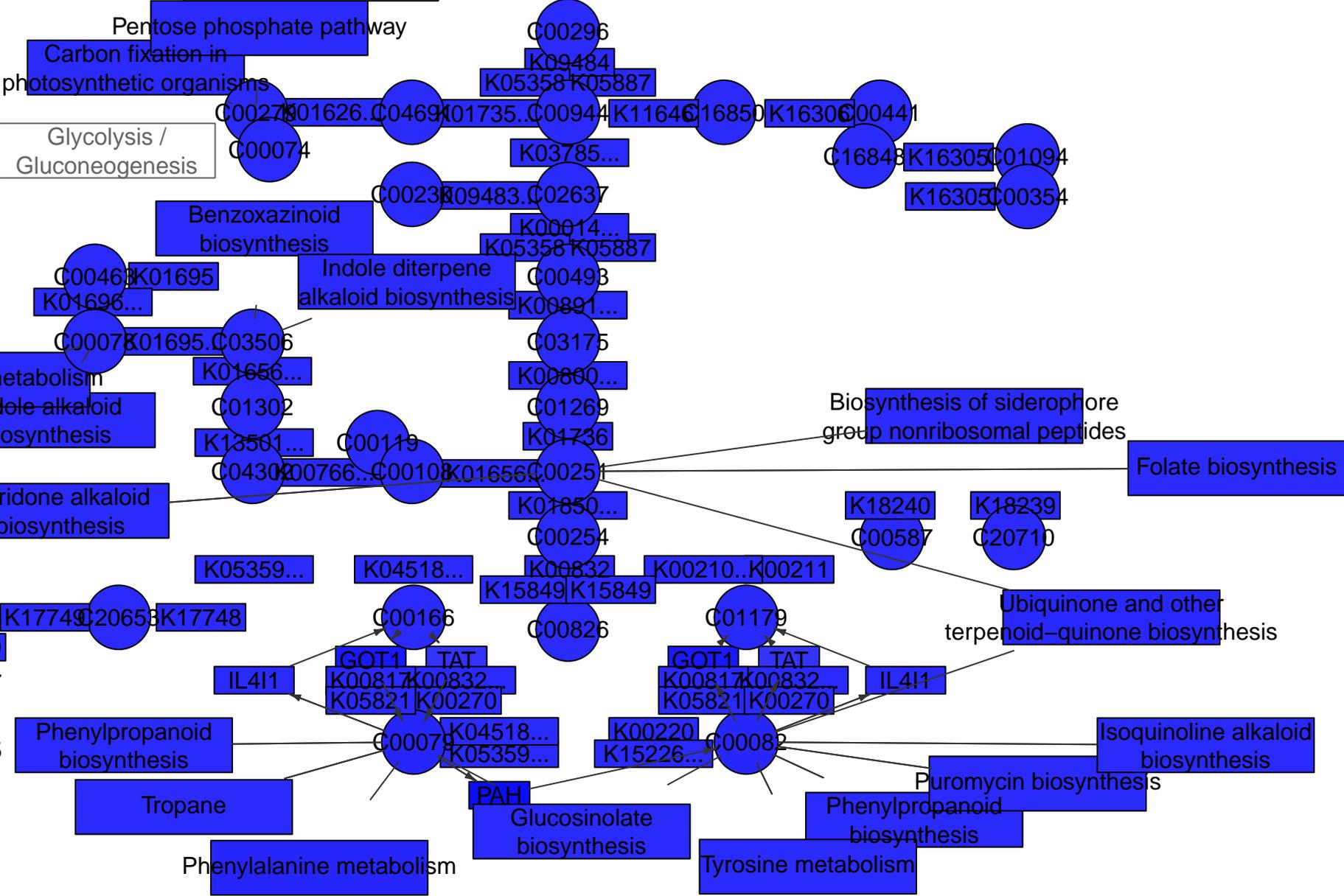


Phenylalanine  
MPI-016

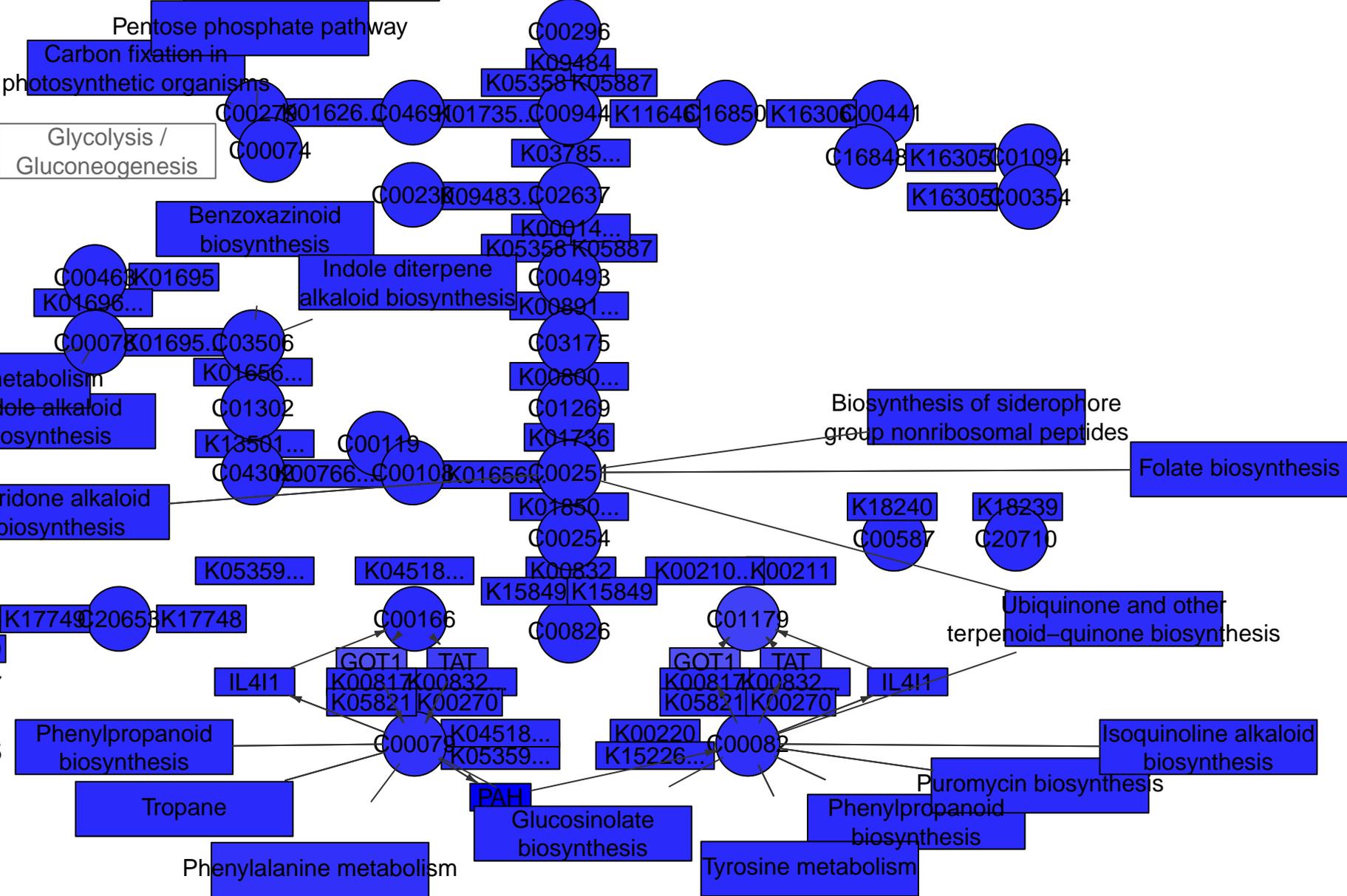




Phenylalanine  
MPI-018



Phenylalanine  
MPI-027



Glycolysis /  
Gluconeogenesis

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Phenylpropanoid  
biosynthesis  
Tropane  
Phenylalanine metabolism

Glucosinolate  
biosynthesis  
PAH

Tyrosine metabolism  
Phenylpropanoid  
biosynthesis

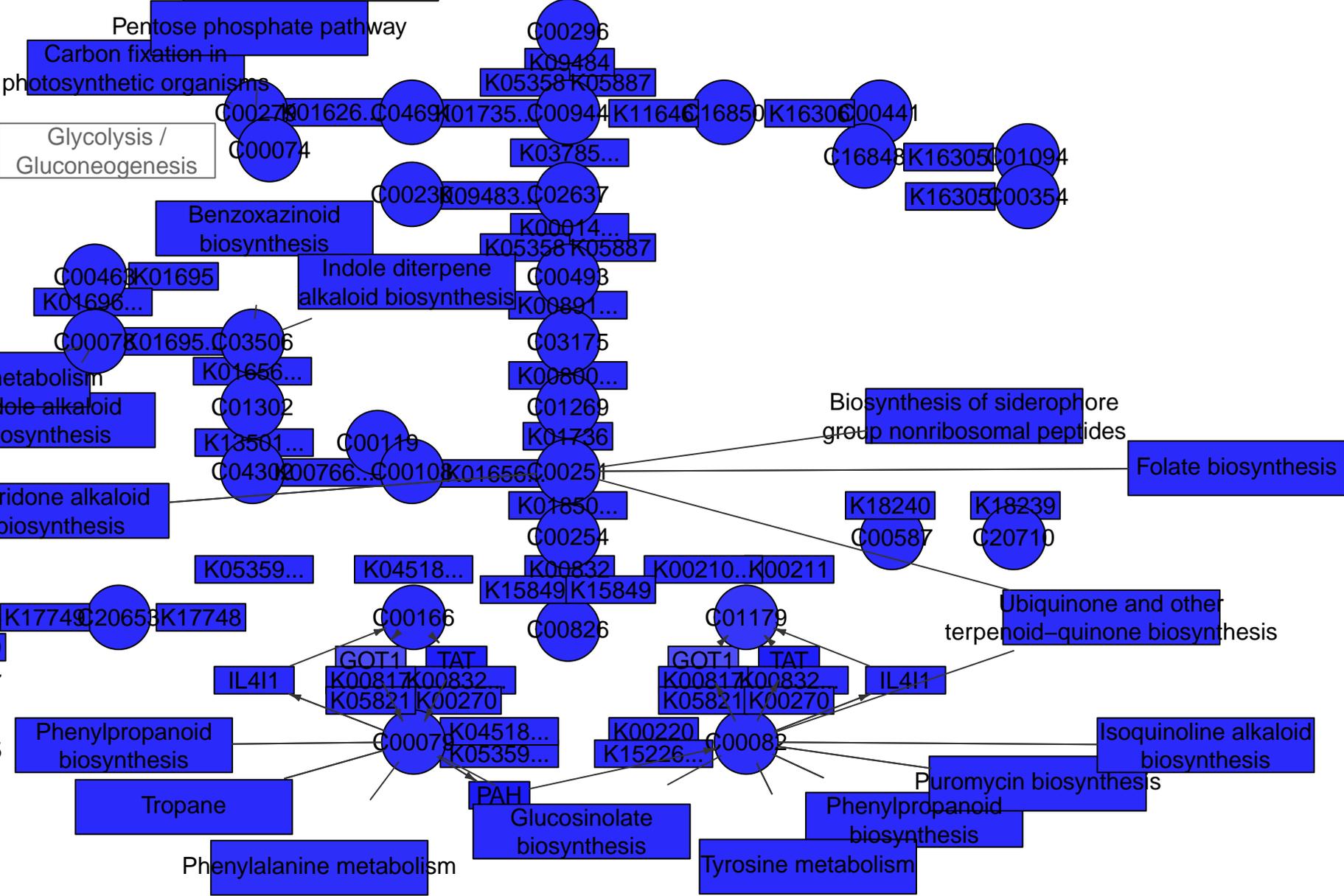
Biosynthesis of siderophore  
group nonribosomal peptides

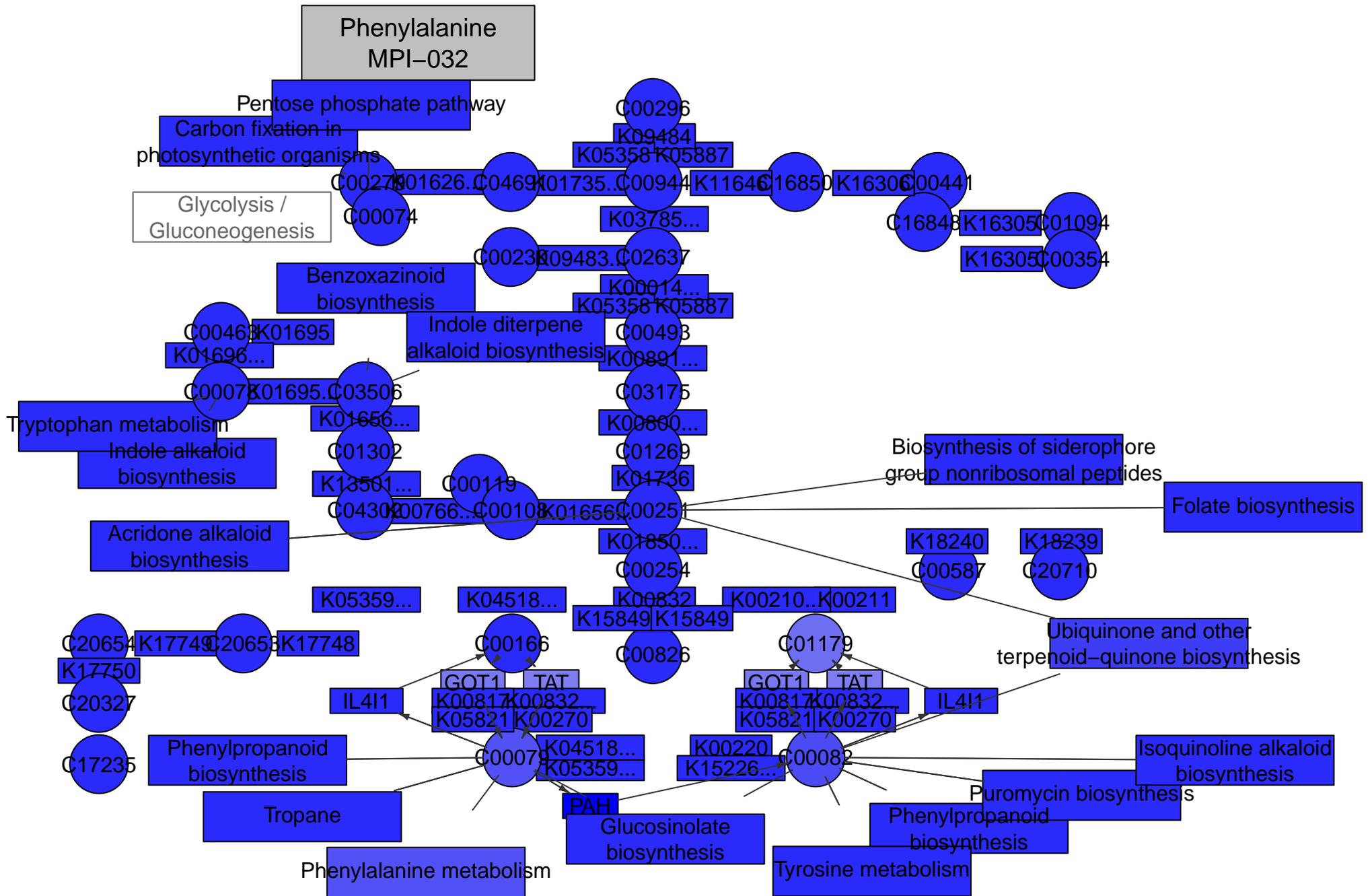
Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

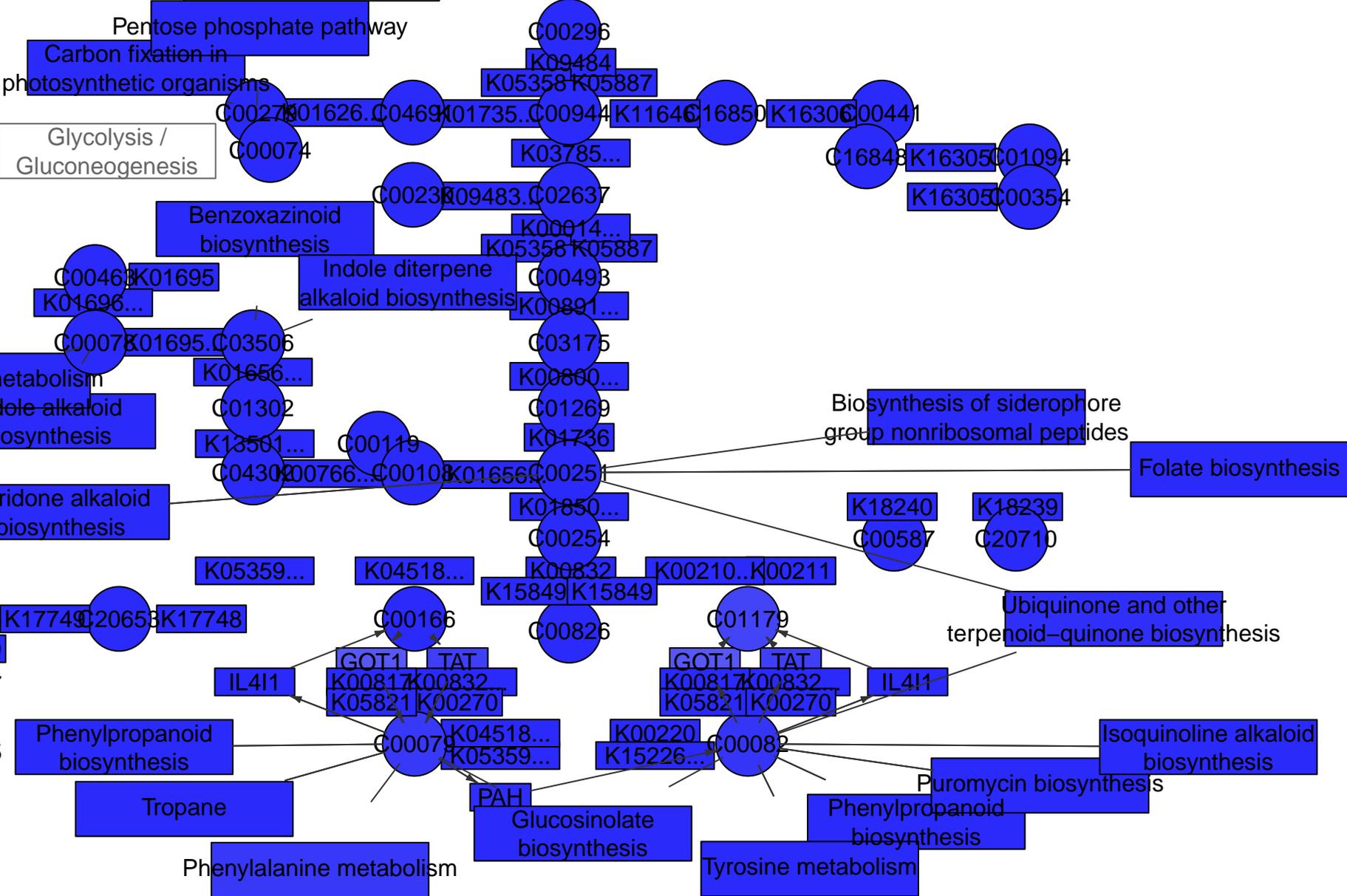
Isoquinoline alkaloid  
biosynthesis  
Puromycin biosynthesis

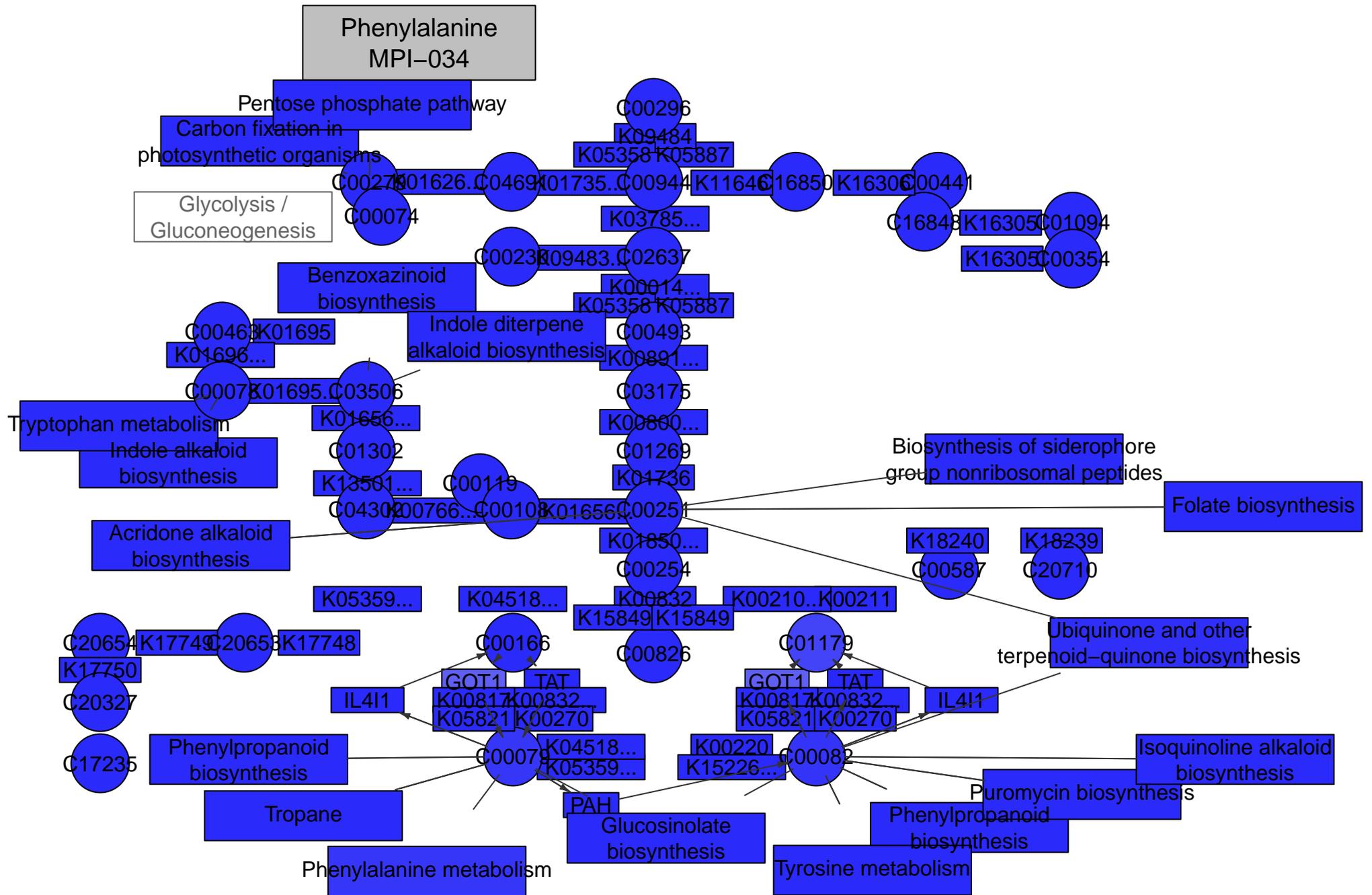
Phenylalanine  
MPI-028



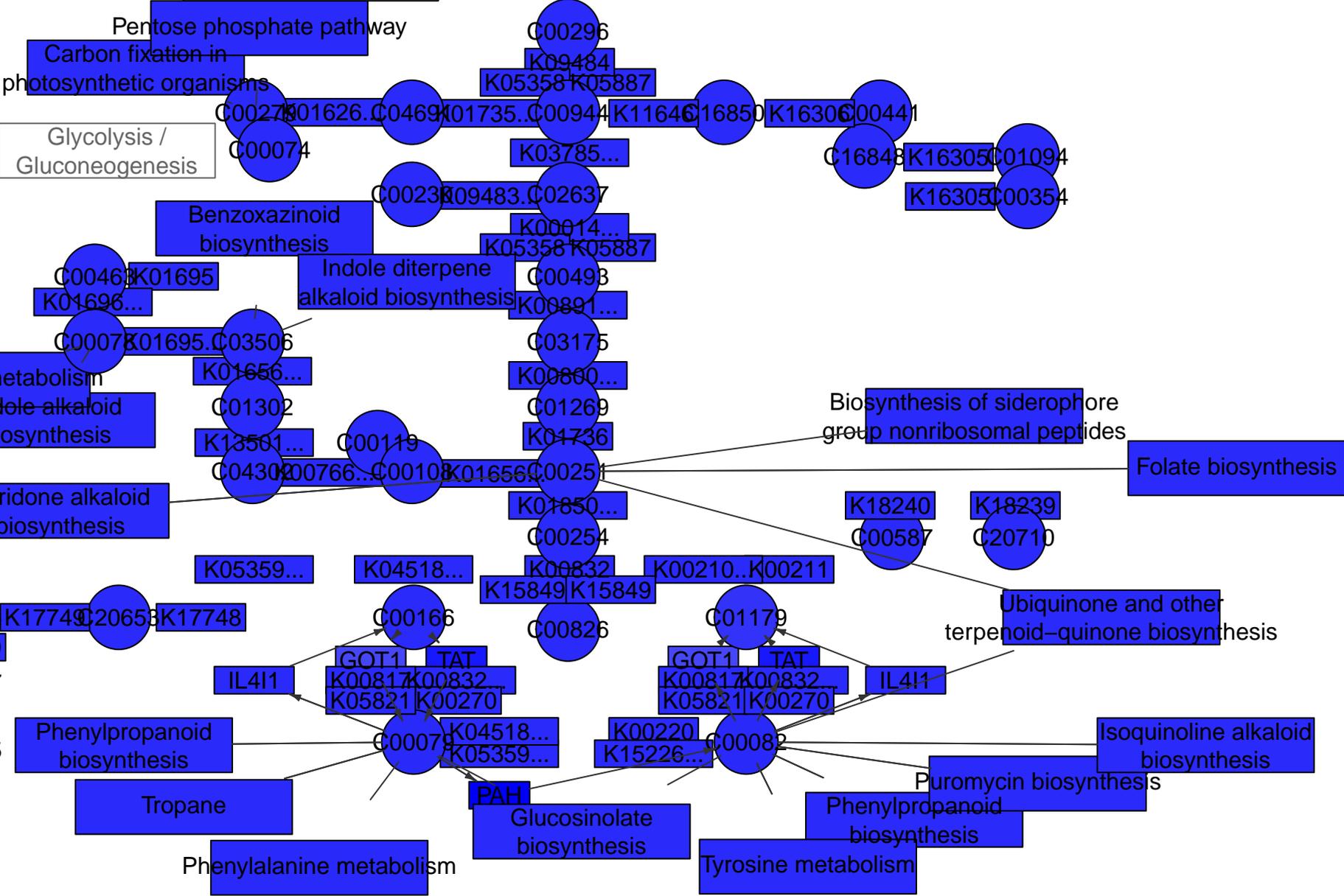


Phenylalanine  
MPI-033

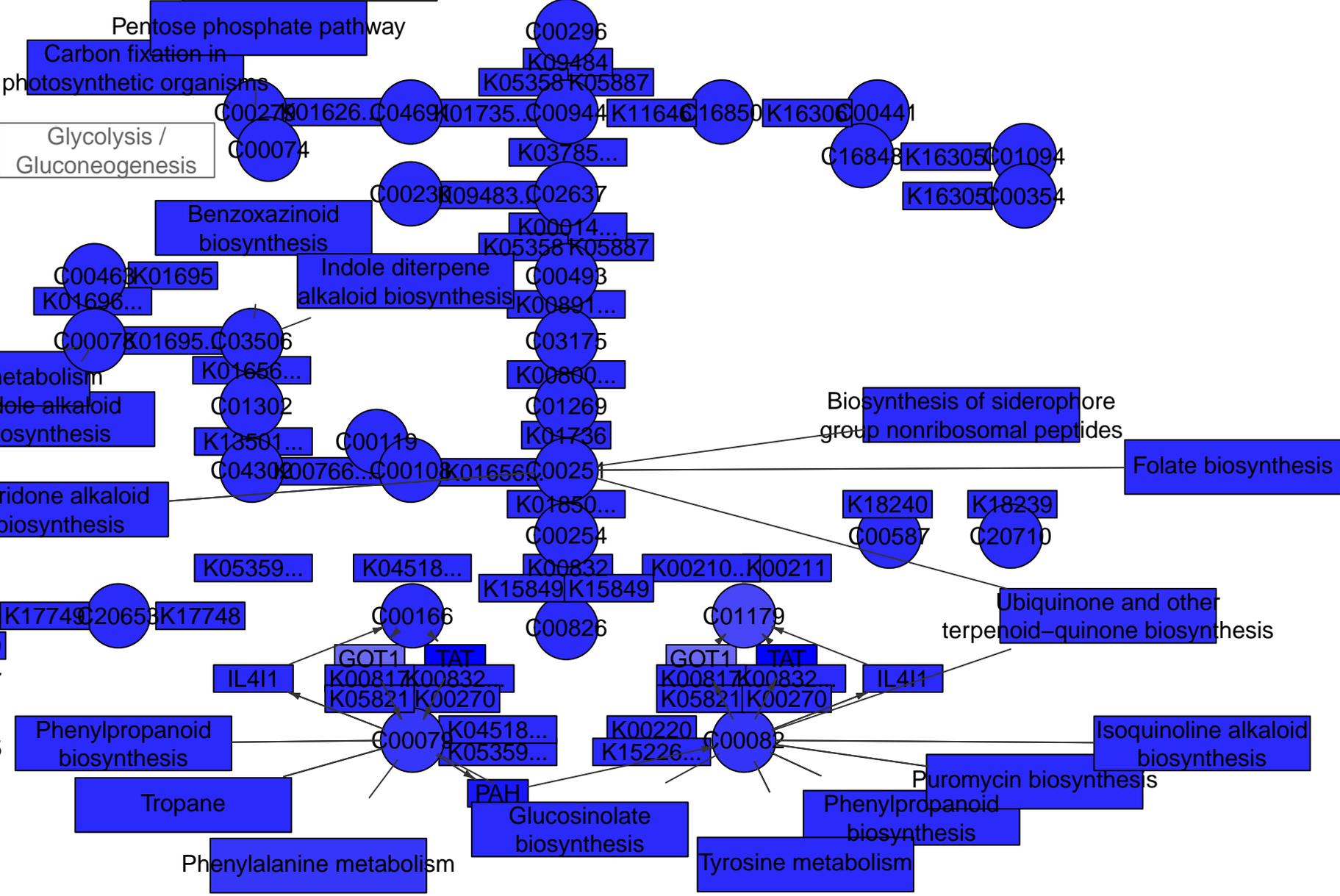




Phenylalanine  
MPI-043



Phenylalanine  
MPI-044



Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropine

Phenylalanine metabolism

PAH  
Glucosinolate  
biosynthesis

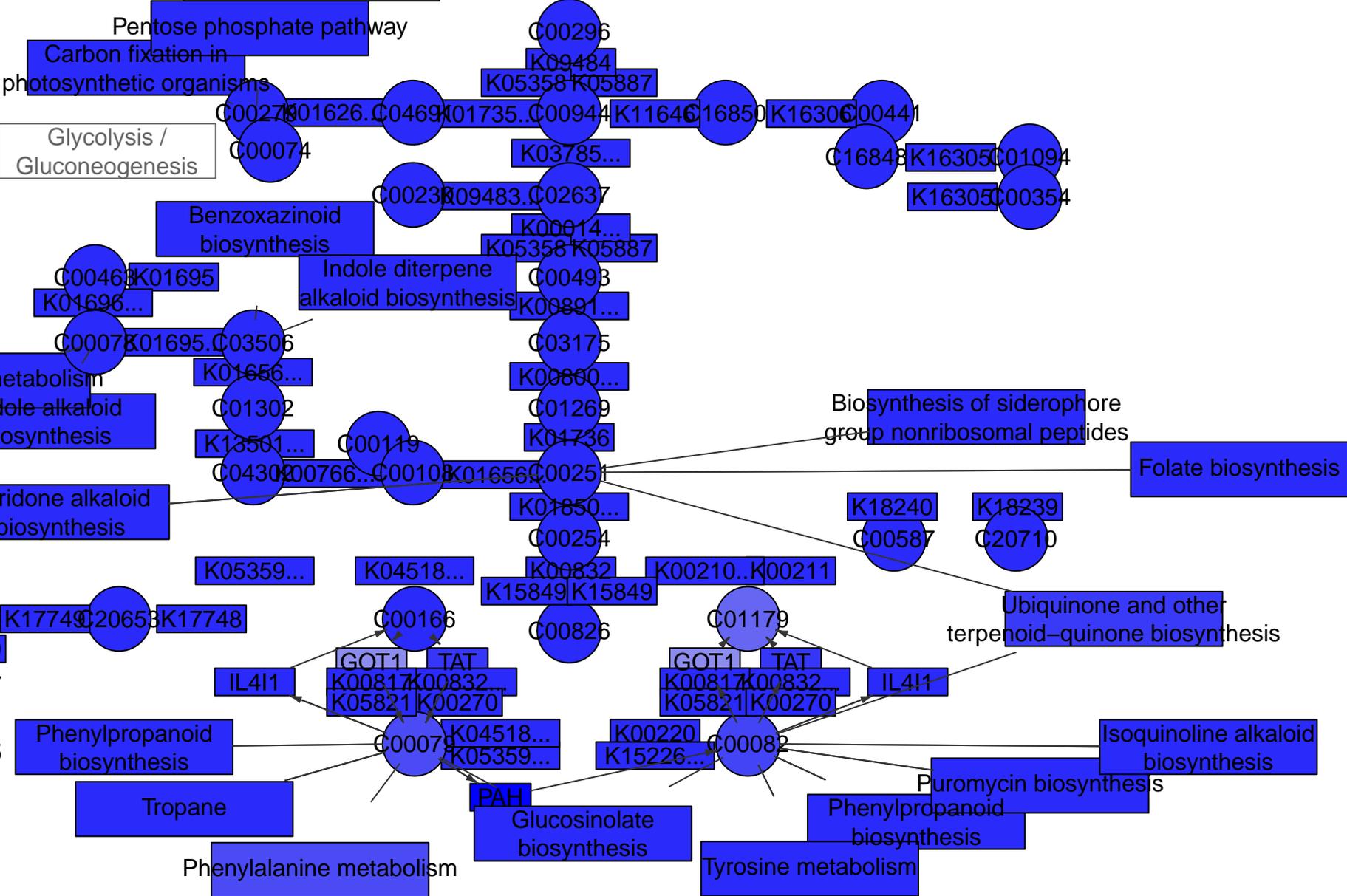
Tyrosine metabolism

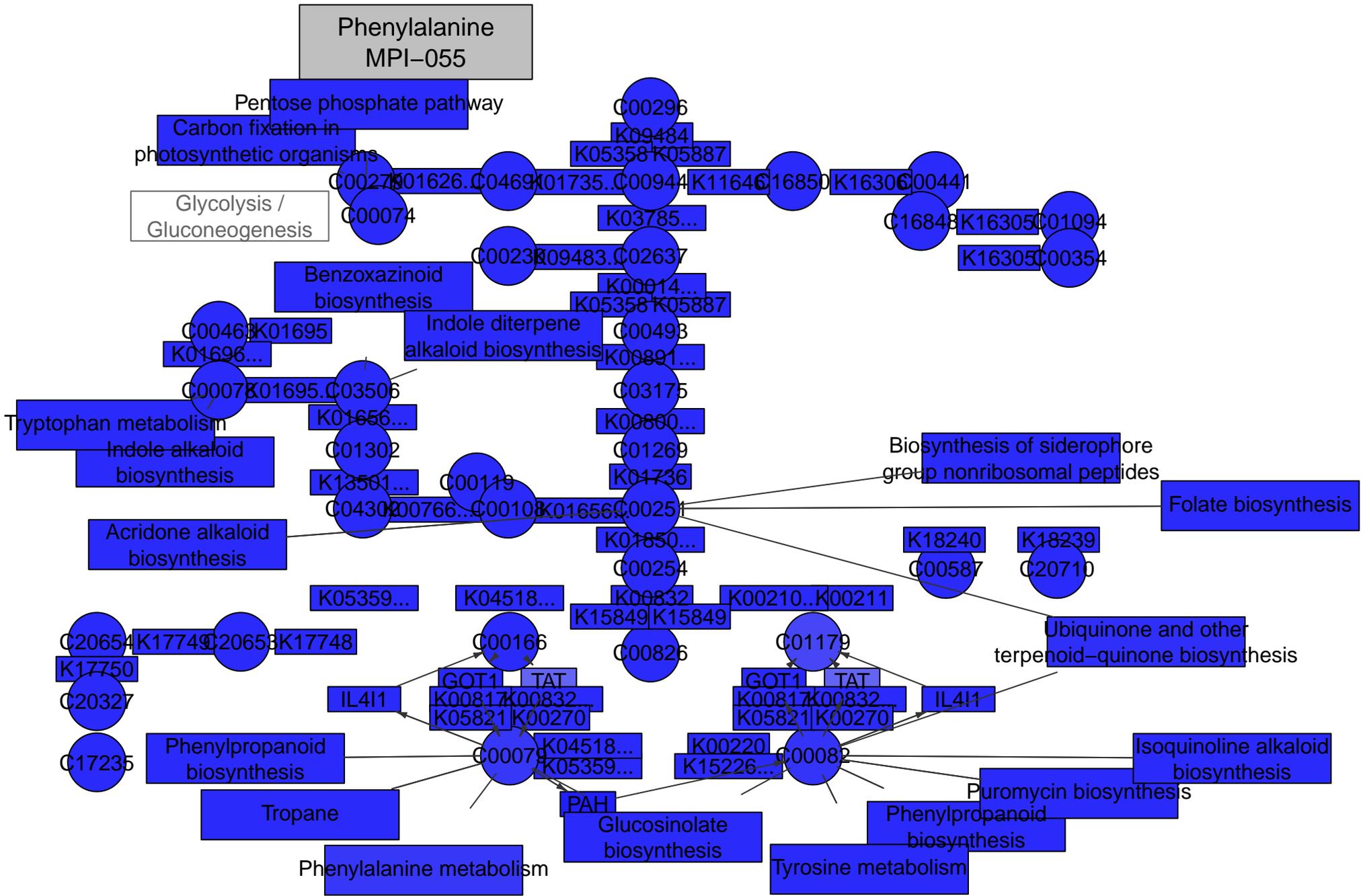
Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

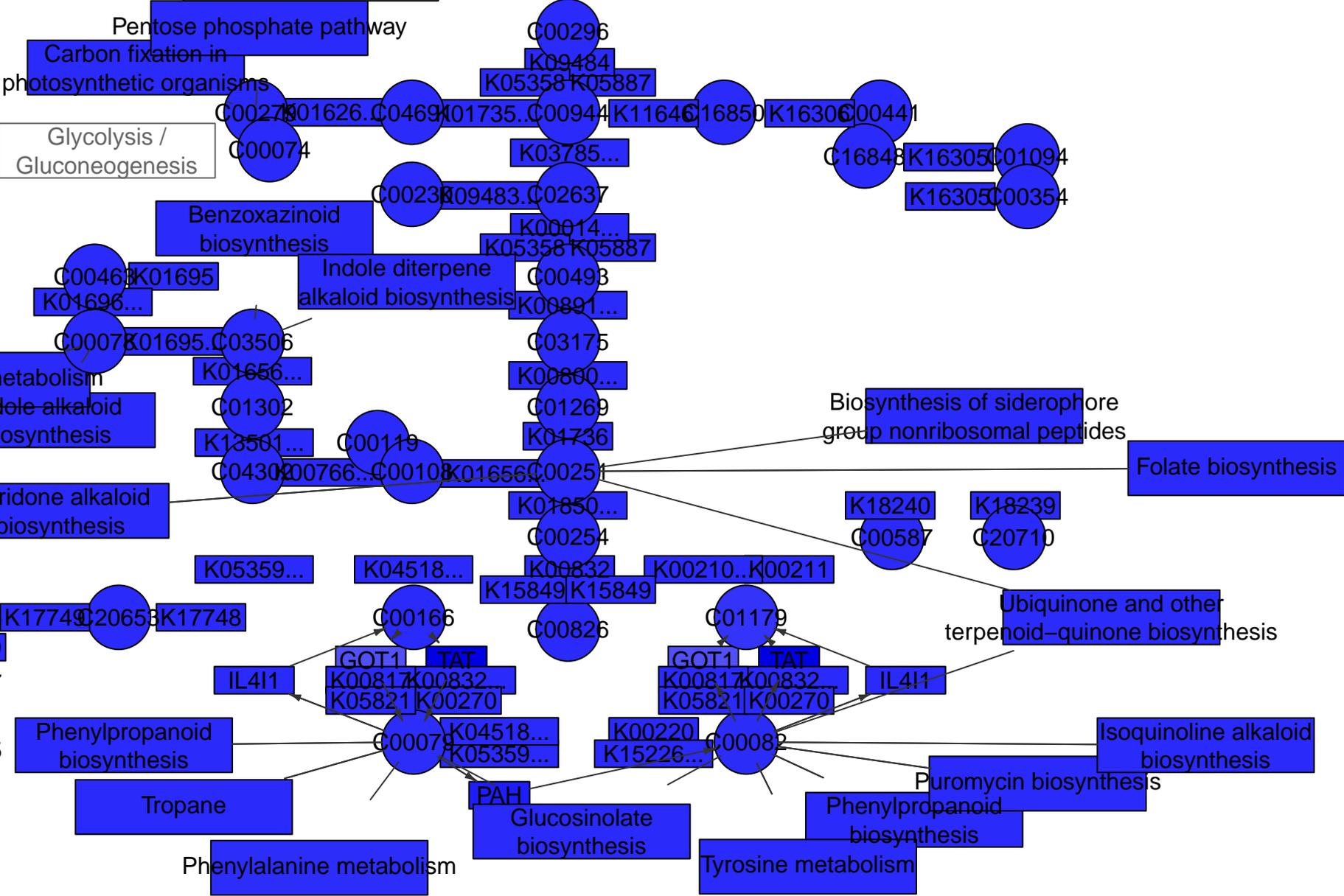
Isoquinoline alkaloid  
biosynthesis

Phenylalanine  
MPI-048

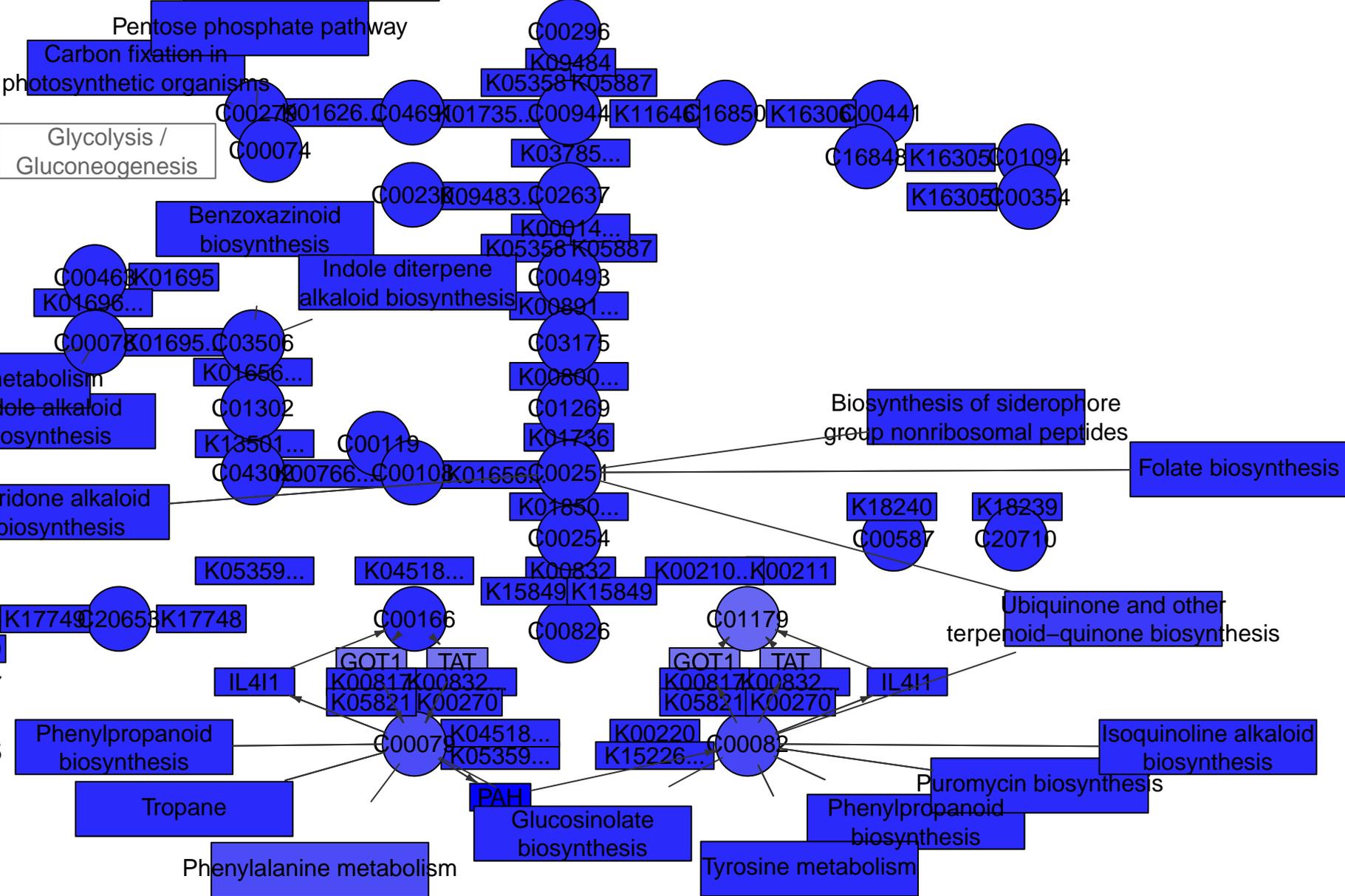


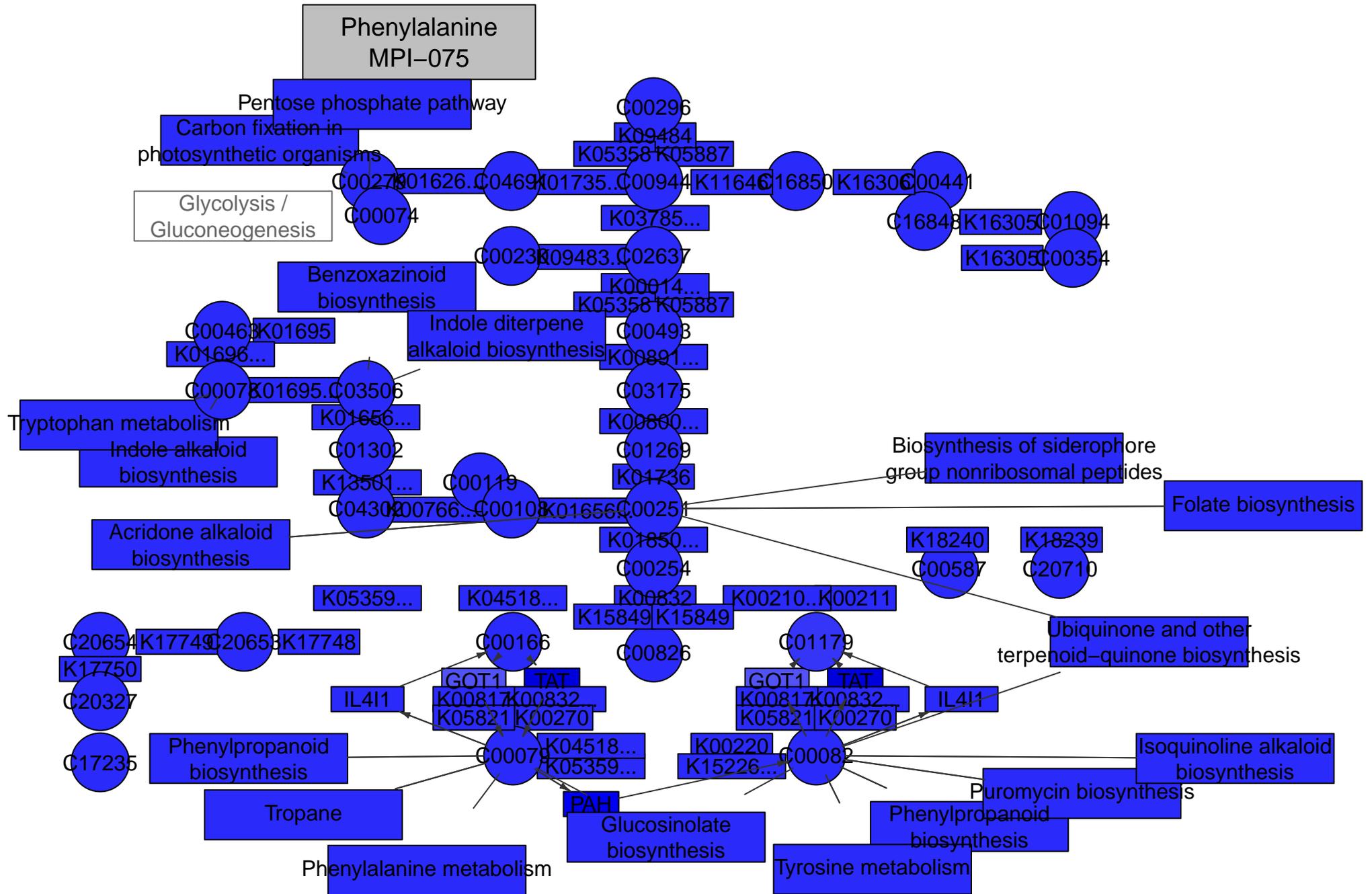


Phenylalanine  
MPI-065

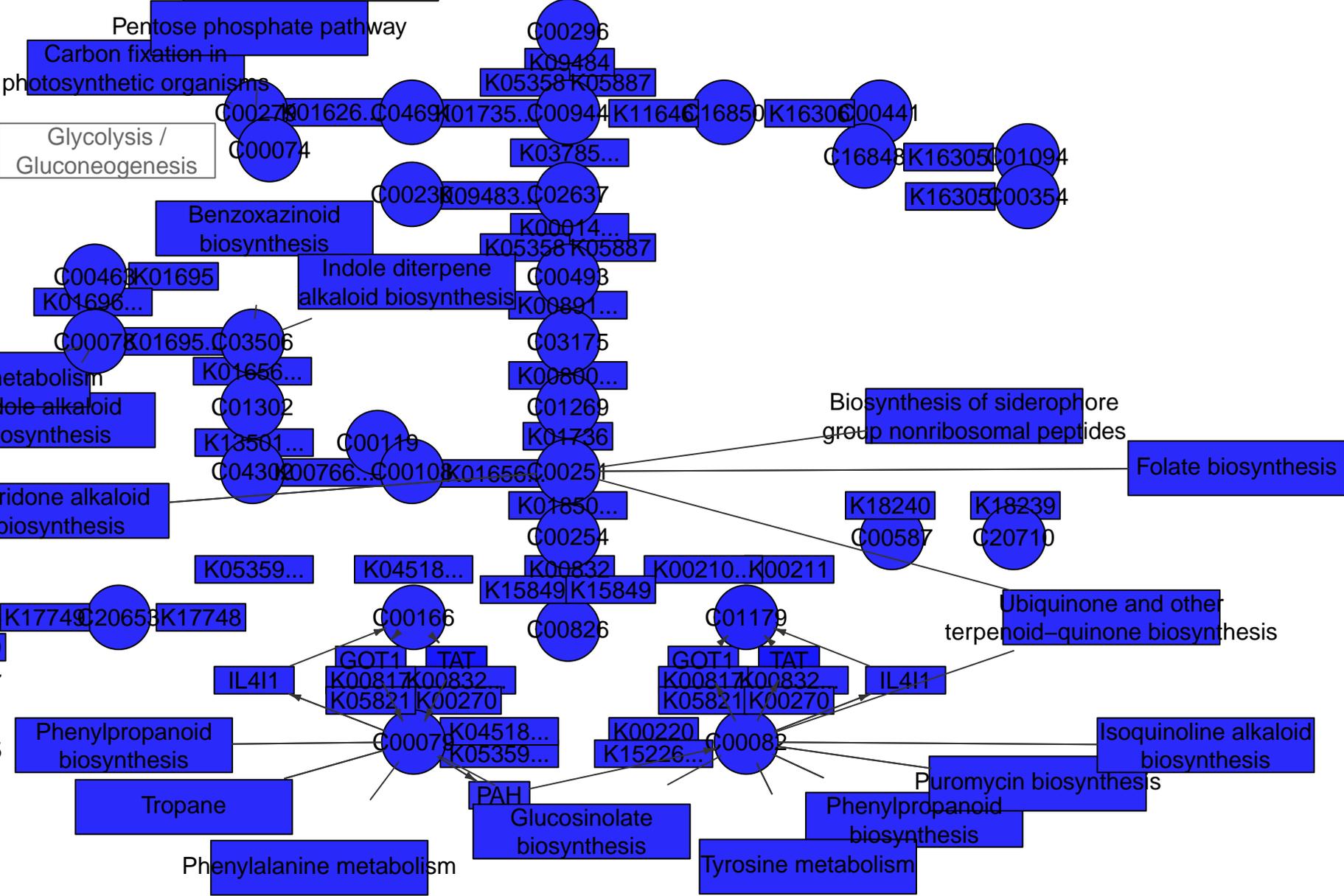


Phenylalanine MPI-071

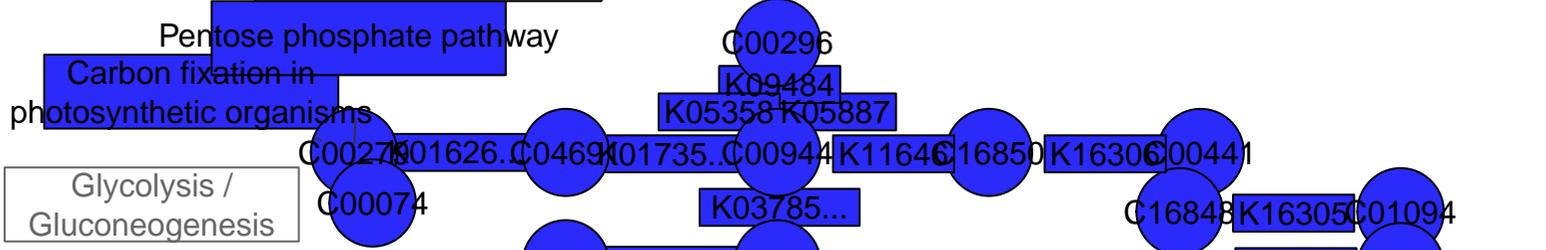




Phenylalanine  
MPI-077



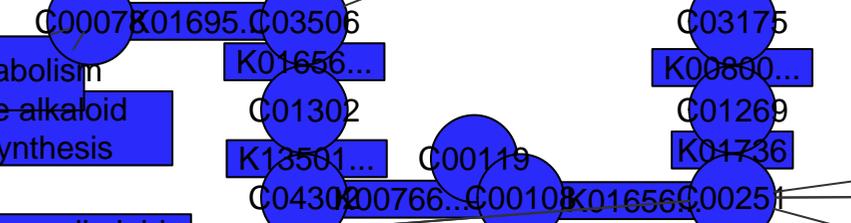
Phenylalanine  
MPI-078



Benzoxazinoid biosynthesis



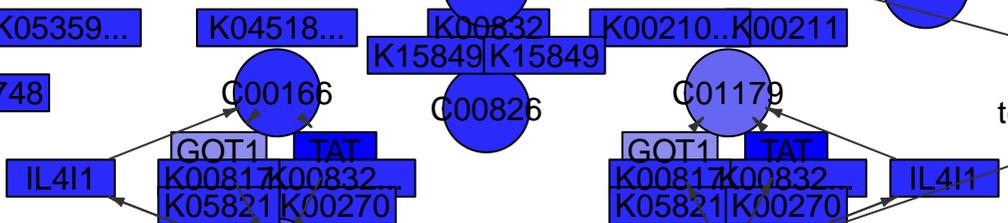
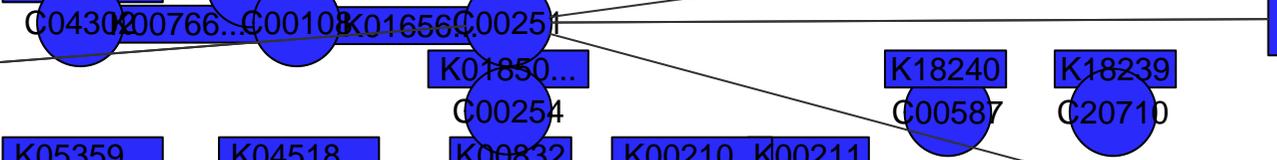
Tryptophan metabolism  
Indole alkaloid biosynthesis



Biosynthesis of siderophore group nonribosomal peptides

Folate biosynthesis

Acridone alkaloid biosynthesis



Ubiquinone and other terpenoid-quinone biosynthesis

Phenylpropanoid biosynthesis

Tropane

Phenylalanine metabolism

Glucosinolate biosynthesis

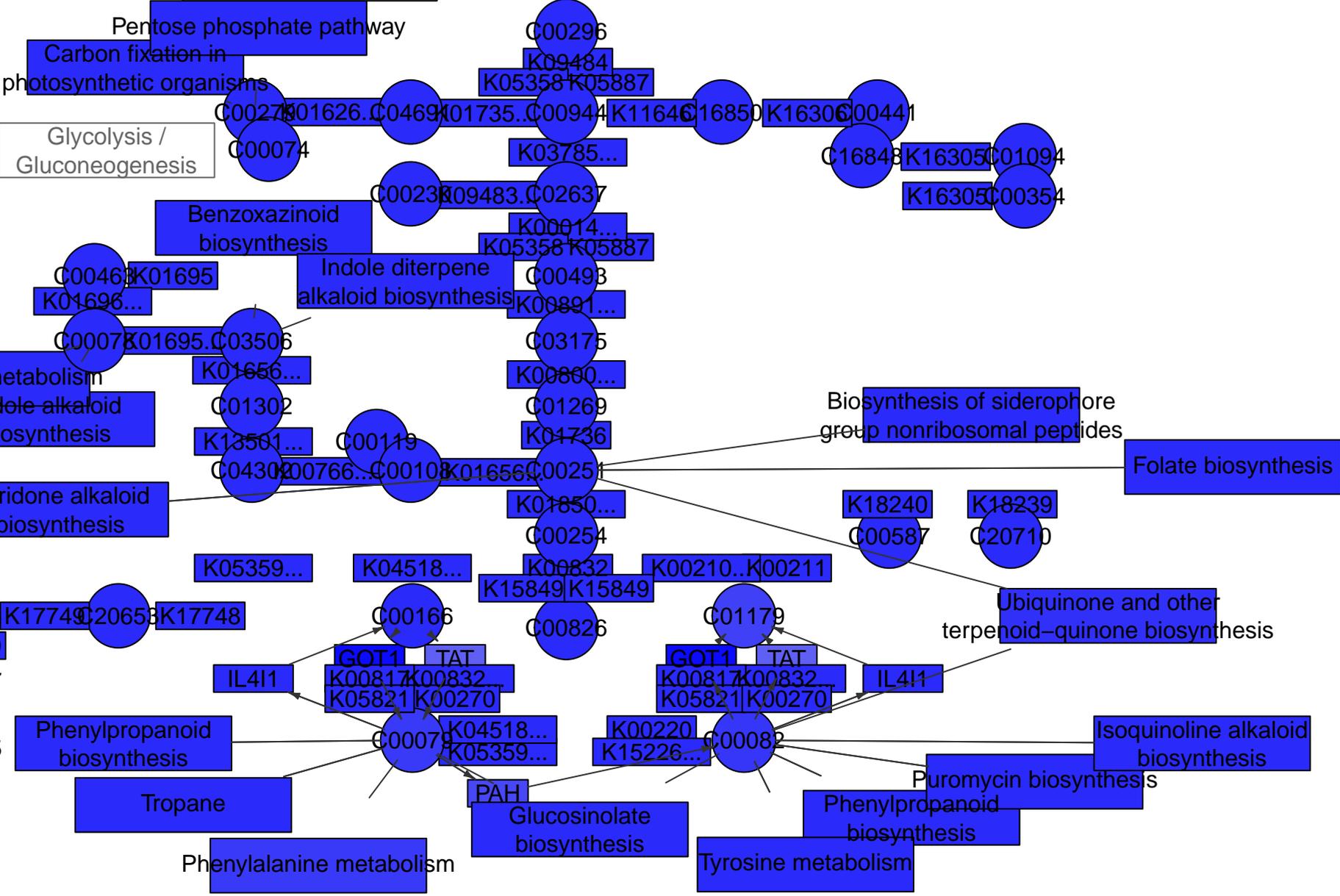
Tyrosine metabolism

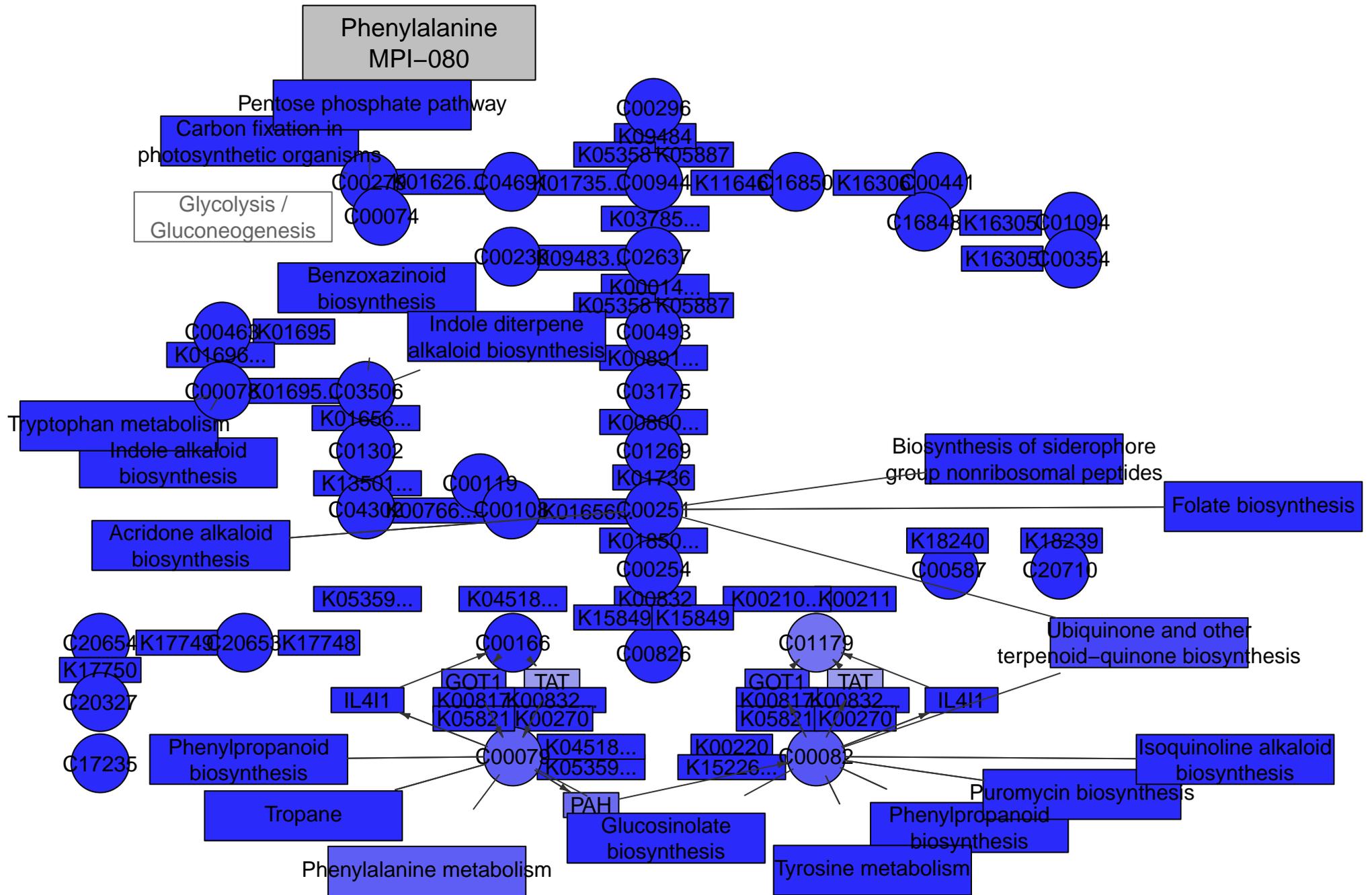
Phenylpropanoid biosynthesis

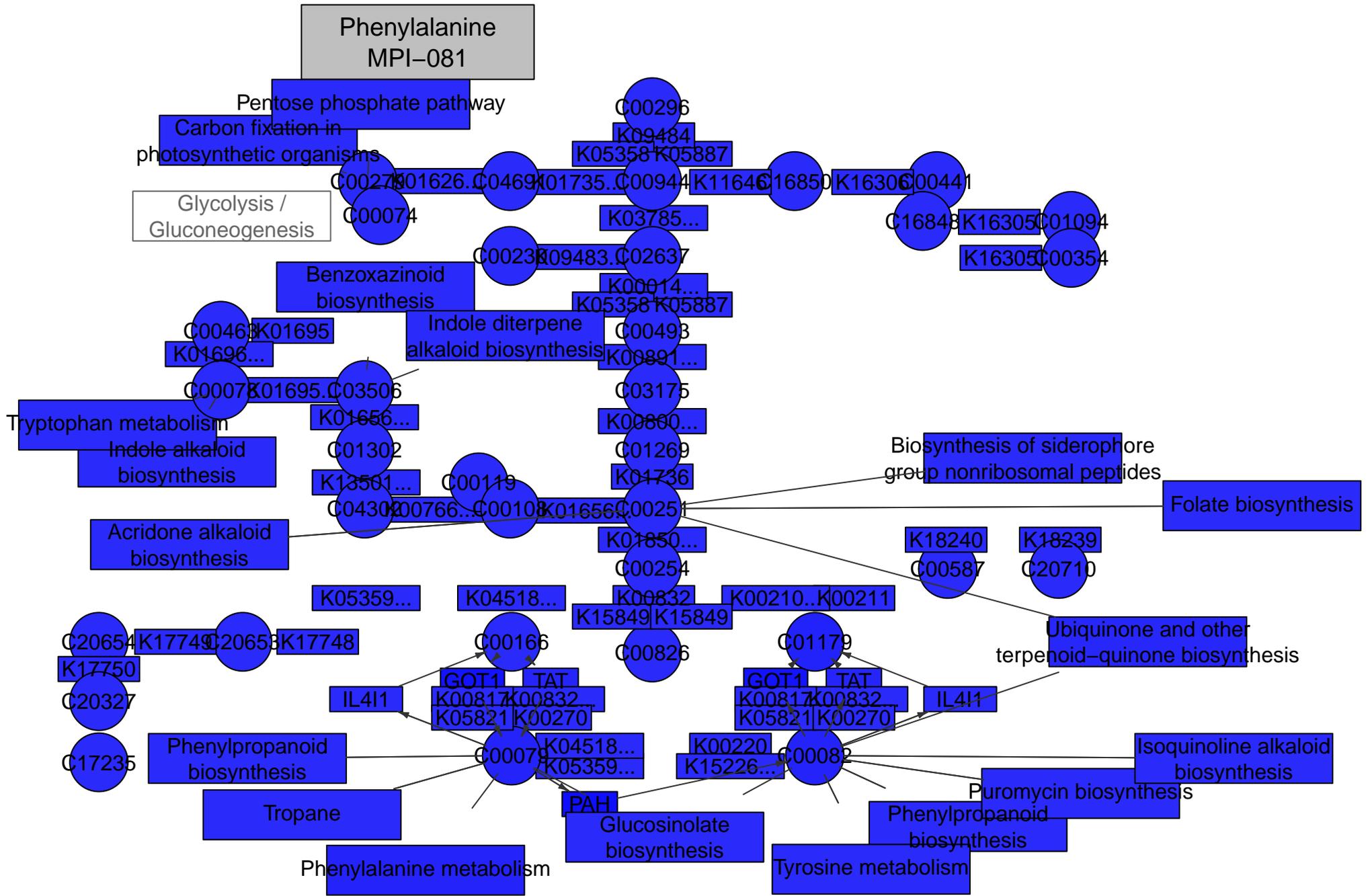
Puromycin biosynthesis

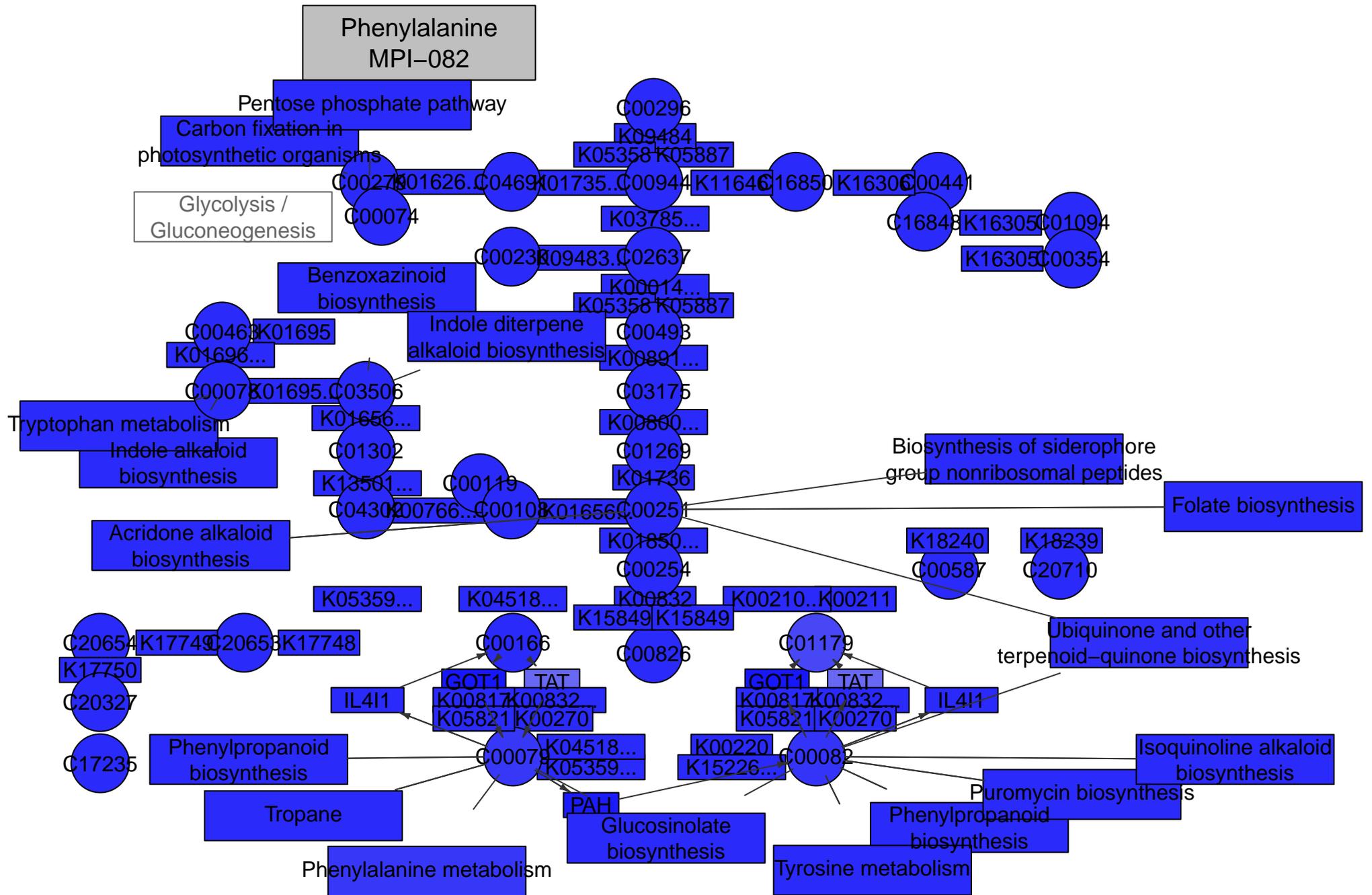
Isoquinoline alkaloid biosynthesis

Phenylalanine  
MPI-079









Phenylalanine  
MPI-084

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Folate biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

PAH  
Glucosinolate  
biosynthesis

Tyrosine metabolism

Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis

C00296

K09484

K05358 K05887

C00274 C01626 C0469

K01735 C00944

K11646 C16850

K16306 C00441

C00074

K03785...

C16848

K16305

C01094

C00238

K09483

C02637

K00014...

K05358 K05887

K16305

C00354

C00468

K01695

C00493

K00891...

K01696...

C00078

K01695

C03506

C03175

K00800...

Tryptophan metabolism

K01656...

C01269

K01736

Indole alkaloid  
biosynthesis

C01302

K13501...

C00119

C00251

Biosynthesis of siderophore  
group nonribosomal peptides

C04302

C00766...

C00108

K01656

C00251

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Acridone alkaloid  
biosynthesis

C00108

C00766...

C00108

K01656

C00251

K01850...

K18240

C00587

C20710

Folate biosynthesis

K05359...

K04518...

K00832

K00210..K00211

K18240

C00587

C20710

Folate biosynthesis

C20654

K17749

C20653

K17748

C00166

C00826

C01179

K17750

C20327

IL411

GOT1

TAT

K00817 K00832

K05821 K00270

GOT1

TAT

K00817 K00832

K05821 K00270

IL411

Ubiquinone and other  
terpenoid-quinone biosynthesis

C17235

Phenylpropanoid  
biosynthesis

C00079

K04518...

K05359...

K00220

K15226...

C00082

C00082

C00082

Isoquinoline alkaloid  
biosynthesis

Tropane

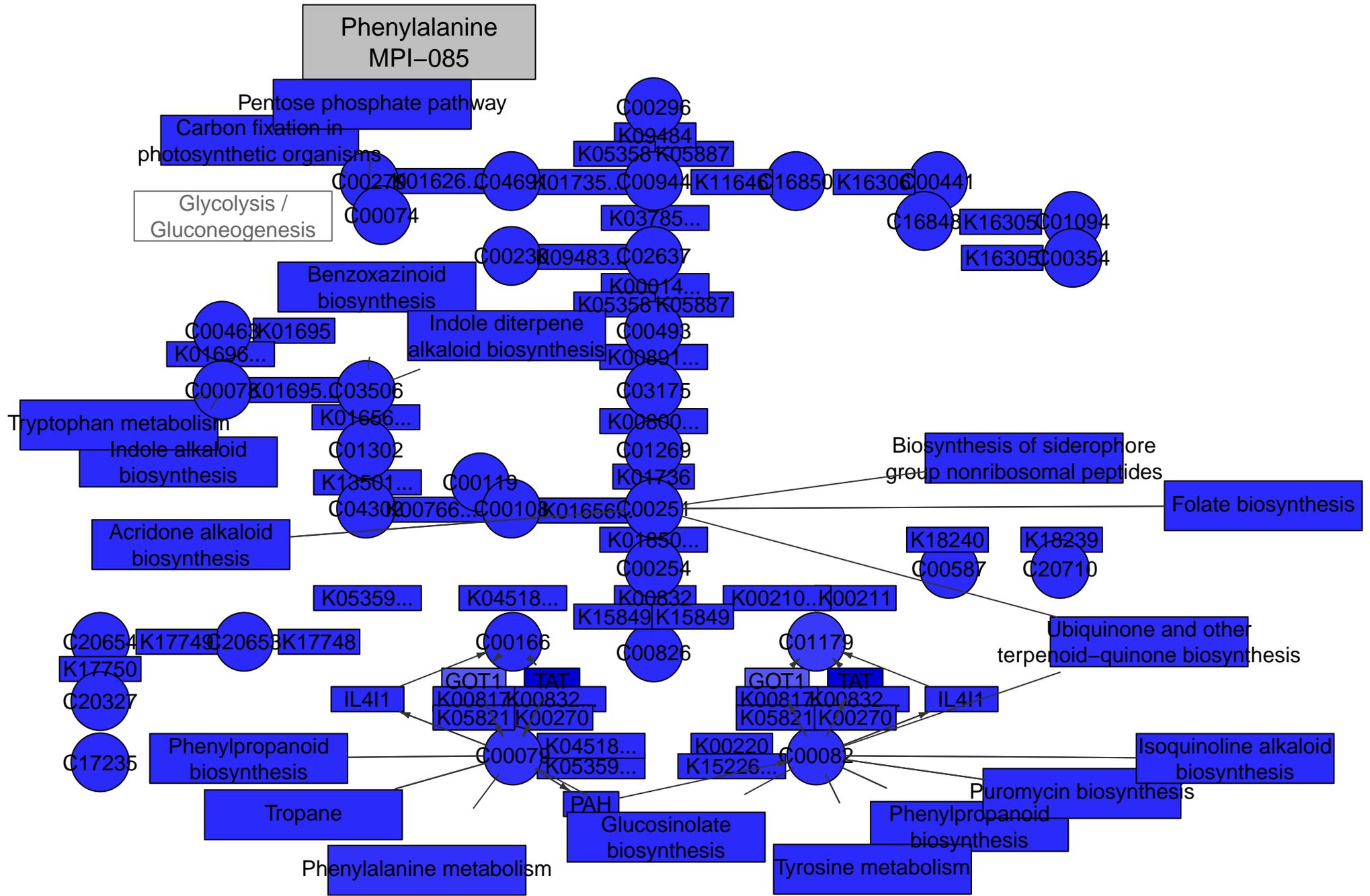
PAH  
Glucosinolate  
biosynthesis

Tyrosine metabolism

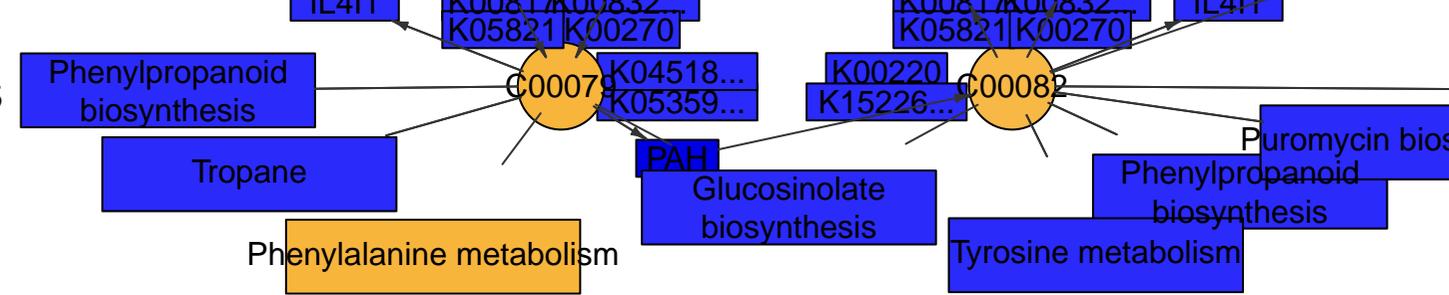
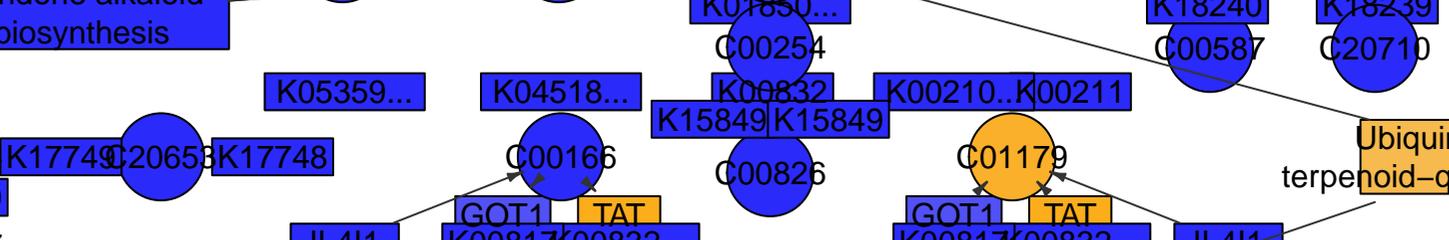
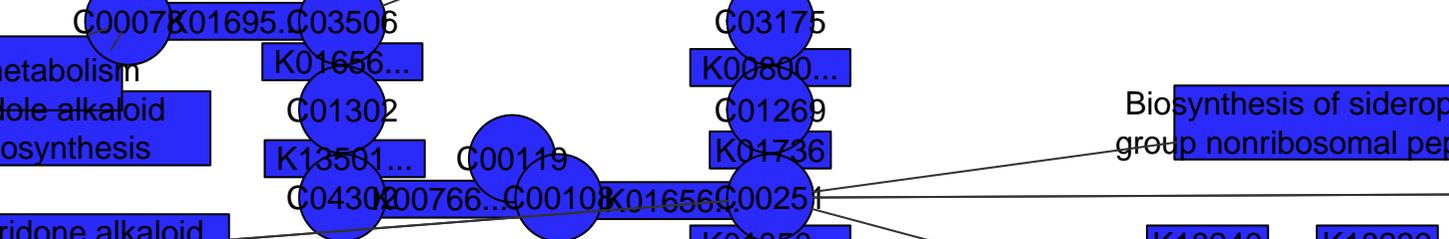
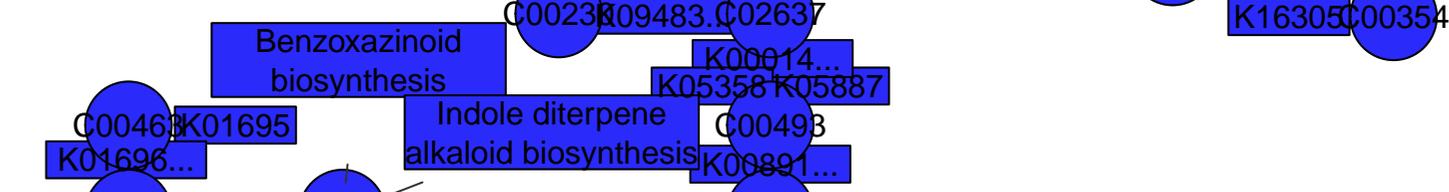
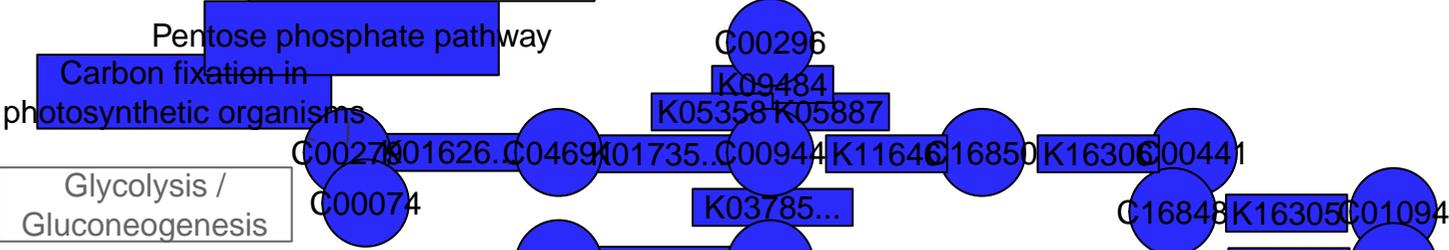
Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis

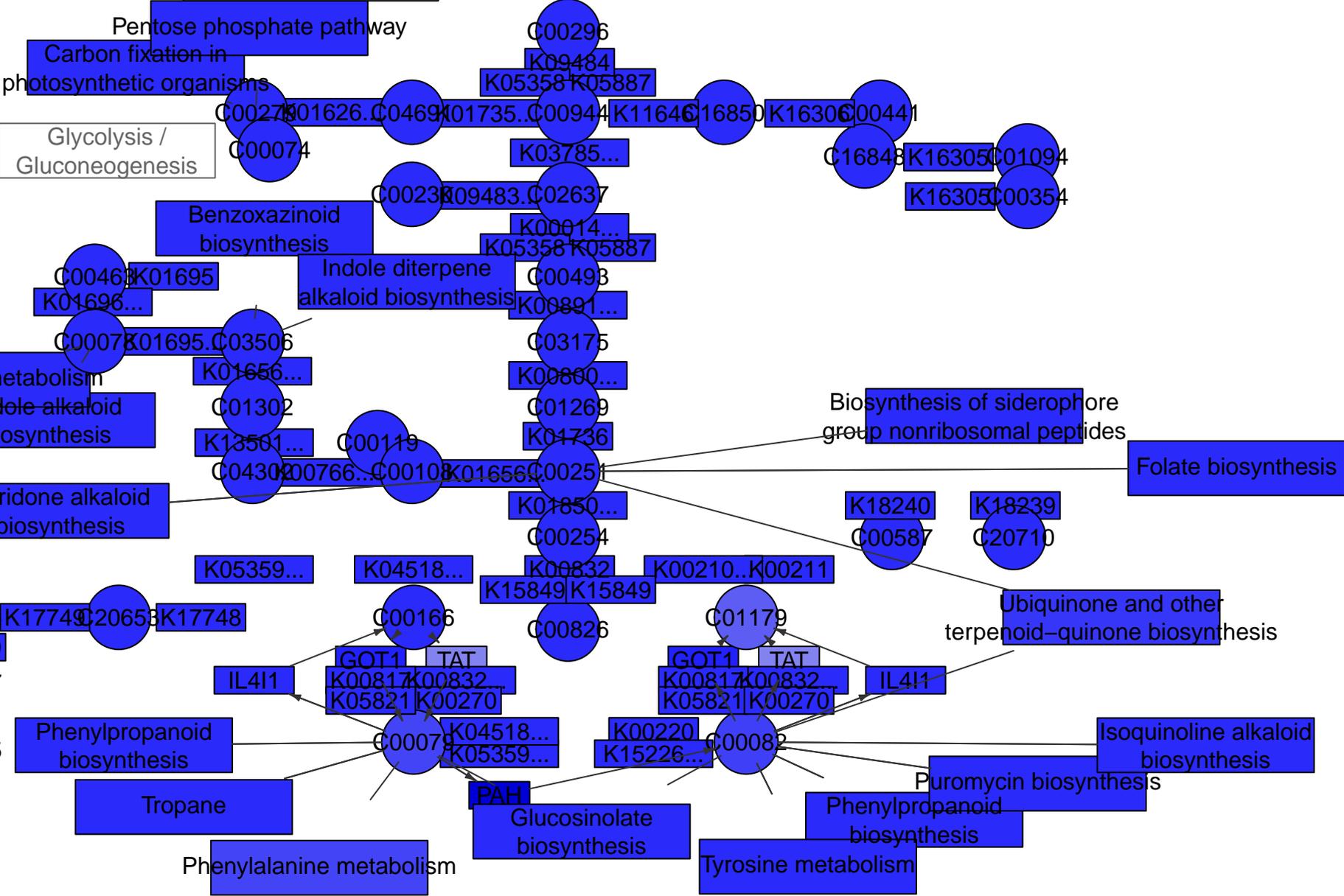


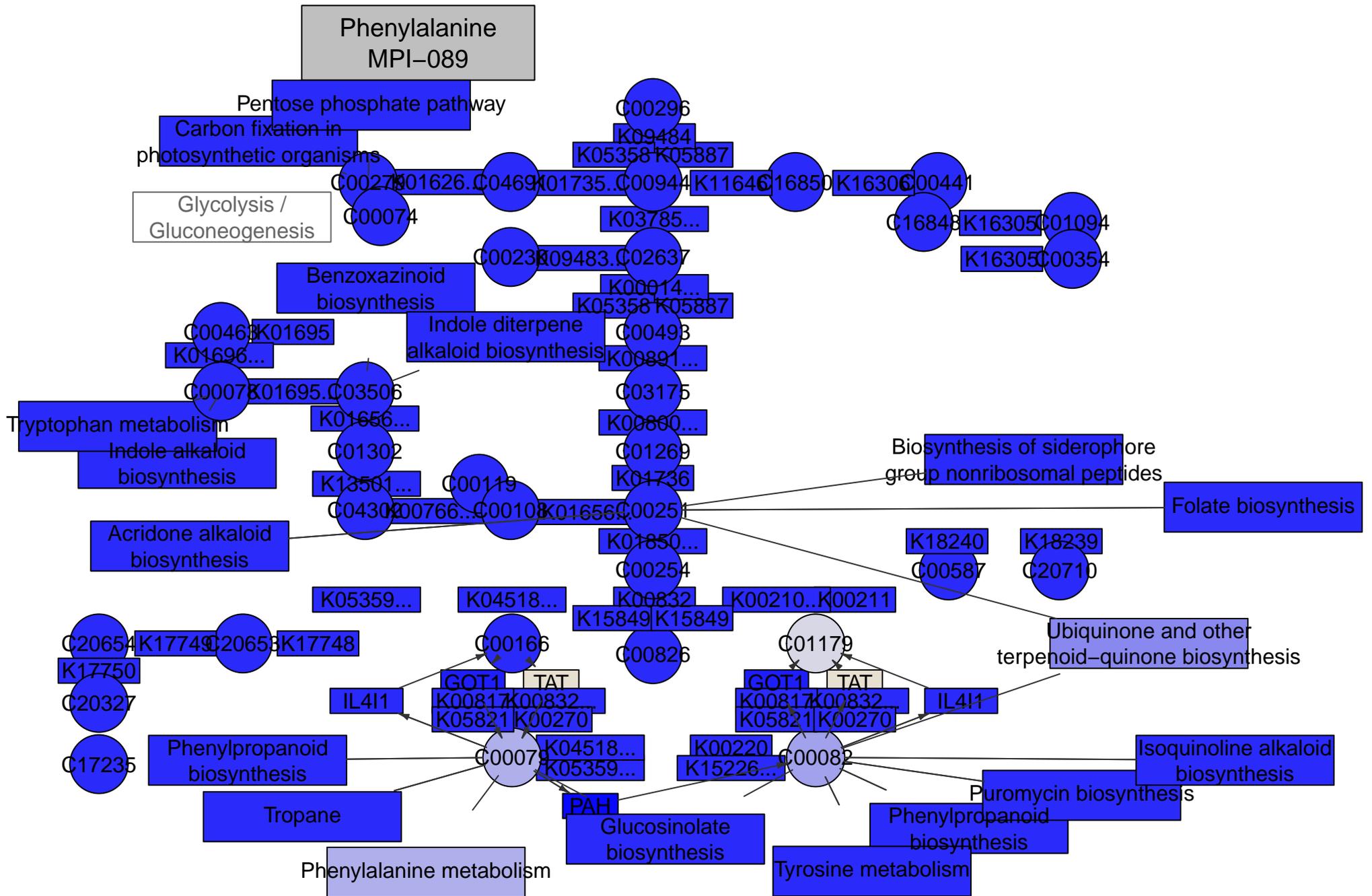
Phenylalanine  
MPI-086

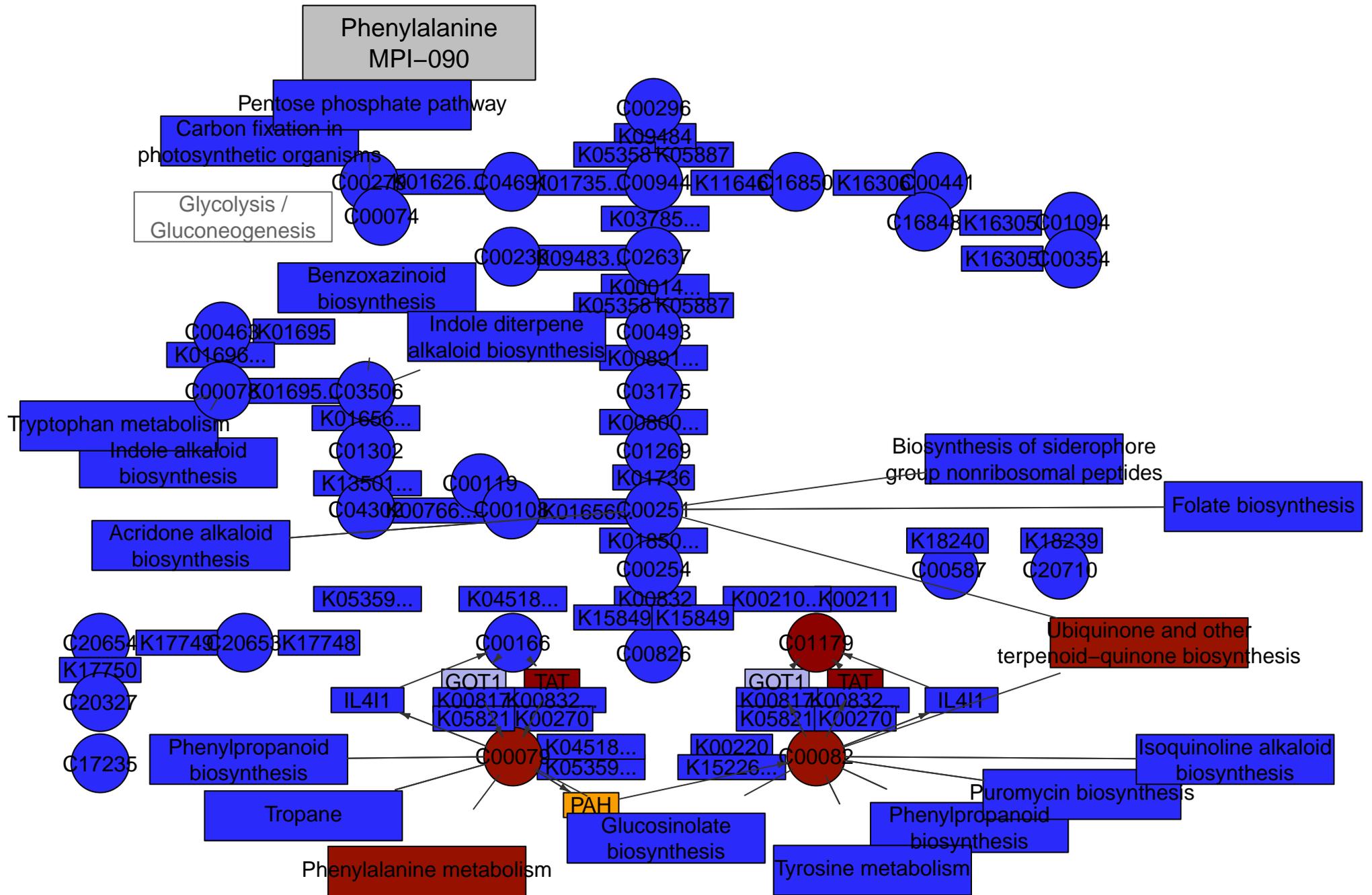


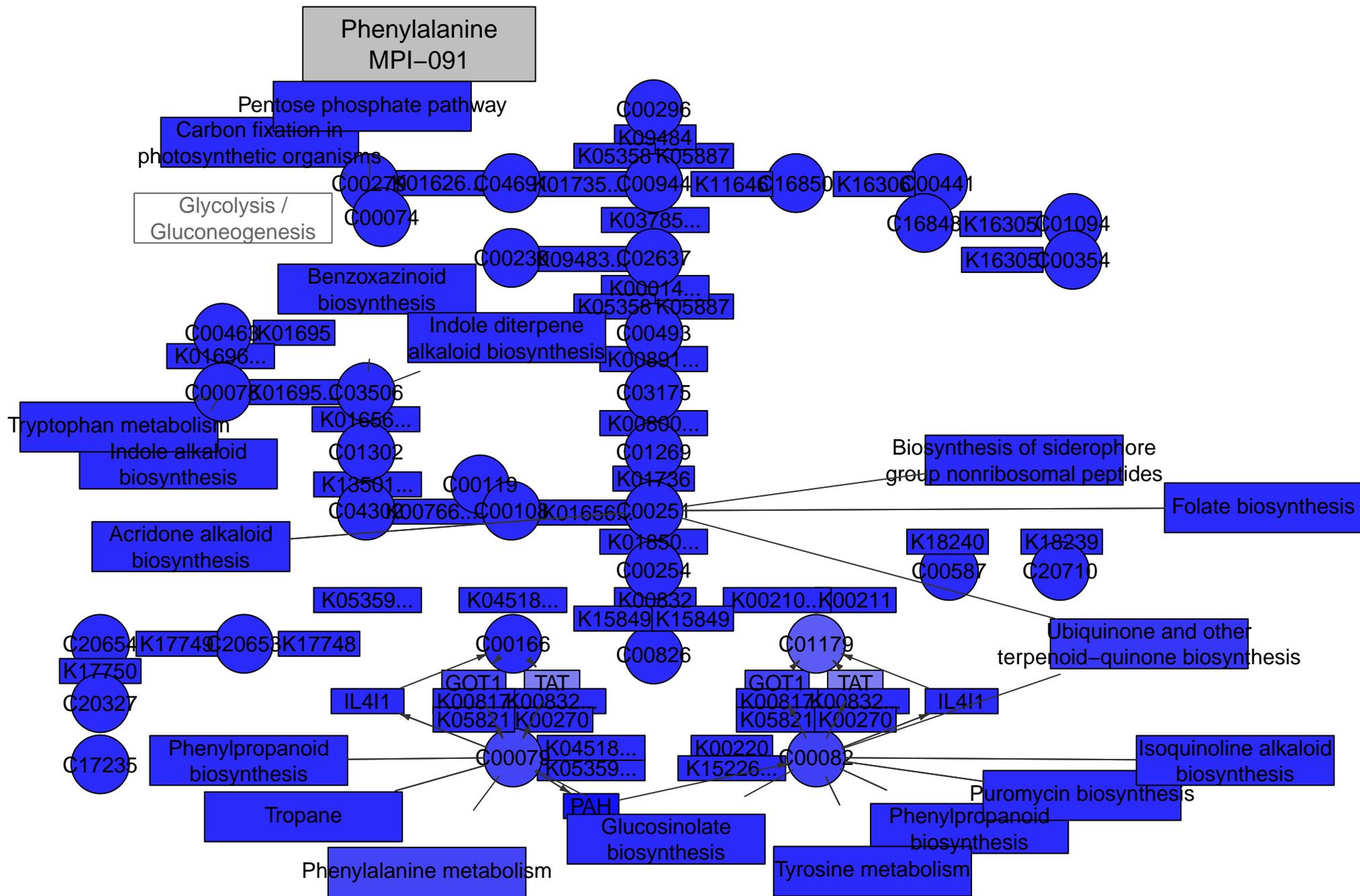
Phenylalanine metabolism

Phenylalanine  
MPI-087

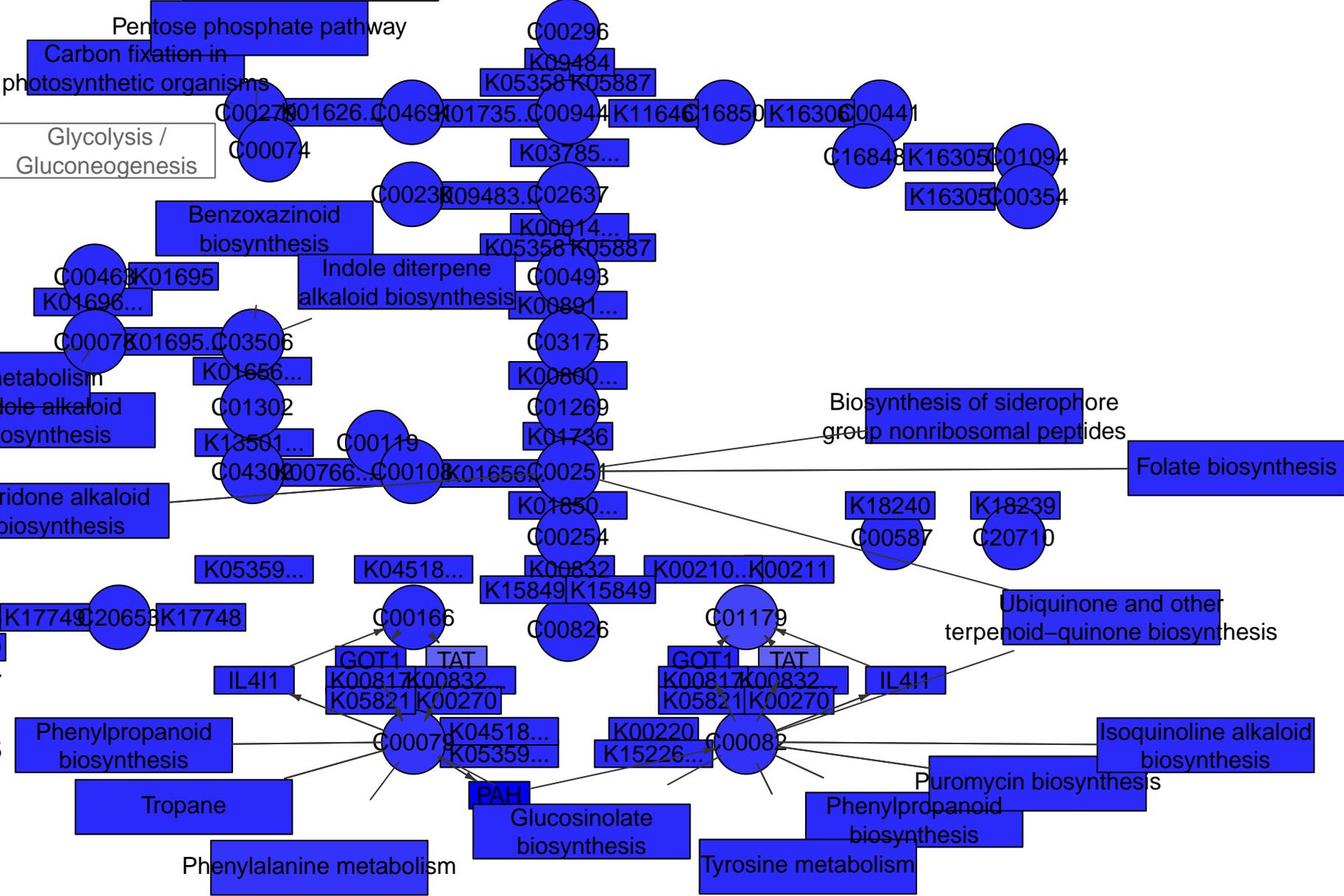




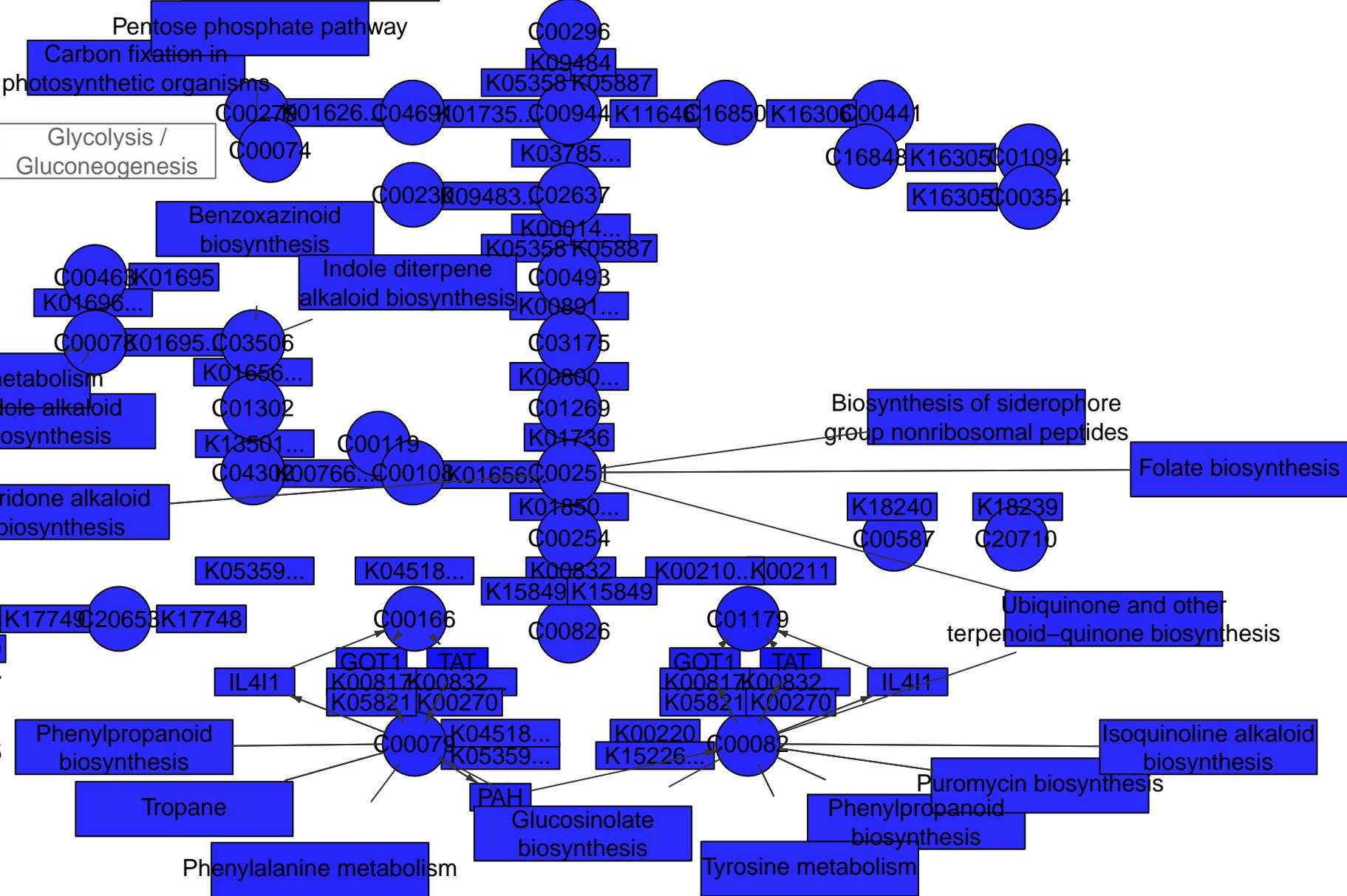


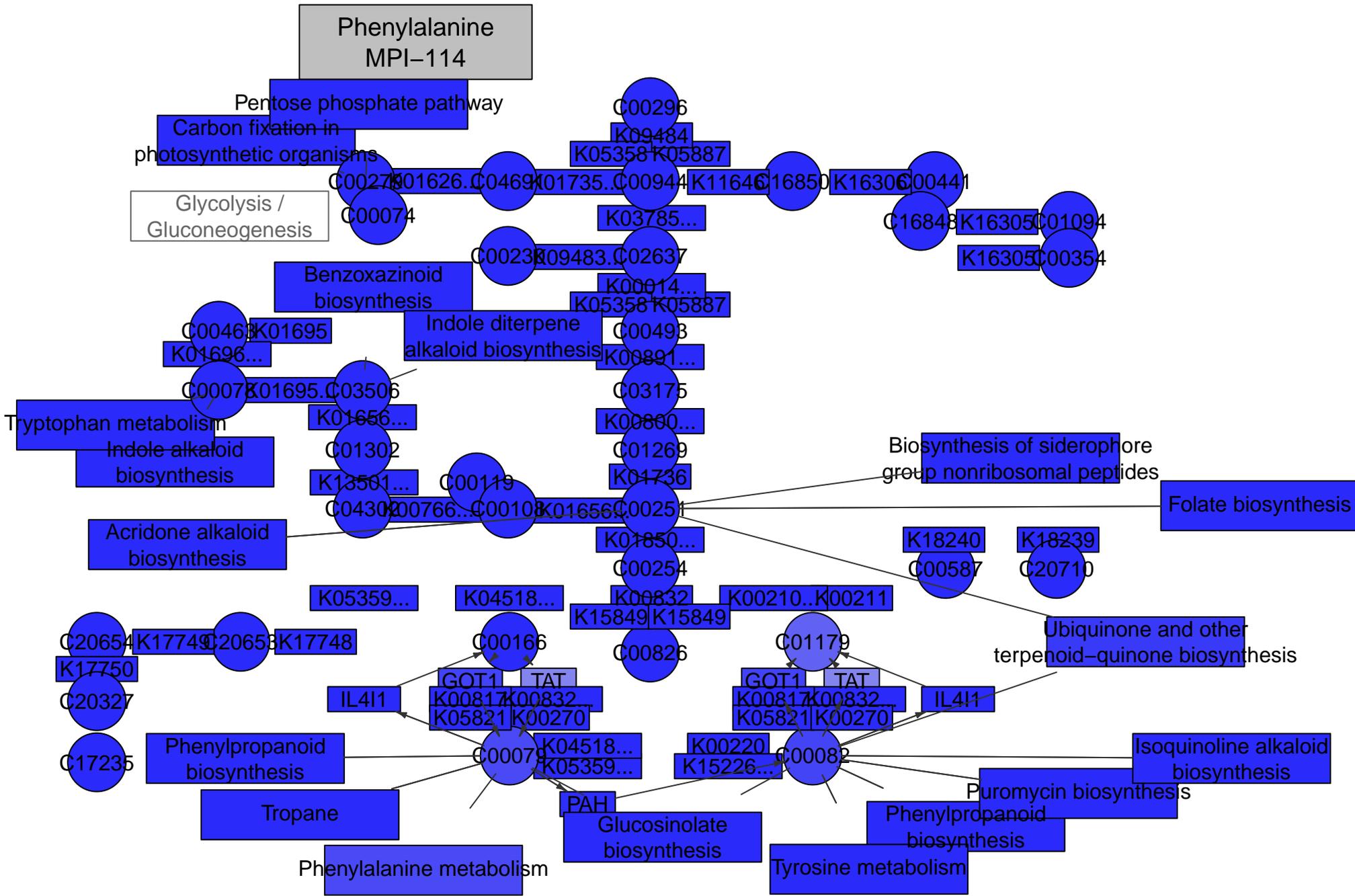


Phenylalanine  
MPI-095



Phenylalanine  
MPI-101





Phenylalanine  
MPI-123

Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Acridone alkaloid  
biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

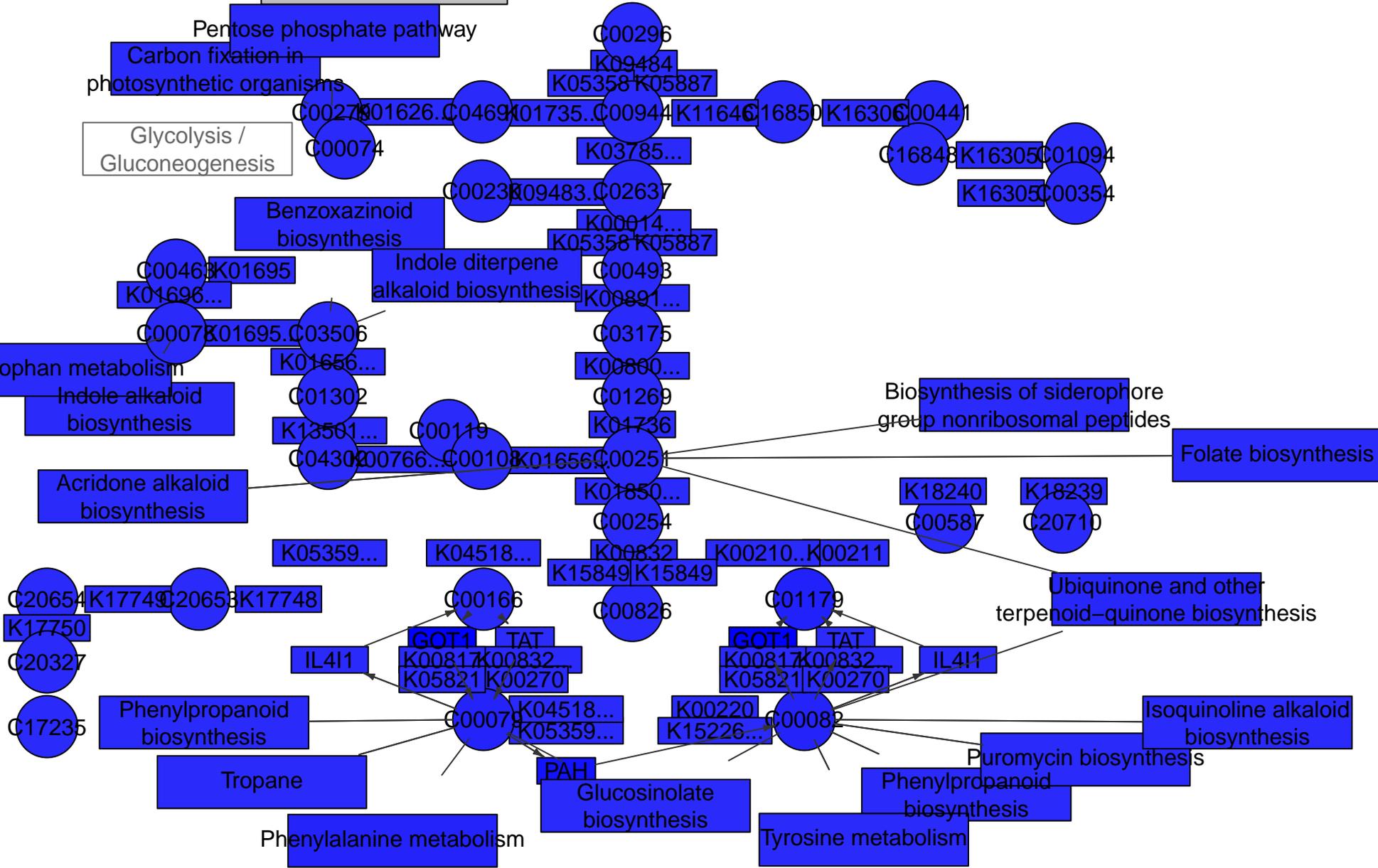
PAH  
Glucosinolate  
biosynthesis

Tyrosine metabolism

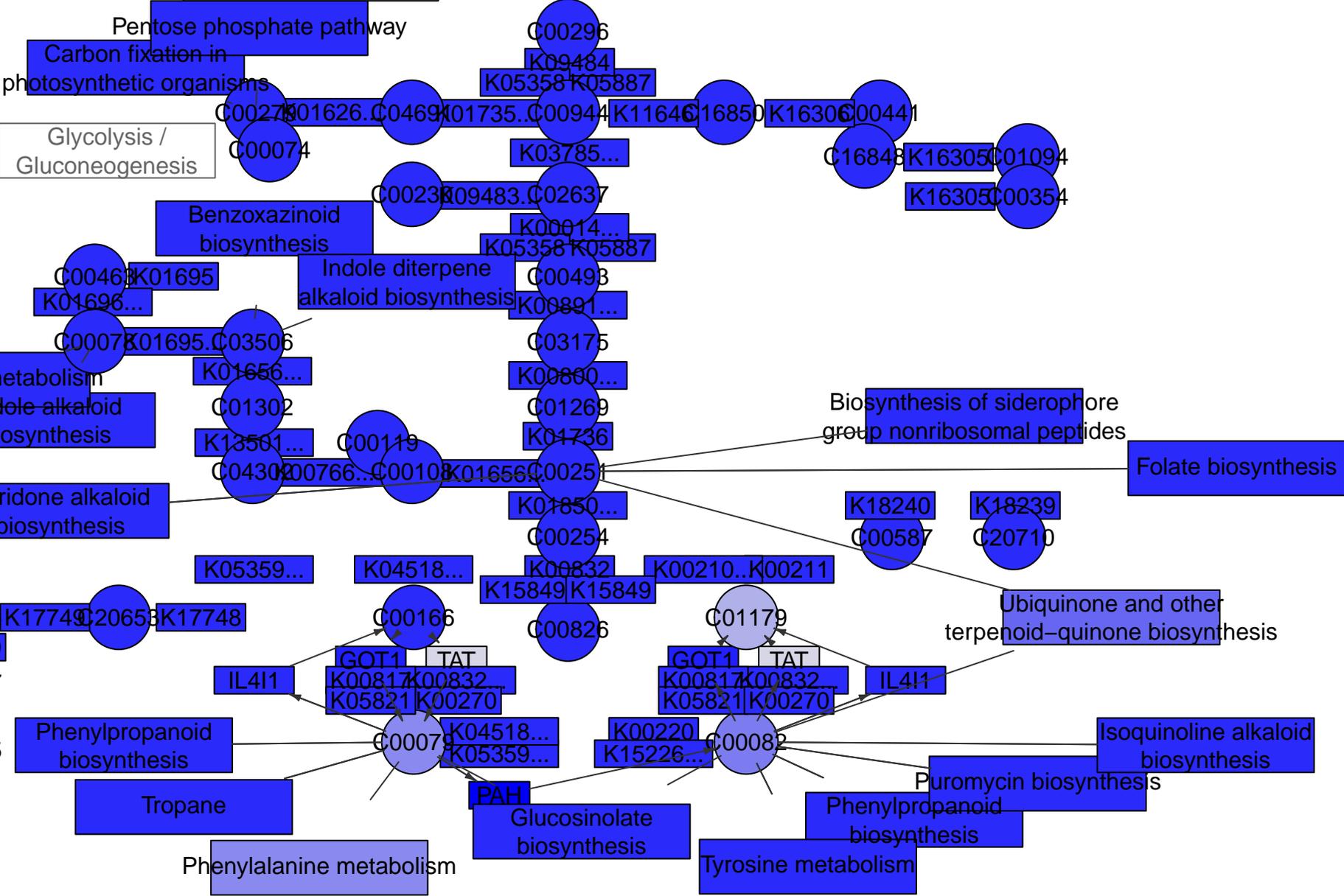
Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis

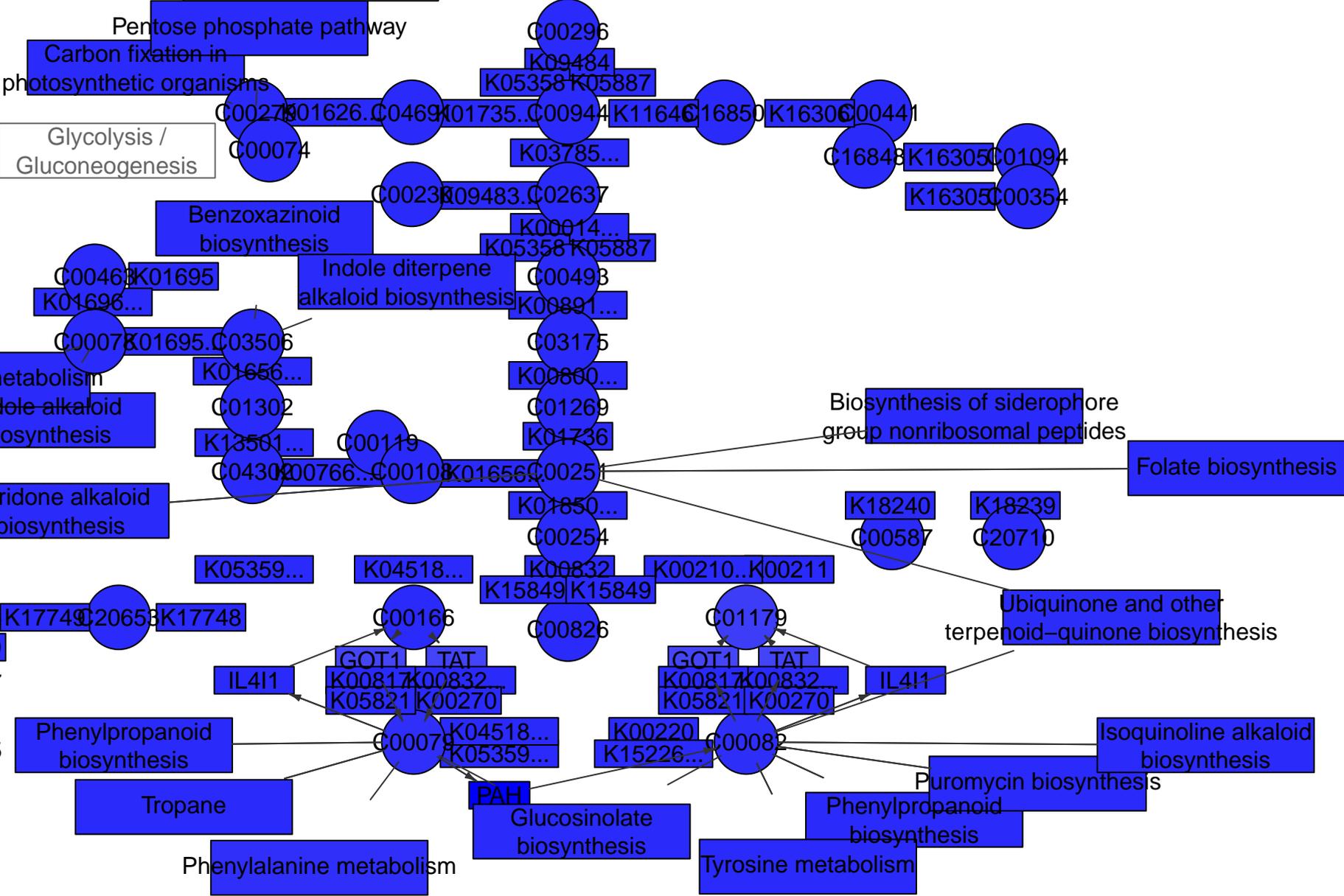


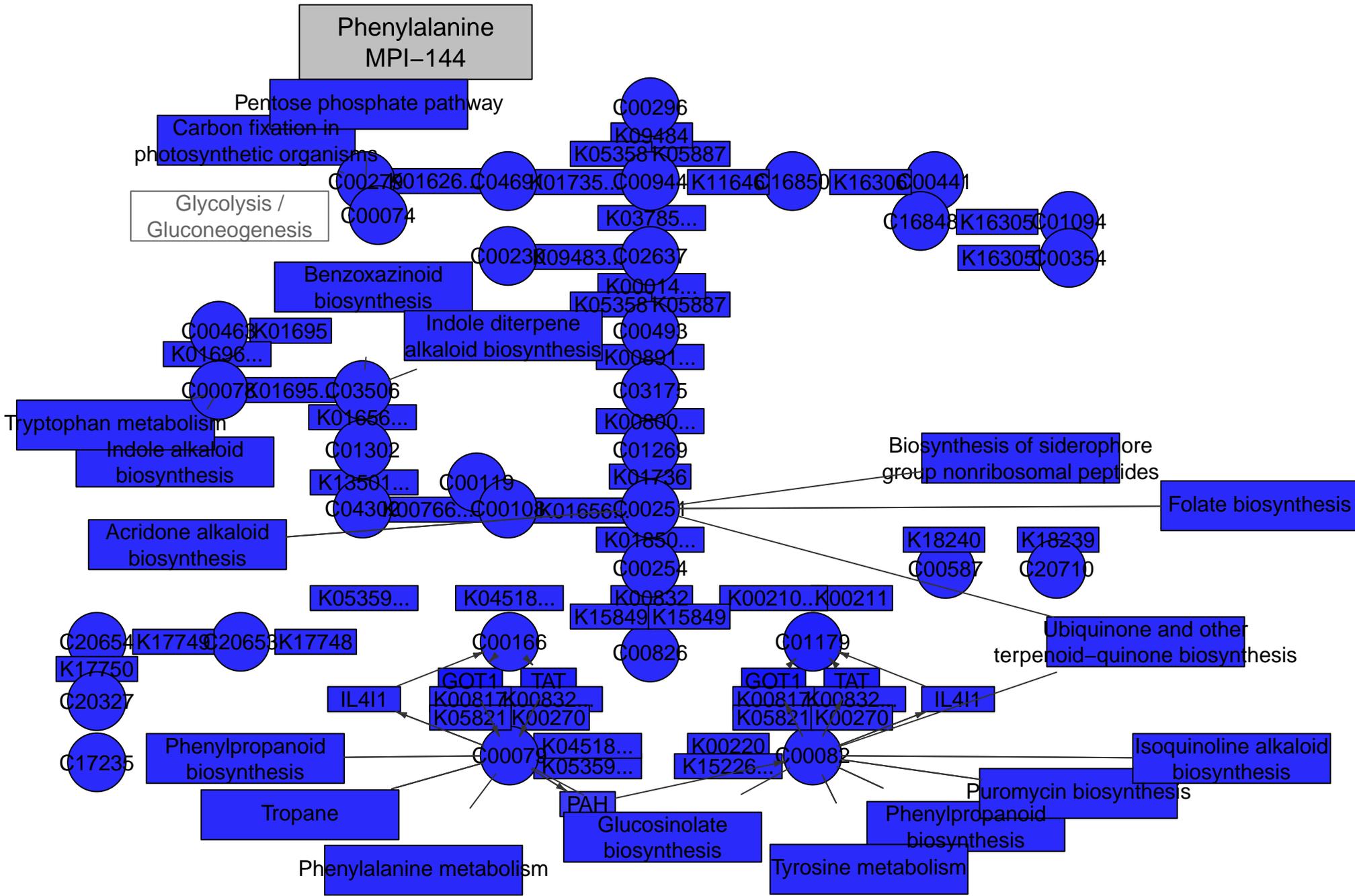
Phenylalanine  
MPI-138



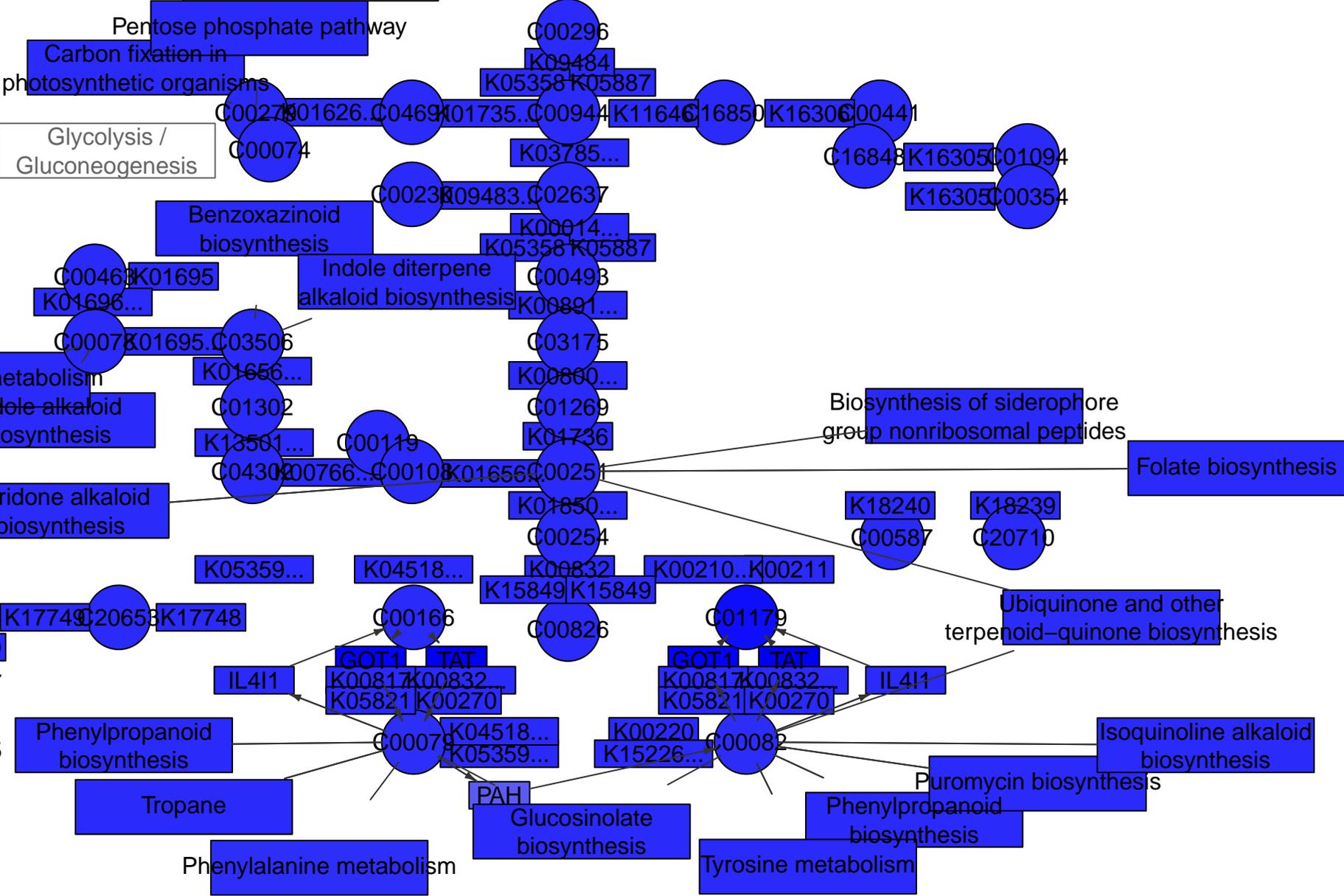


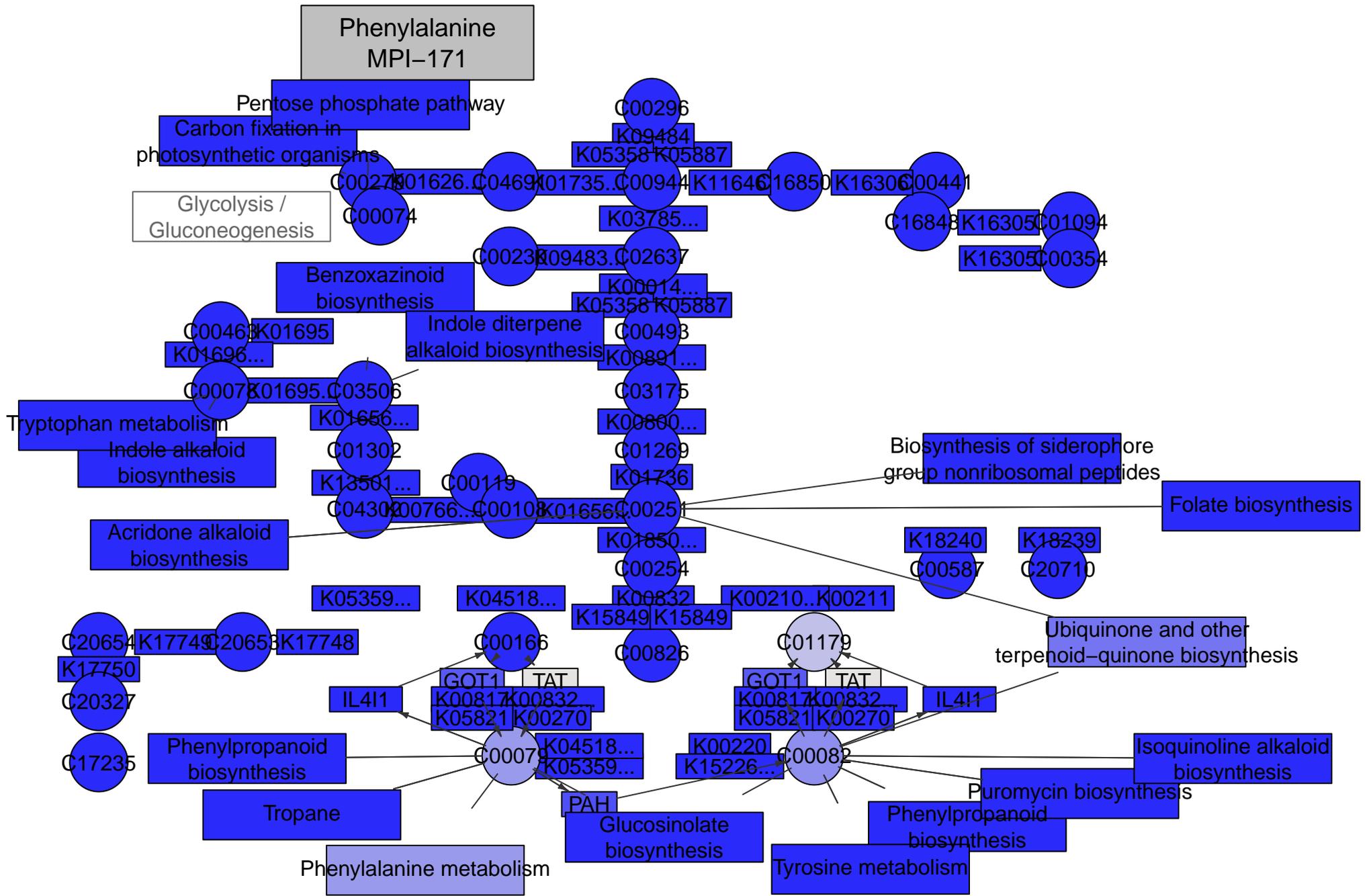
Phenylalanine  
MPI-140



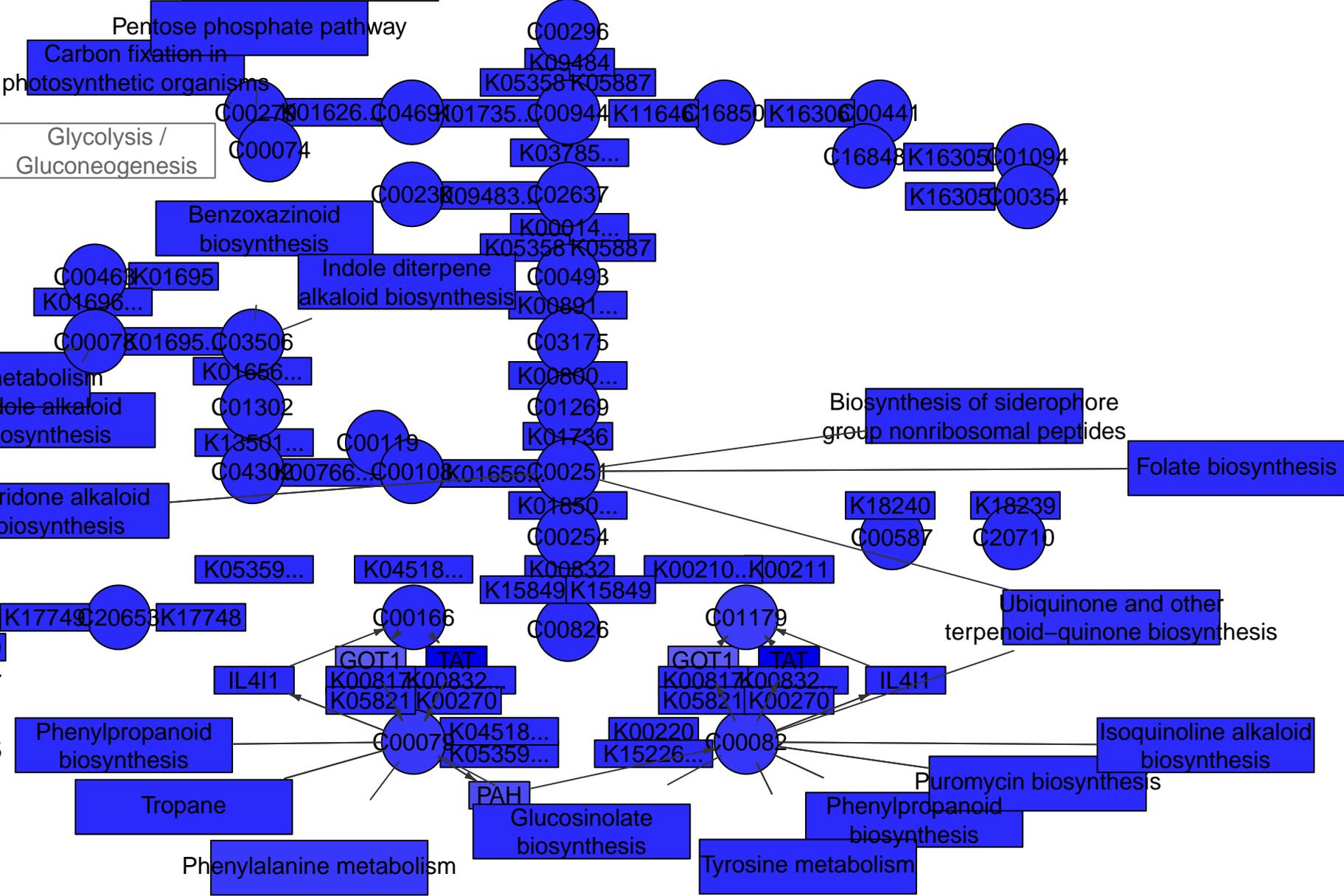


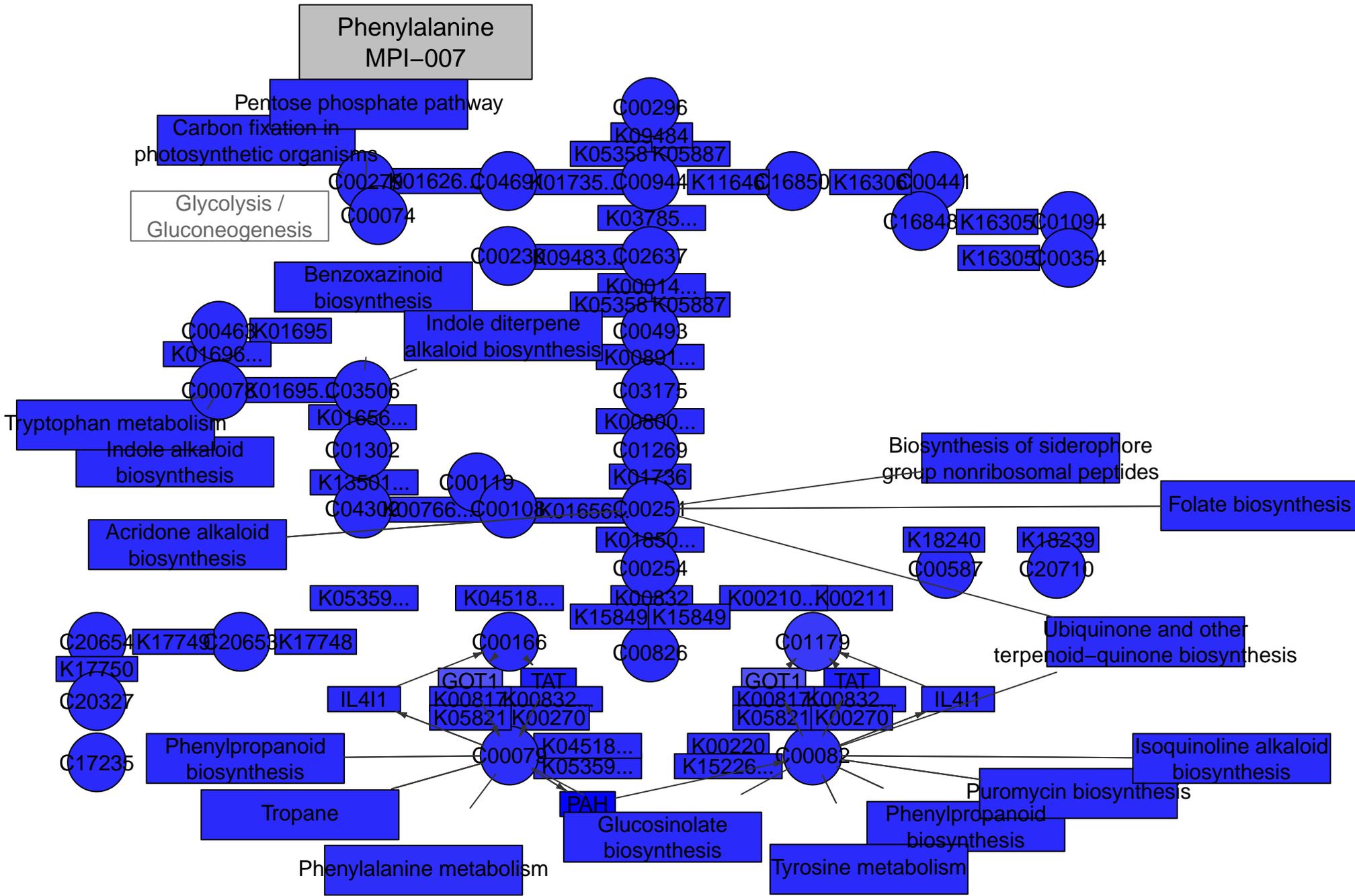
Phenylalanine  
MPI-147





Phenylalanine  
MPI-172





Phenylalanine  
MPI-011

Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

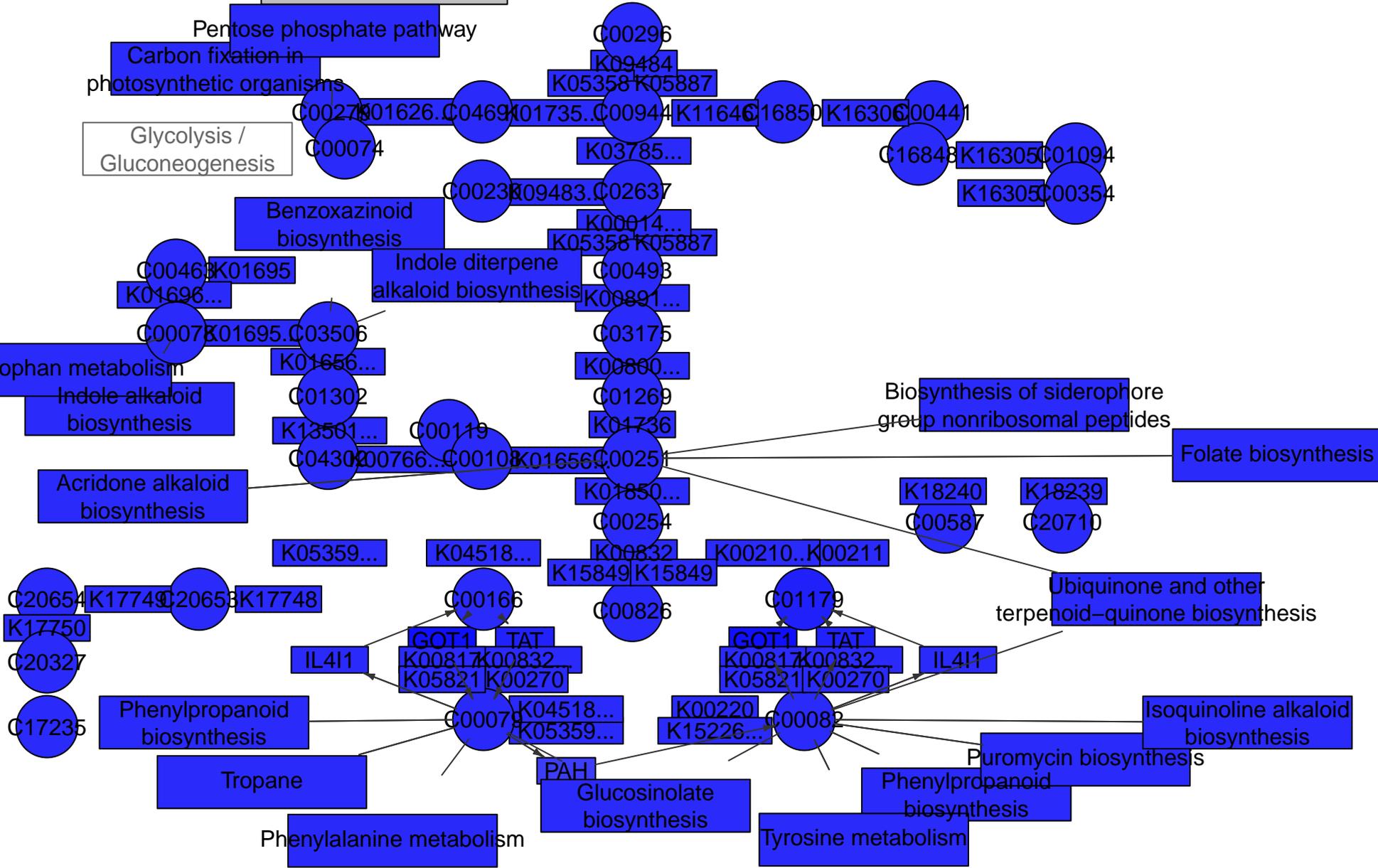
PAH  
Glucosinolate  
biosynthesis

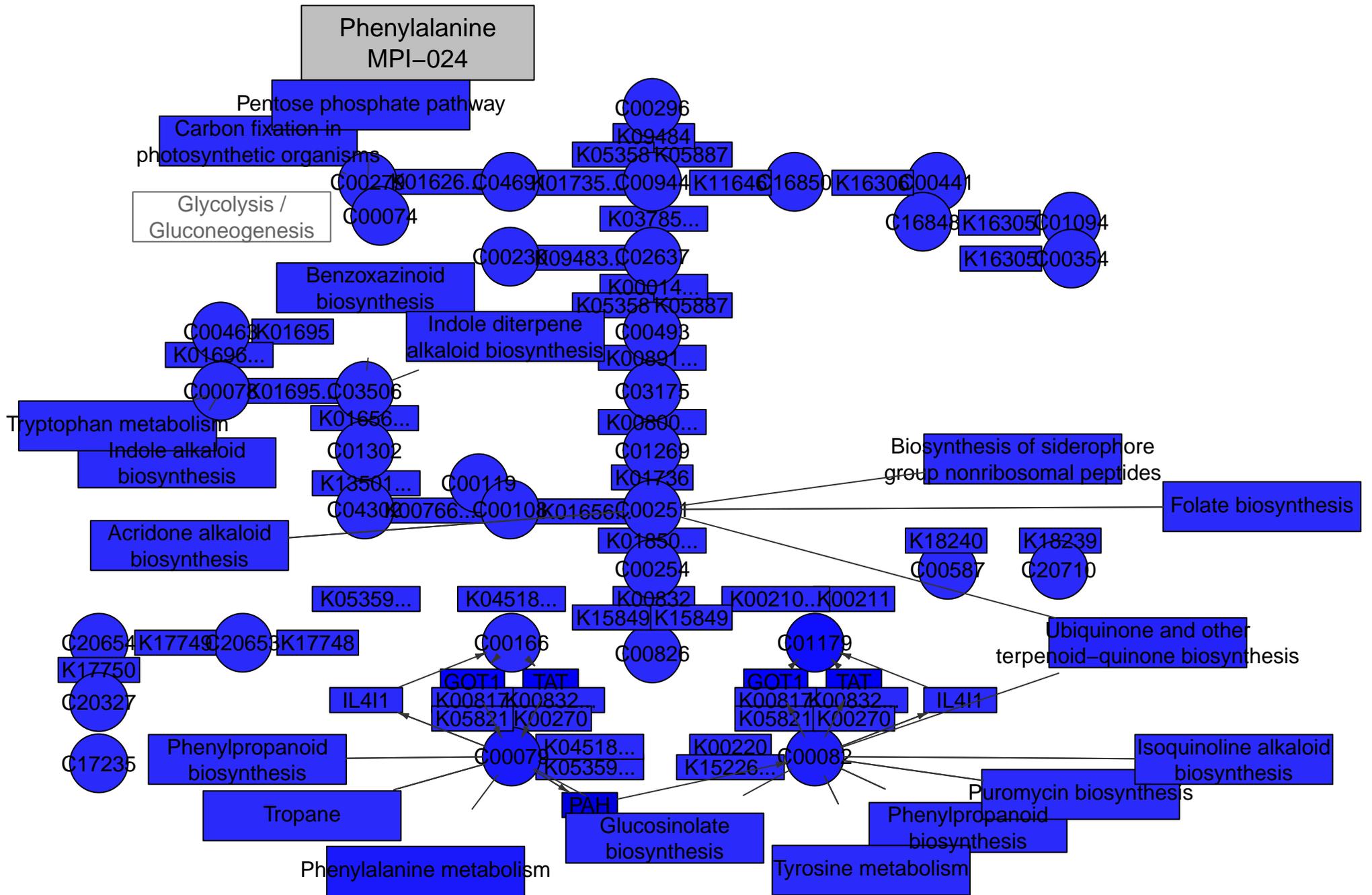
Tyrosine metabolism

Phenylpropanoid  
biosynthesis

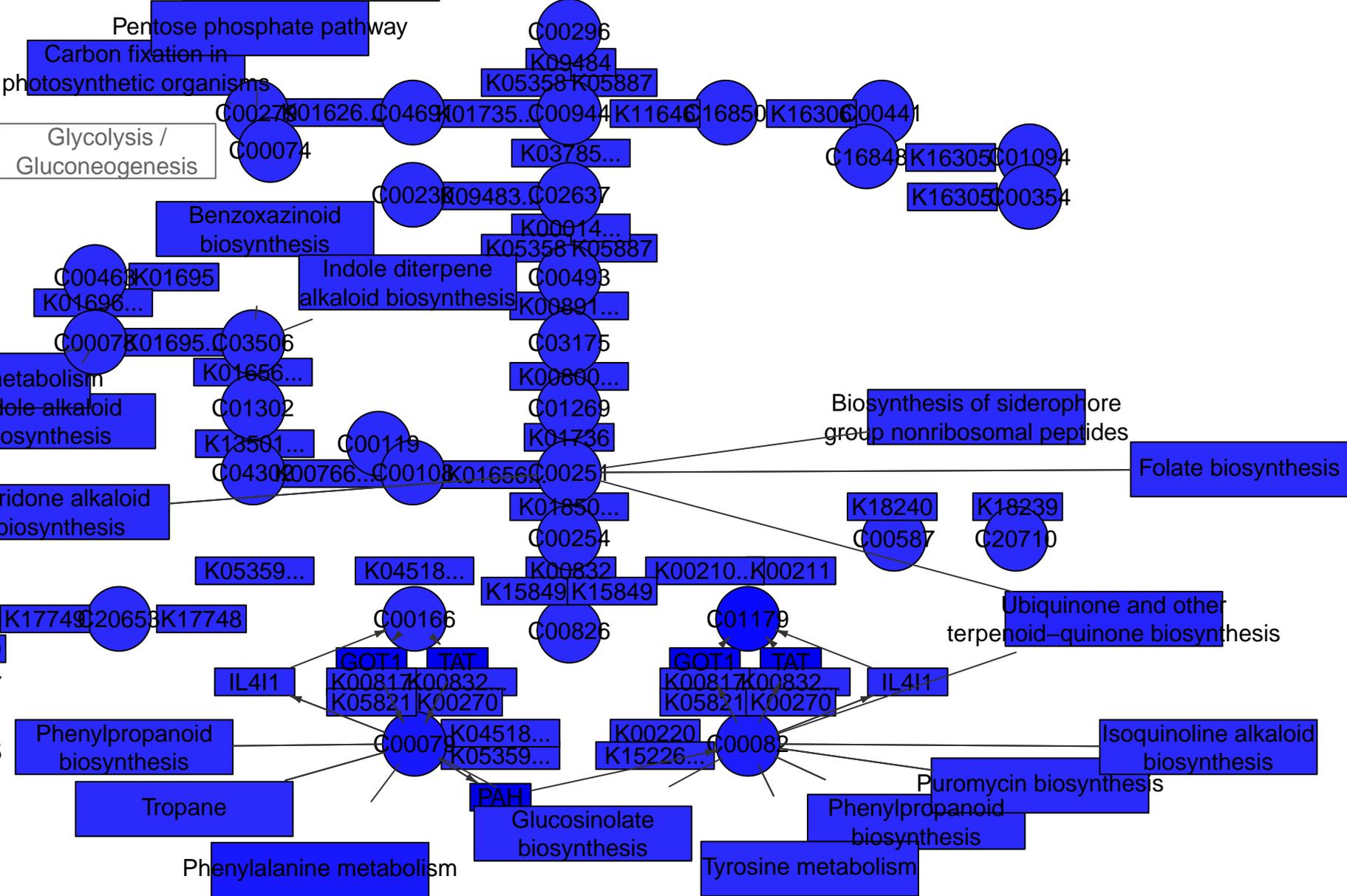
Puromycin biosynthesis

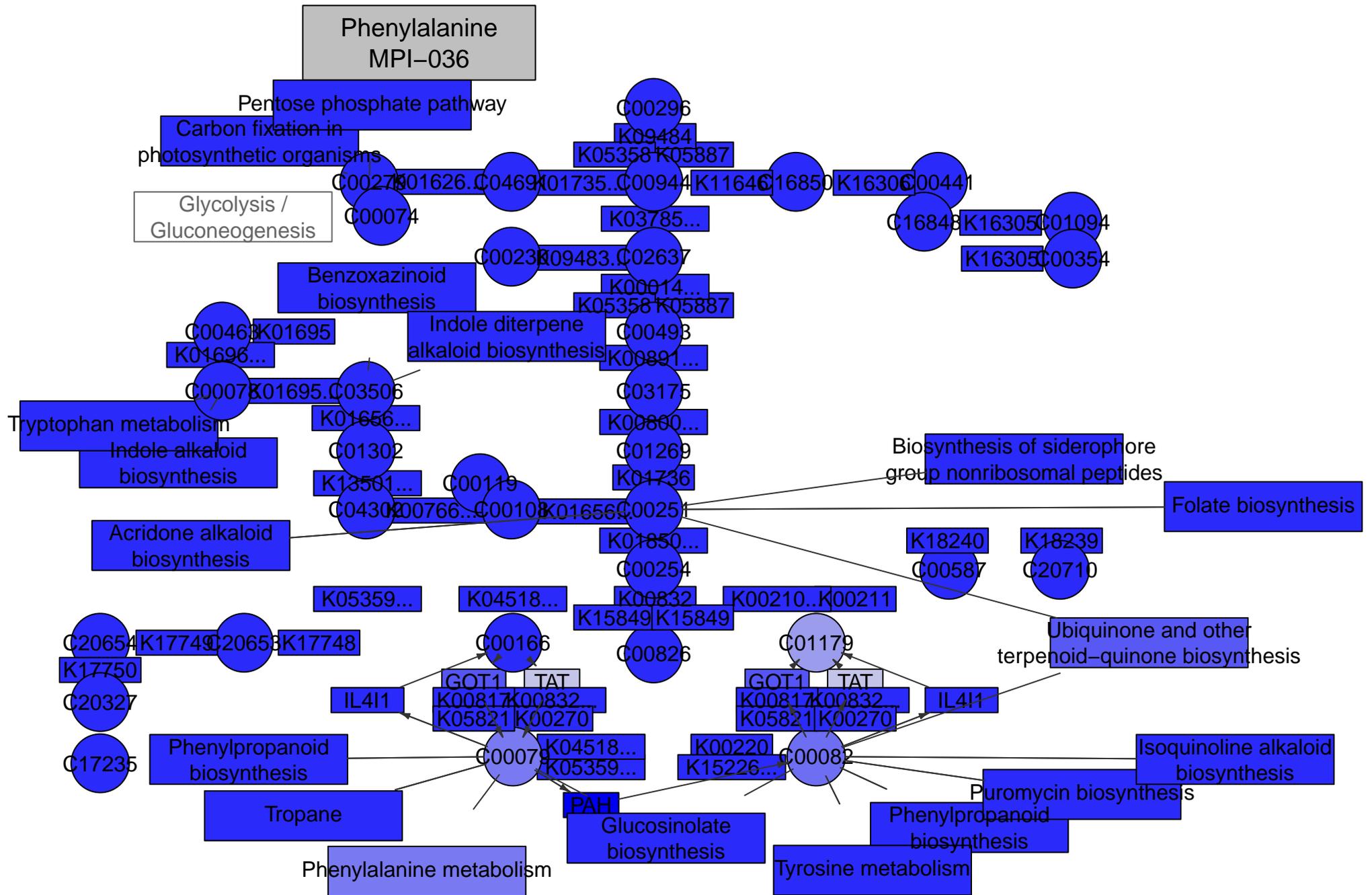
Isoquinoline alkaloid  
biosynthesis



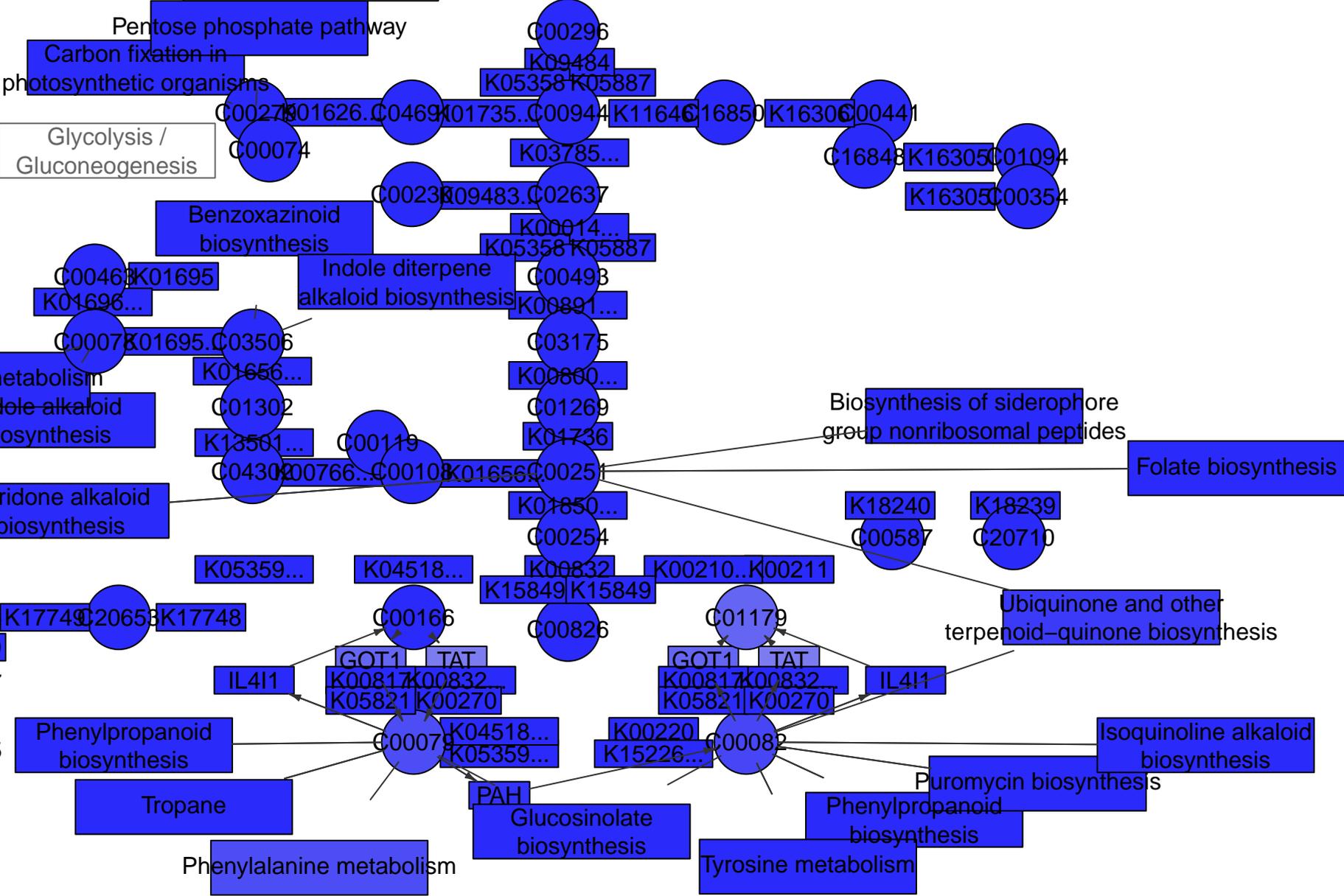


Phenylalanine  
MPI-026

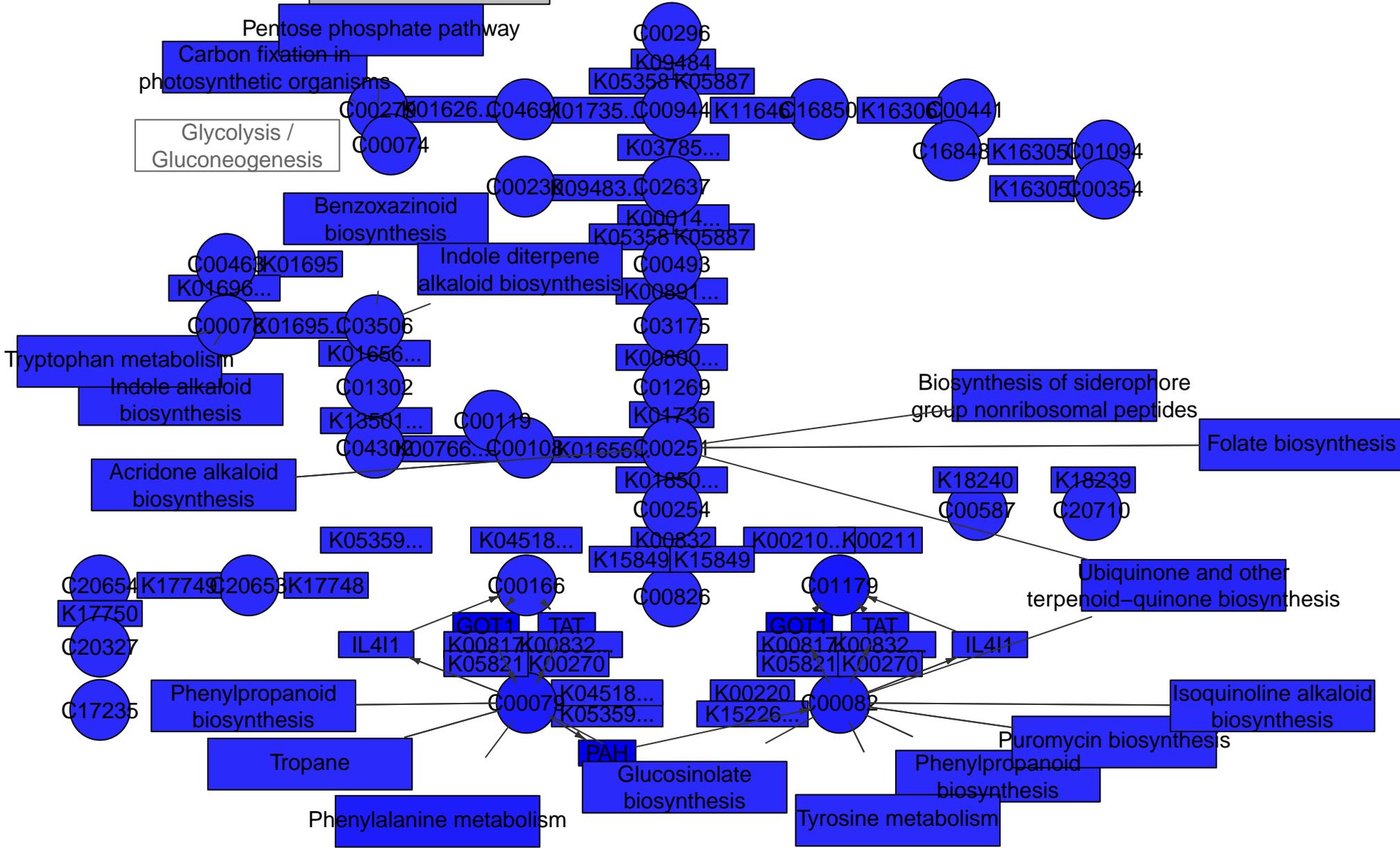


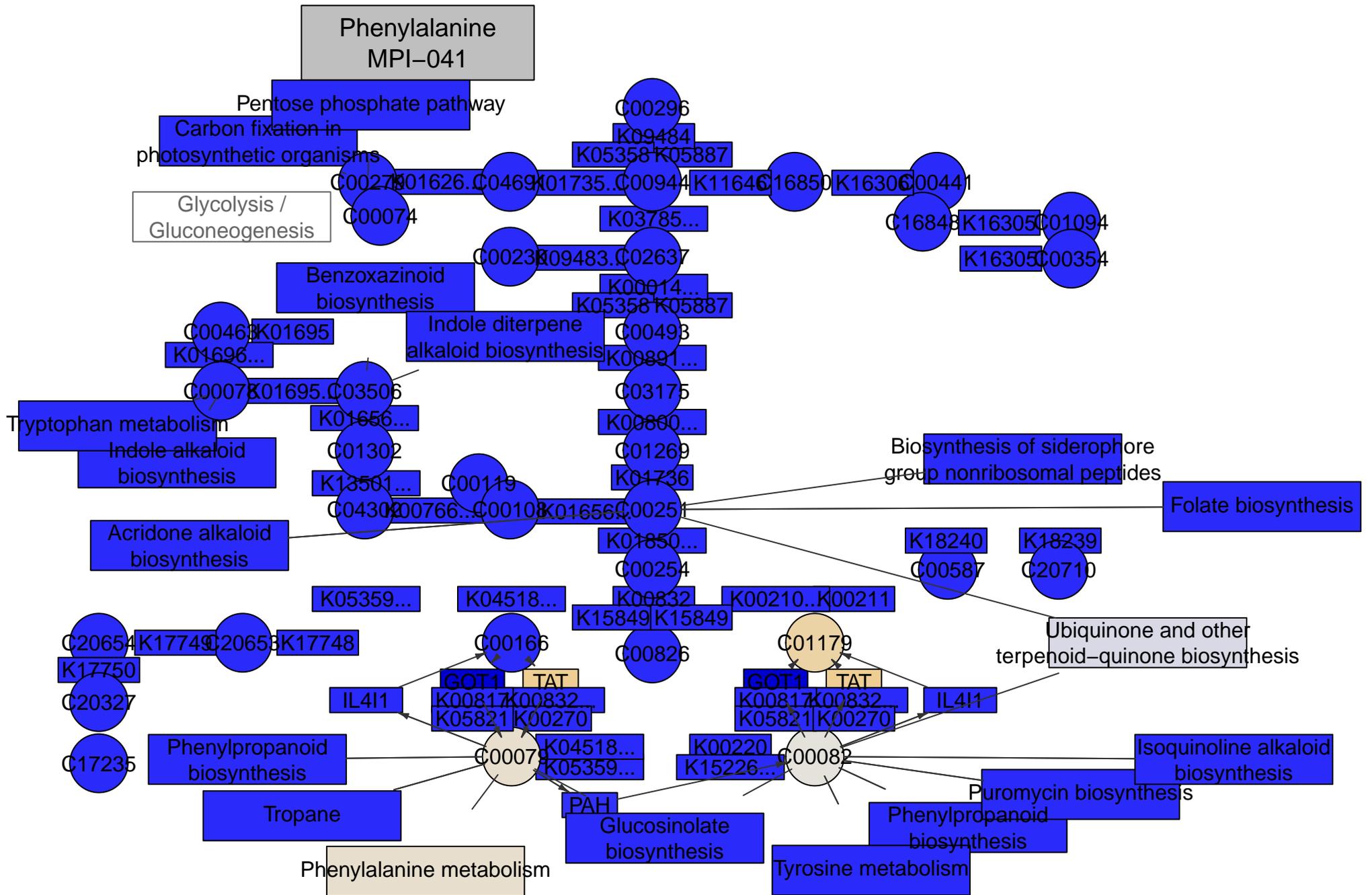


Phenylalanine  
MPI-037

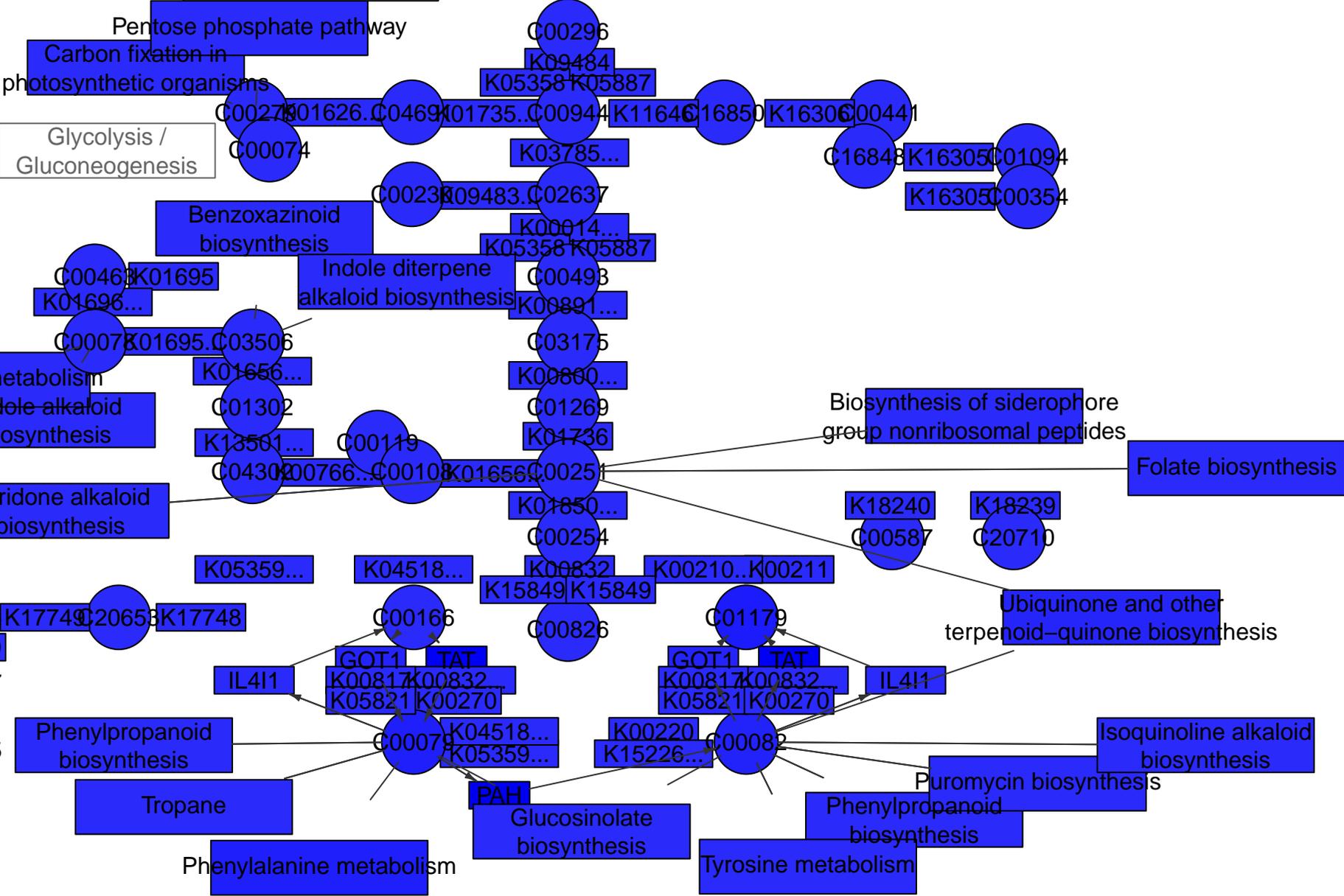


Phenylalanine  
MPI-038

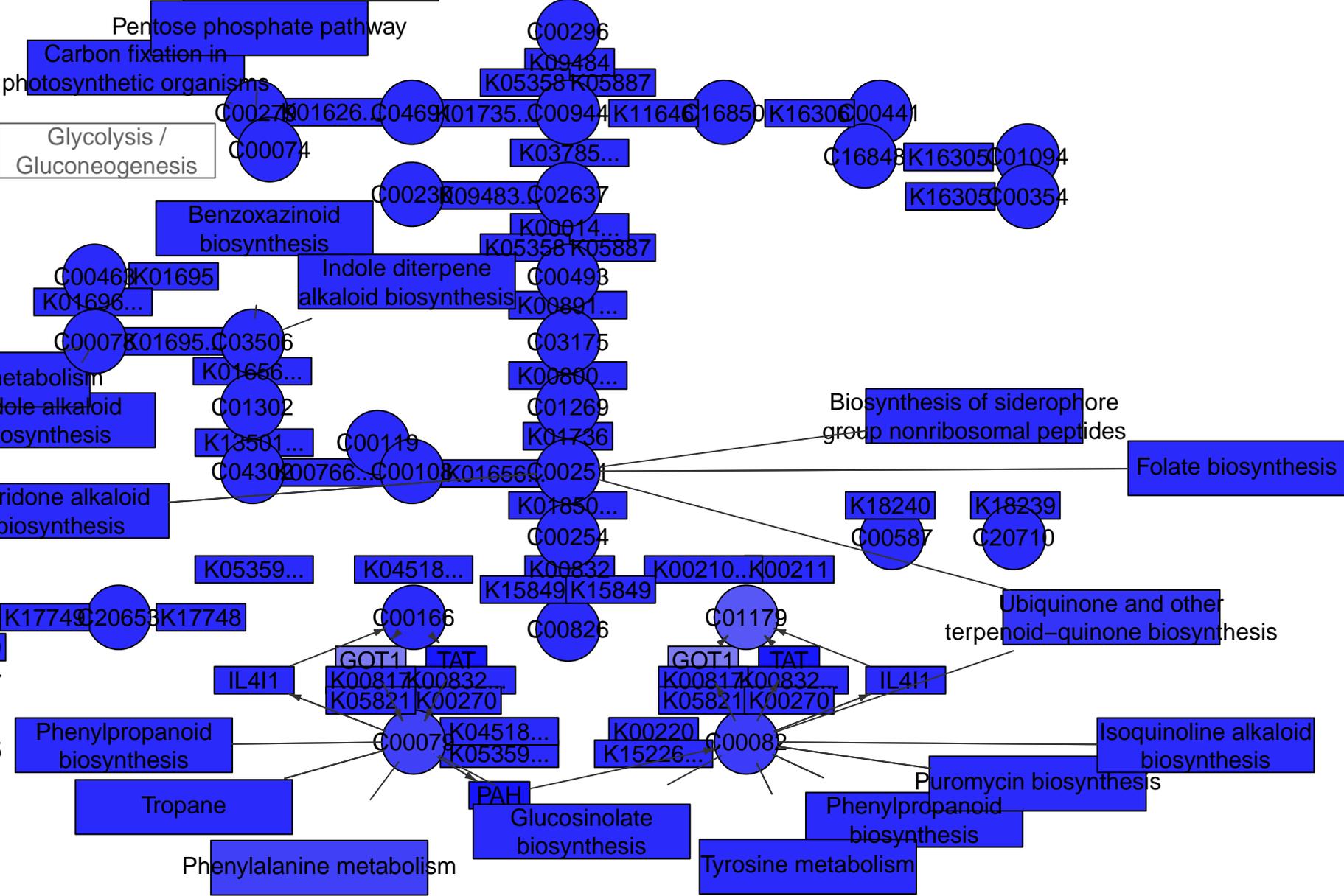




Phenylalanine  
MPI-046



Phenylalanine  
MPI-050



Phenylalanine  
MPI-051

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

K05359...

K04518...

C20654  
K17749  
C20653  
K17748  
K17750  
C20327

IL411

GOT1  
TAT  
K00817  
K00832  
K05821  
K00270

GOT1  
TAT  
K00817  
K00832  
K05821  
K00270

IL411

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

K04518...  
K05359...  
PAH

Glucosinolate  
biosynthesis

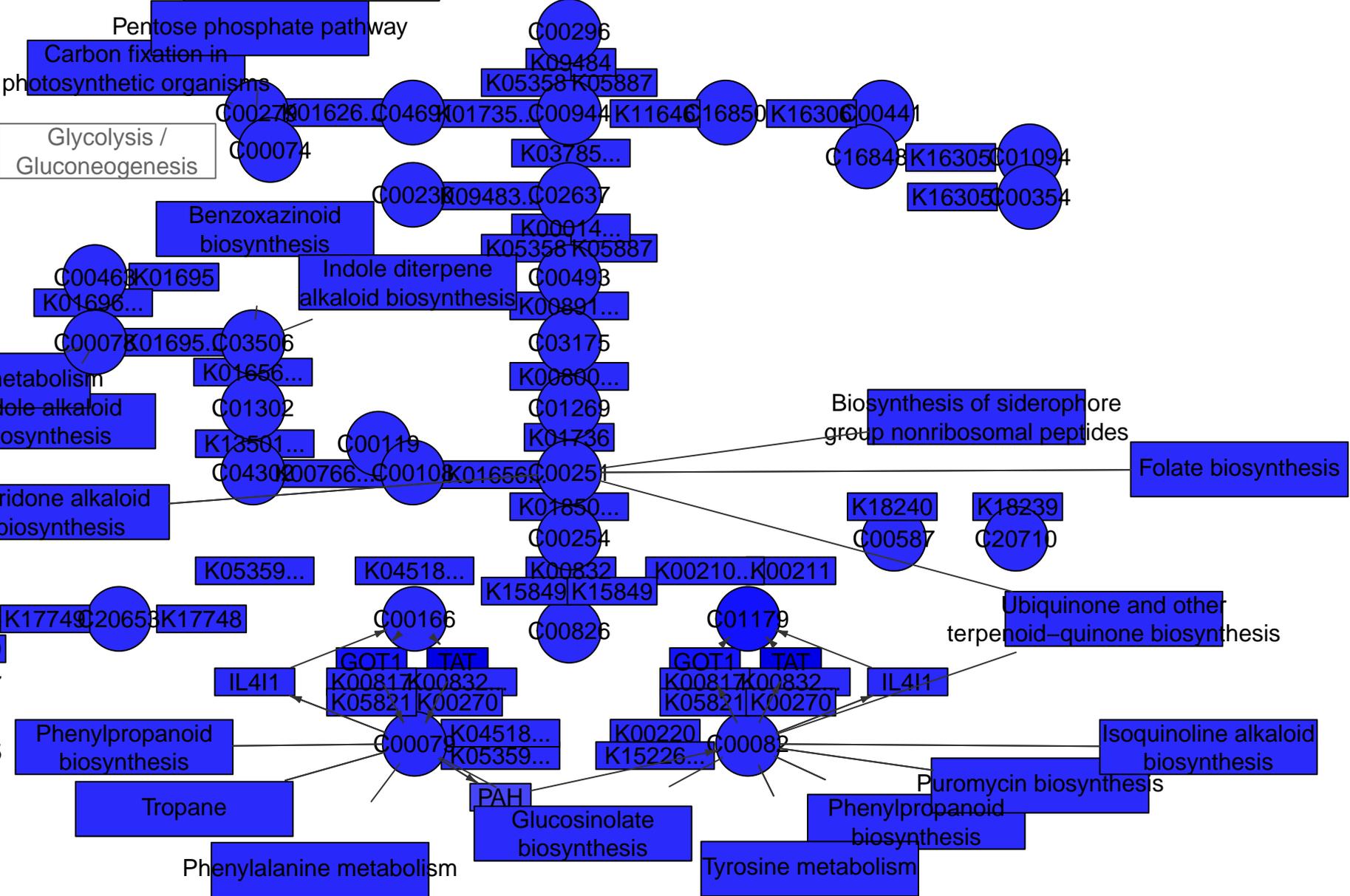
K00220  
K15226...

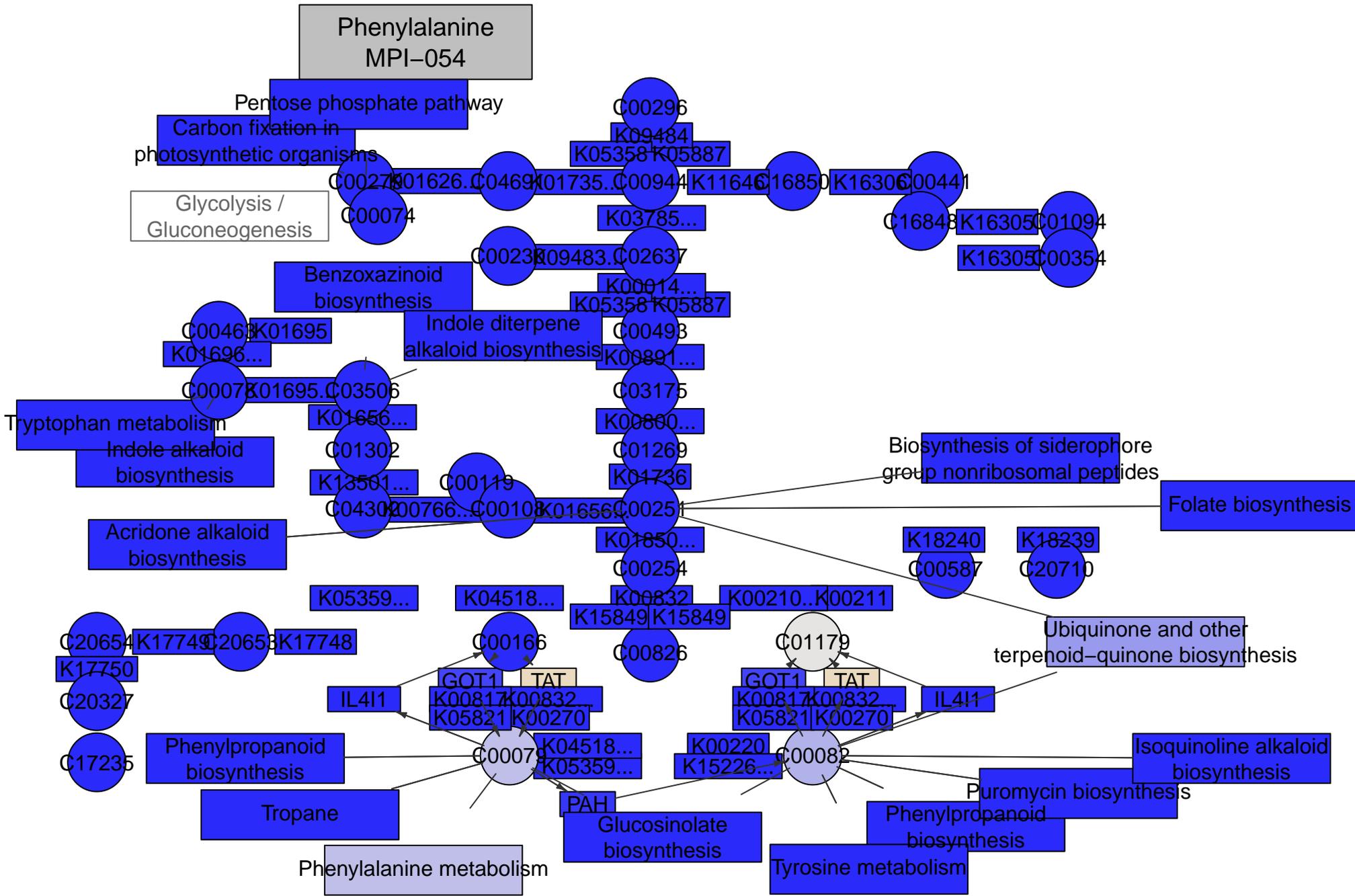
Tyrosine metabolism

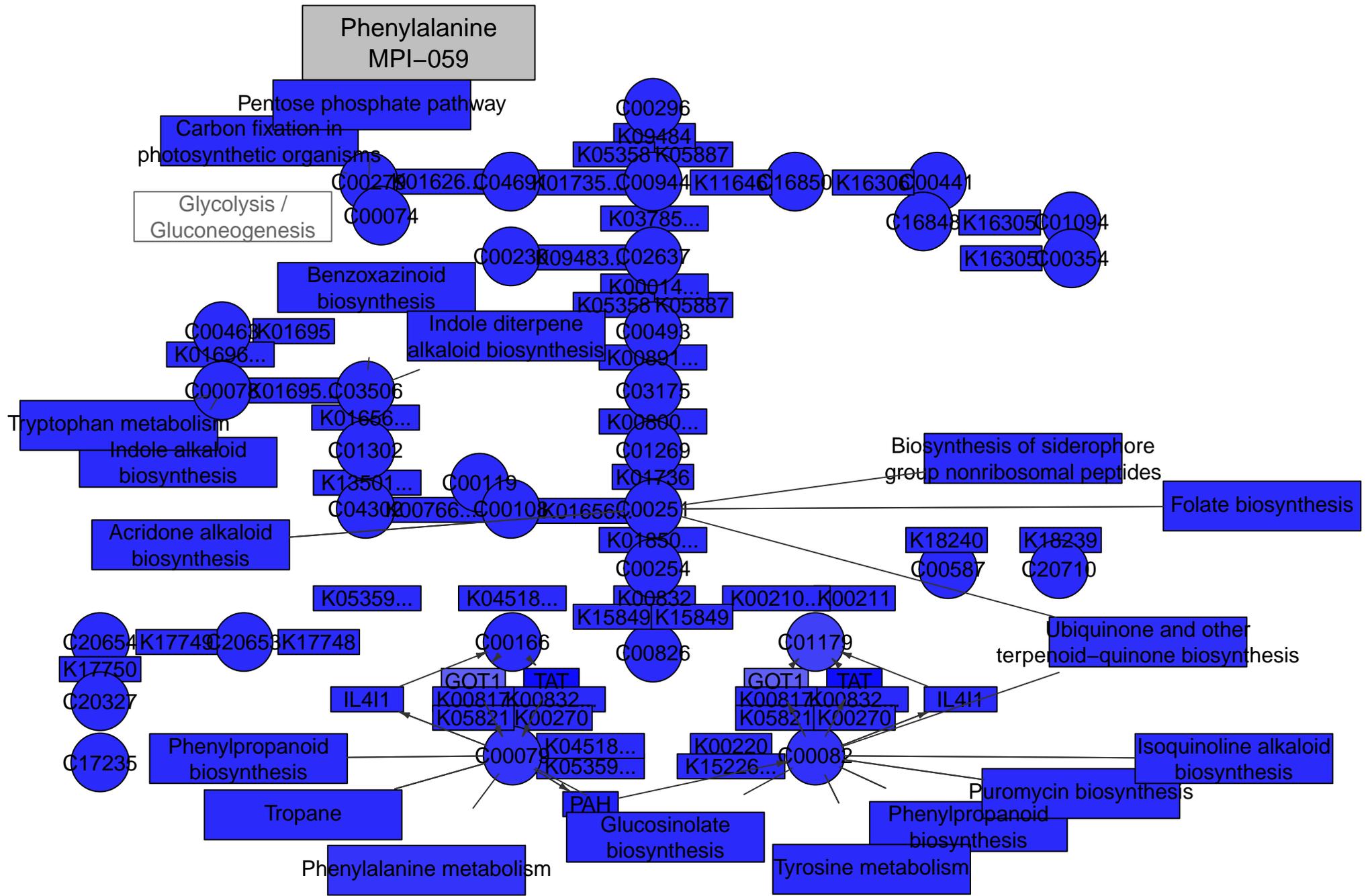
Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

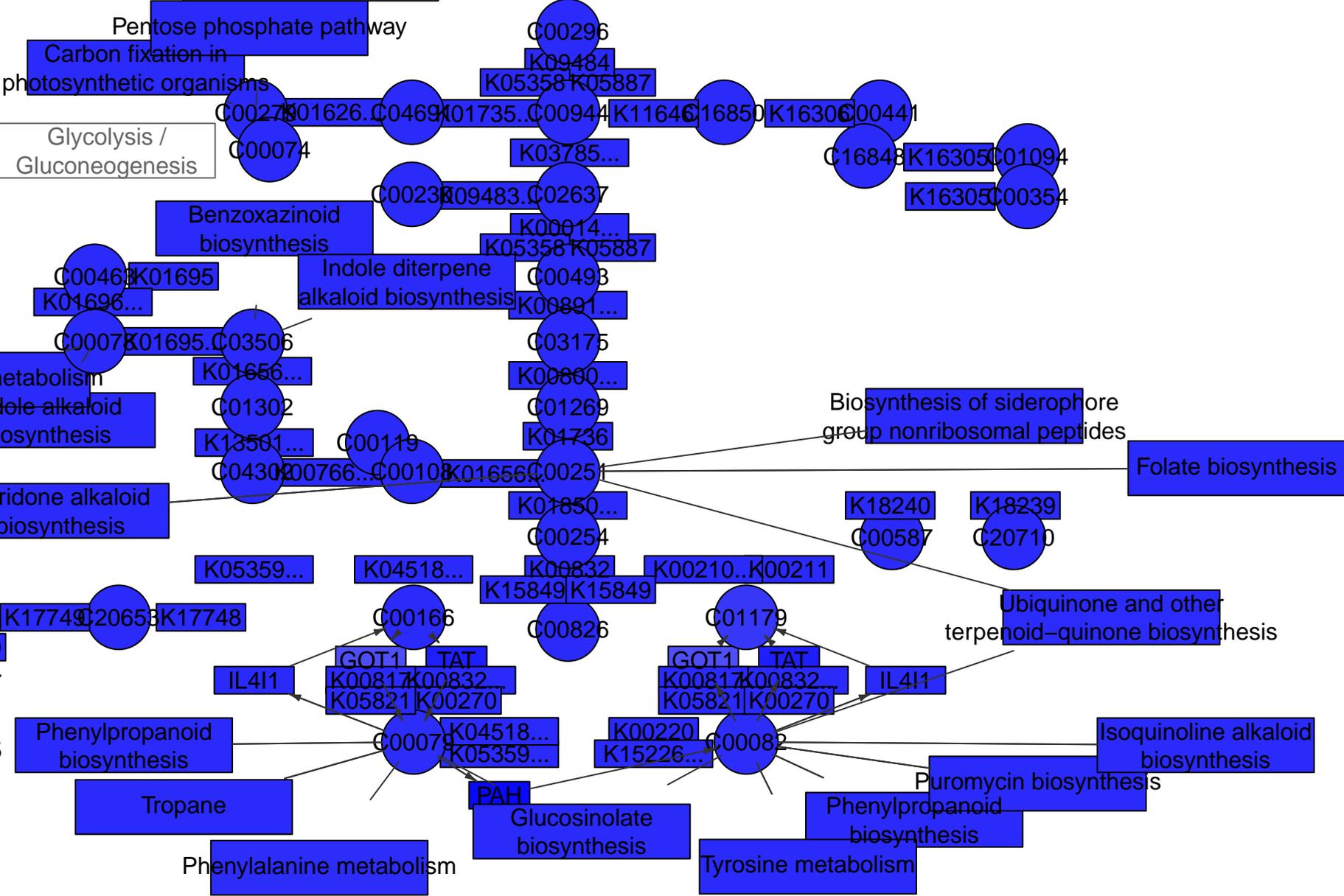
Isoquinoline alkaloid  
biosynthesis

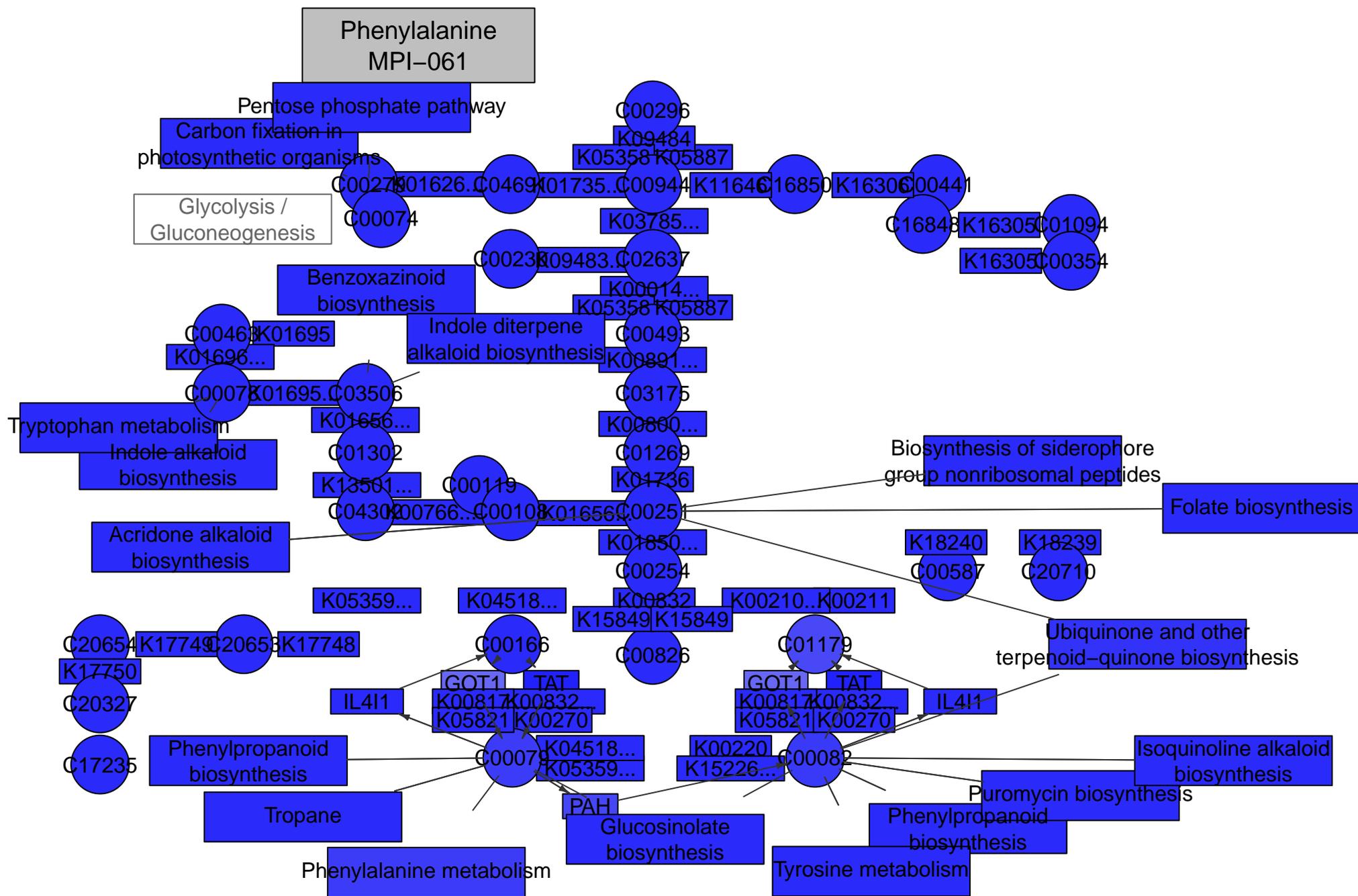


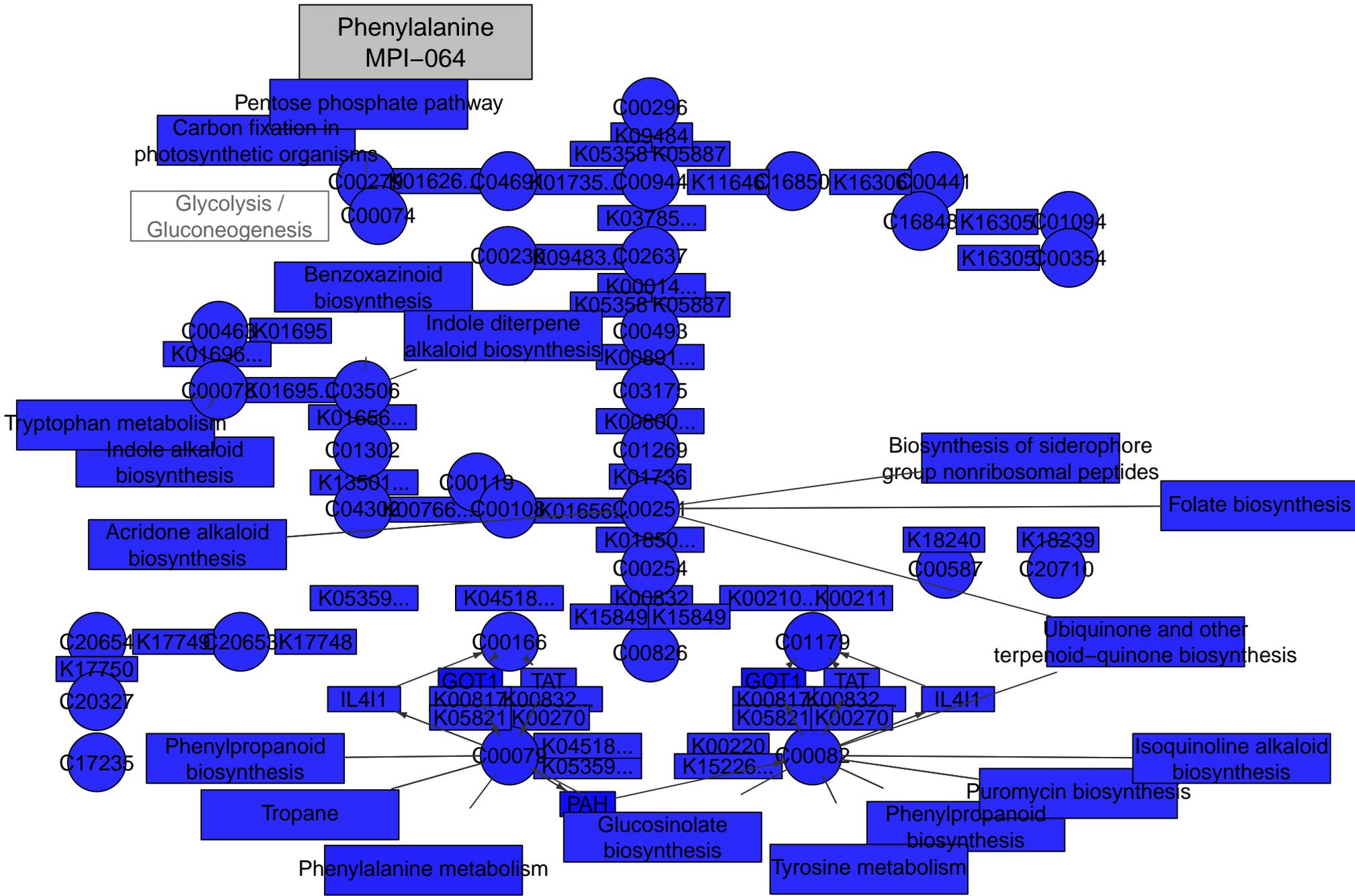




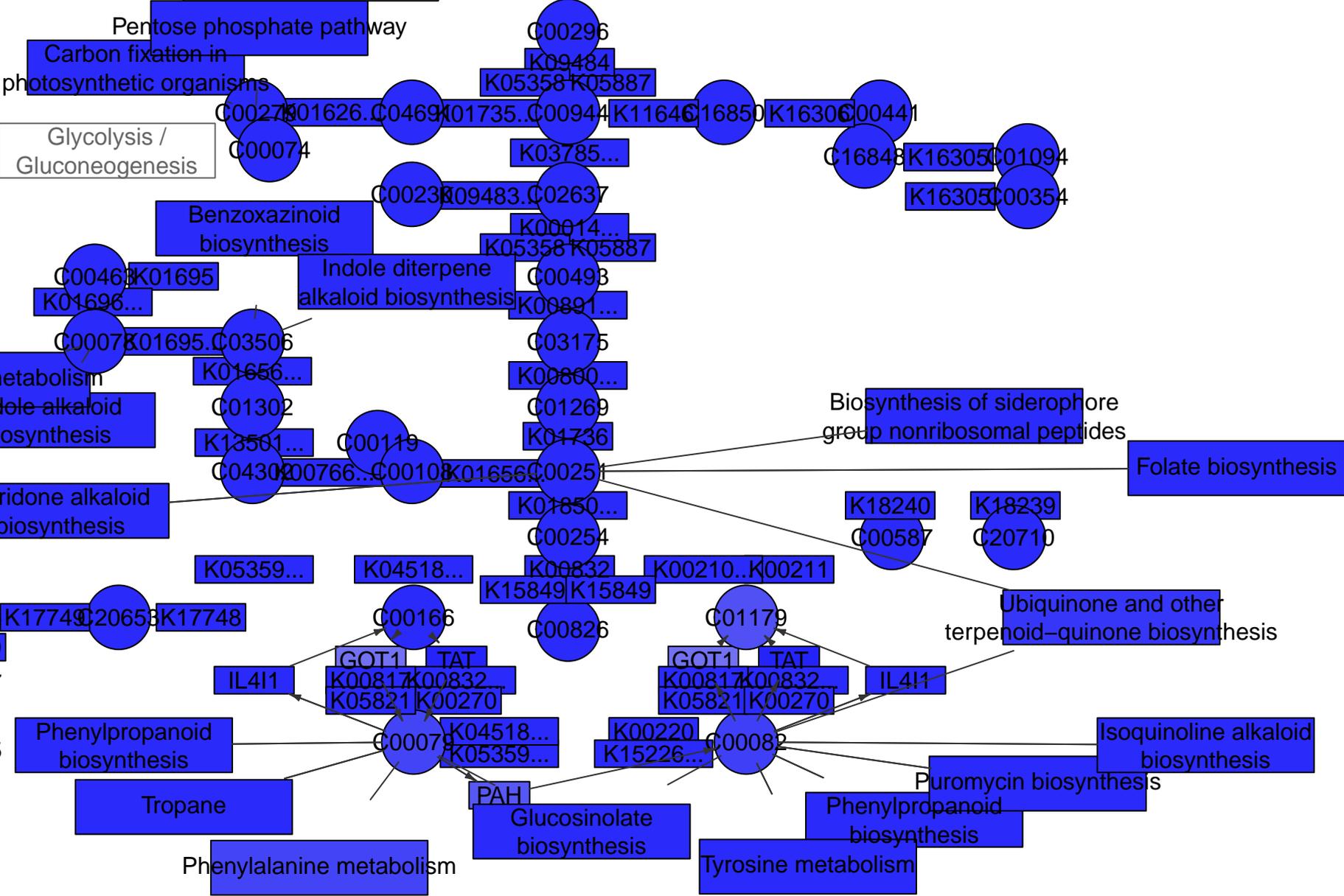
Phenylalanine  
MPI-060



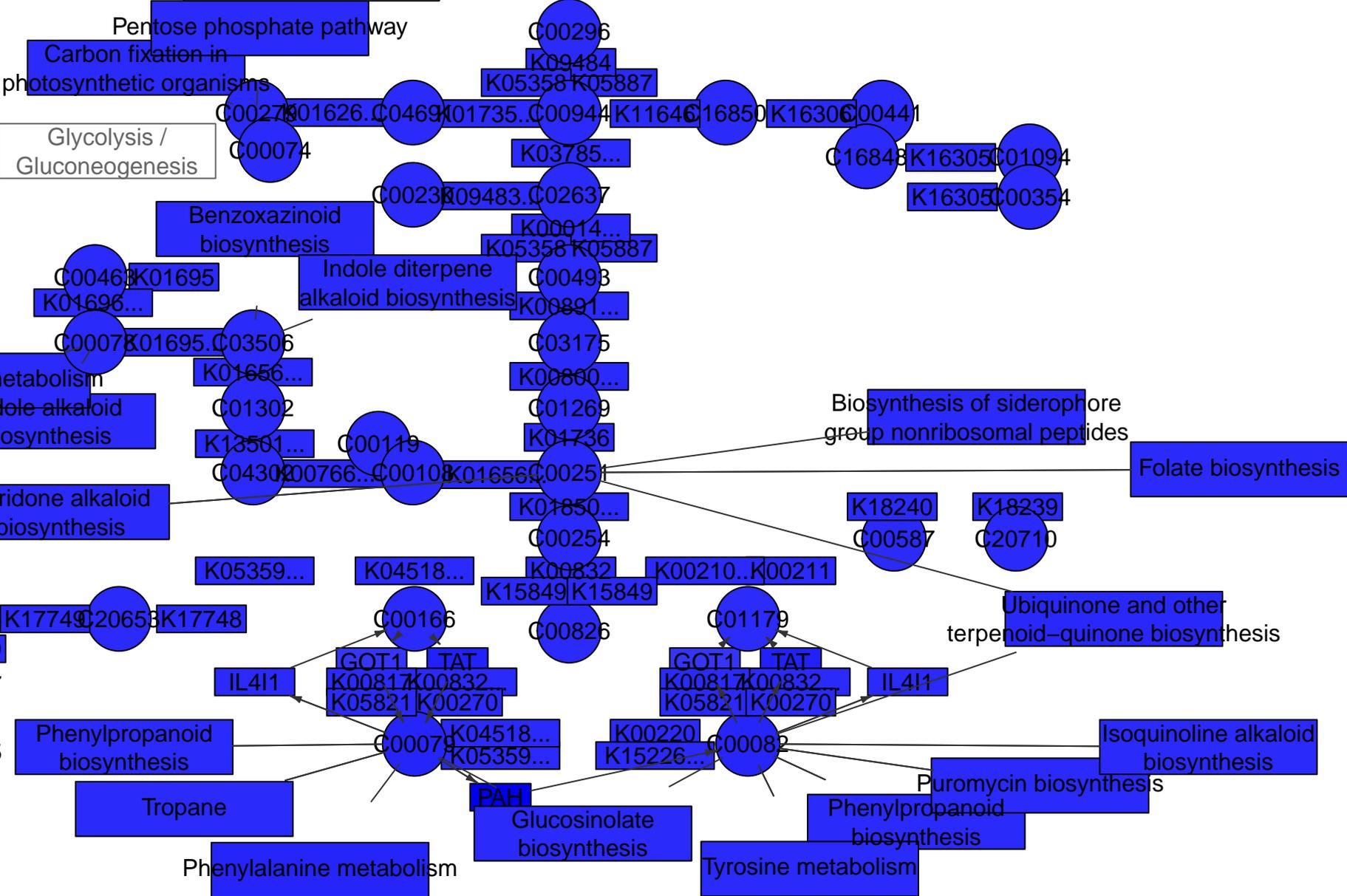




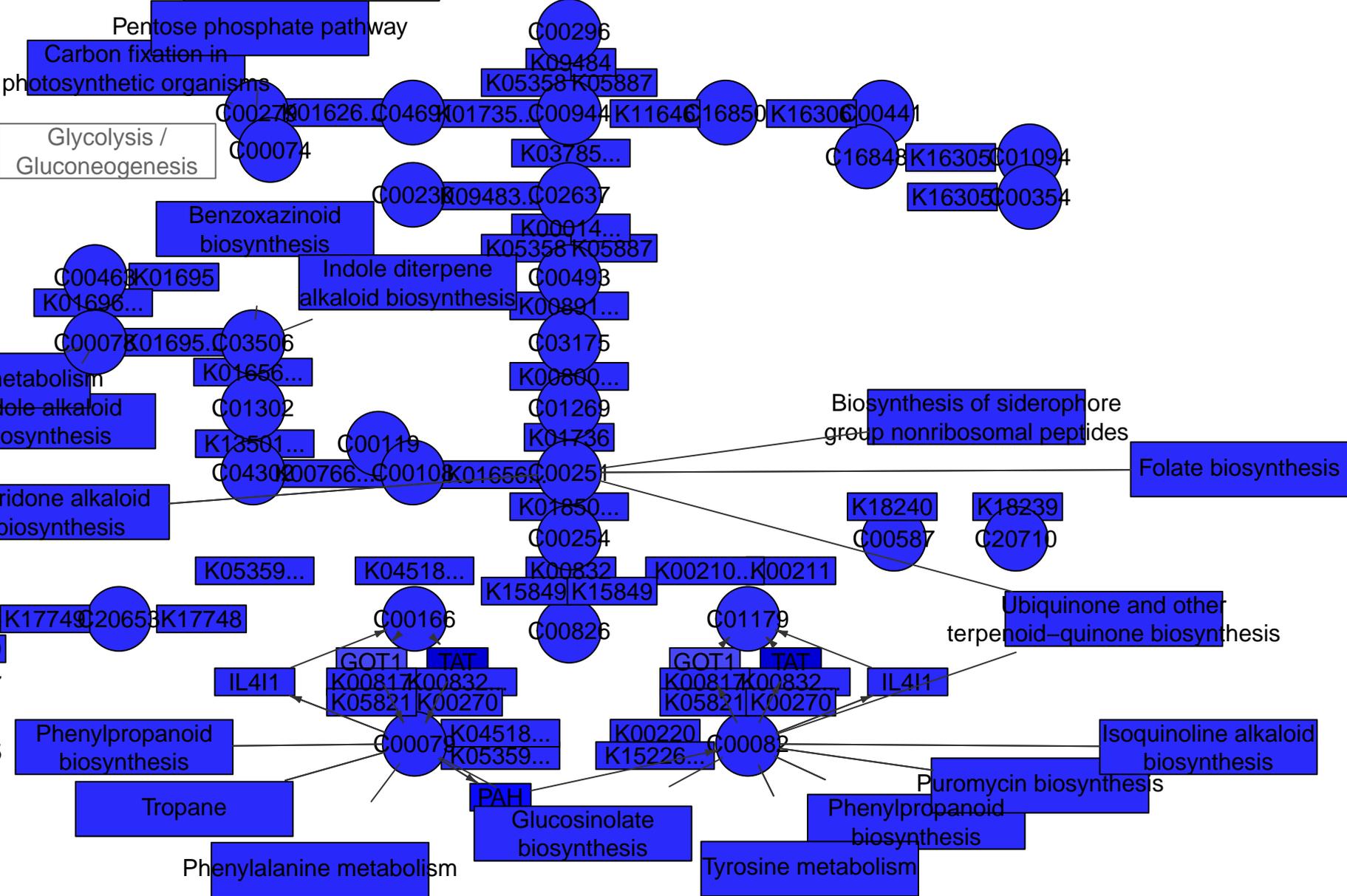
Phenylalanine  
MPI-070



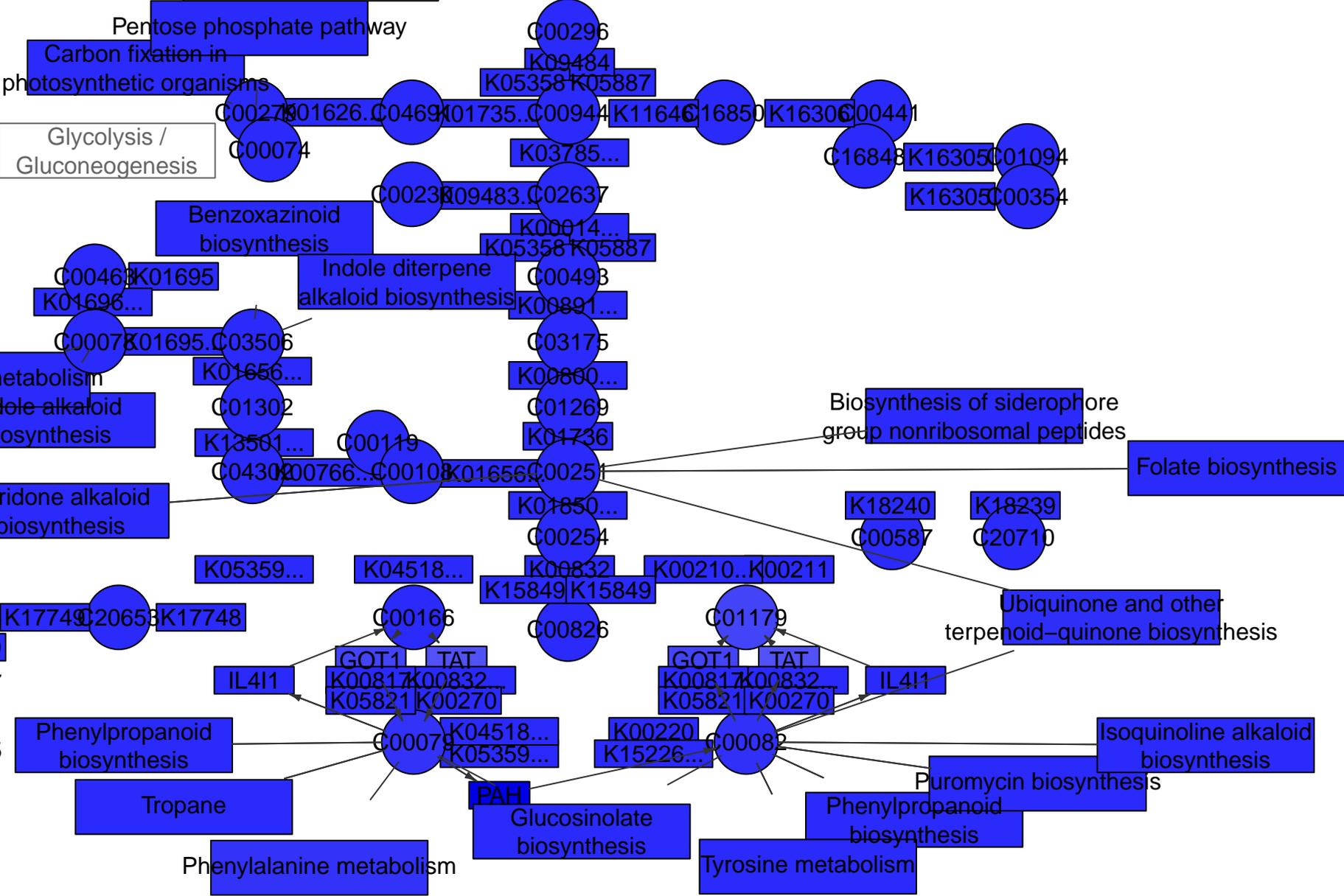
Phenylalanine  
MPI-072



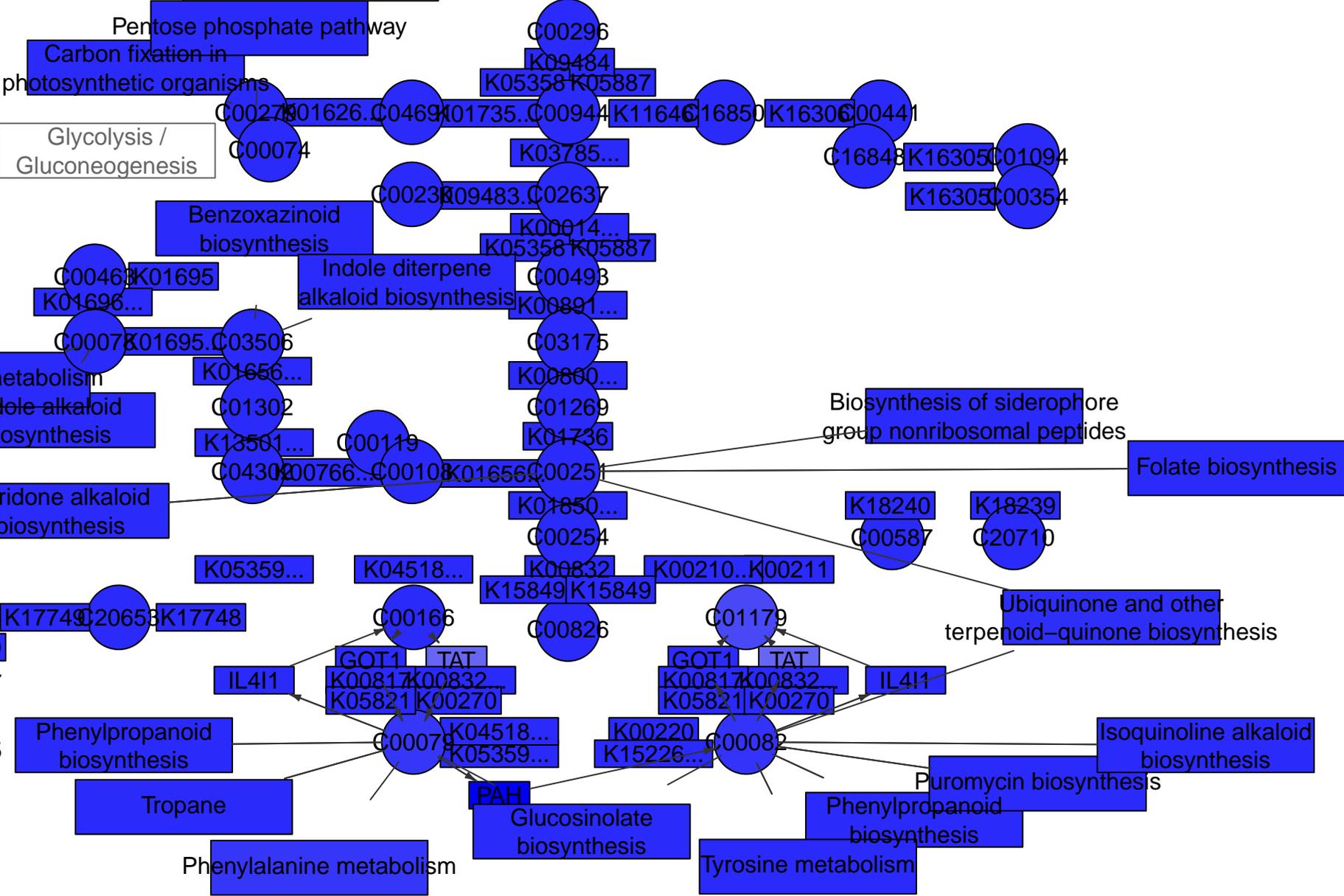
Phenylalanine  
MPI-093



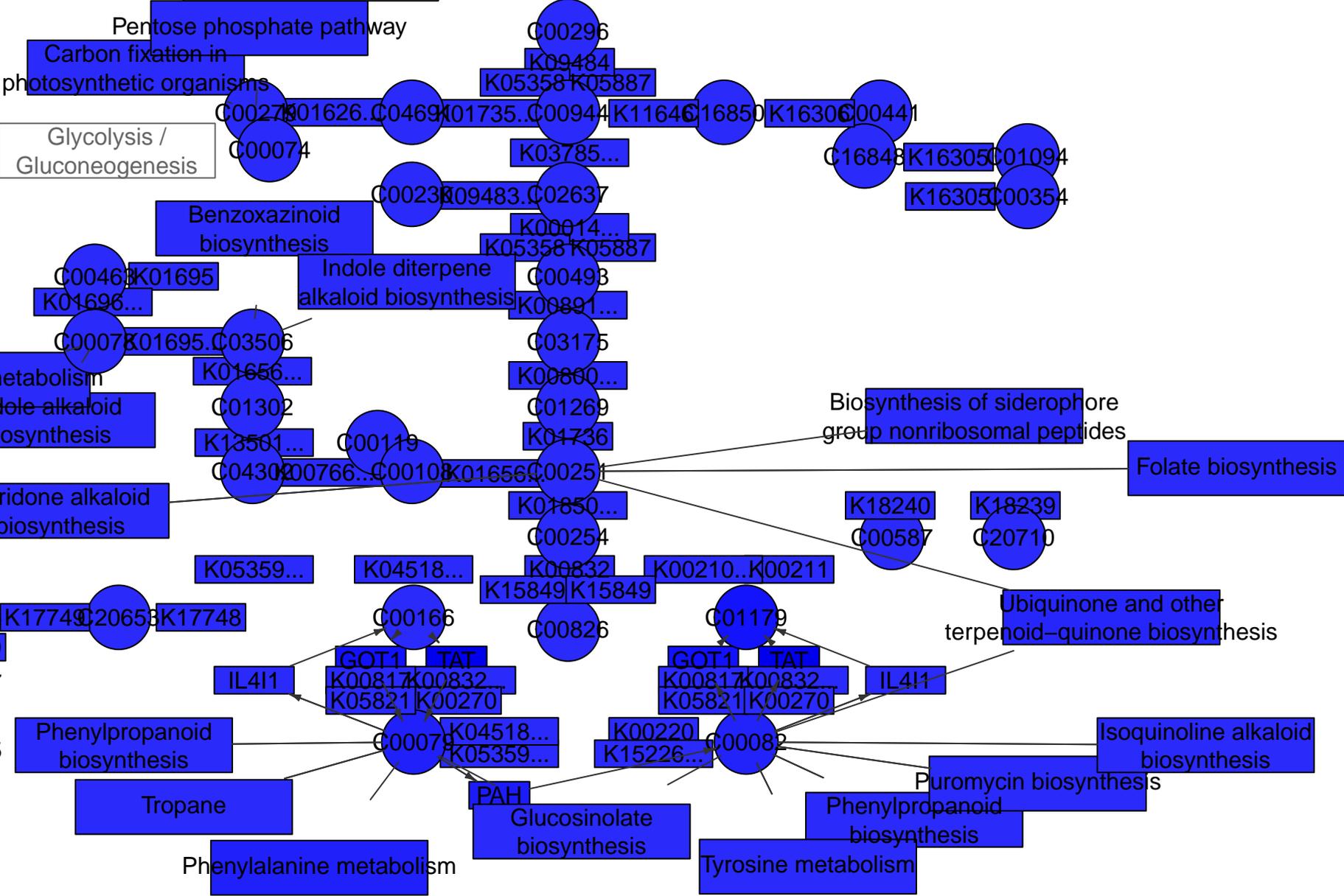
Phenylalanine  
MPI-094



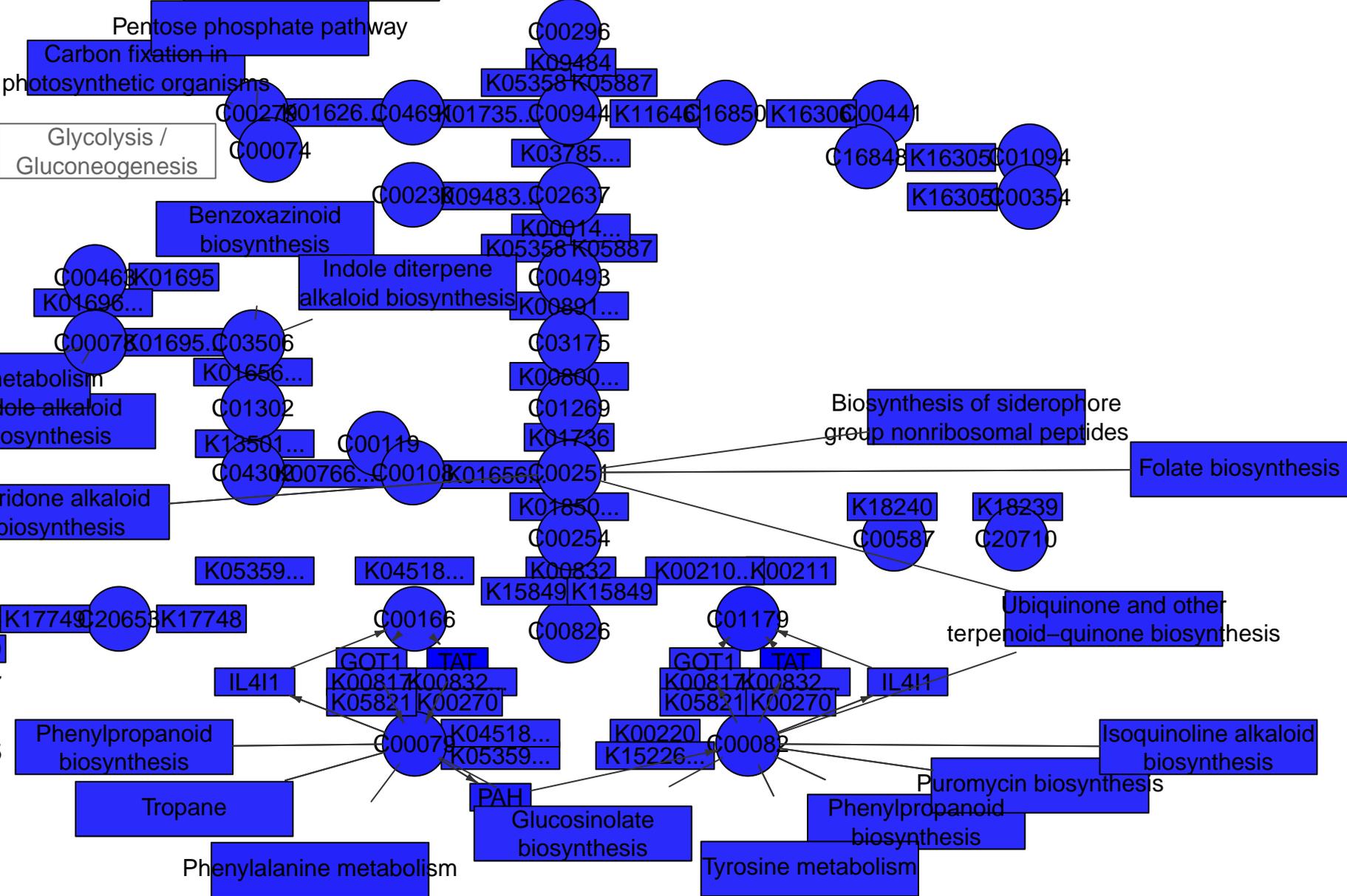
Phenylalanine  
MPI-099

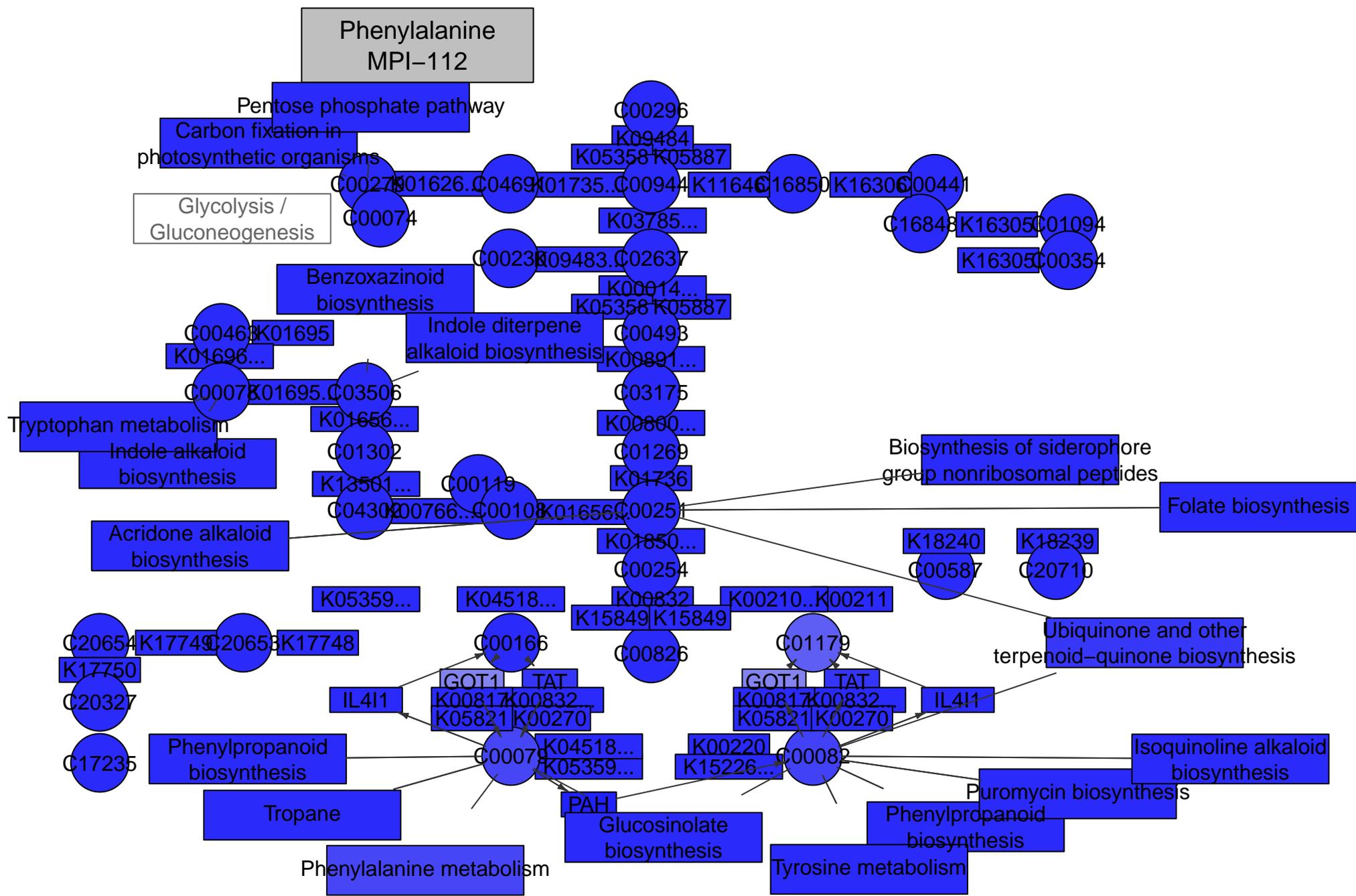


Phenylalanine  
MPI-104



Phenylalanine  
MPI-107





Phenylalanine  
MPI-116

Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Acridone alkaloid  
biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

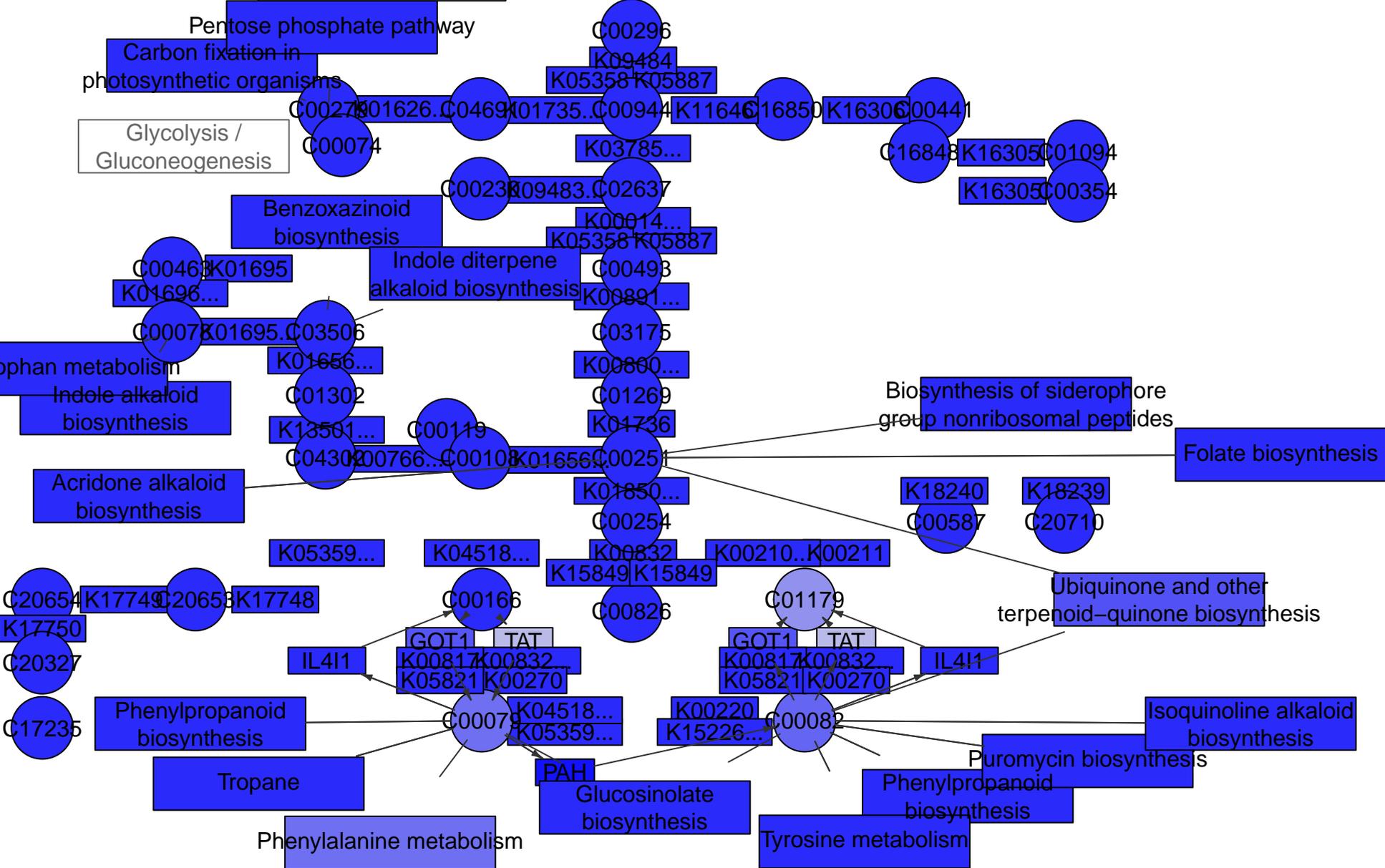
Glucosinolate  
biosynthesis

Tyrosine metabolism

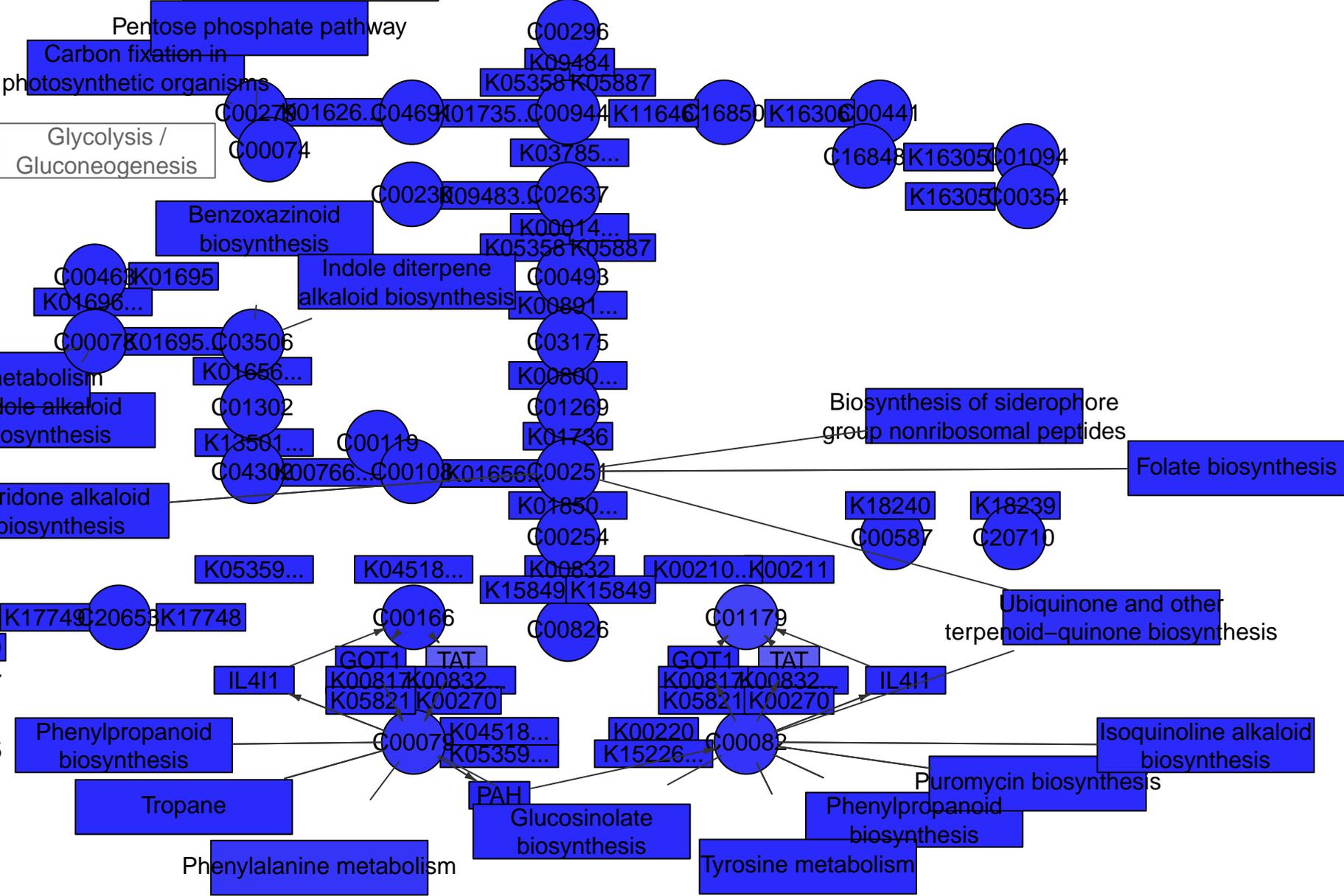
Phenylpropanoid  
biosynthesis

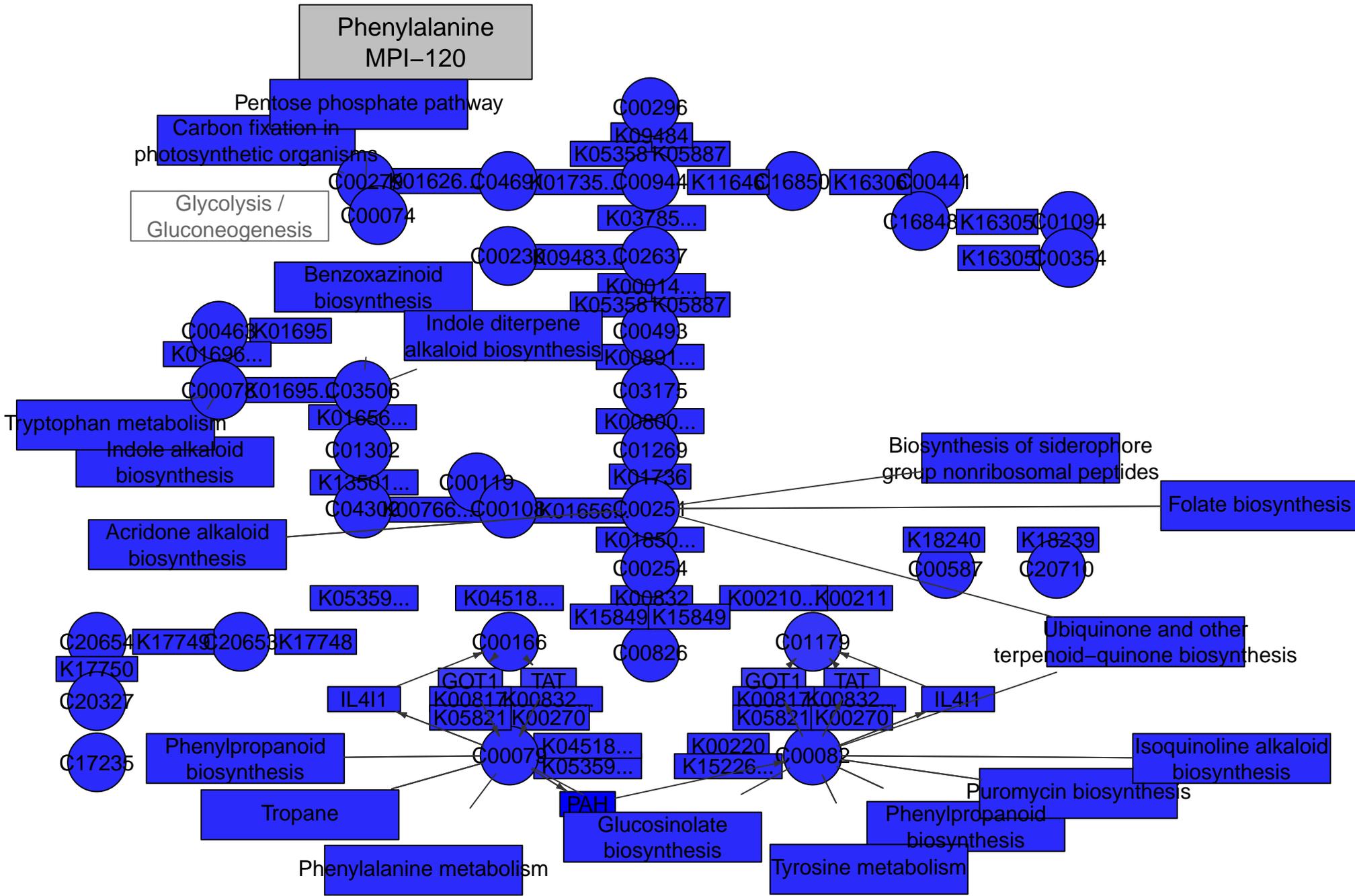
Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis



Phenylalanine  
MPI-117





Phenylalanine  
MPI-121

Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Acridone alkaloid  
biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Isoquinoline alkaloid  
biosynthesis

Puromycin biosynthesis

Phenylpropanoid  
biosynthesis

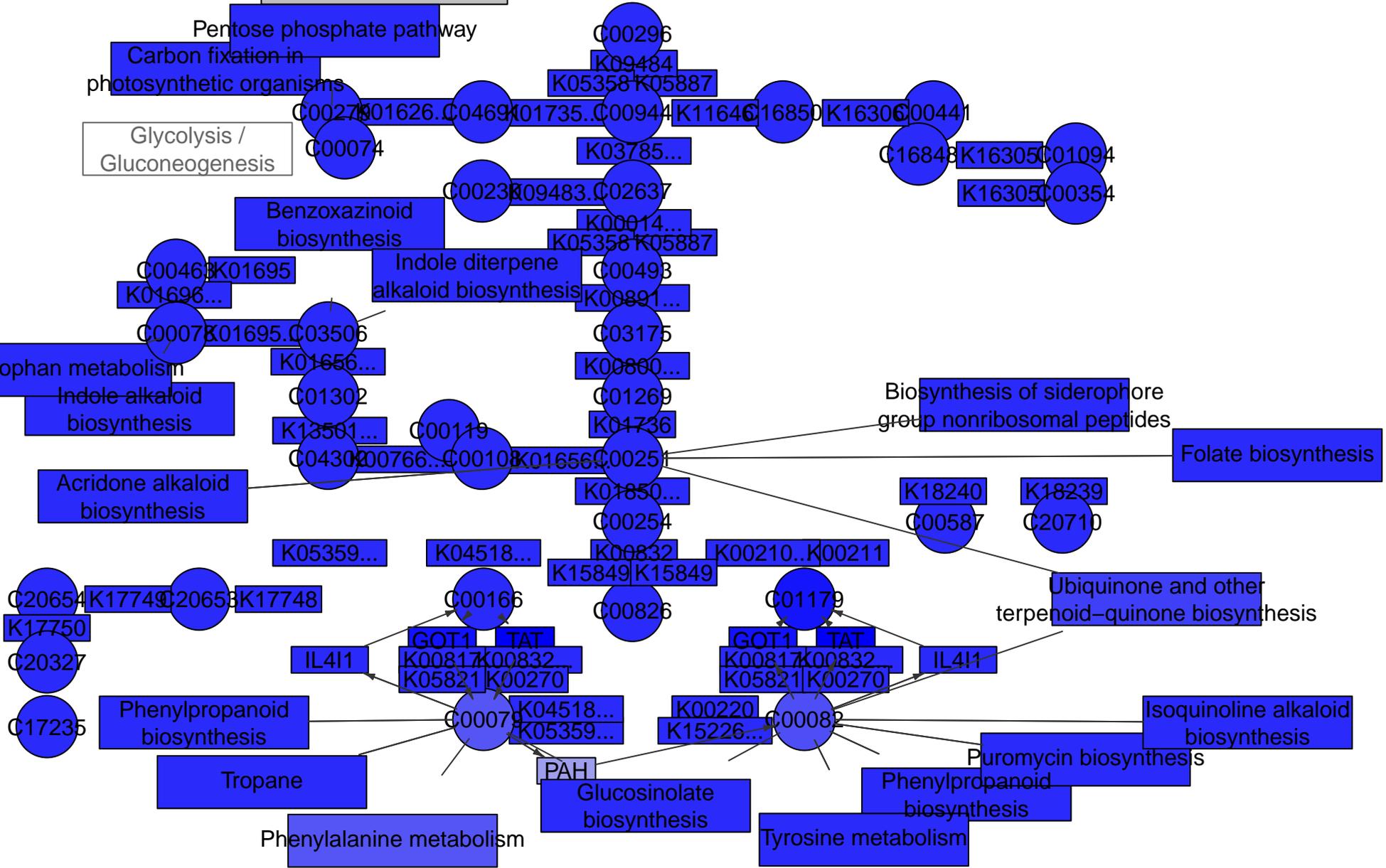
Tropane

Phenylalanine metabolism

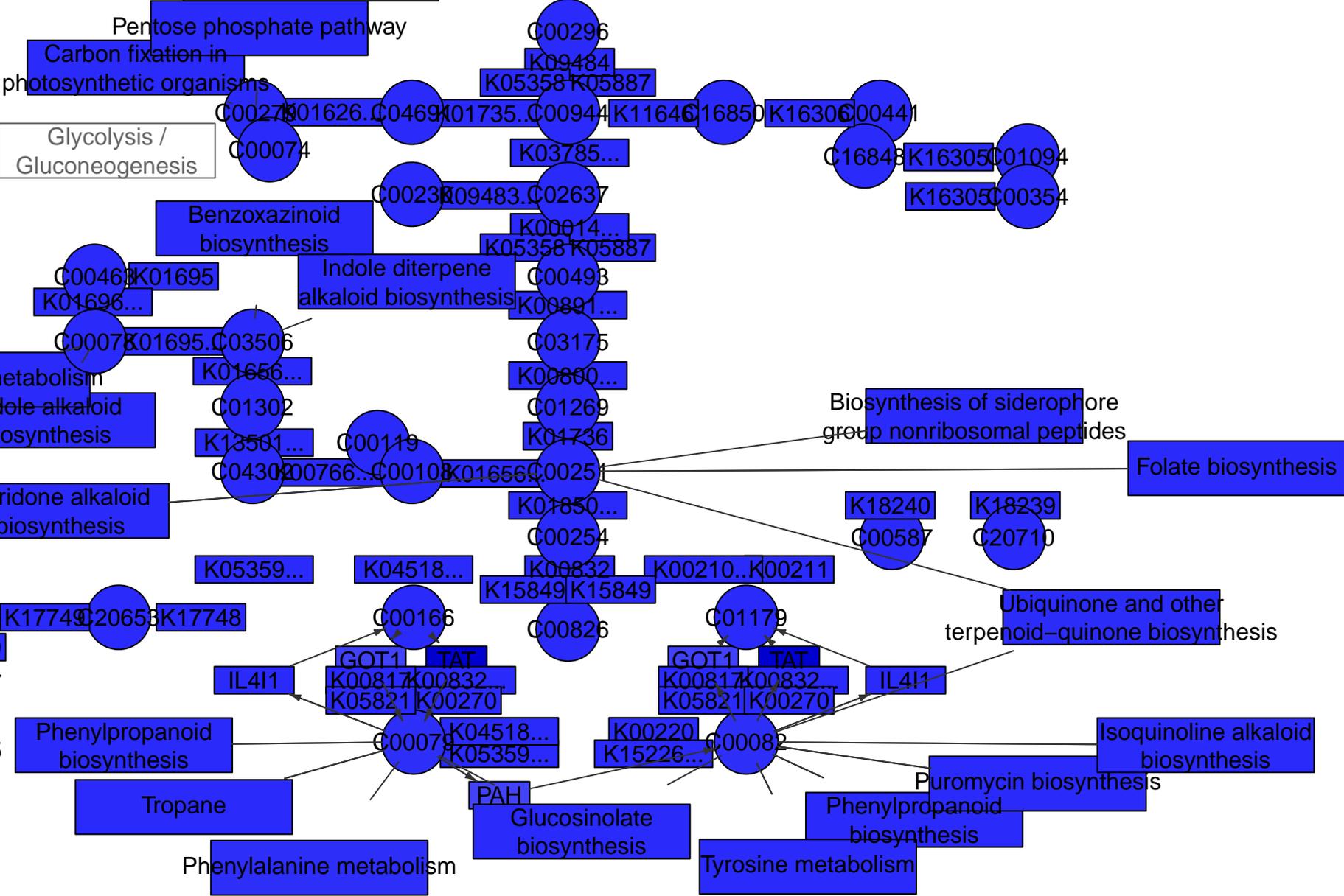
Glucosinolate  
biosynthesis

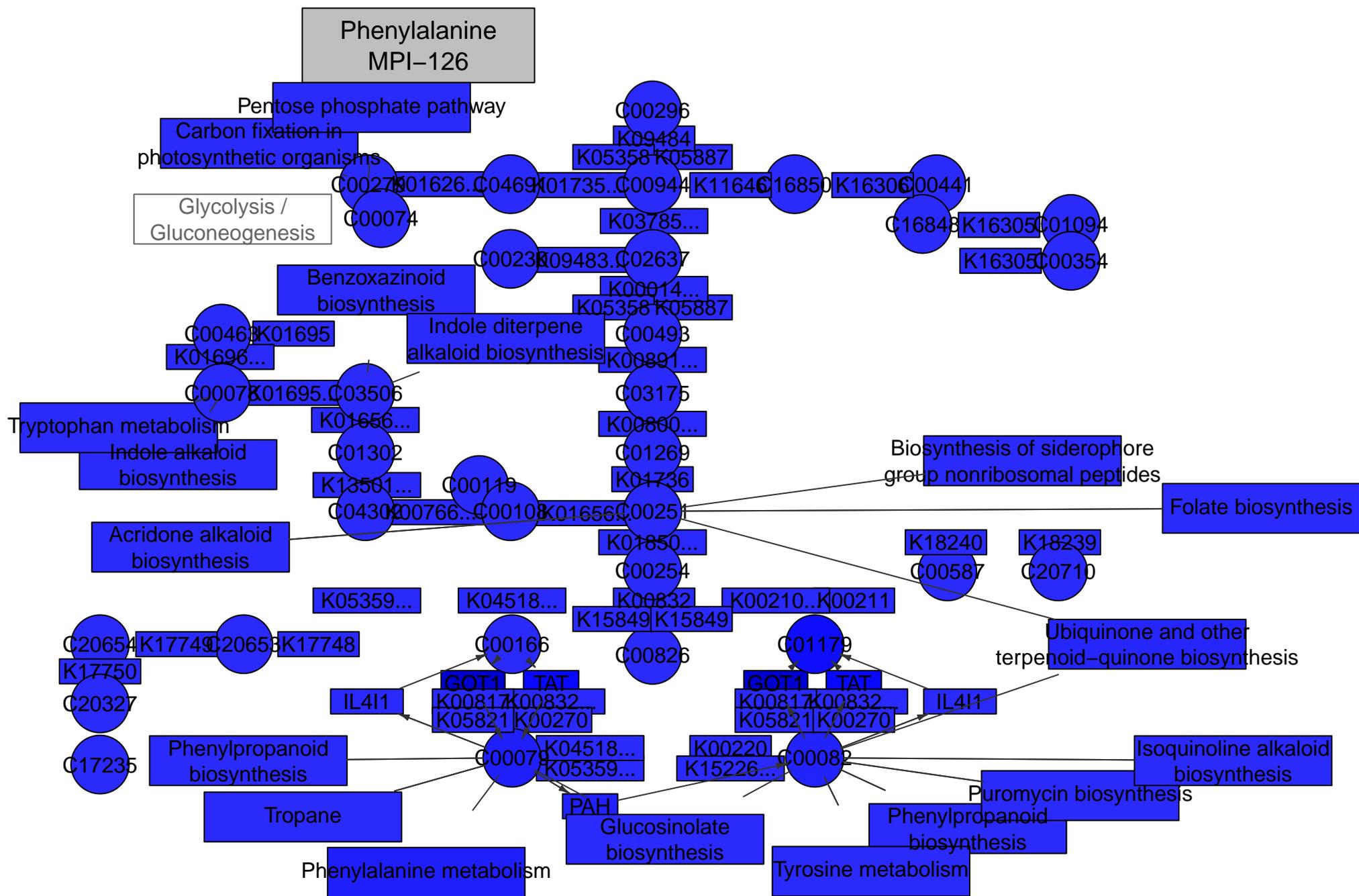
Tyrosine metabolism

Phenylpropanoid  
biosynthesis

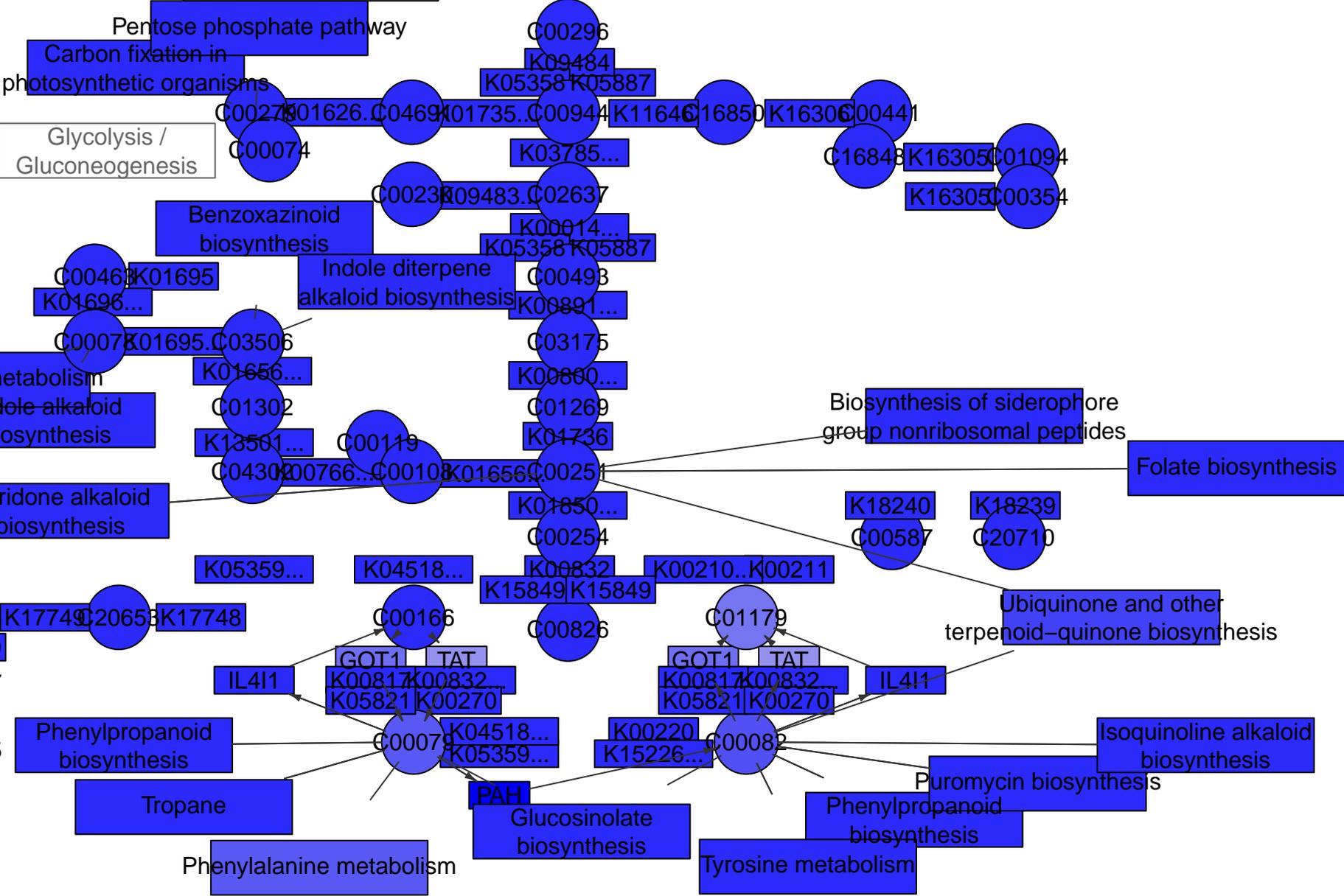


Phenylalanine  
MPI-124

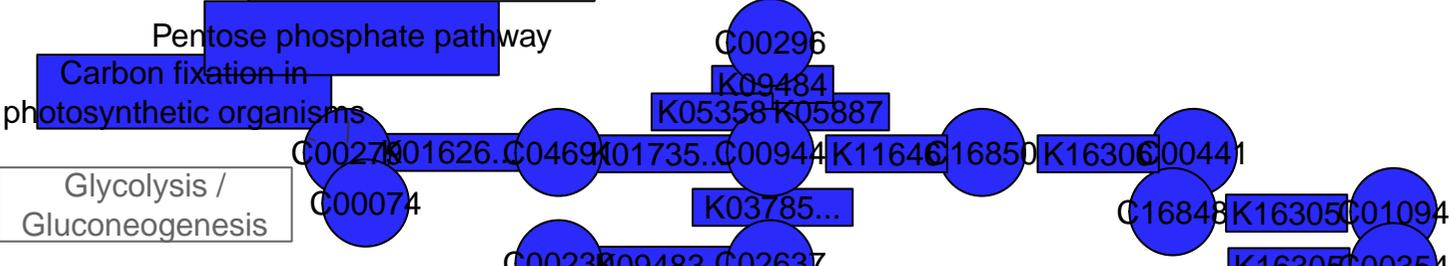




Phenylalanine  
MPI-131



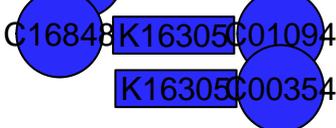
Phenylalanine  
MPI-143



Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

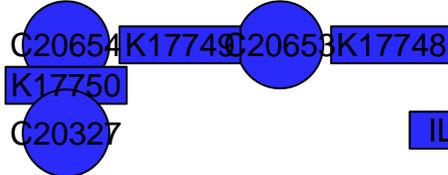
Indole diterpene  
alkaloid biosynthesis



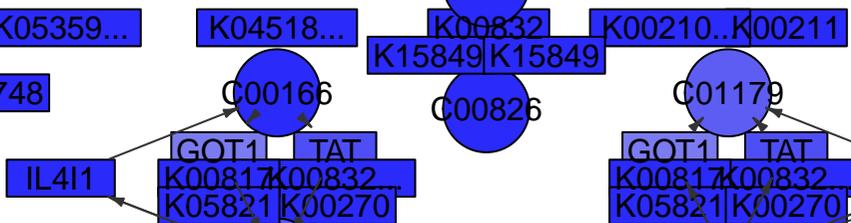
Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides  
Folate biosynthesis

Acridone alkaloid  
biosynthesis



Ubiquinone and other  
terpenoid-quinone biosynthesis



Phenylpropanoid  
biosynthesis

Isoquinoline alkaloid  
biosynthesis  
Puromycin biosynthesis

Tropane

Glucosinolate  
biosynthesis

Phenylpropanoid  
biosynthesis

Phenylalanine metabolism

Tyrosine metabolism

Phenylalanine  
MPI-148

Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

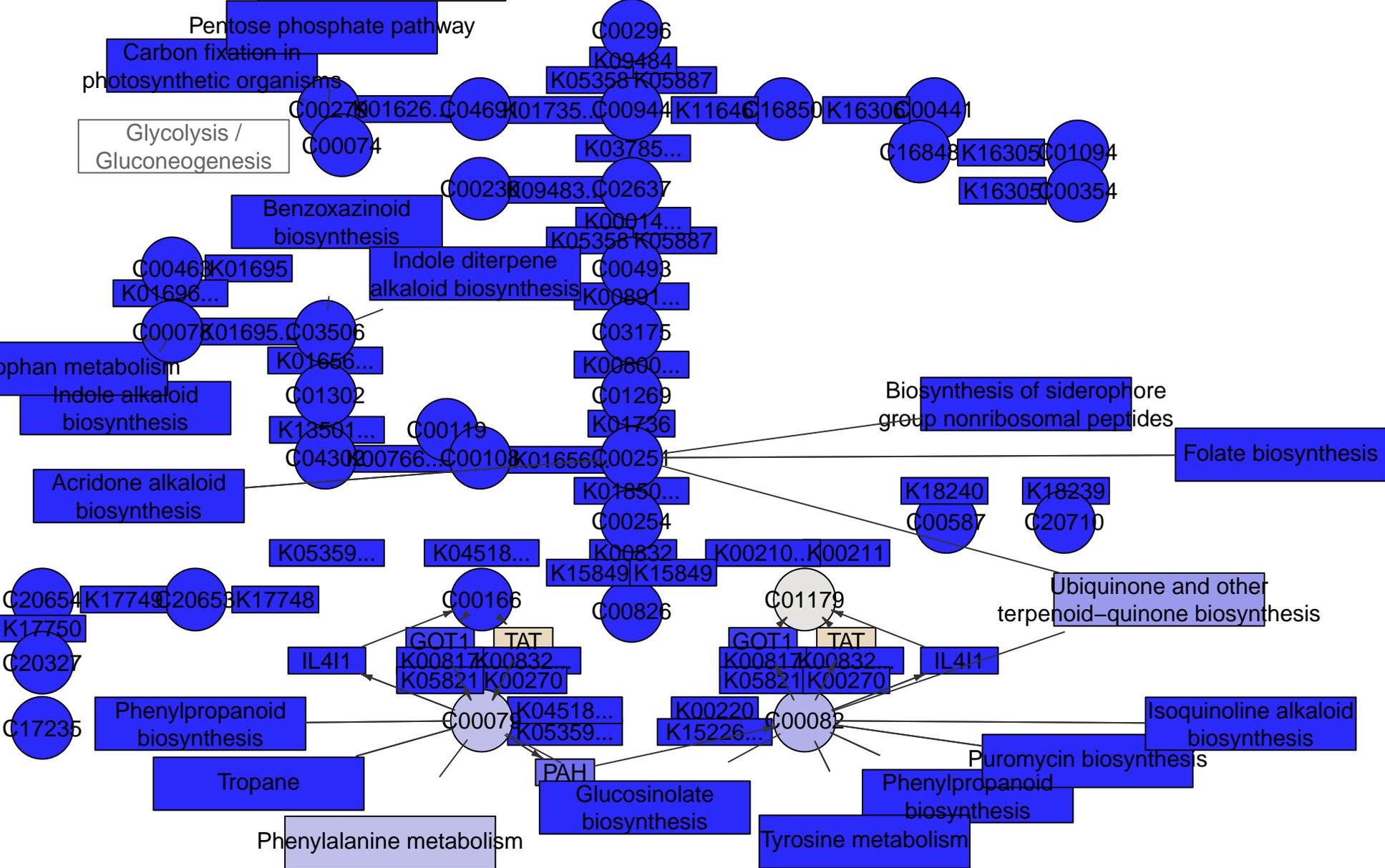
Glucosinolate  
biosynthesis

Tyrosine metabolism

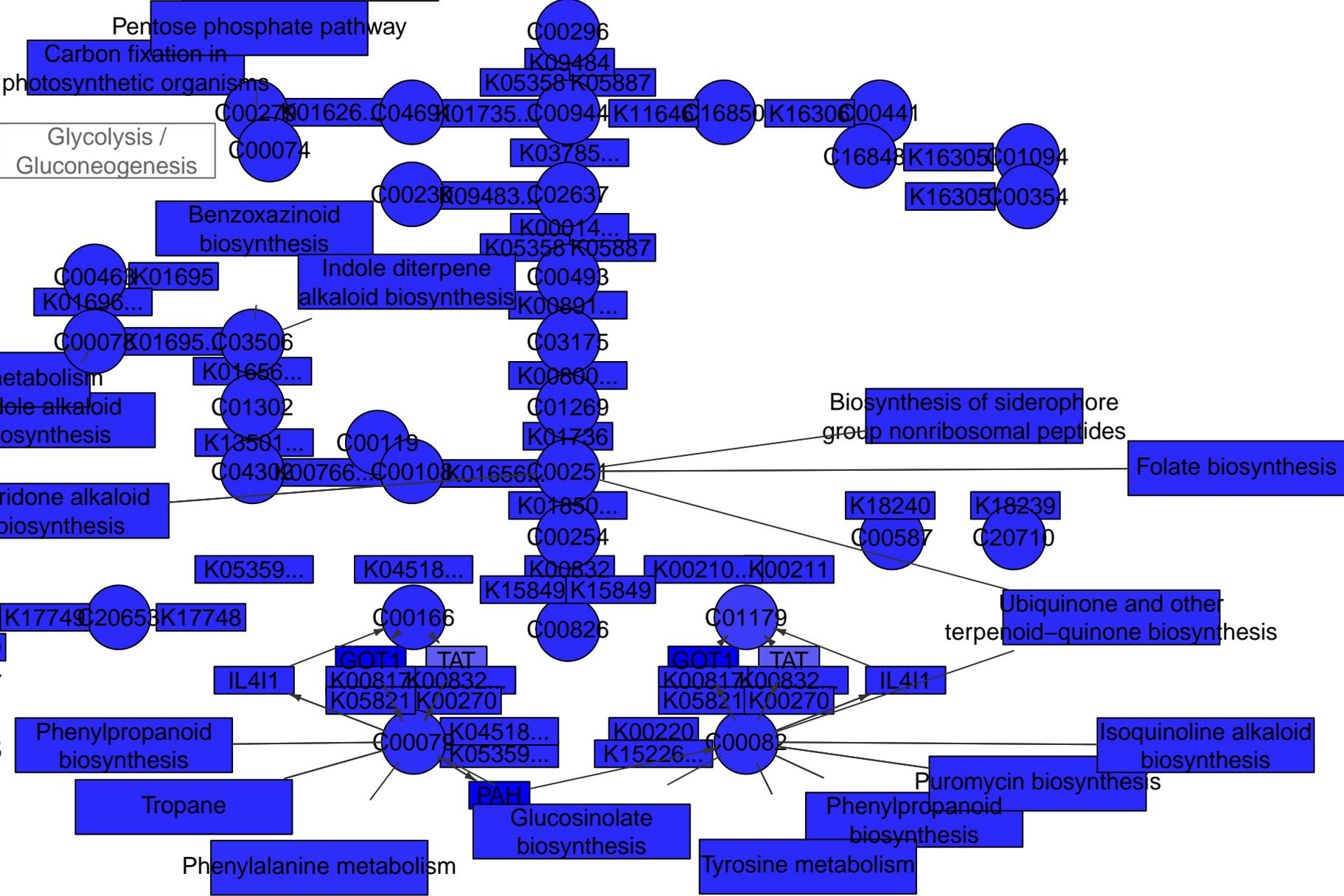
Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

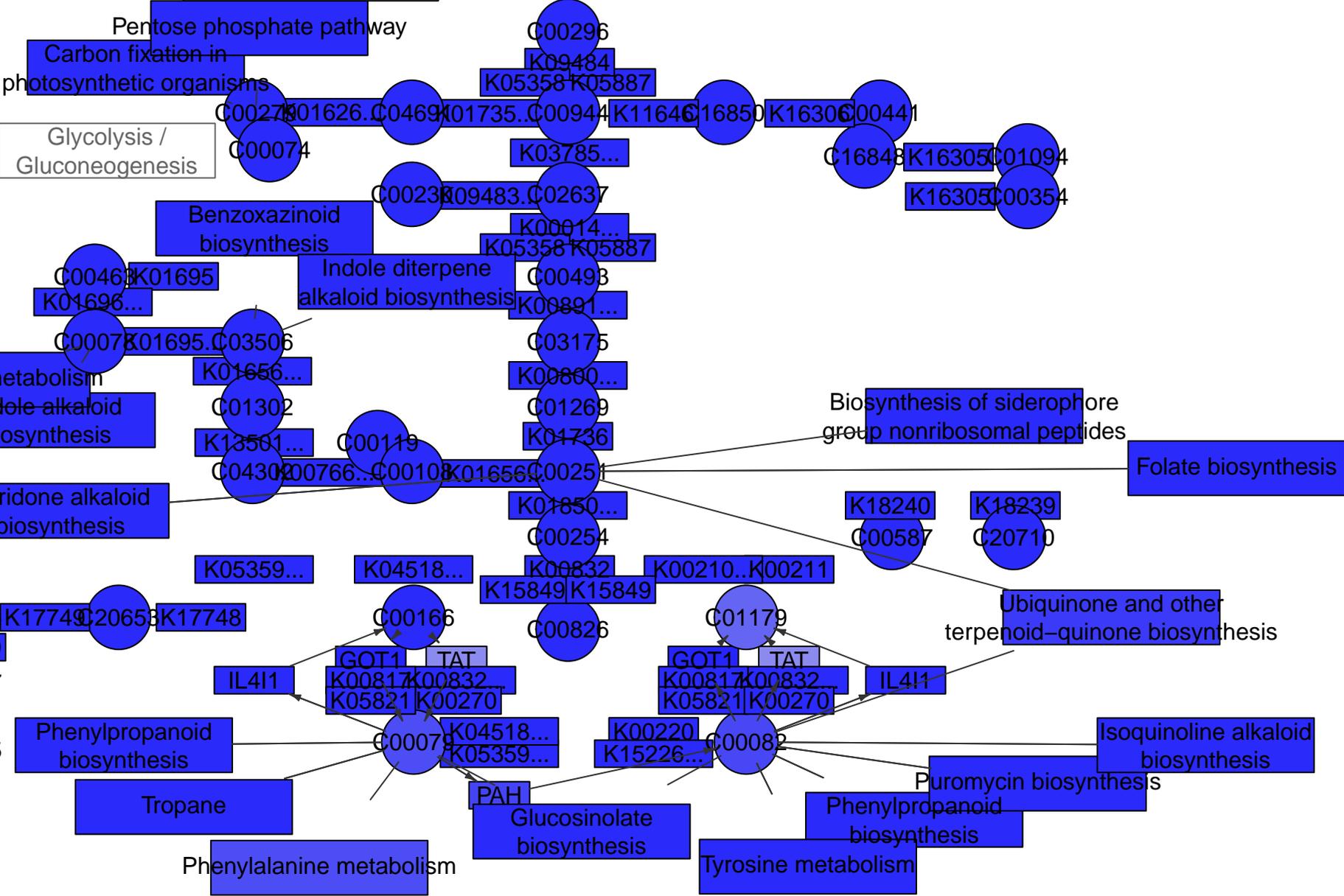
Isoquinoline alkaloid  
biosynthesis



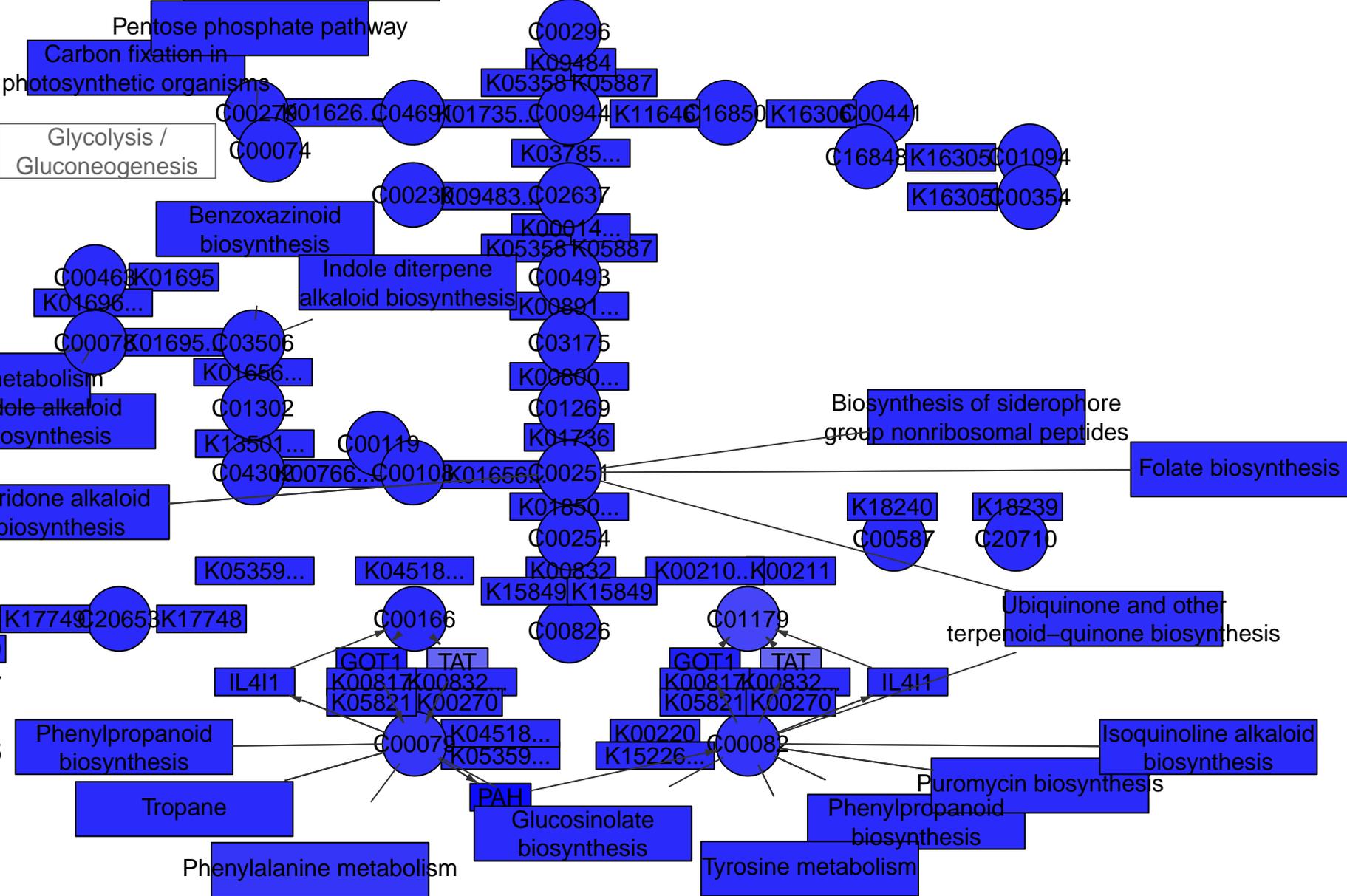
Phenylalanine  
MPI-161

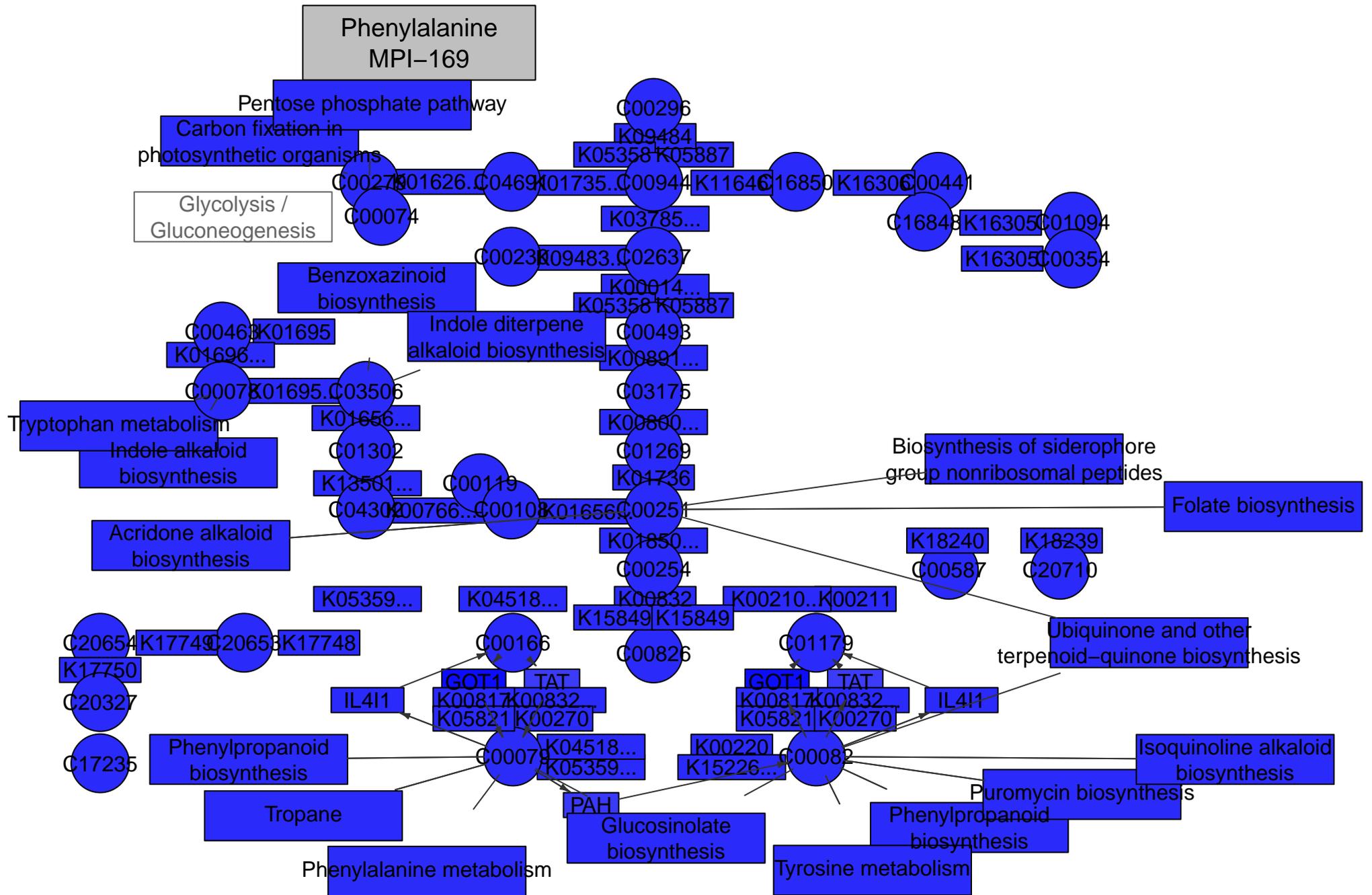


Phenylalanine  
MPI-162



Phenylalanine  
MPI-165







Phenylalanine  
MPI-187

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

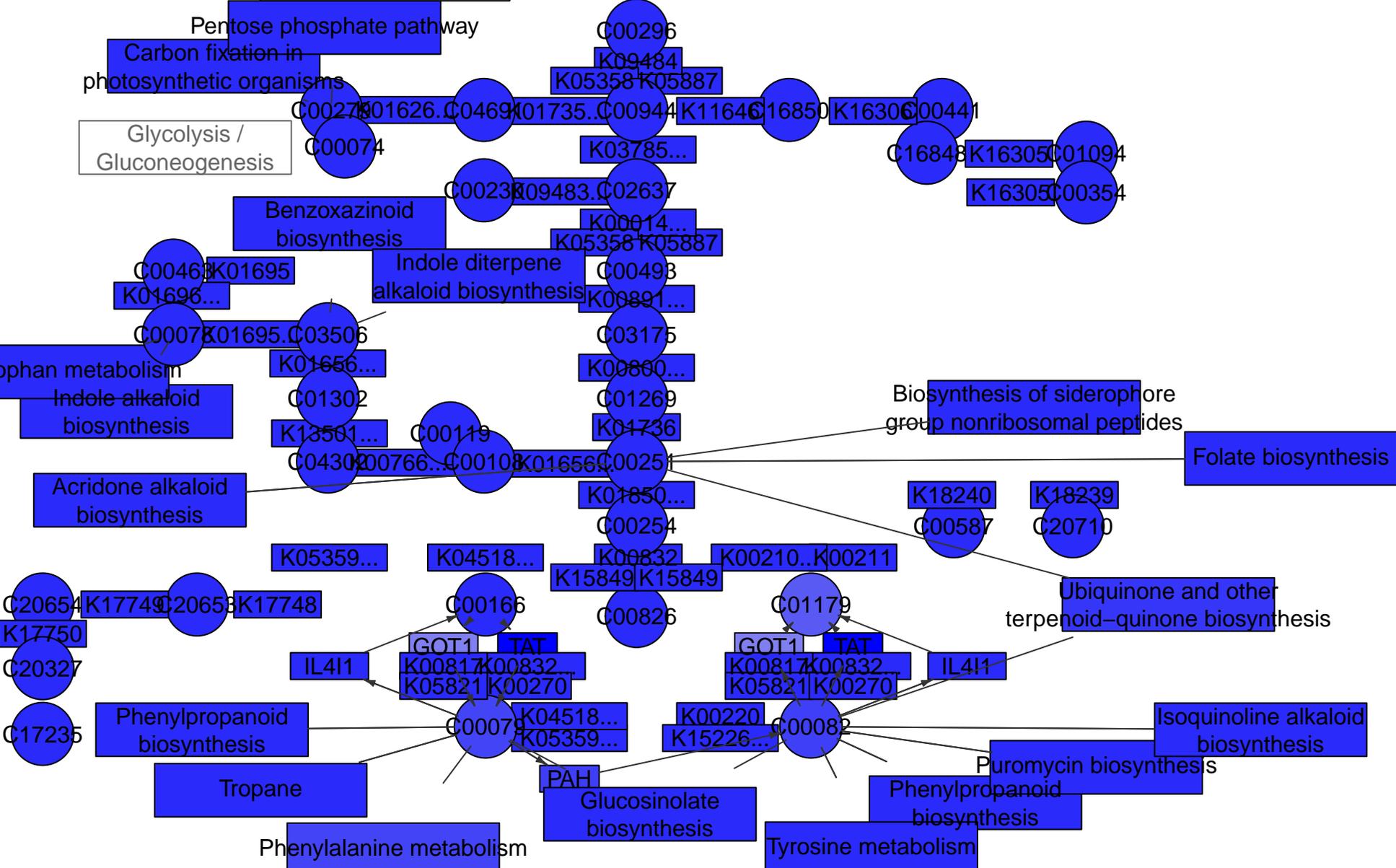
Glucosinolate  
biosynthesis

Tyrosine metabolism

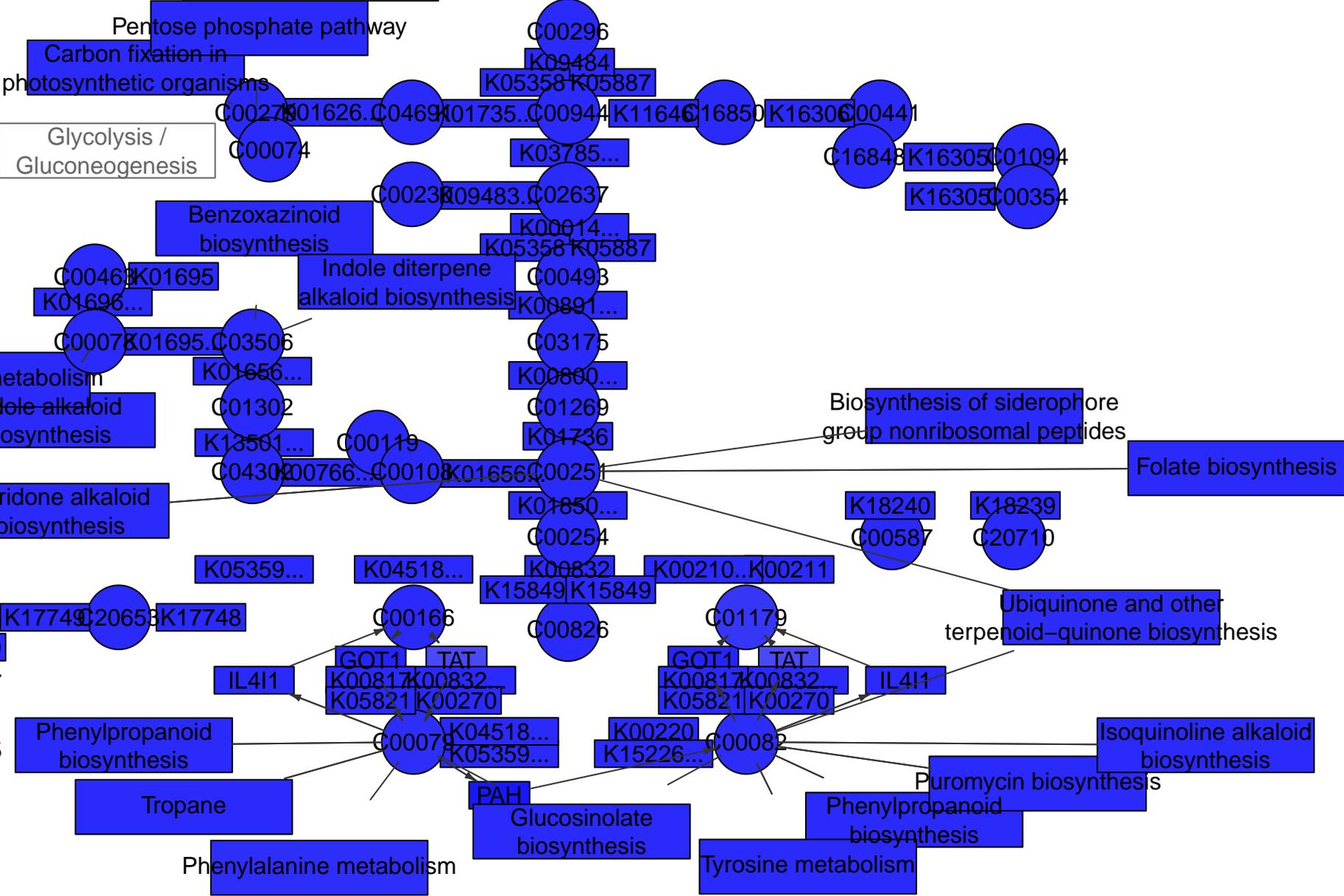
Phenylpropanoid  
biosynthesis

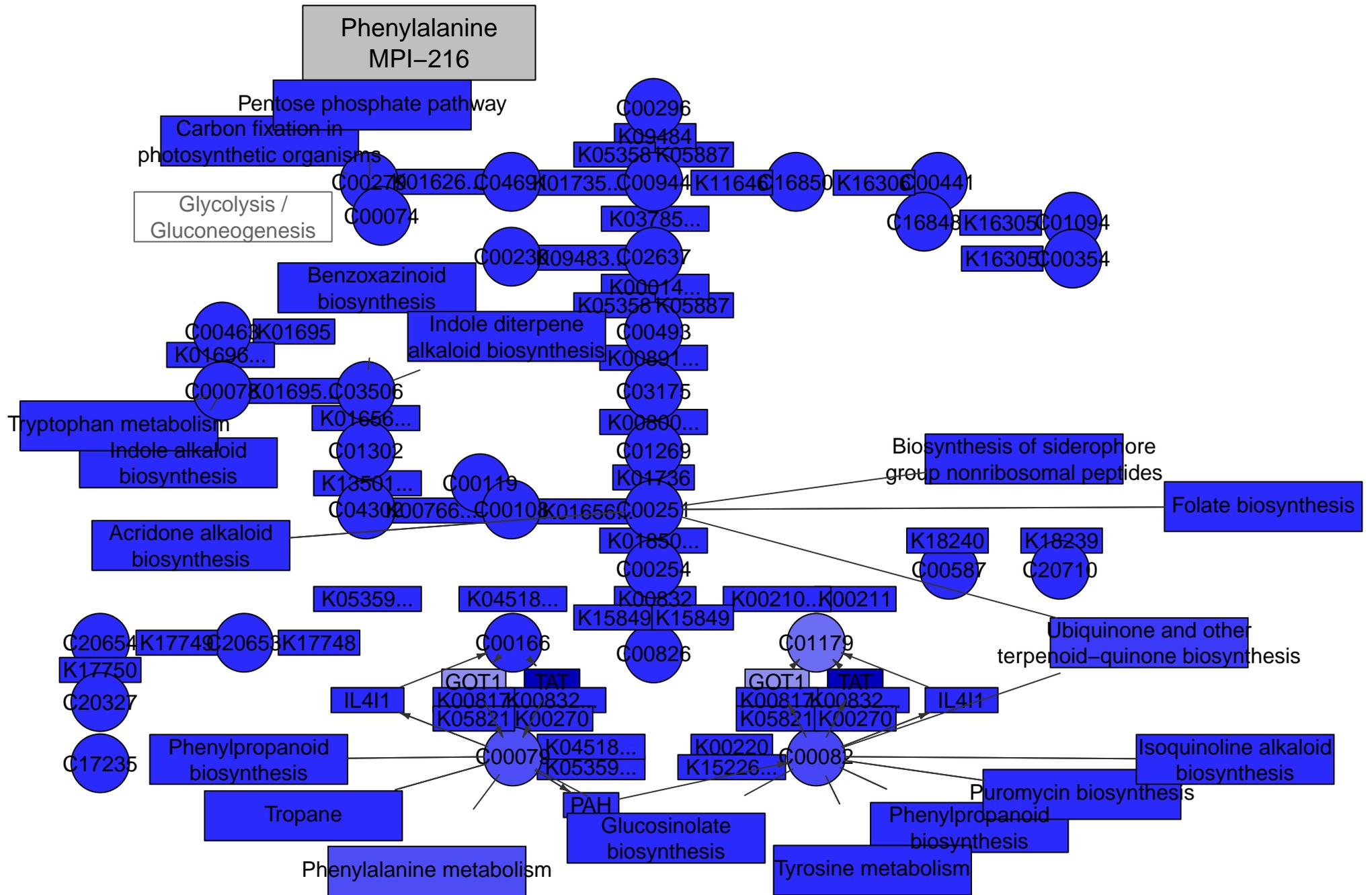
Puromycin biosynthesis

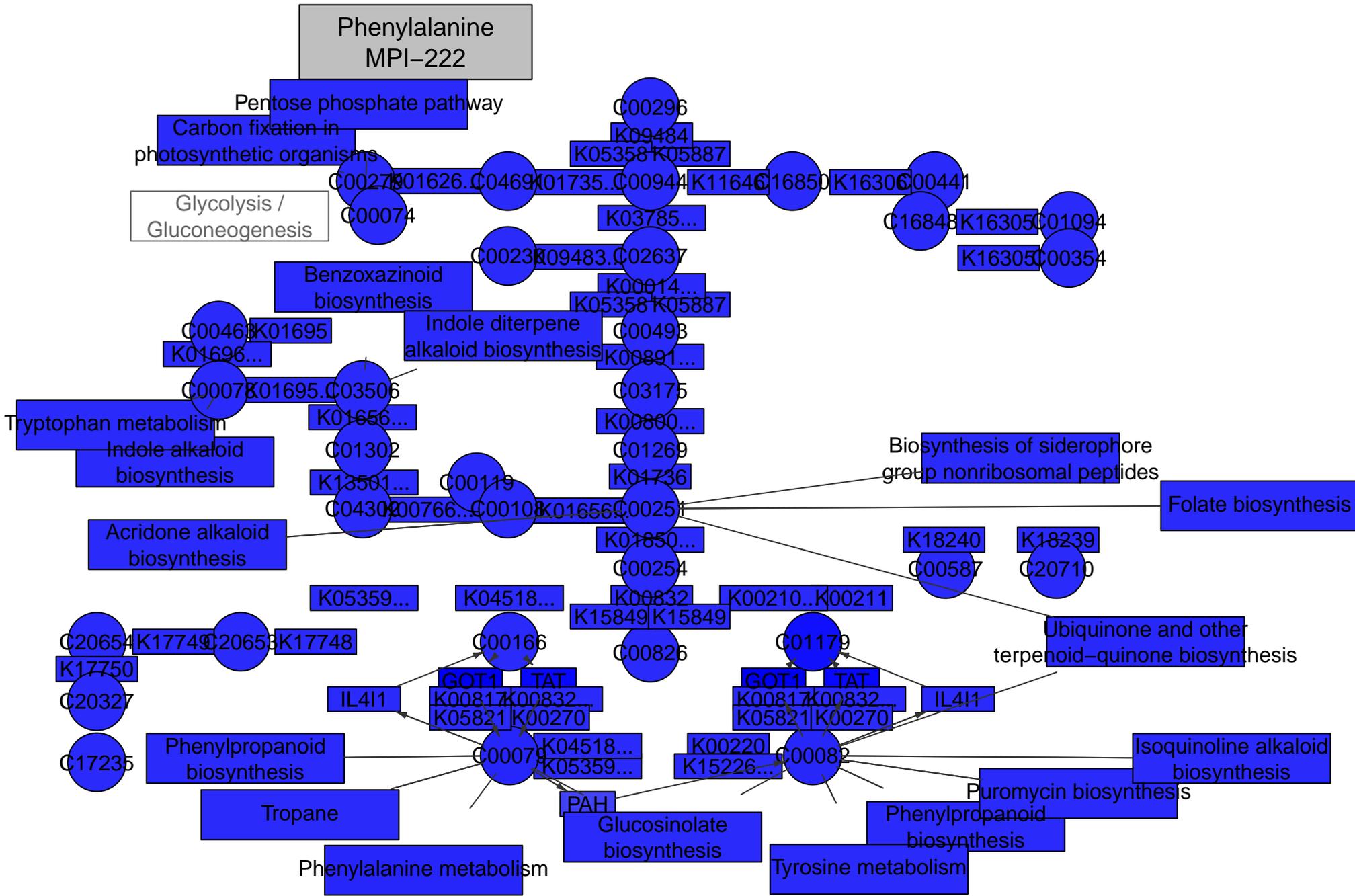
Isoquinoline alkaloid  
biosynthesis



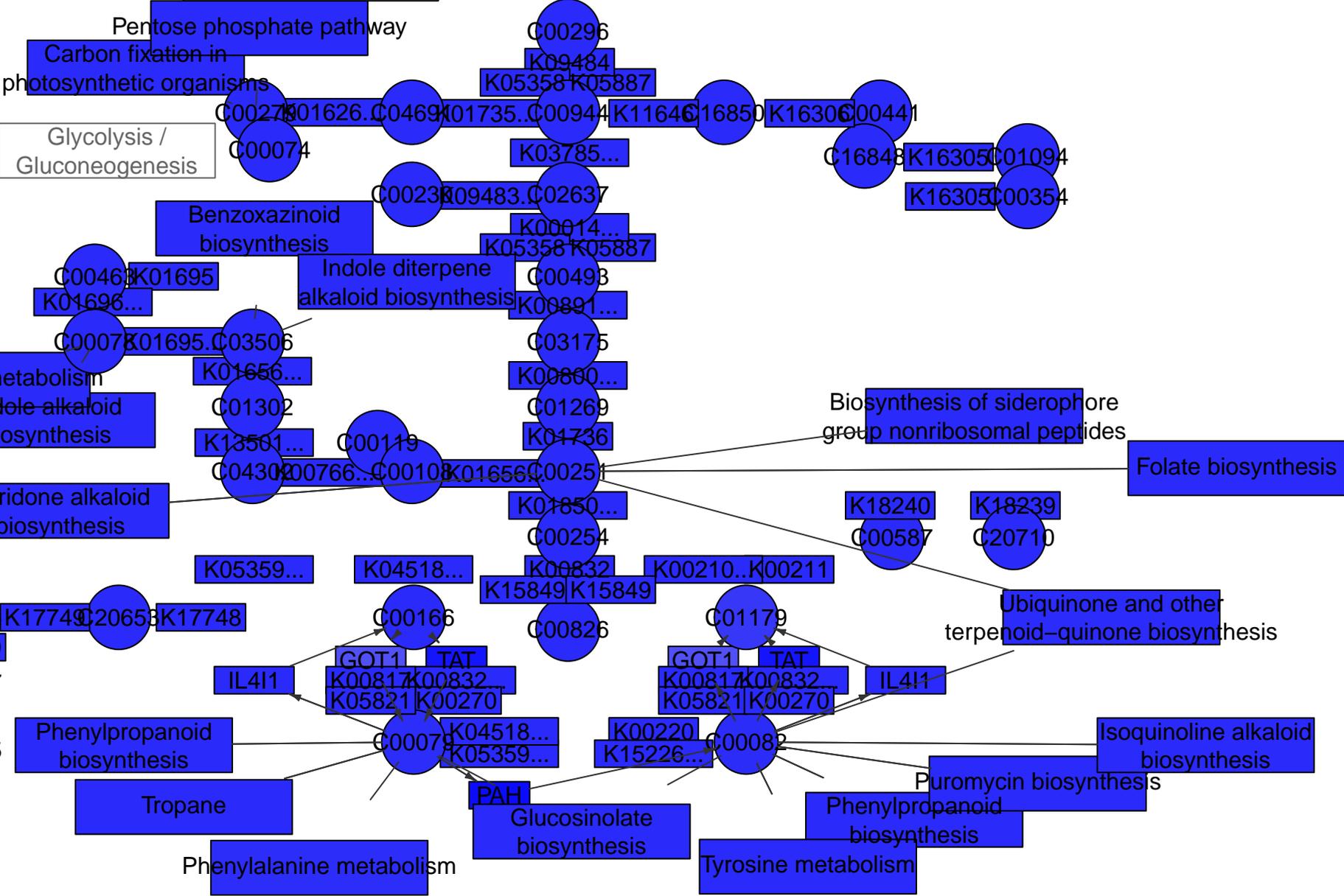
Phenylalanine  
MPI-193



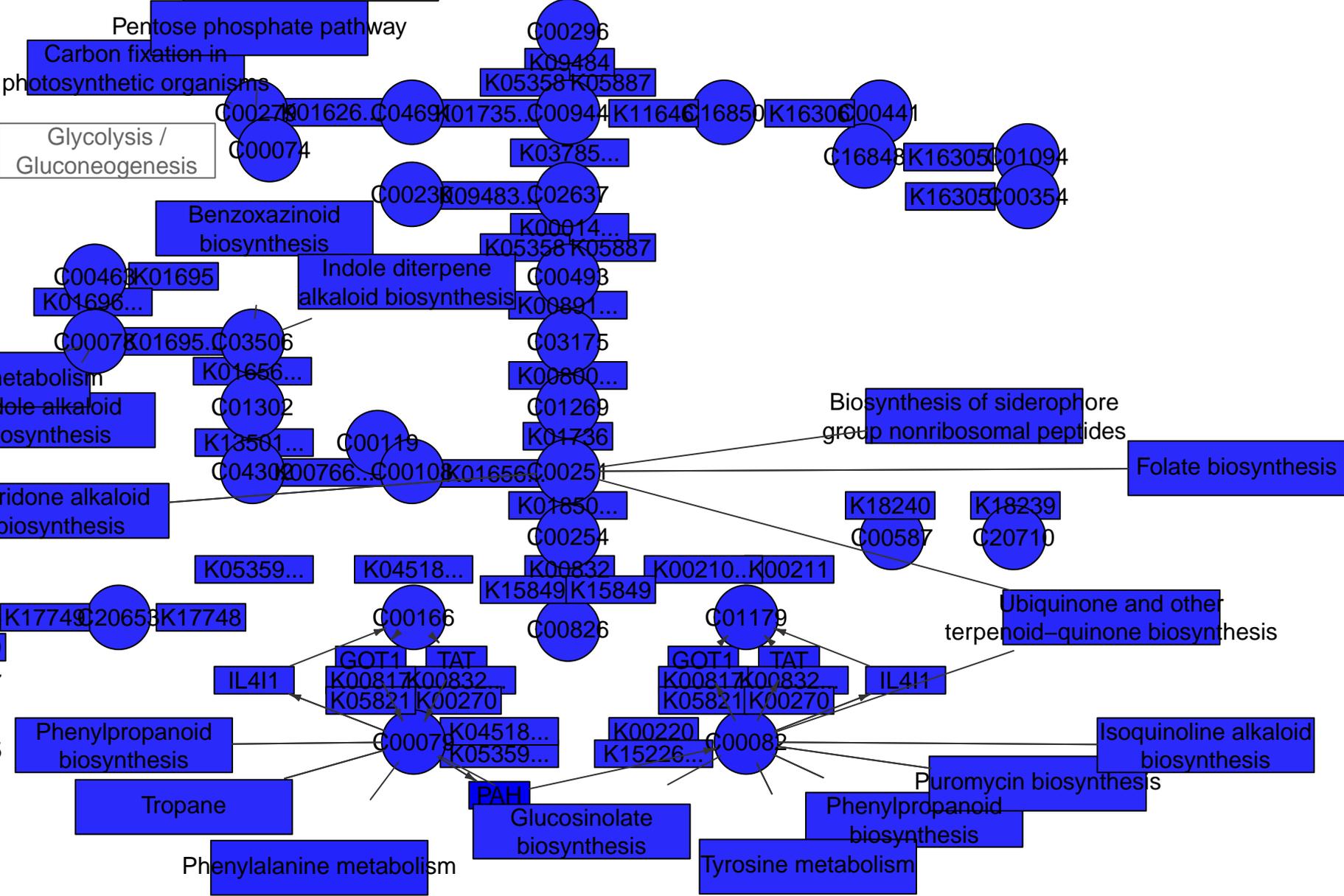


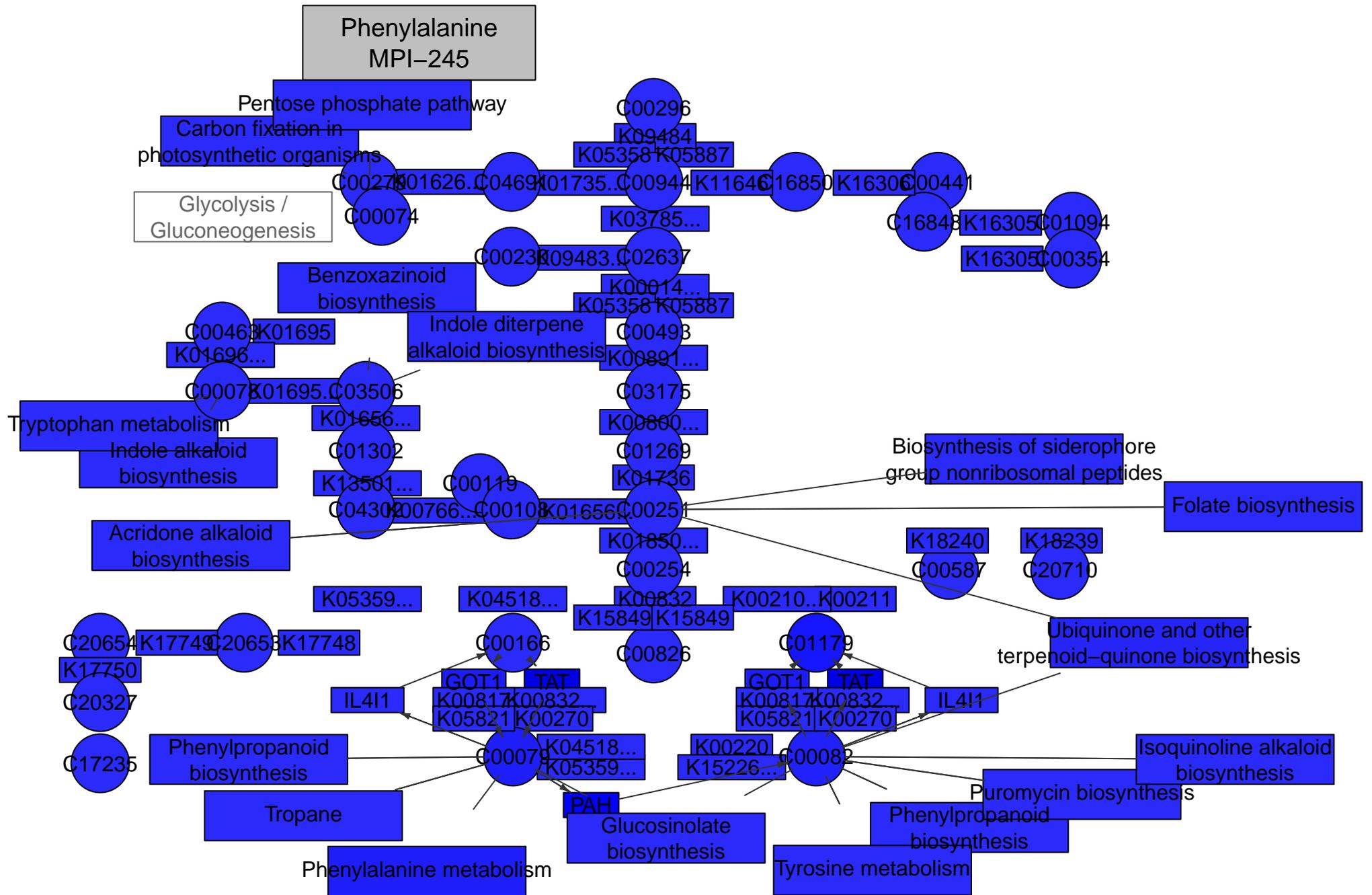


Phenylalanine  
MPI-225

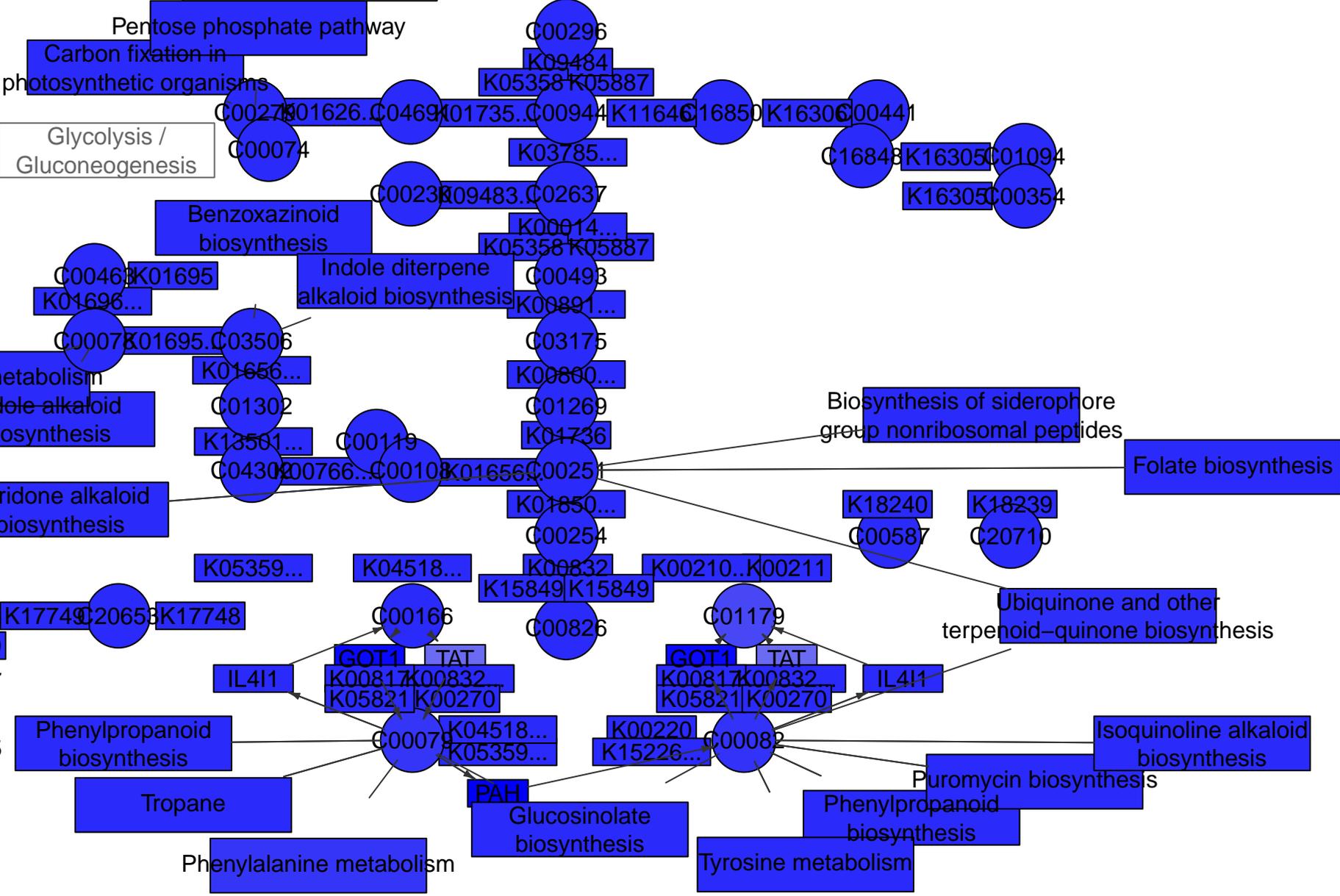


Phenylalanine  
MPI-242

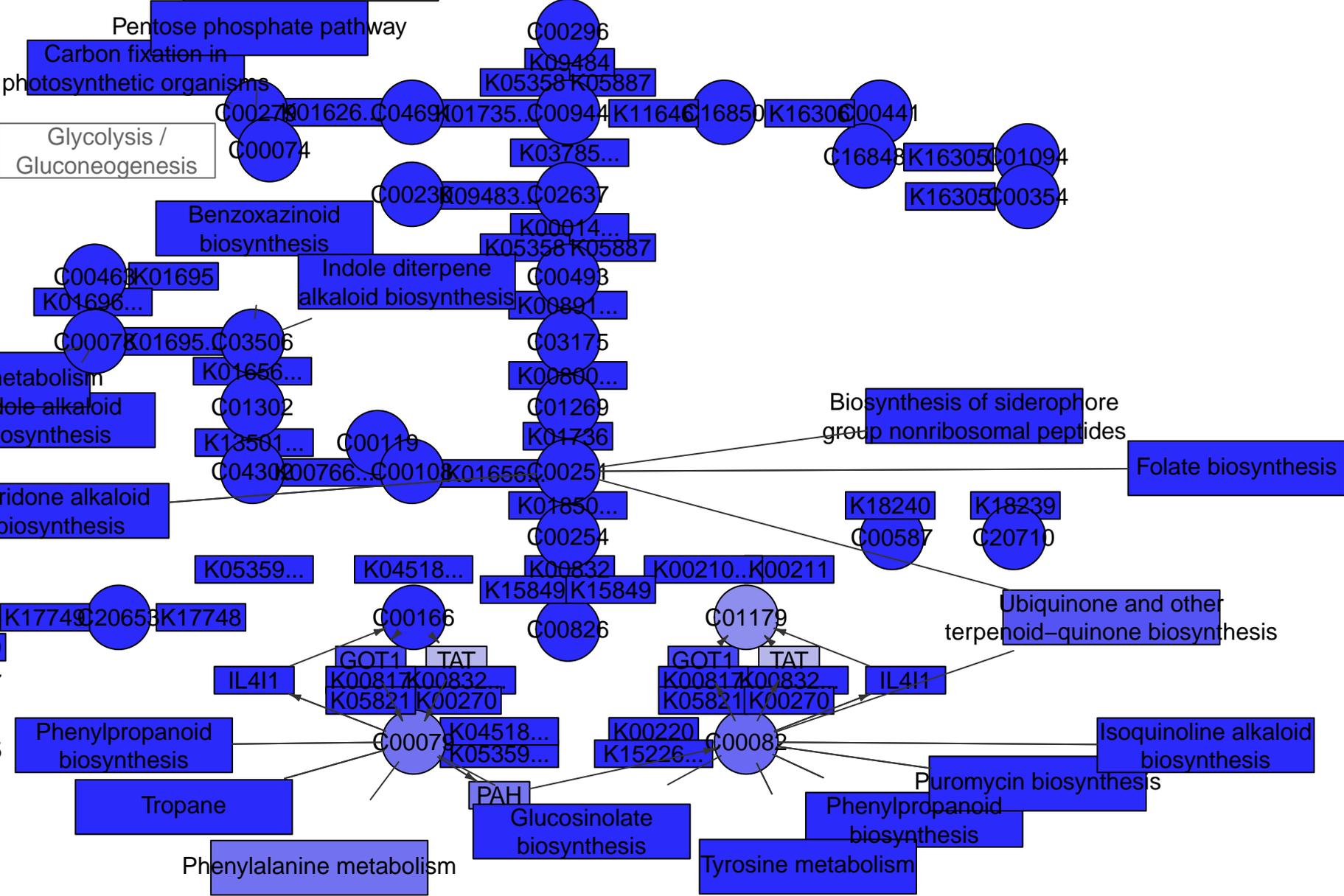




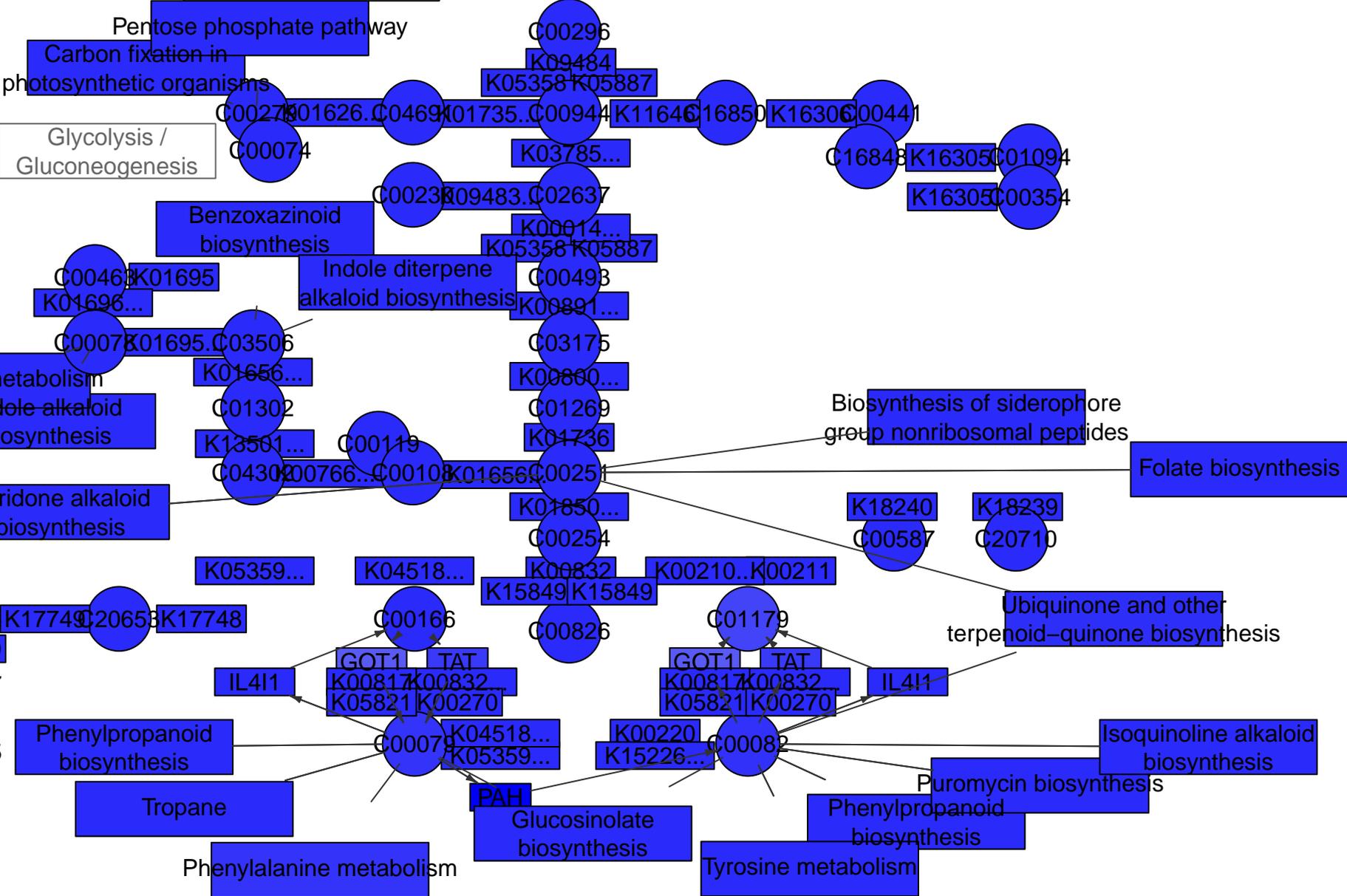
Phenylalanine  
MPI-248

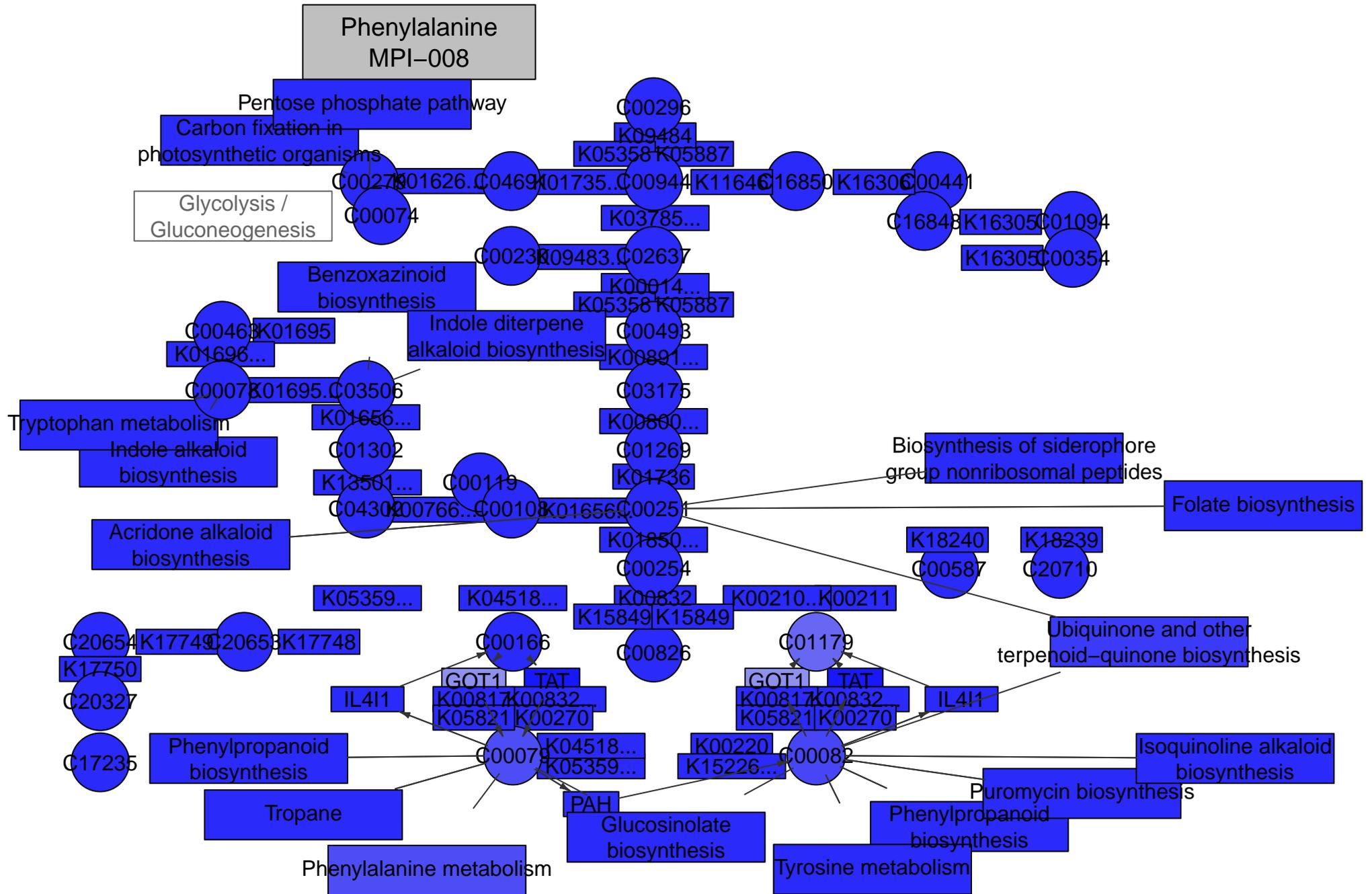


Phenylalanine  
MPI-249



Phenylalanine  
MPI-250







Phenylalanine  
MPI-010

Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Acridone alkaloid  
biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

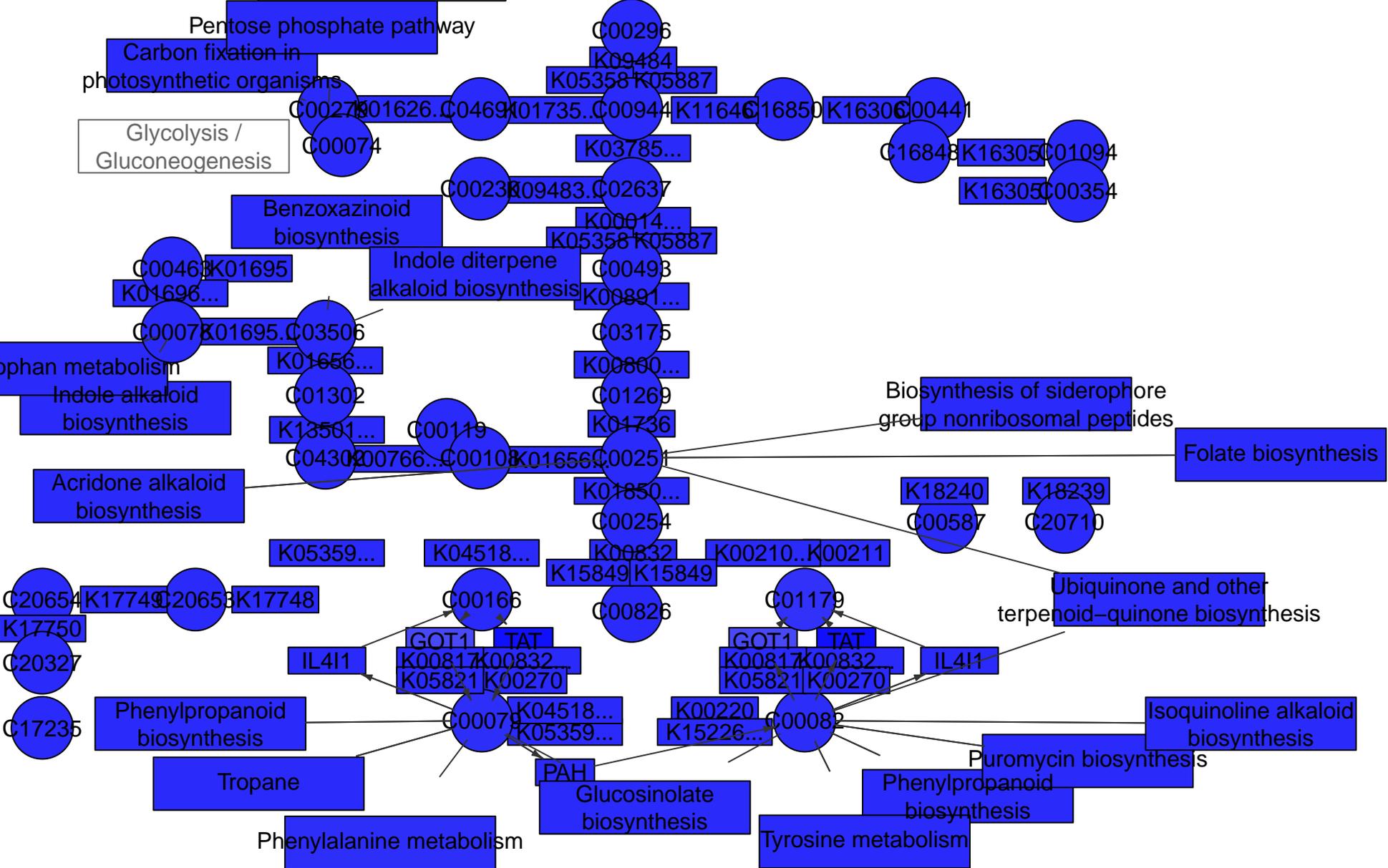
Glucosinolate  
biosynthesis

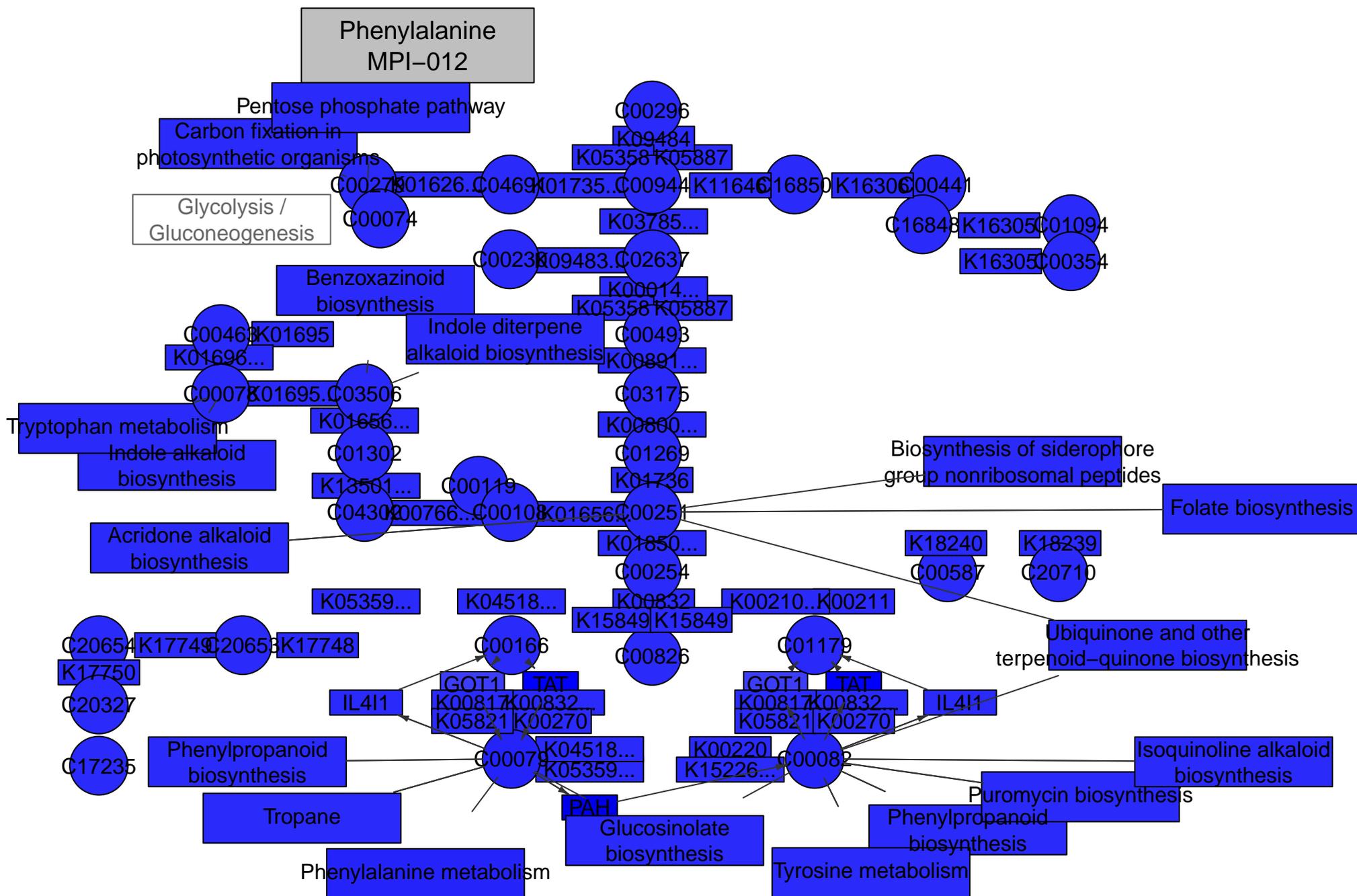
Tyrosine metabolism

Phenylpropanoid  
biosynthesis

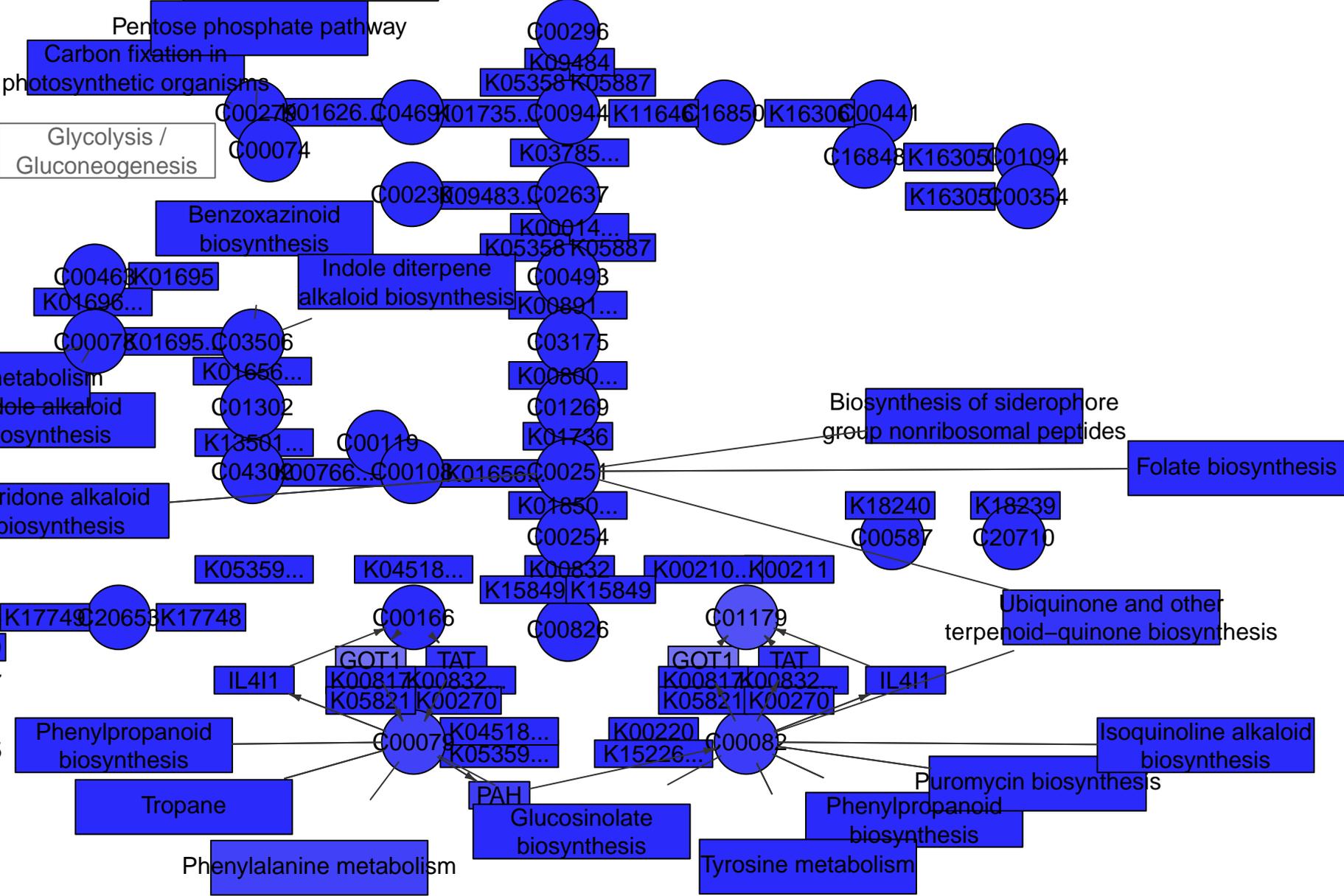
Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis

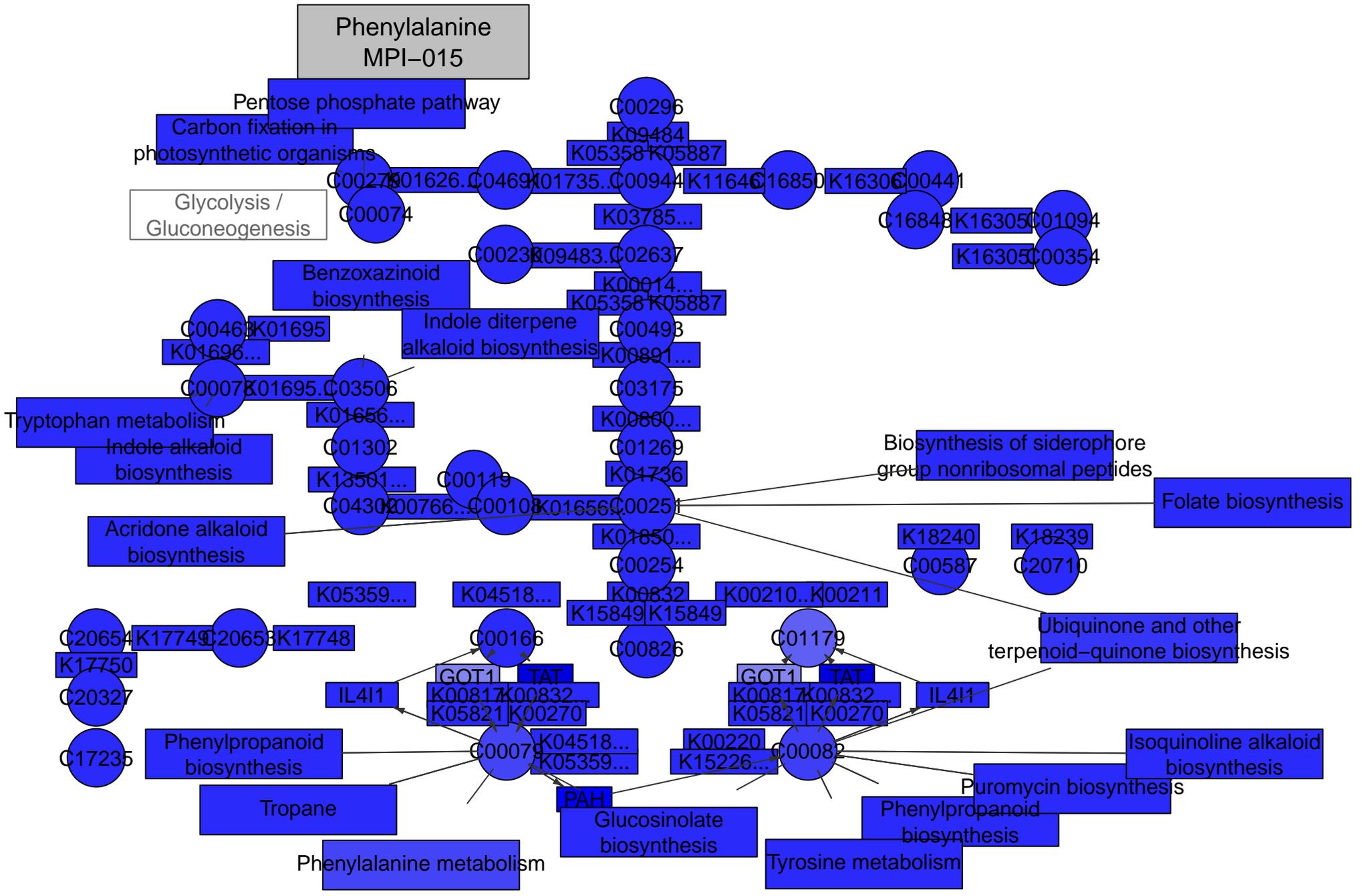




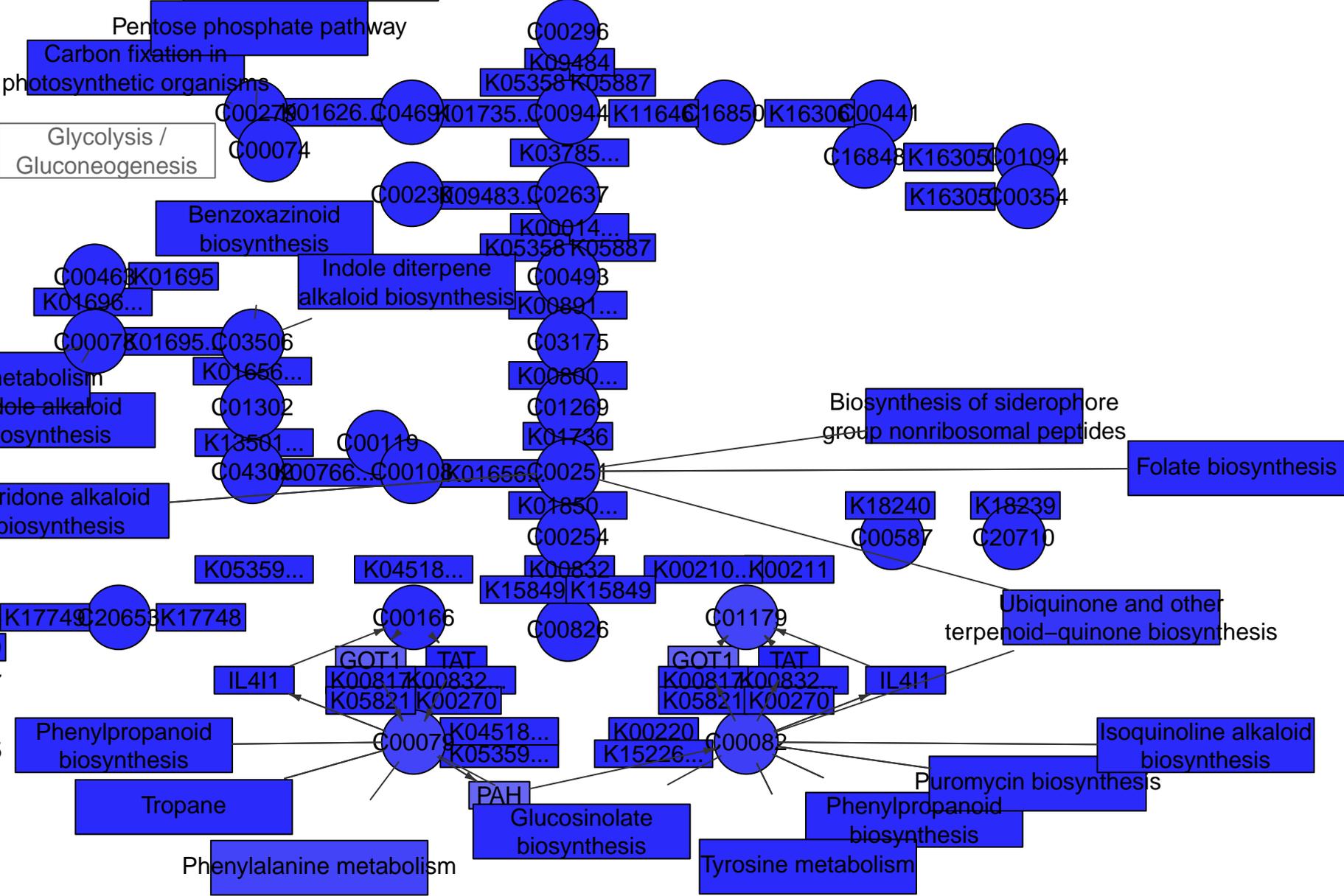
Phenylalanine  
MPI-013

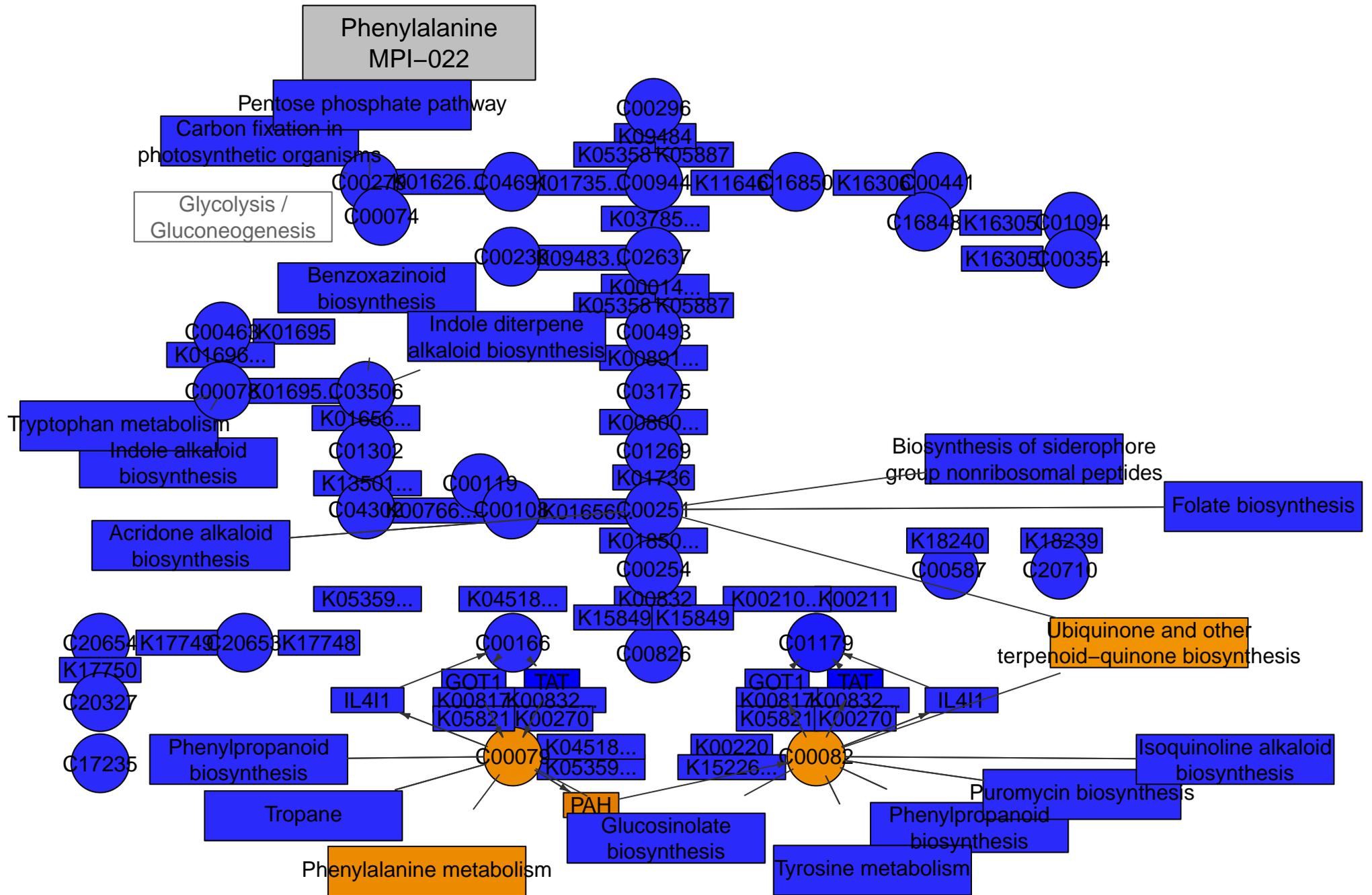




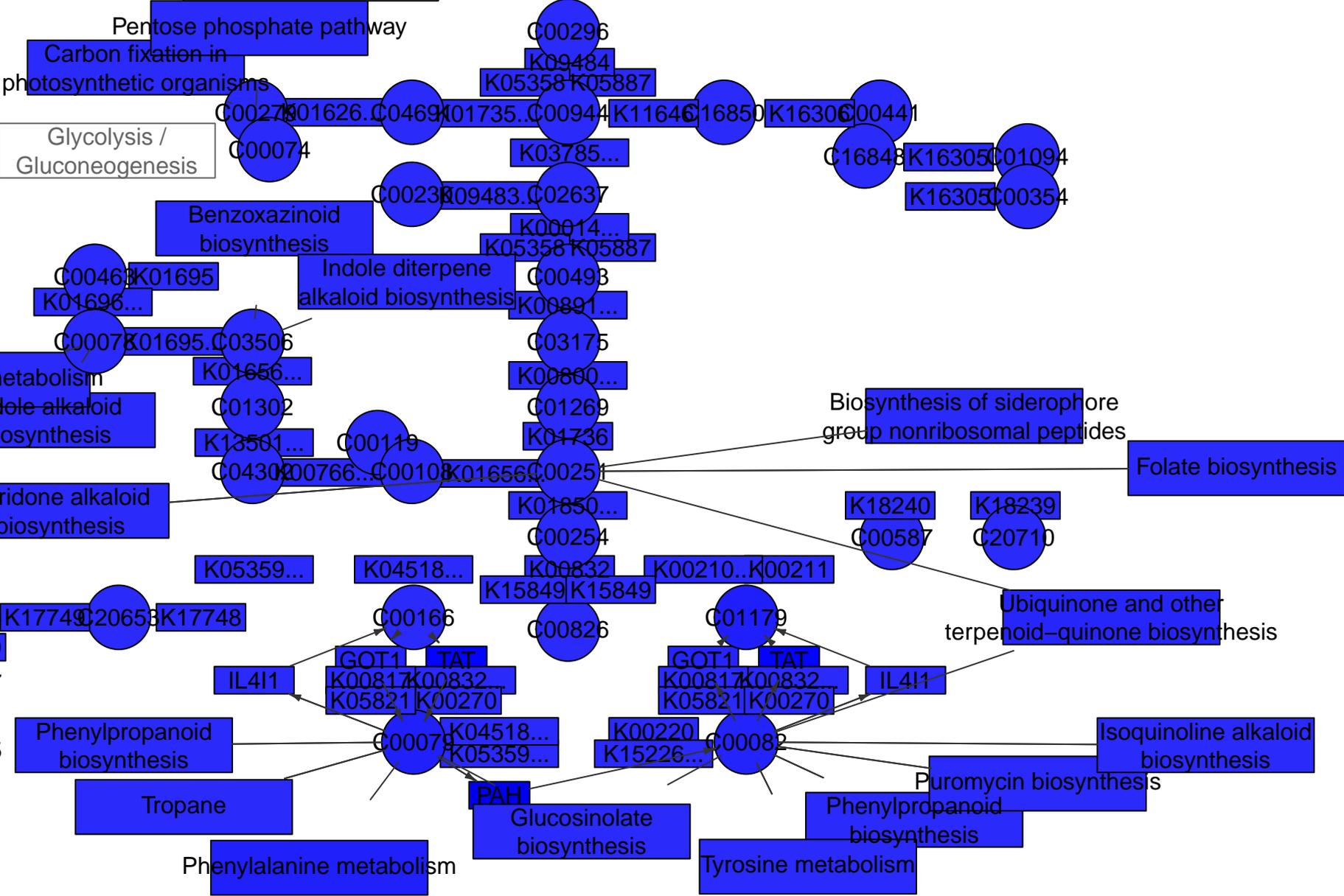


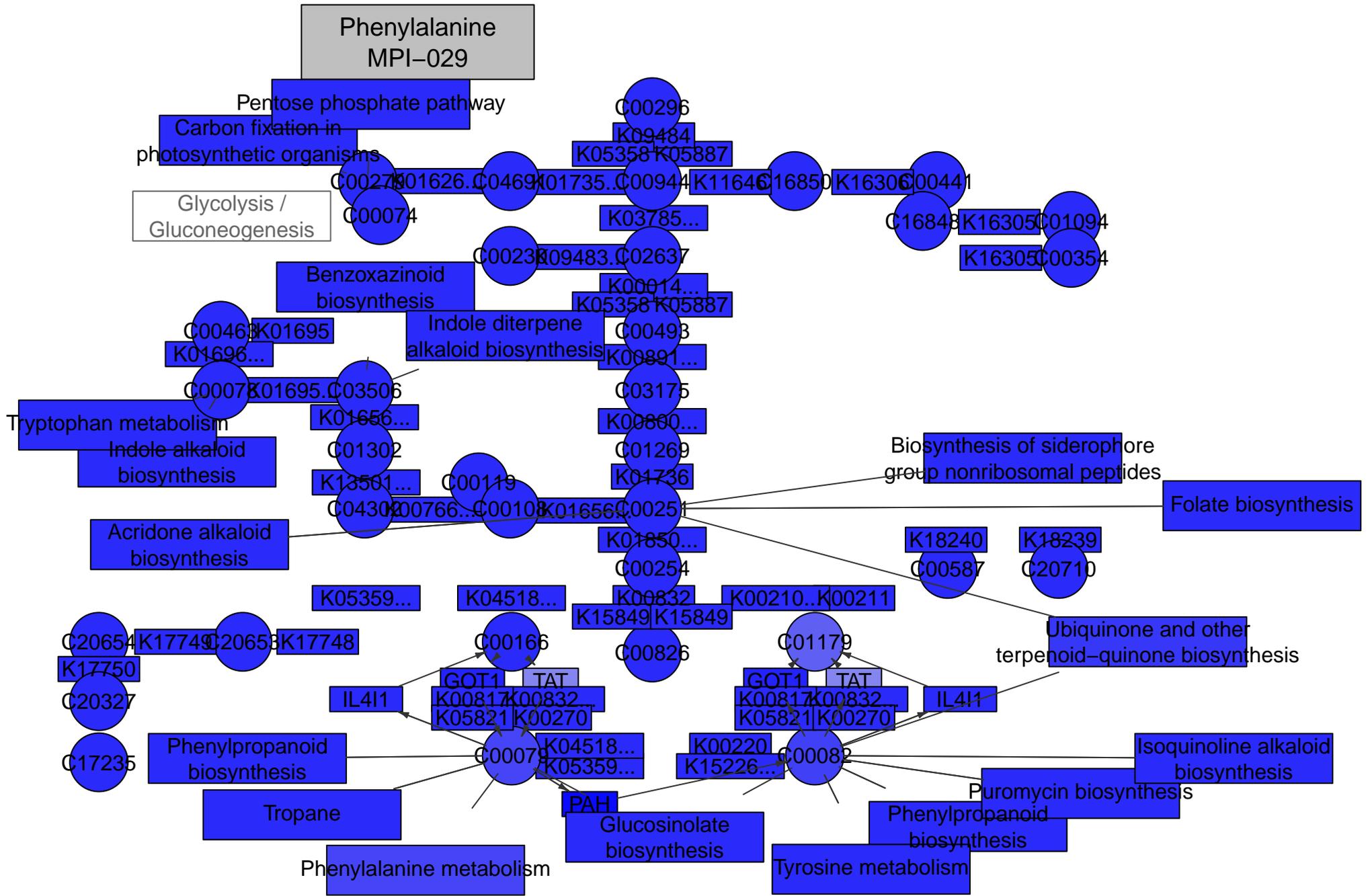
Phenylalanine  
MPI-021





Phenylalanine  
MPI-025





Phenylalanine  
MPI-030

Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

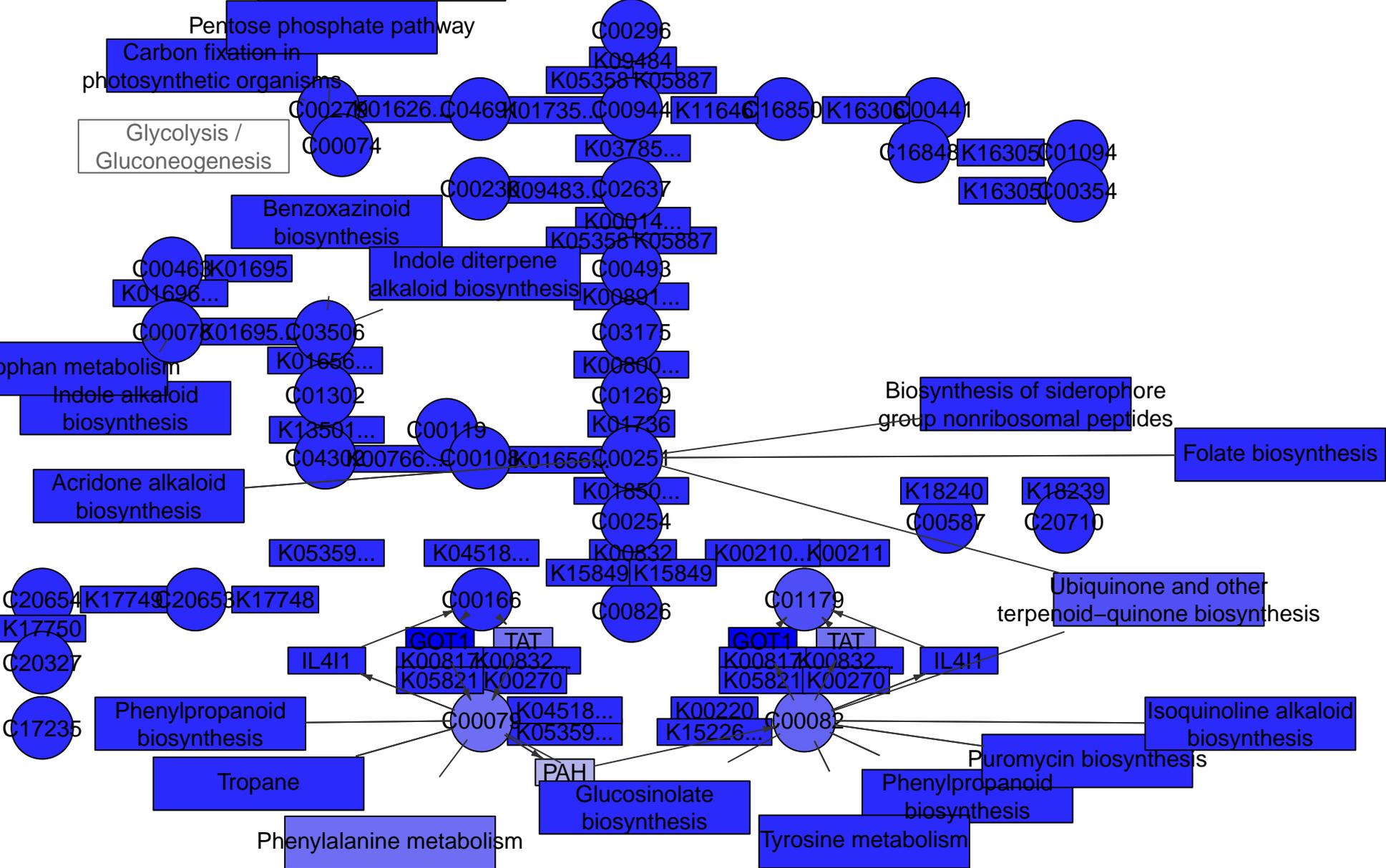
Glucosinolate  
biosynthesis

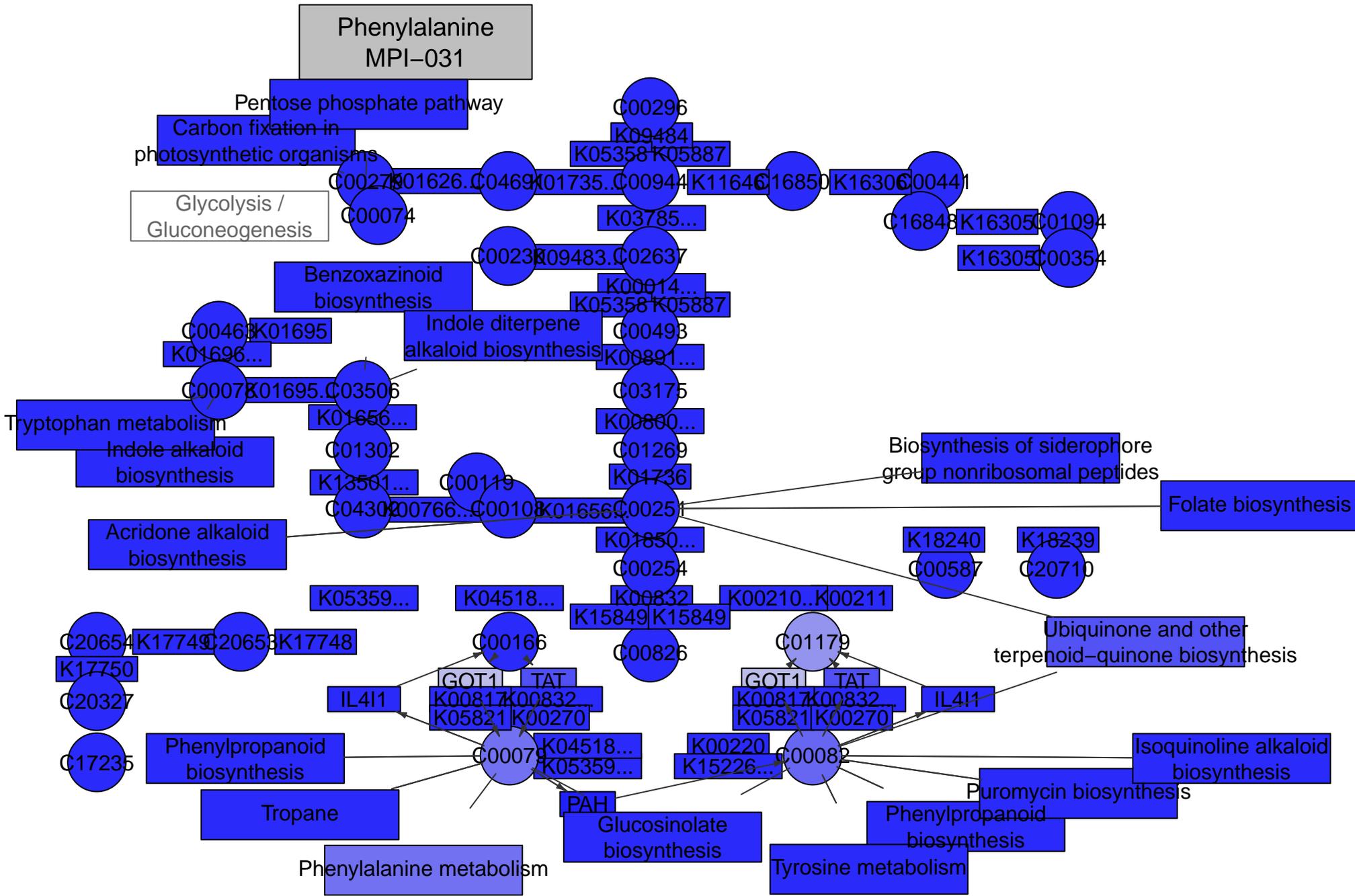
Tyrosine metabolism

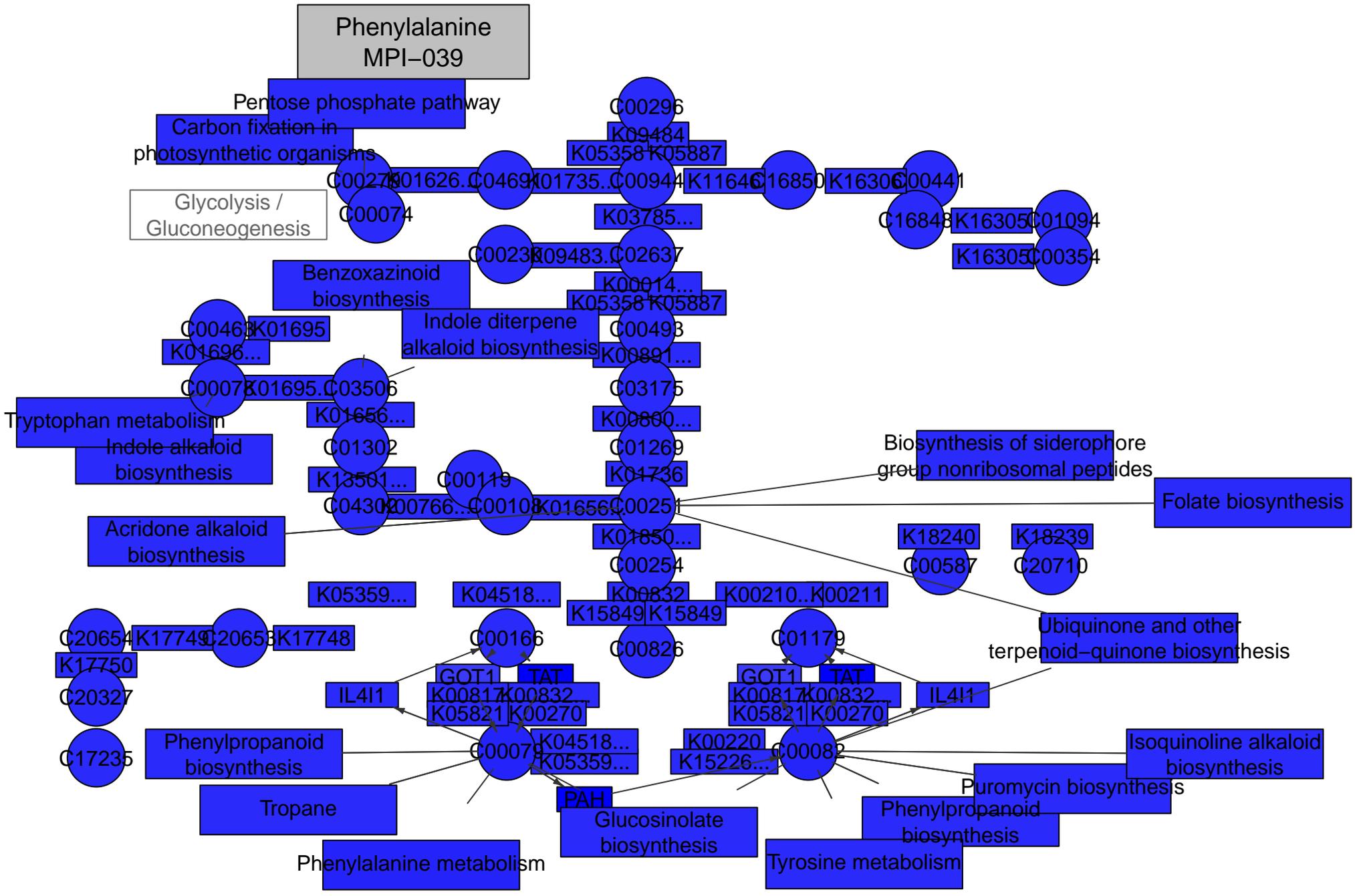
Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

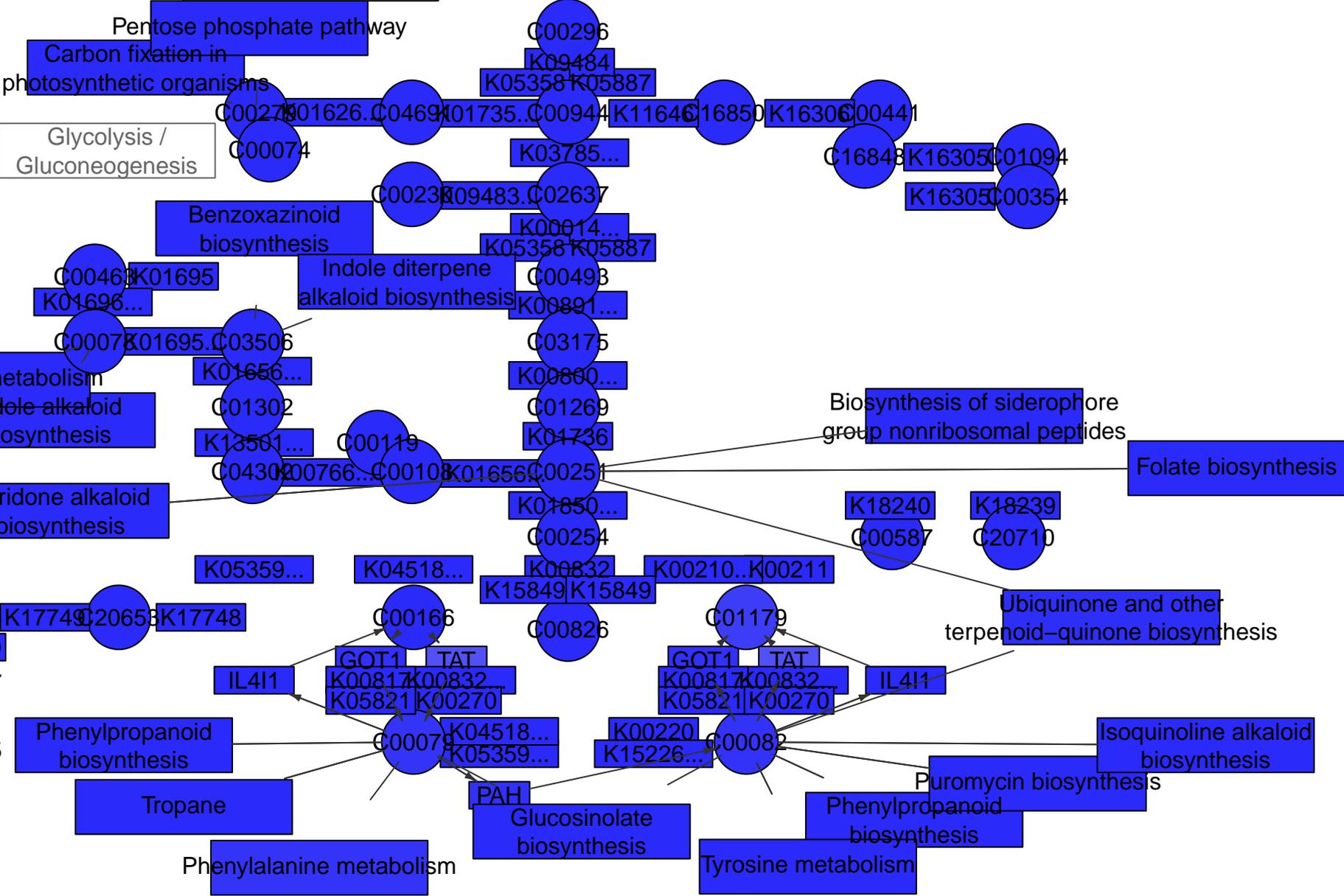
Isoquinoline alkaloid  
biosynthesis



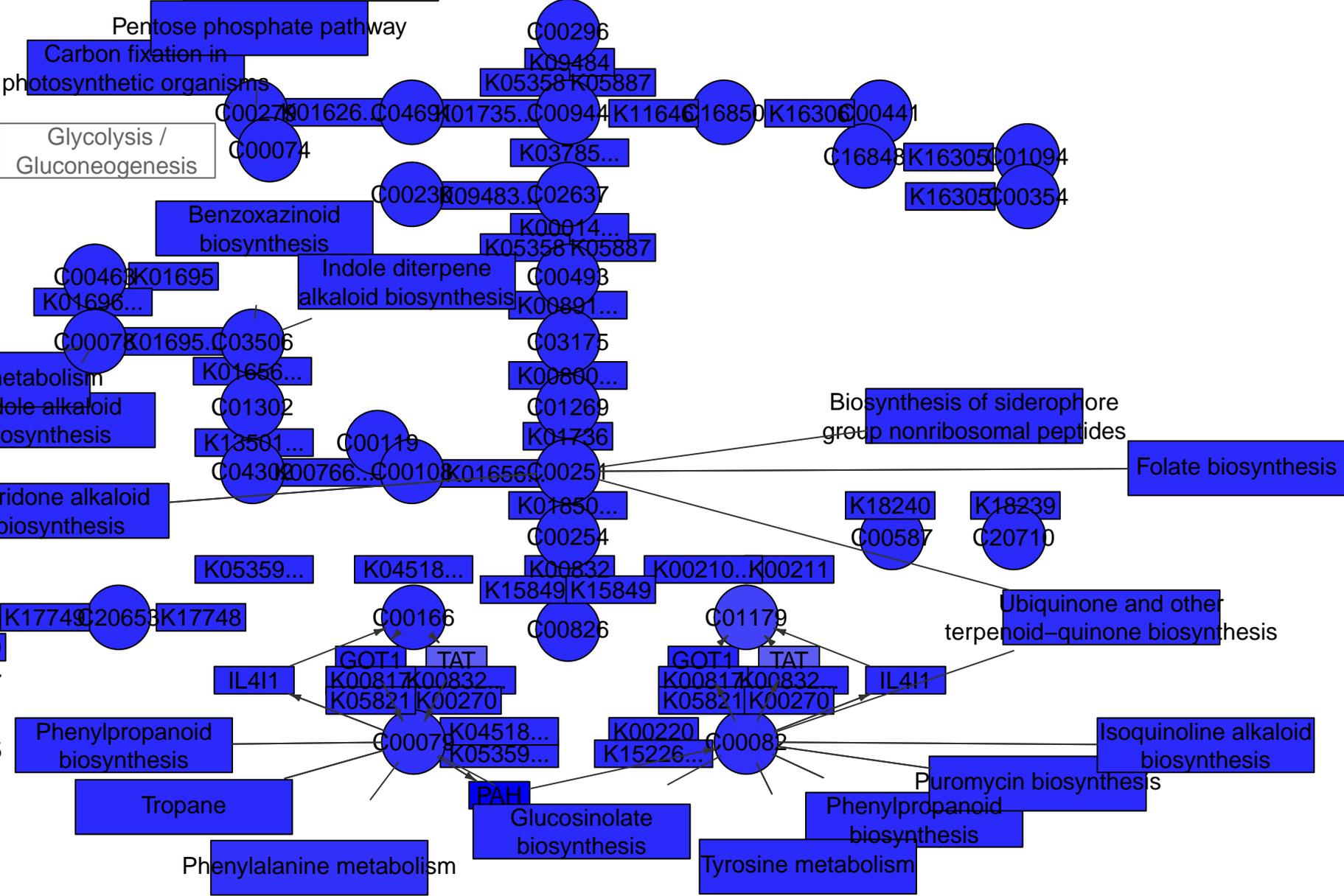




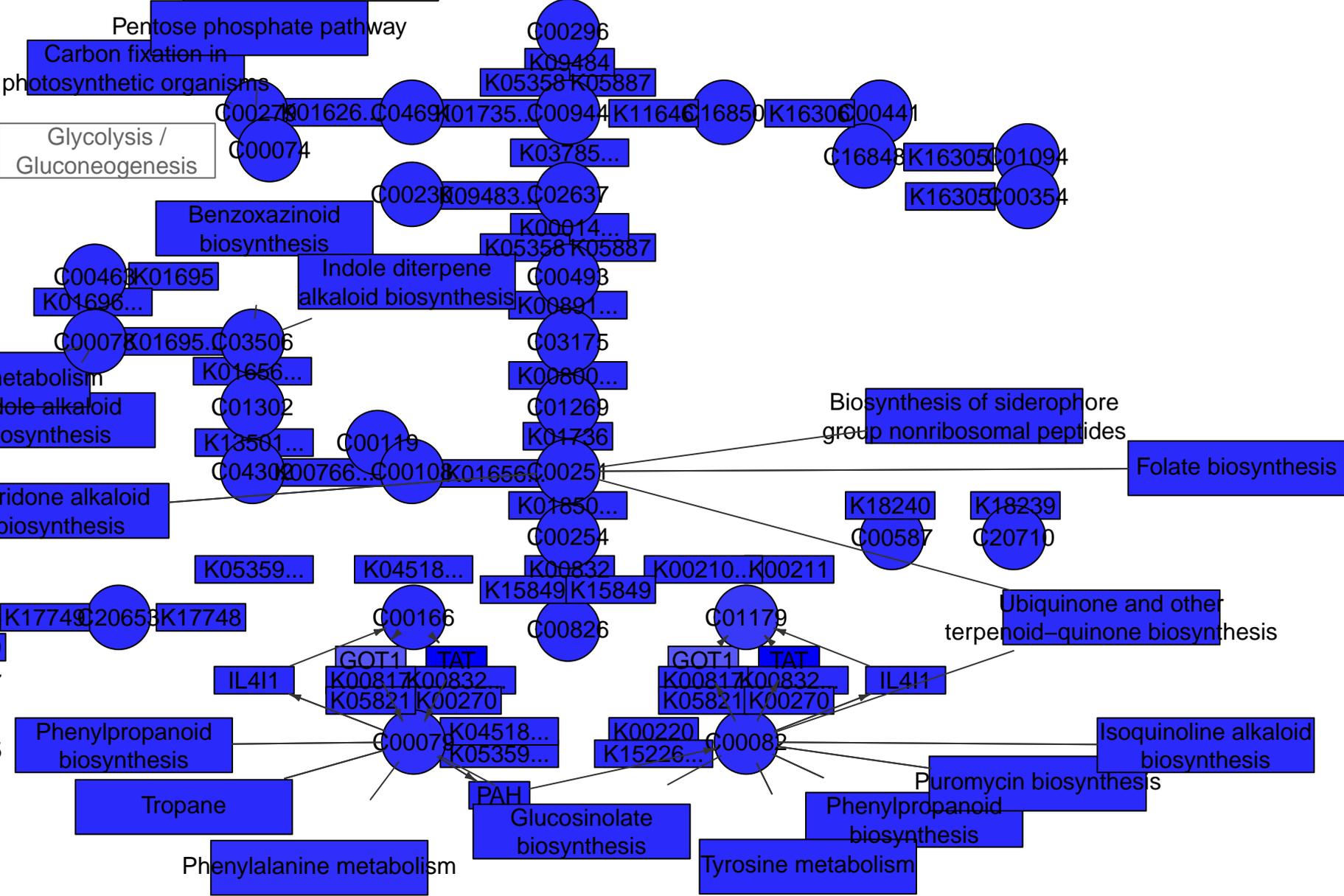
Phenylalanine  
MPI-040



Phenylalanine  
MPI-045



Phenylalanine  
MPI-047



Phenylalanine  
MPI-053

Pentose phosphate pathway  
Carbon fixation in photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid biosynthesis

Indole diterpene alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid biosynthesis

Acridone alkaloid biosynthesis

Biosynthesis of siderophore group nonribosomal peptides  
Folate biosynthesis

Ubiquinone and other terpenoid-quinone biosynthesis

Phenylpropanoid biosynthesis

Isoquinoline alkaloid biosynthesis

Puromycin biosynthesis

Tropane

Glucosinolate biosynthesis

Phenylpropanoid biosynthesis

Phenylalanine metabolism

Tyrosine metabolism

C00296

K09484

K05358 K05887

C00274 C101626 C04690 C01735 C00944

C11646 C16850

K16306

C00441

C00074

K03785

C16848

K16305

C01094

C00238

K09483

C02637

K00014

K05358 K05887

C00468

K01695

K01696

C00493

K00891

C00078

K01695

C03506

C03175

K01656

K00800

C01302

C01269

K13501

K01736

C00119

C00251

C04302

C00766

C00108

K01656

C00251

K01850

K18240

K18239

C00254

C00587

C20710

K05359

K04518

K00832

K00210 K00211

K15849 K15849

C20654

K17749

C20653

K17748

C00166

C00826

C01179

K17750

C20327

IL411

GOT1

TAT

GOT1

TAT

IL411

K00817 K00832

K00817 K00832

K05821 K00270

K05821 K00270

C17235

C00079

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K05359

K00220

K15226

C00082

Phenylpropanoid biosynthesis

Tropane

Glucosinolate biosynthesis

Tyrosine metabolism

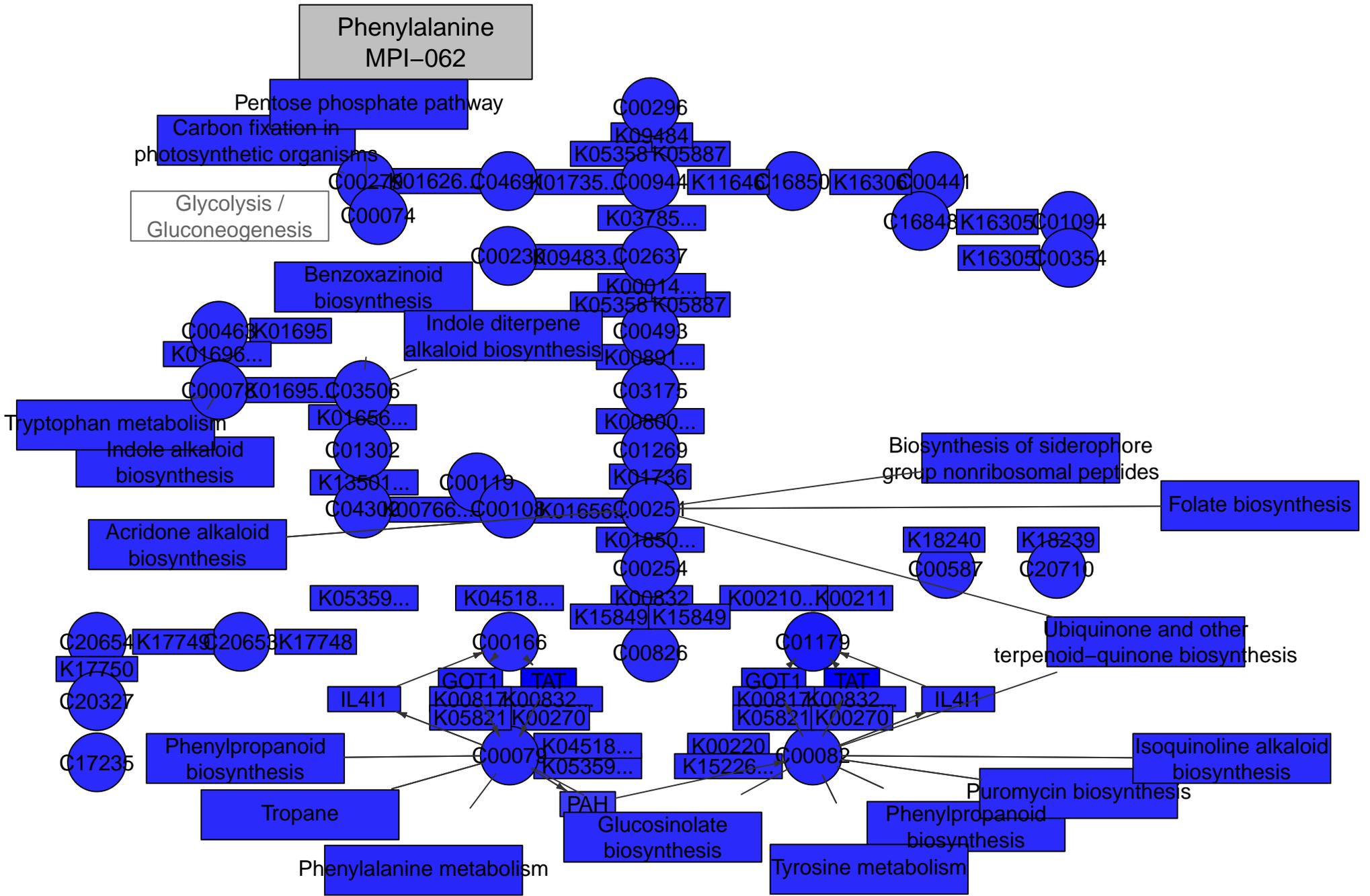
Phenylpropanoid biosynthesis

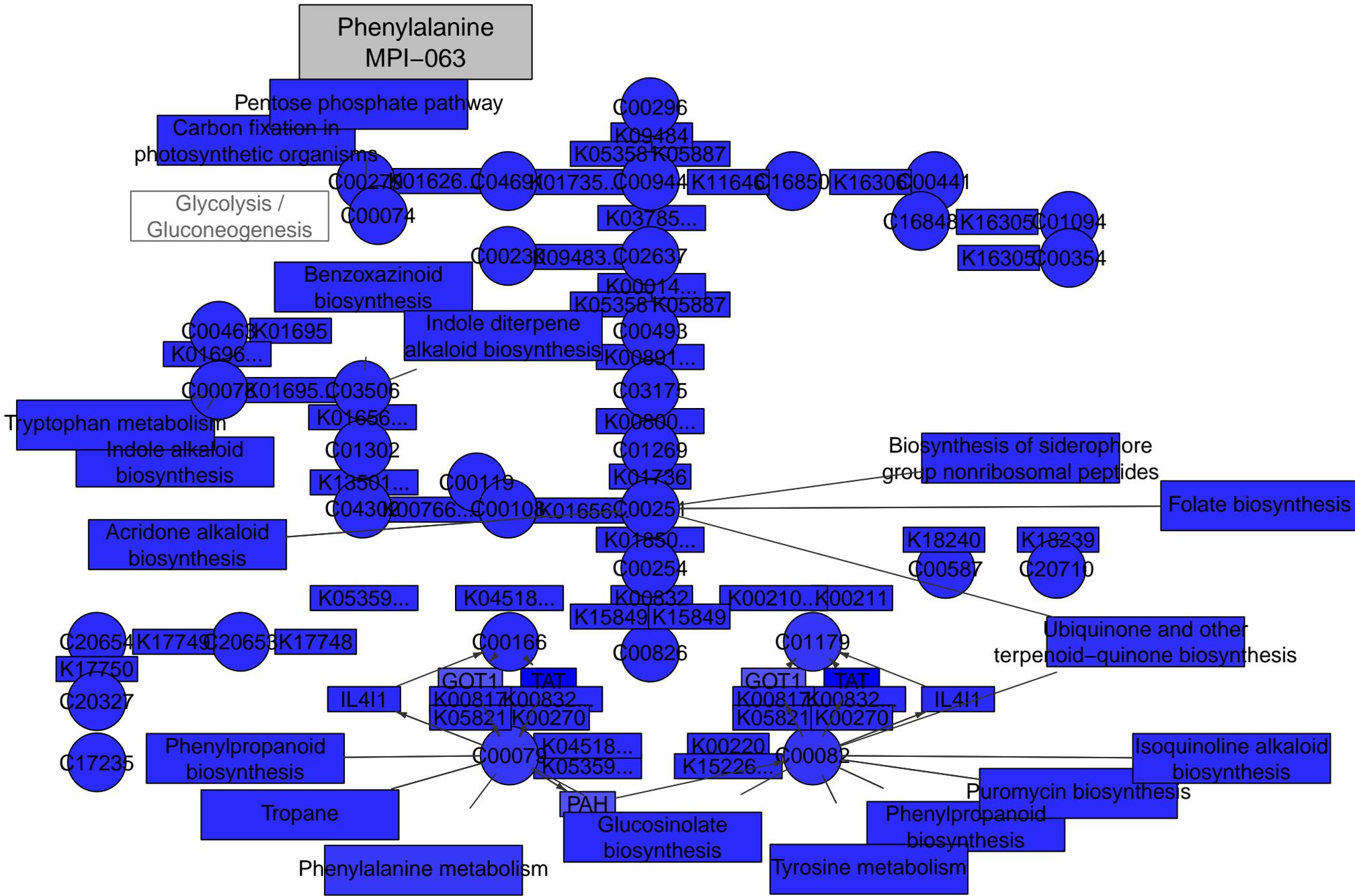
Puromycin biosynthesis

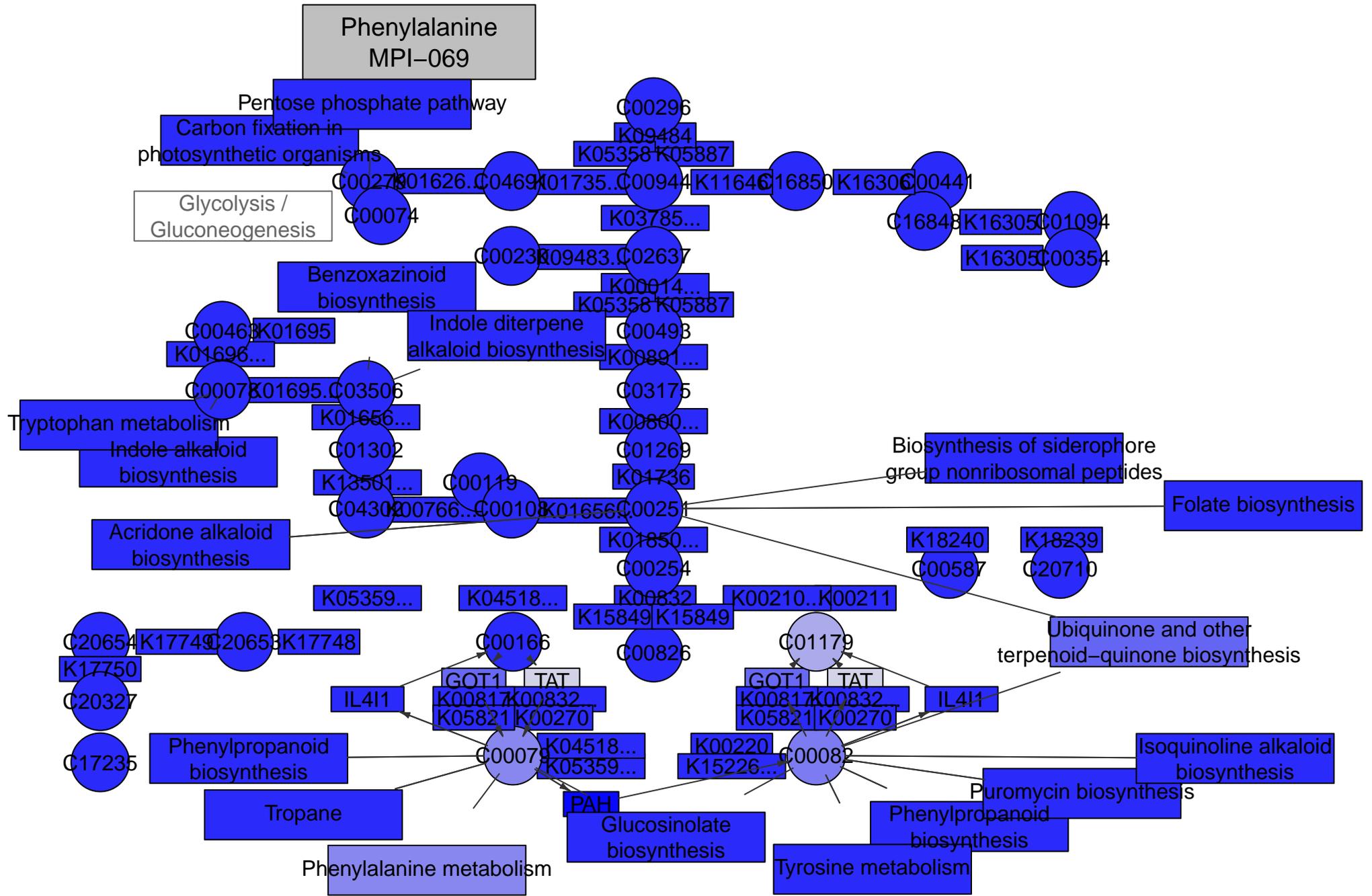
Isoquinoline alkaloid biosynthesis

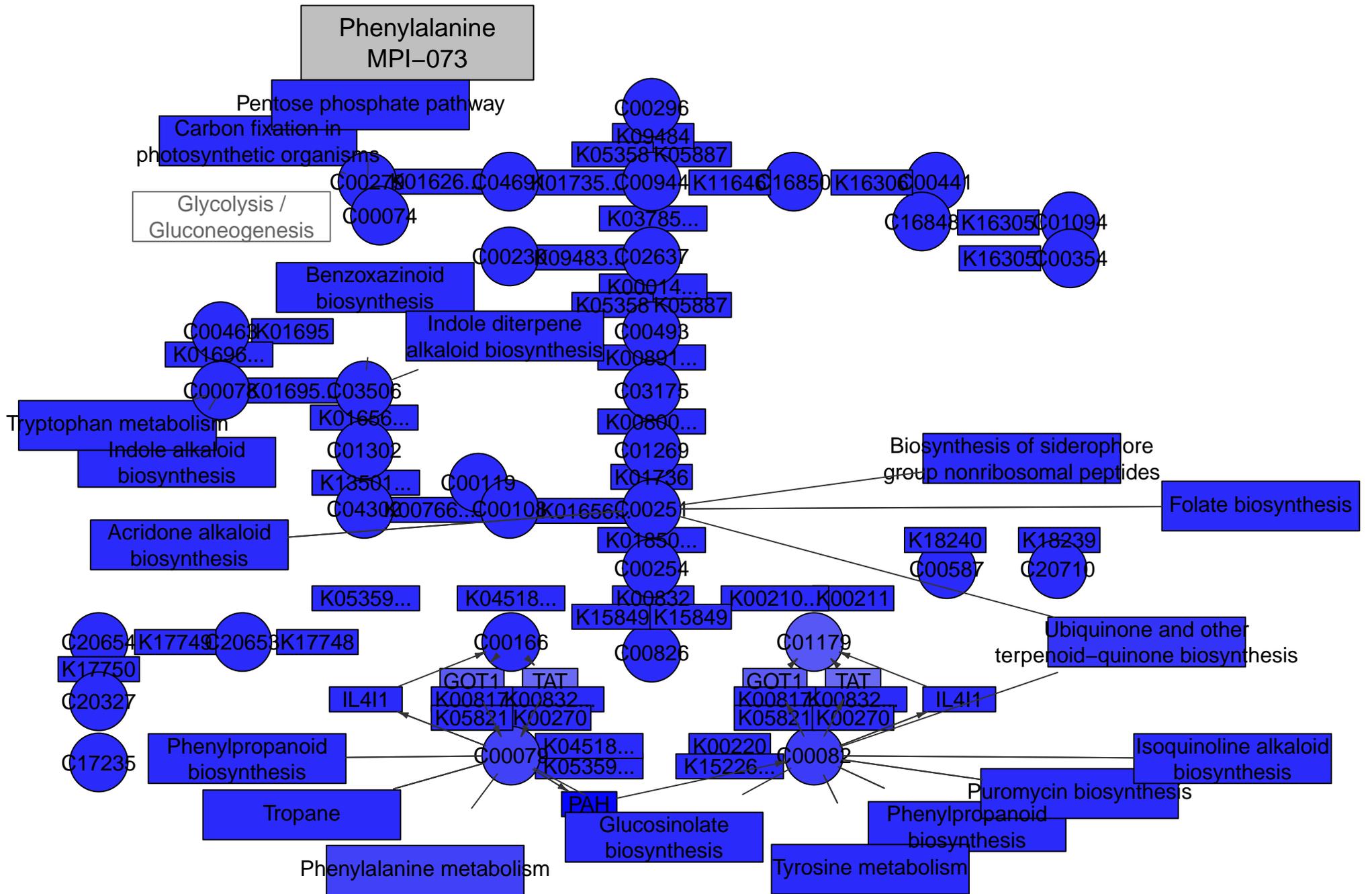
Phenylalanine metabolism

Tyrosine metabolism

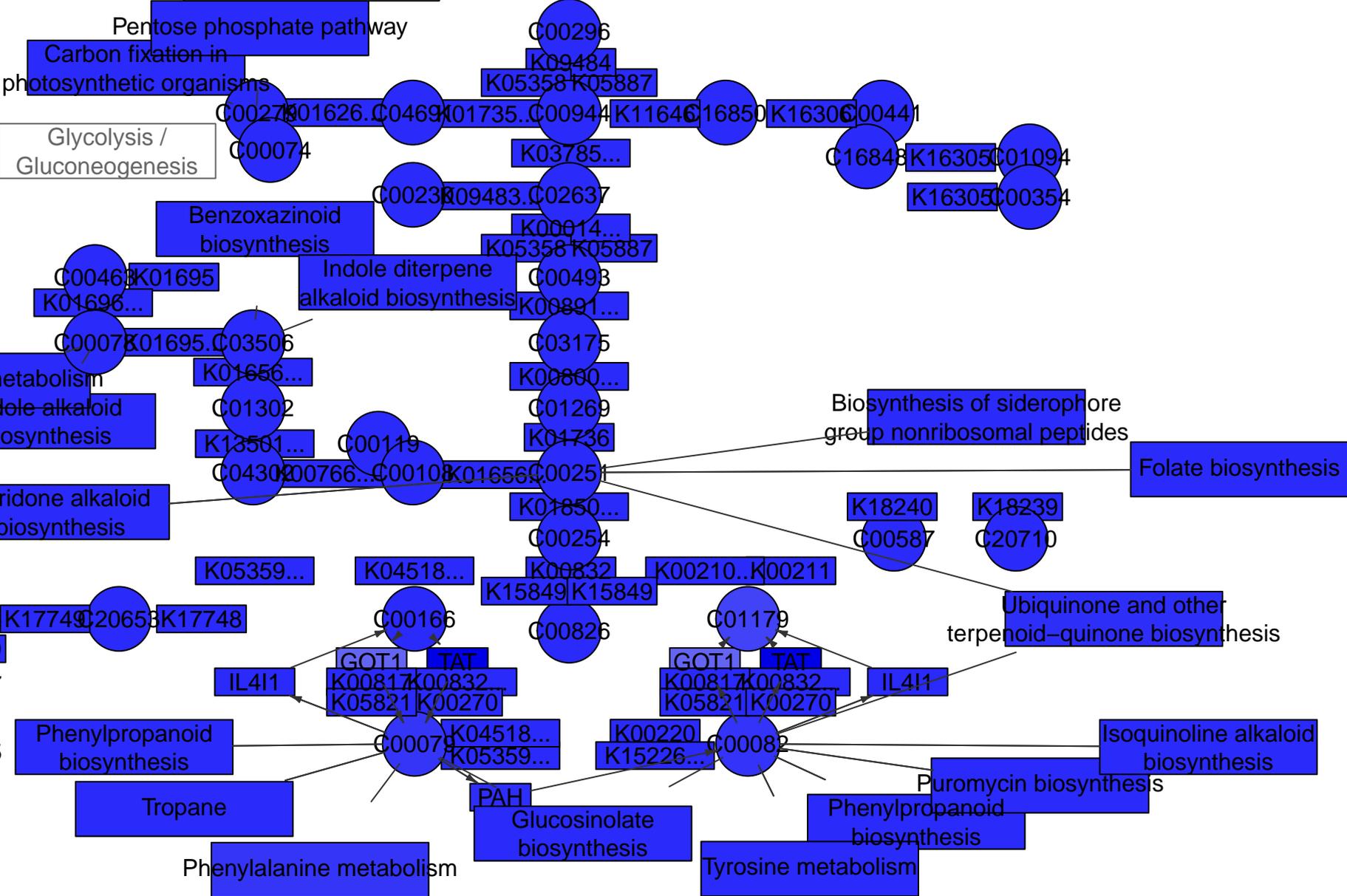


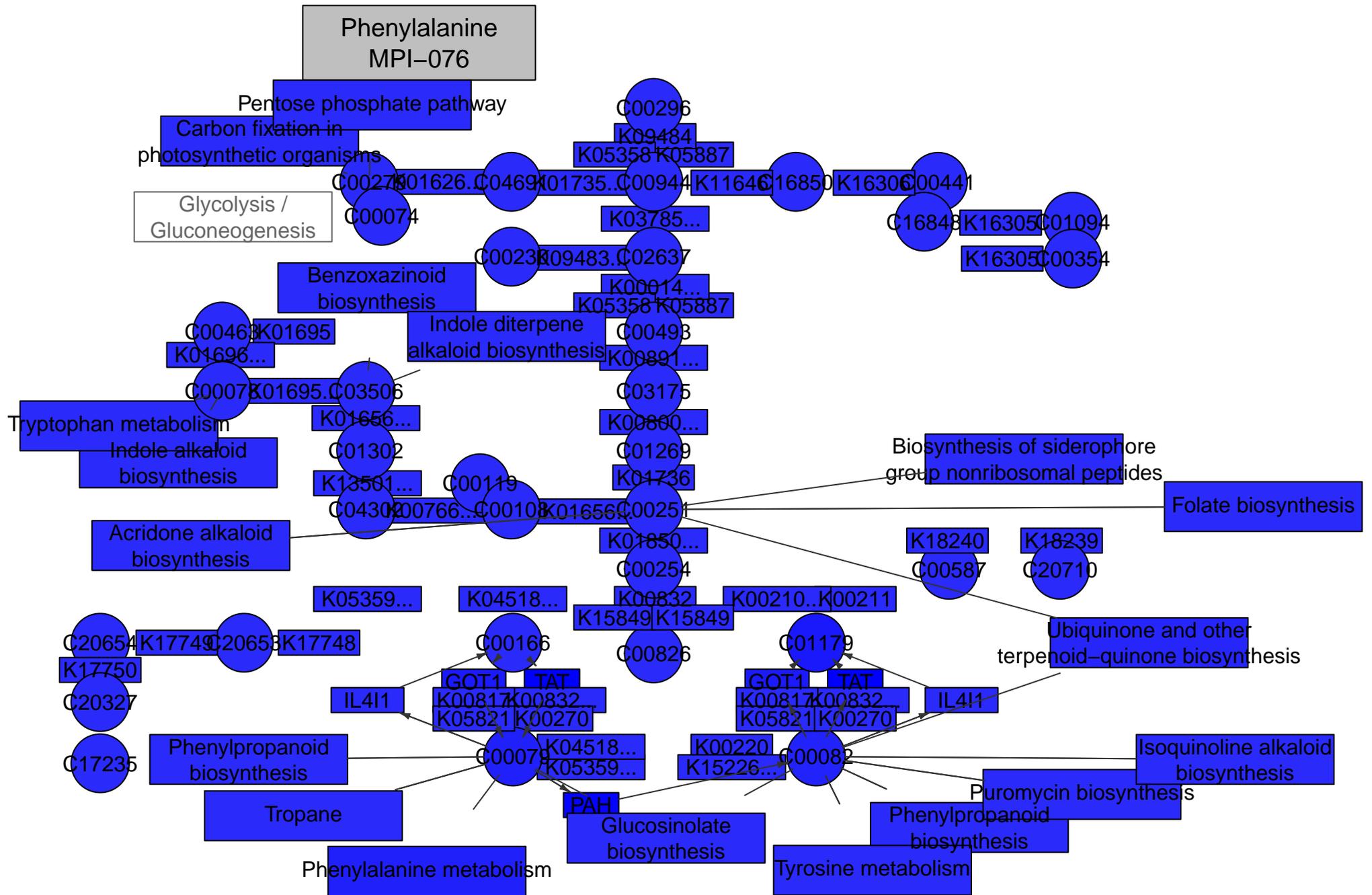






Phenylalanine  
MPI-074





Phenylalanine  
MPI-083

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

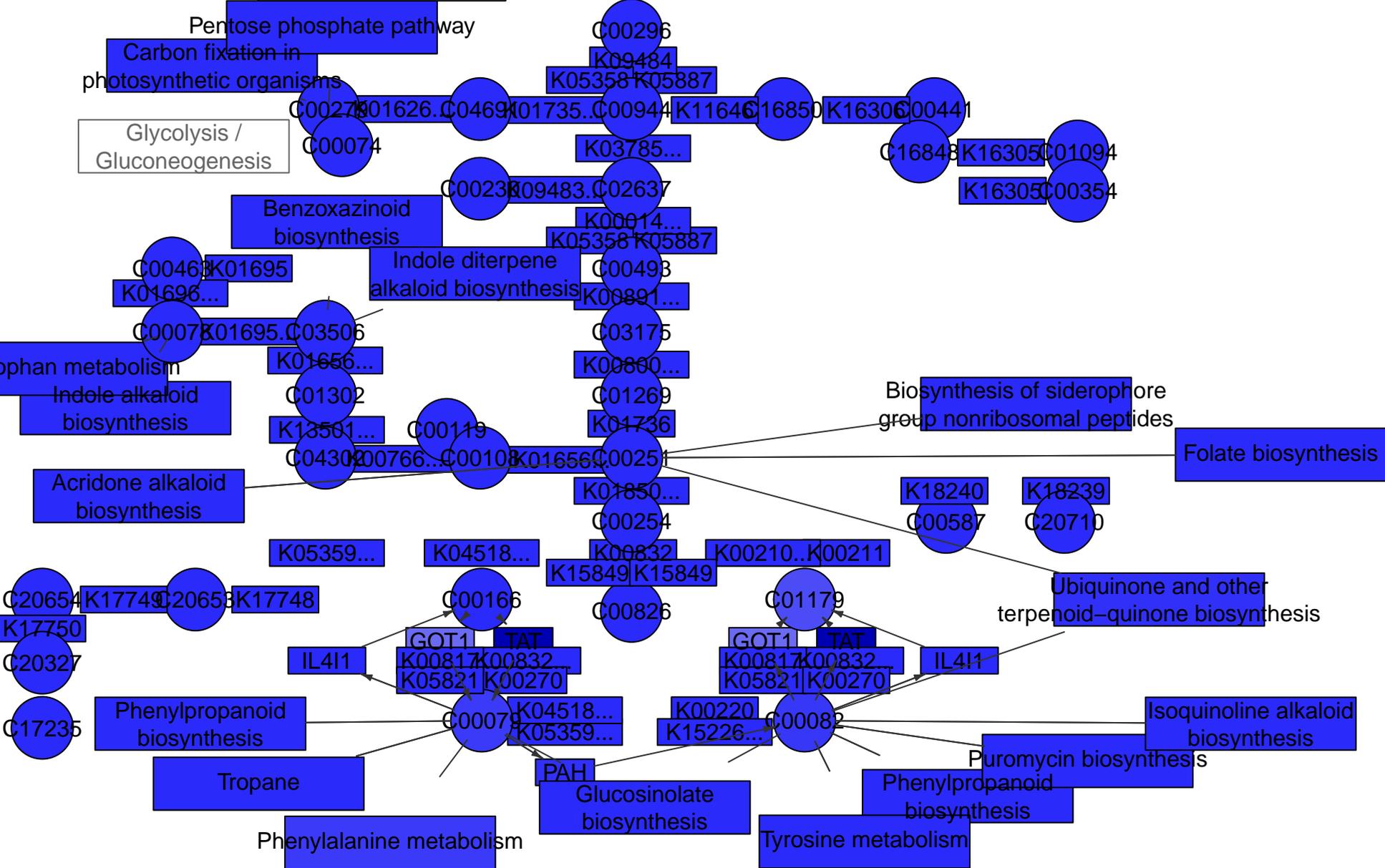
Glucosinolate  
biosynthesis

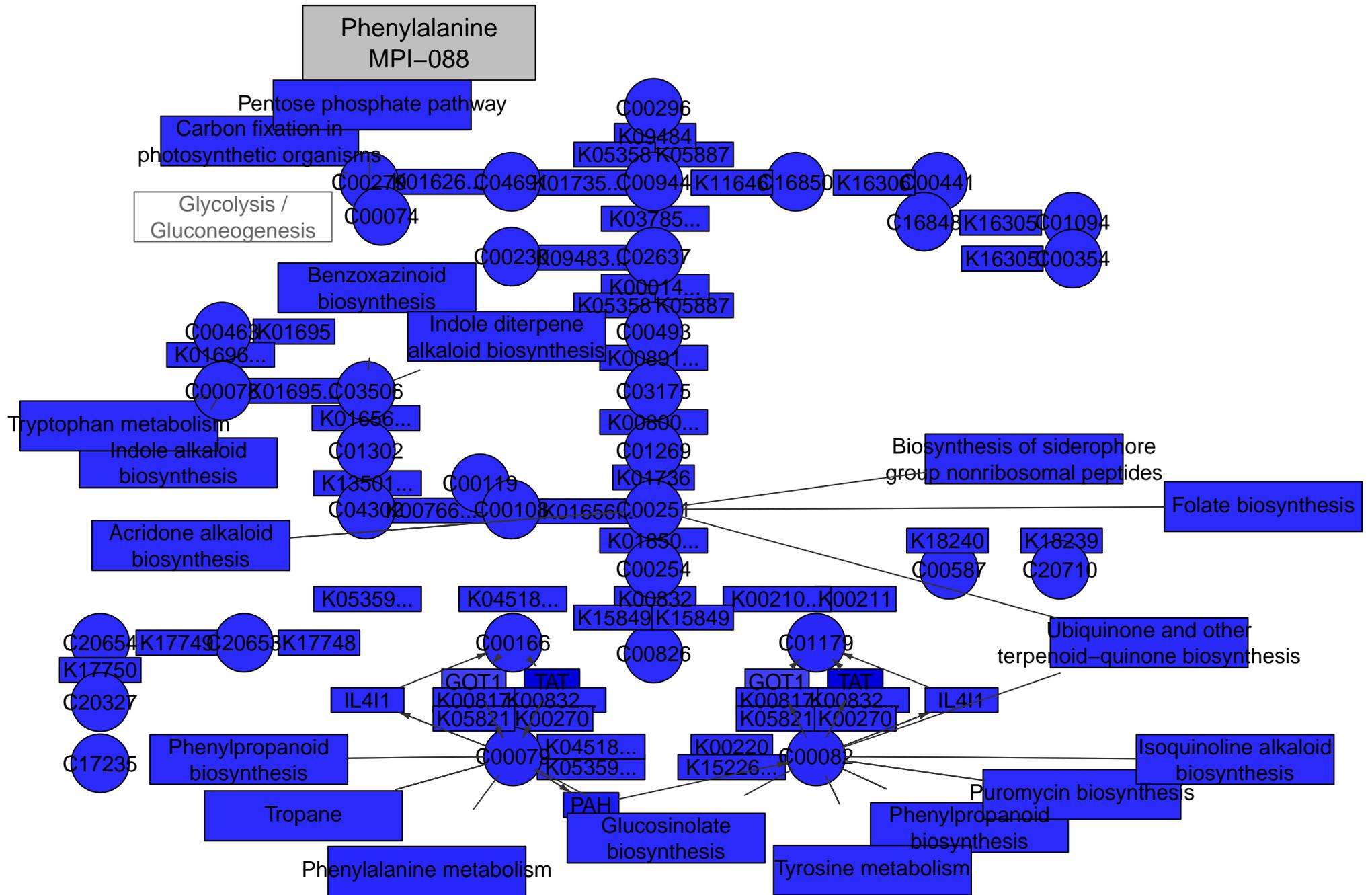
Tyrosine metabolism

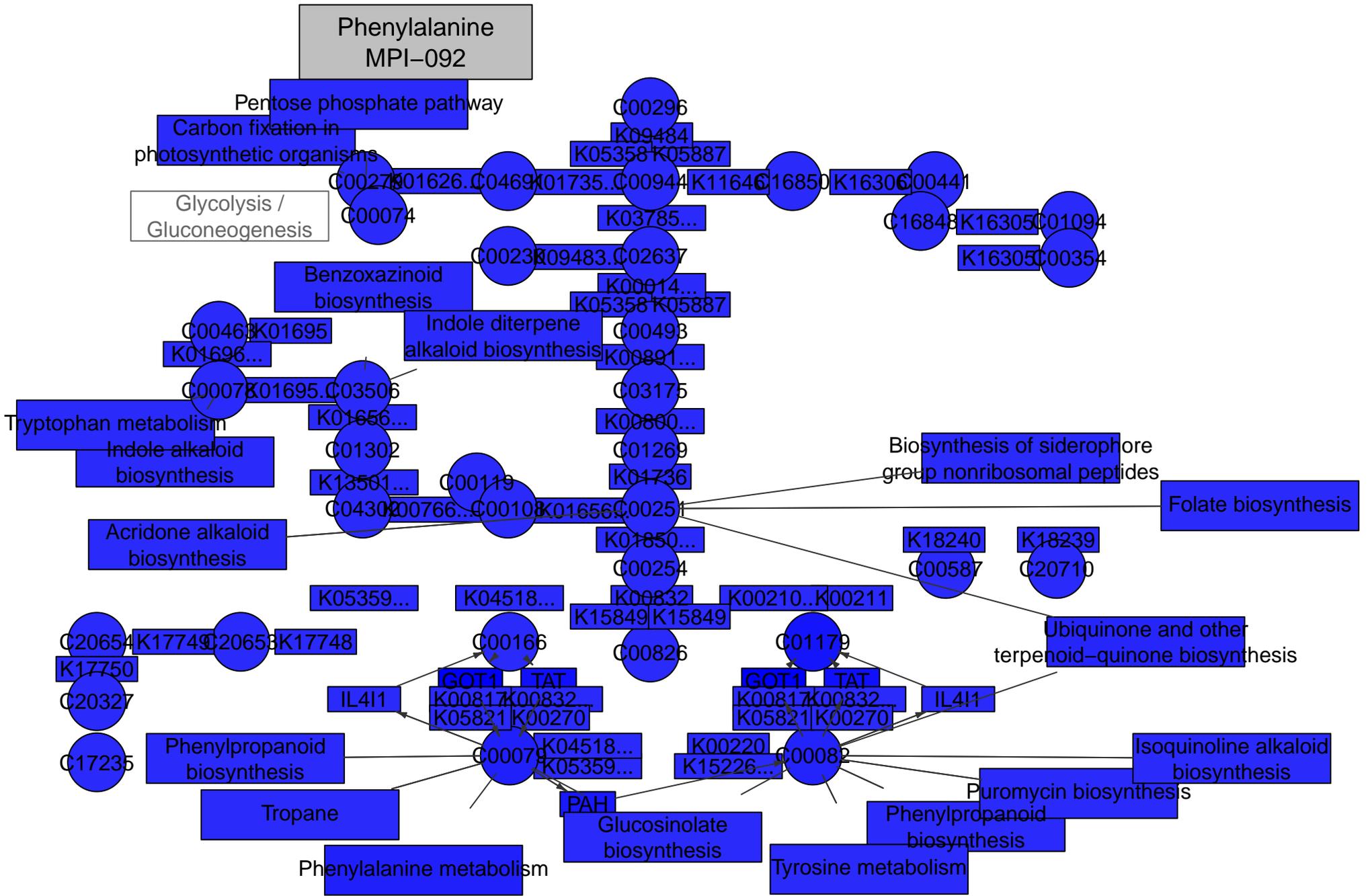
Phenylpropanoid  
biosynthesis

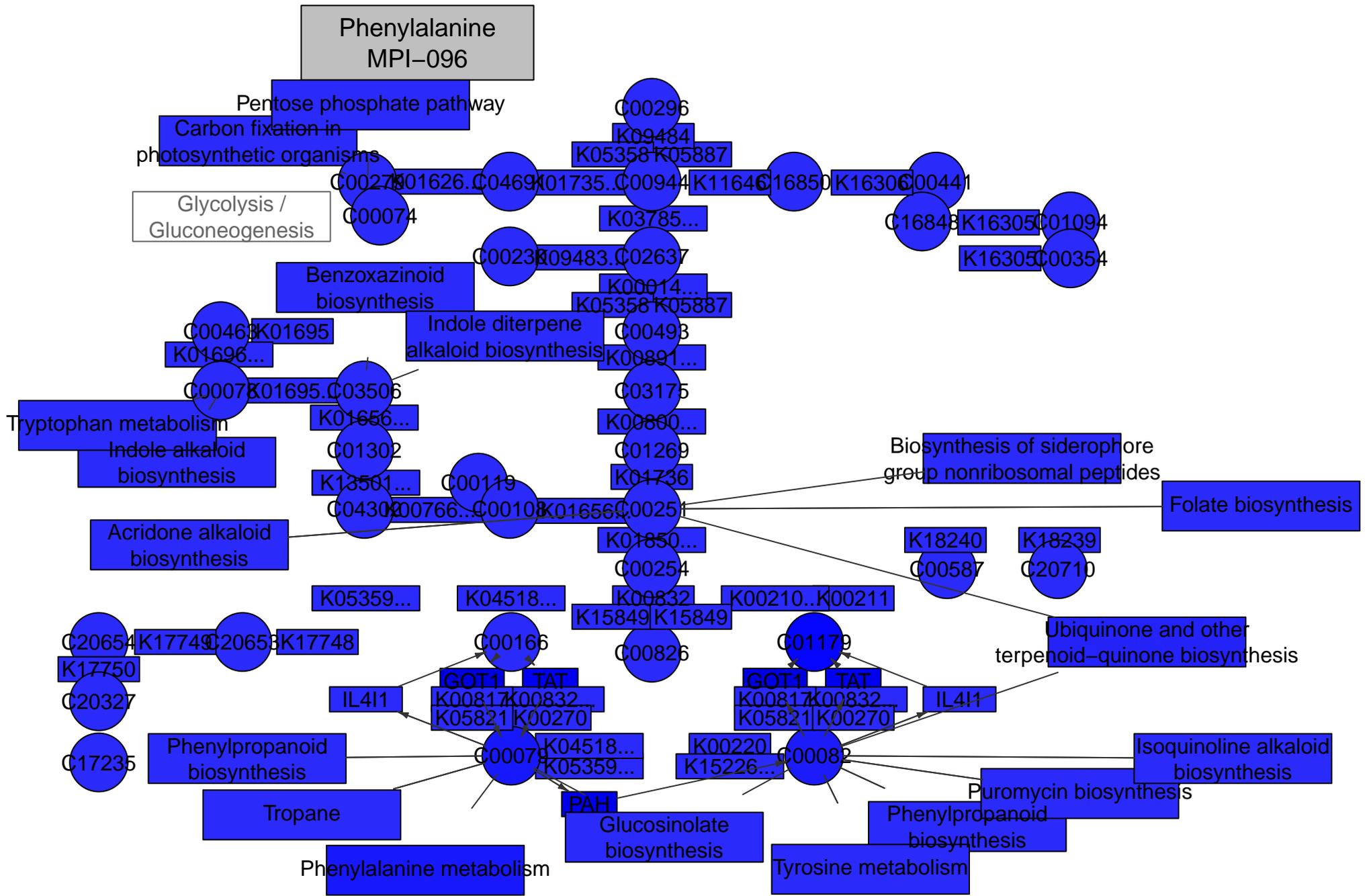
Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis

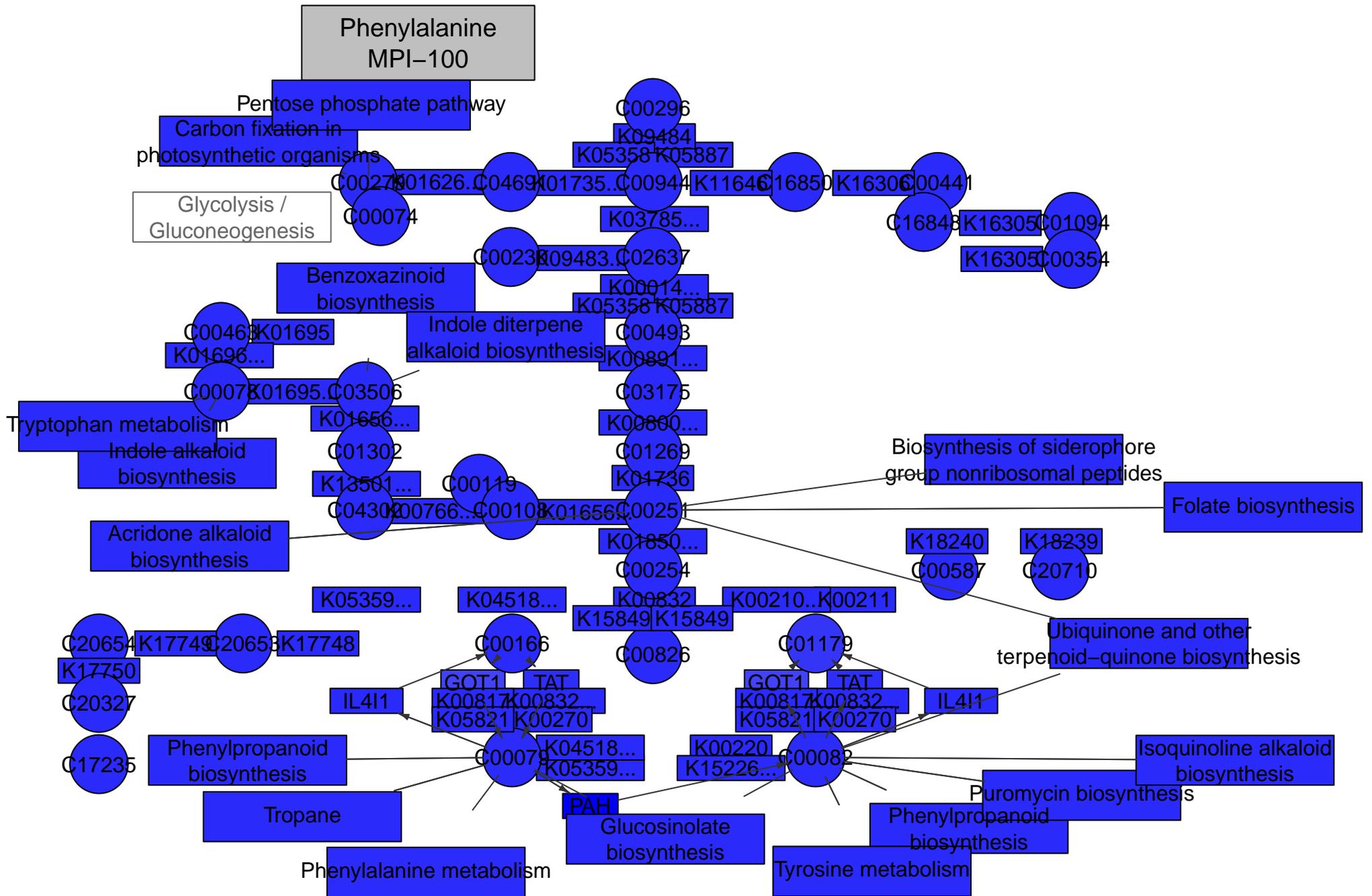


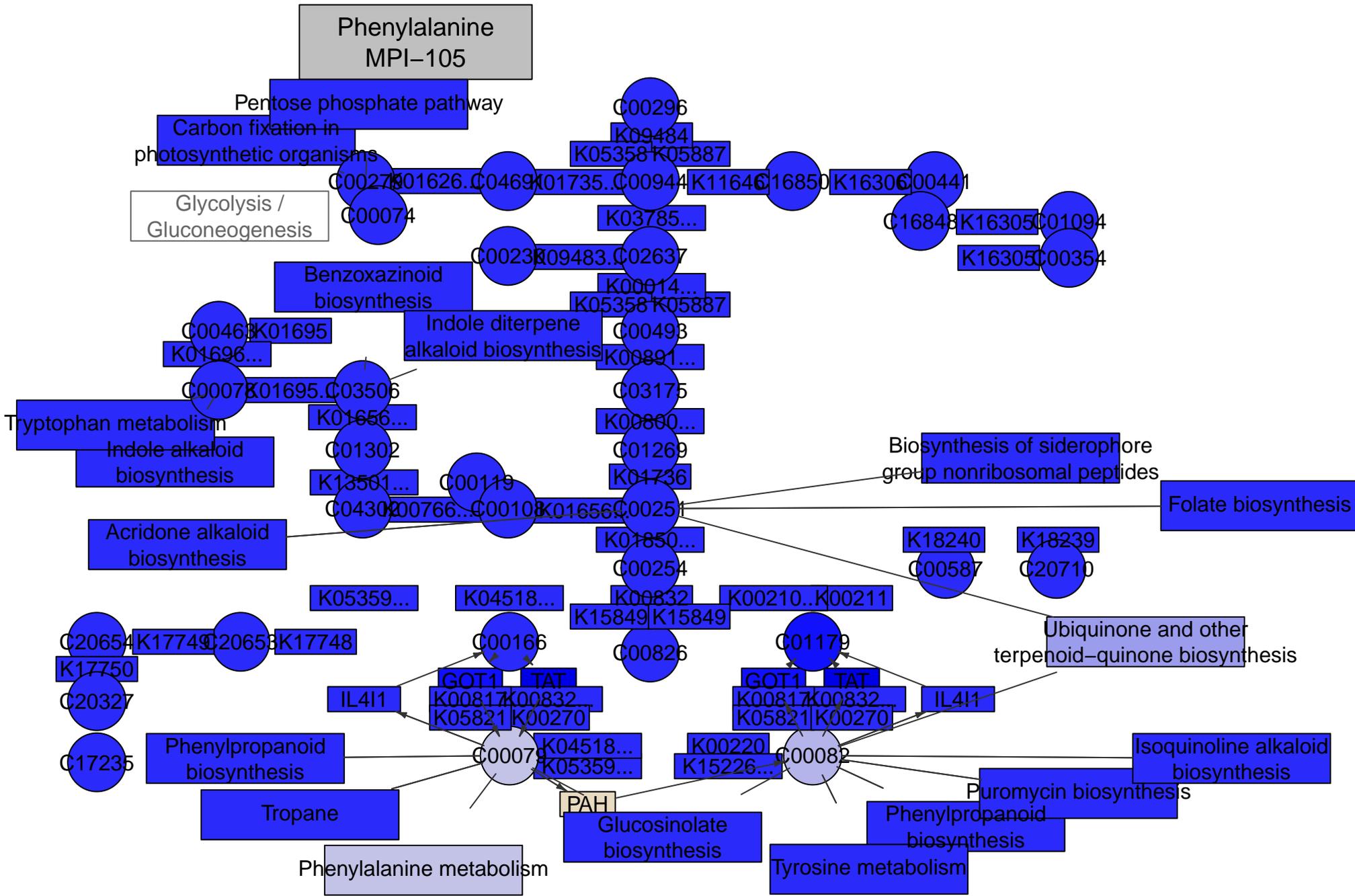






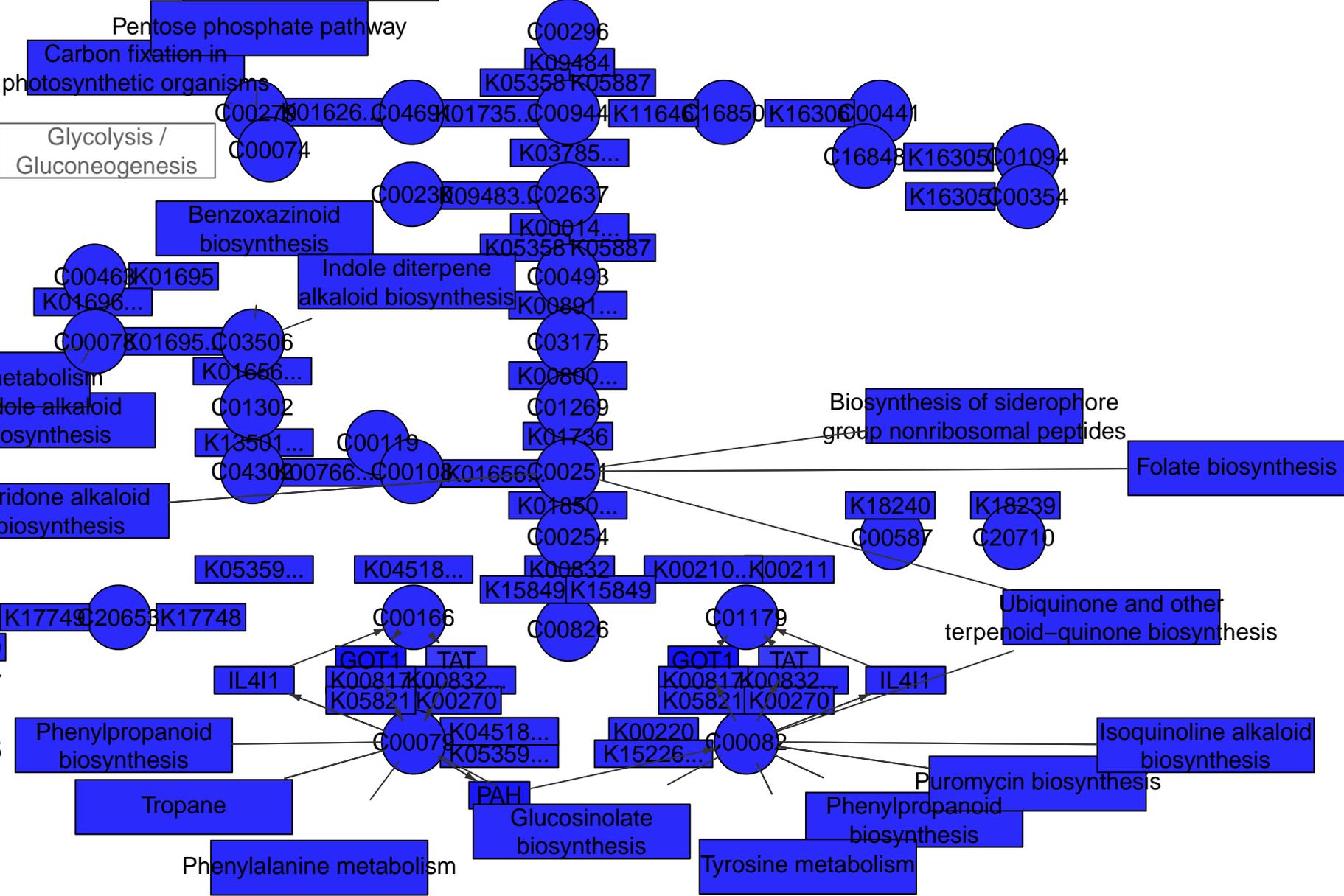






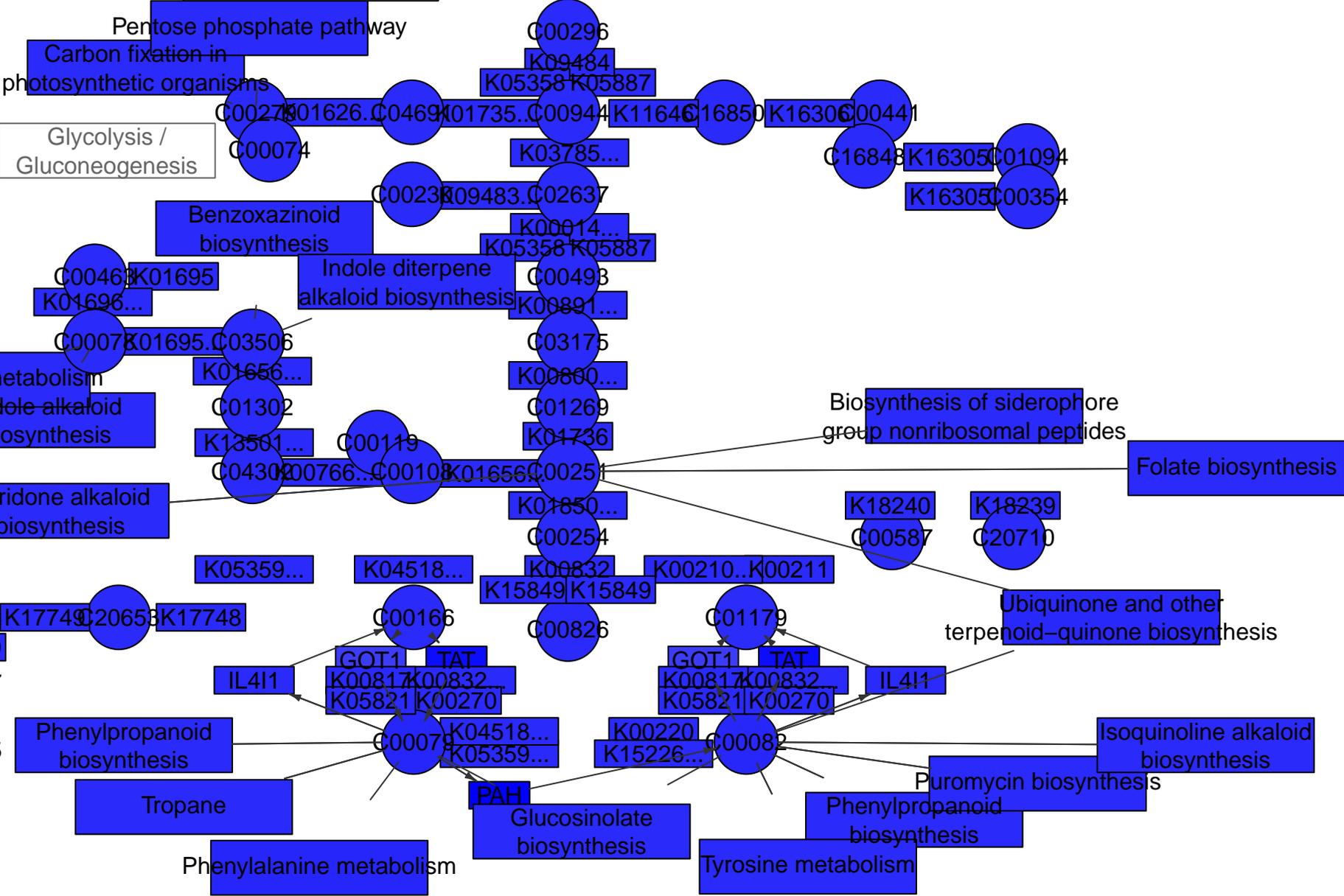


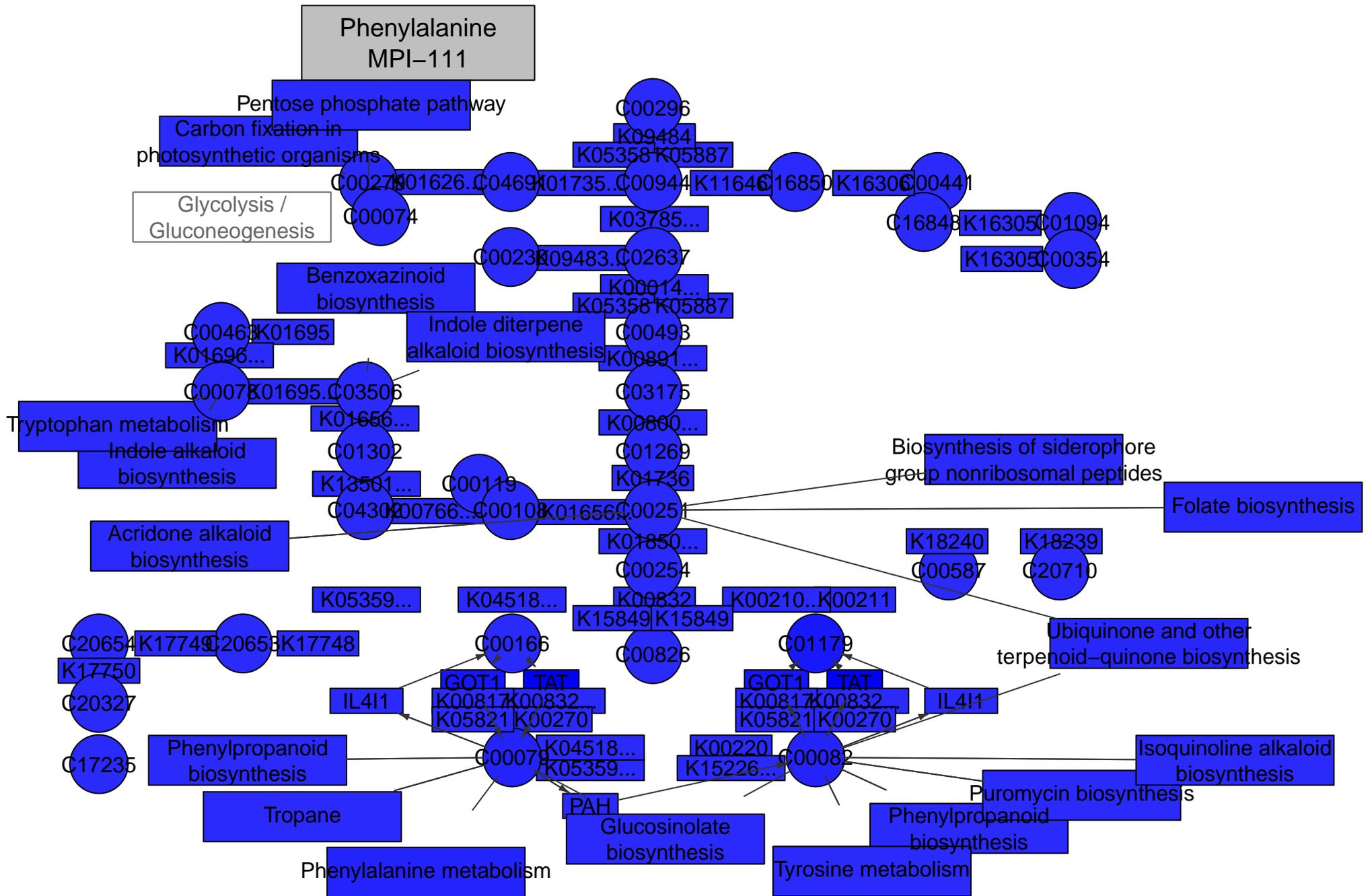
Phenylalanine  
MPI-108





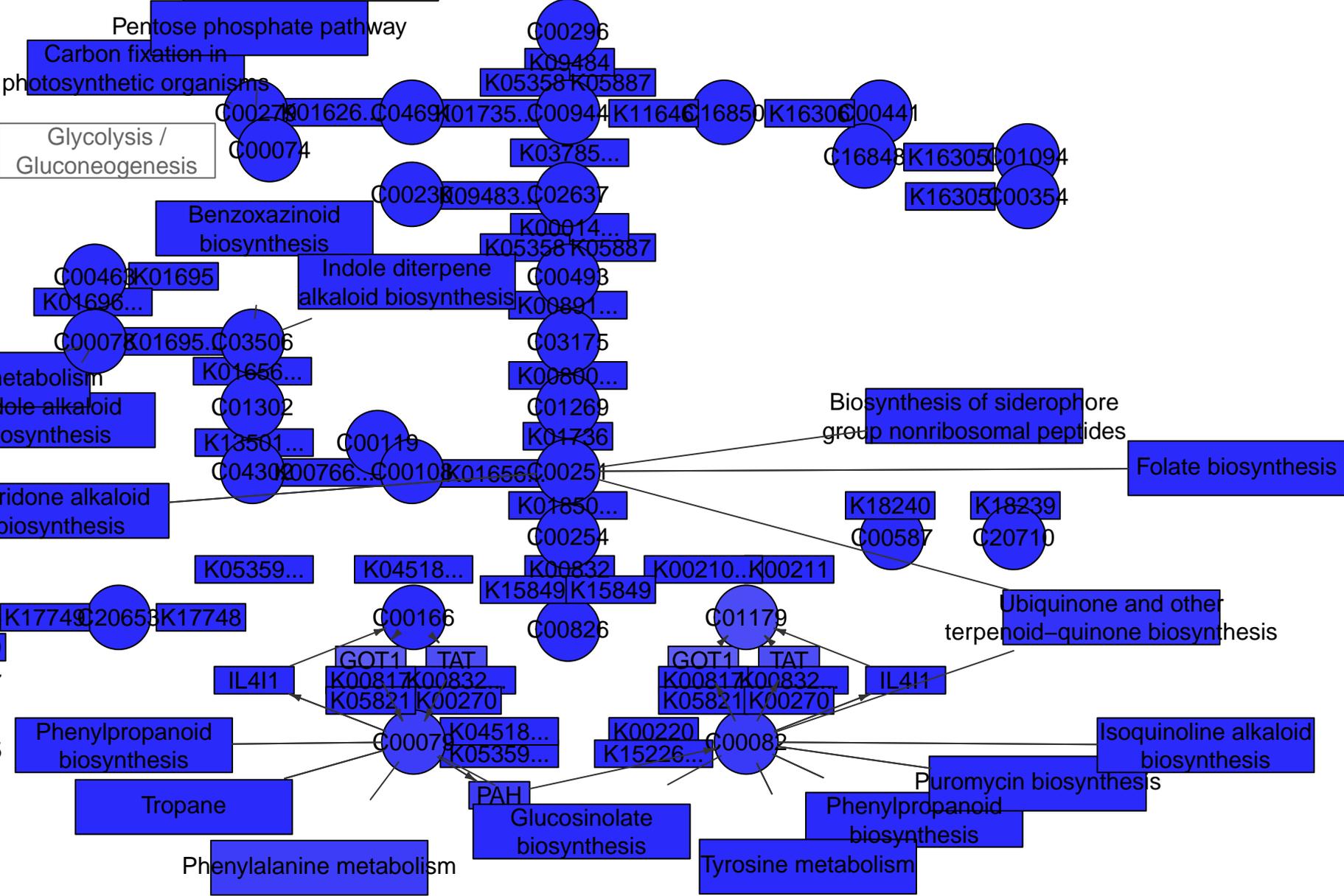
Phenylalanine  
MPI-110

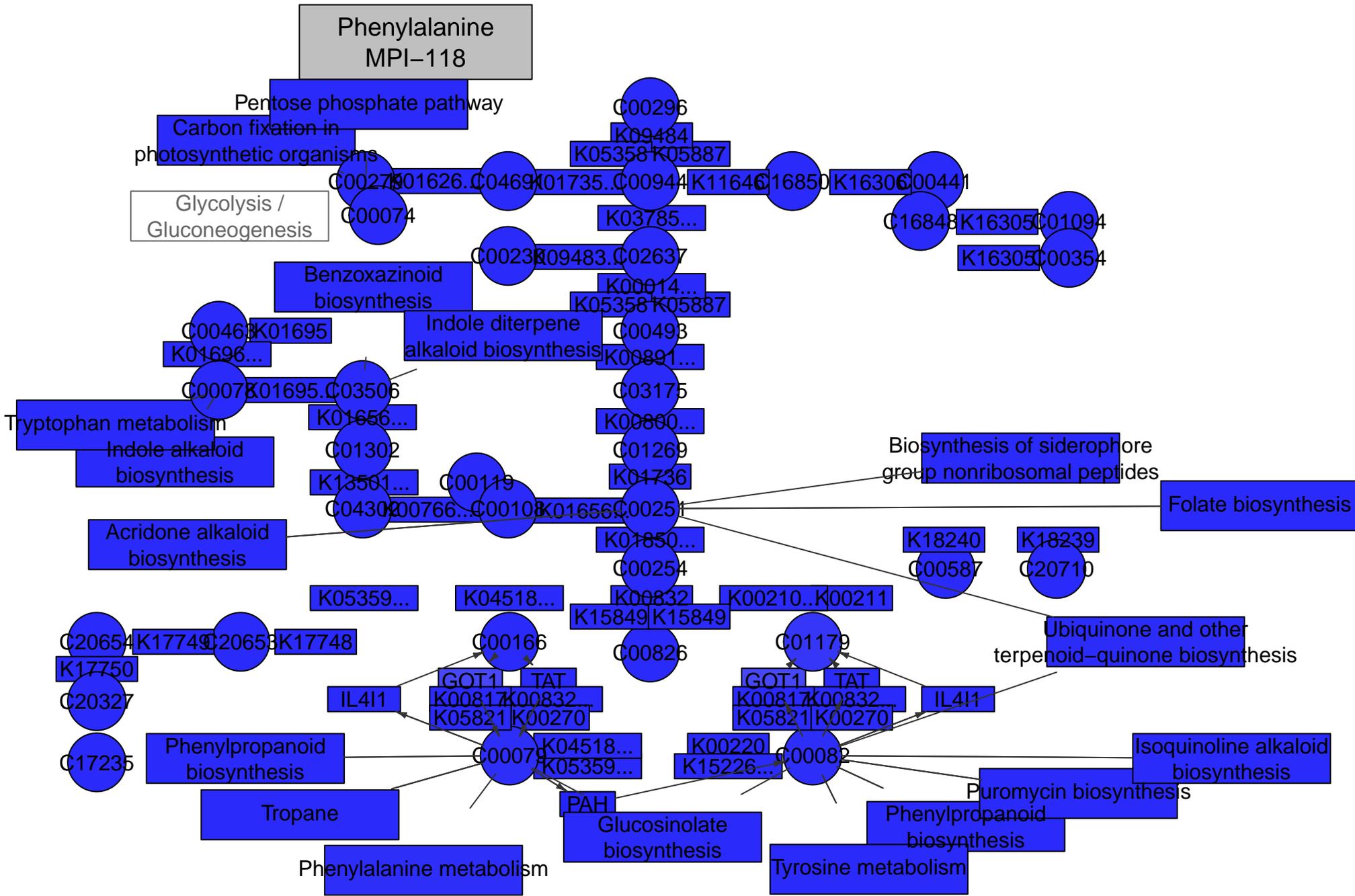


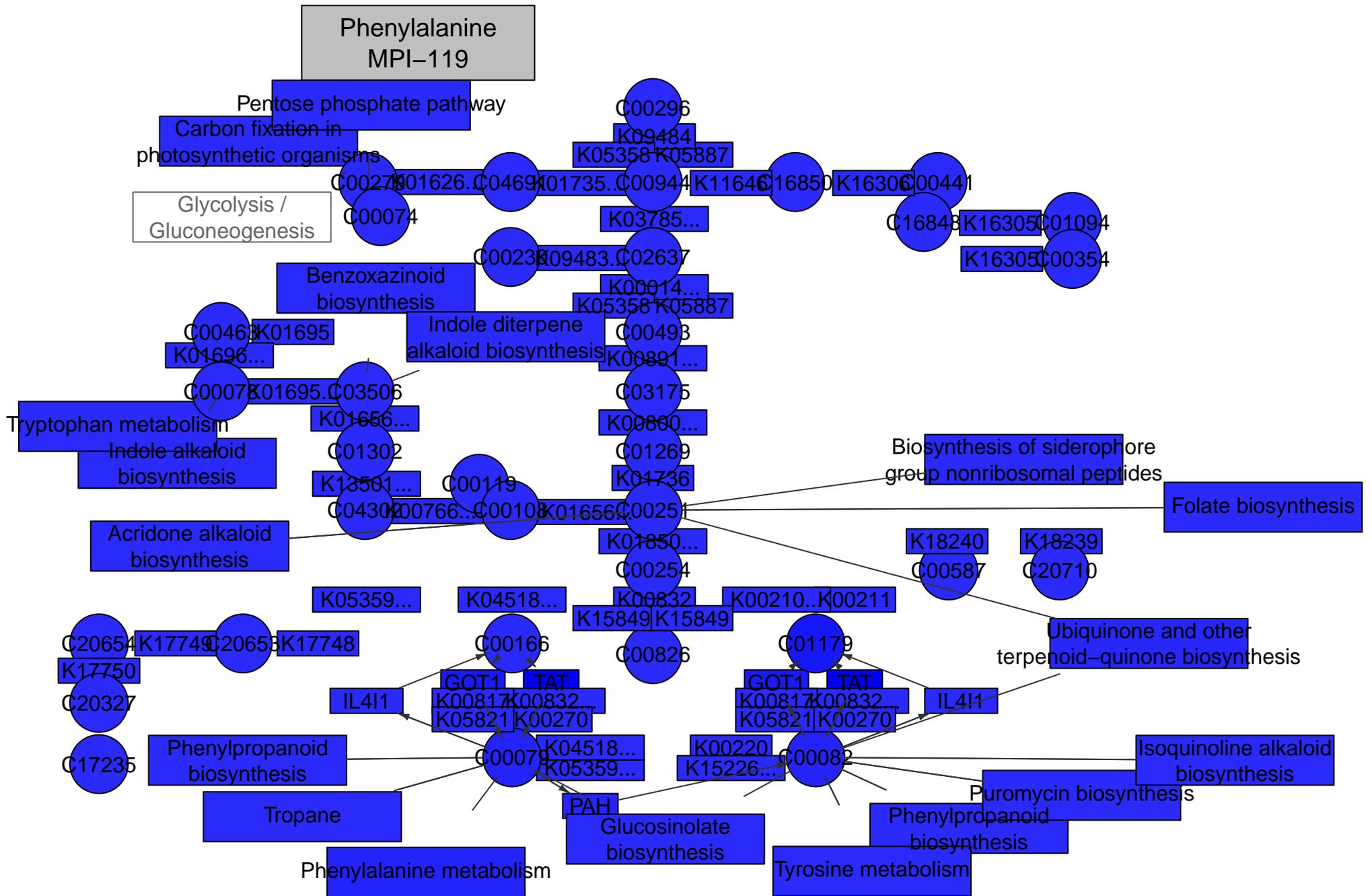




Phenylalanine  
MPI-115









Phenylalanine  
MPI-127

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Isoquinoline alkaloid  
biosynthesis

Puromycin biosynthesis

Phenylpropanoid  
biosynthesis

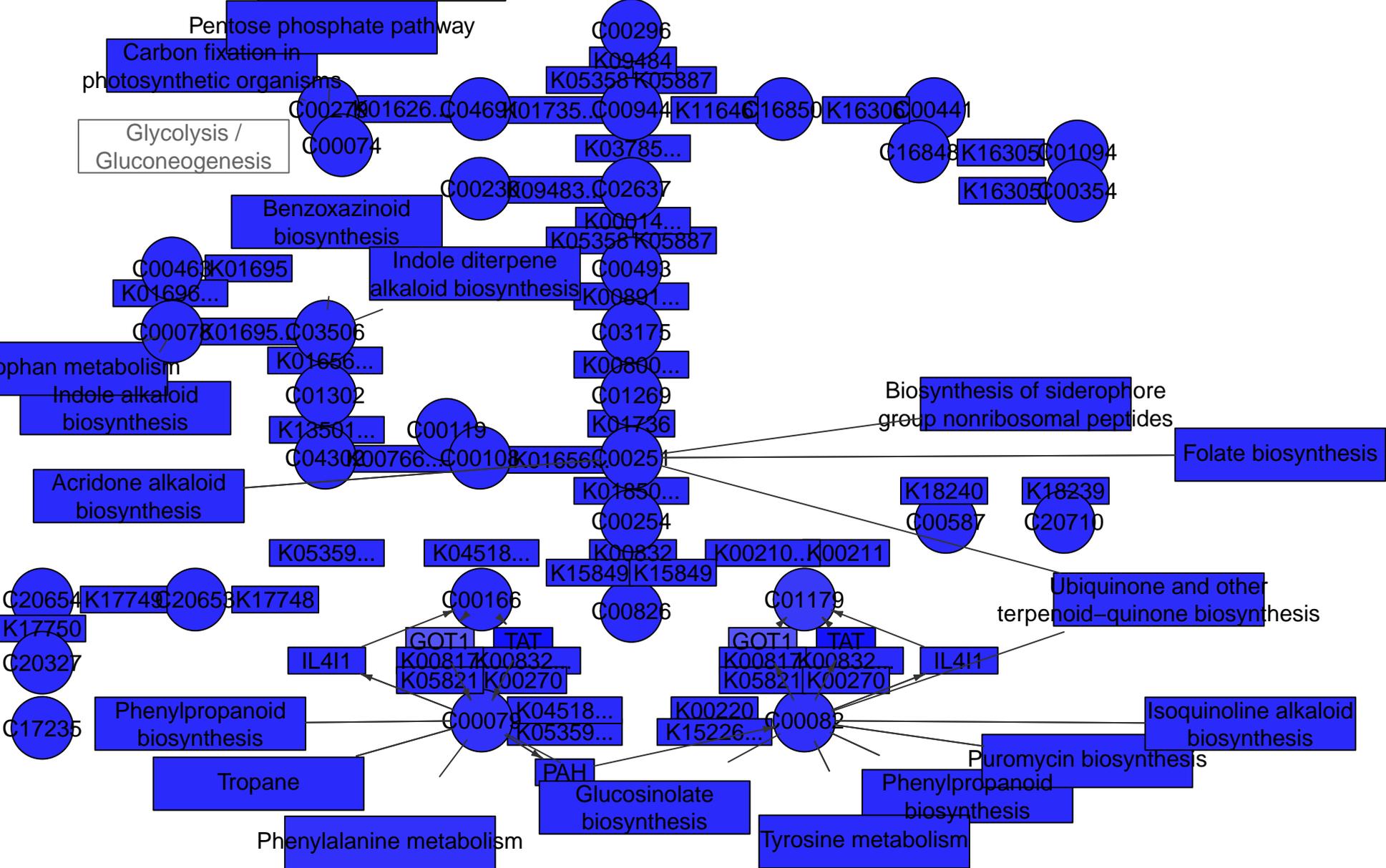
Tropane

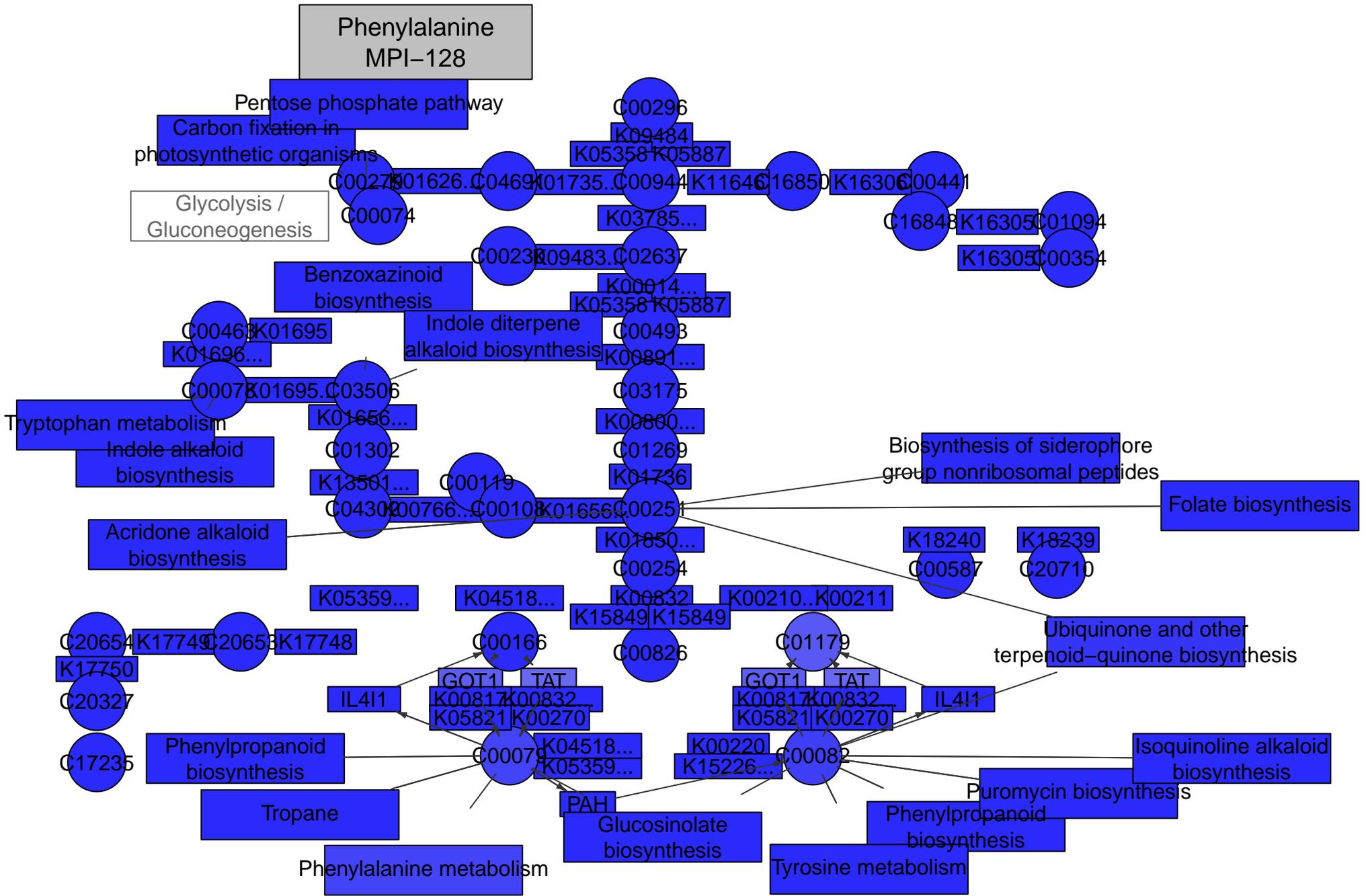
Phenylalanine metabolism

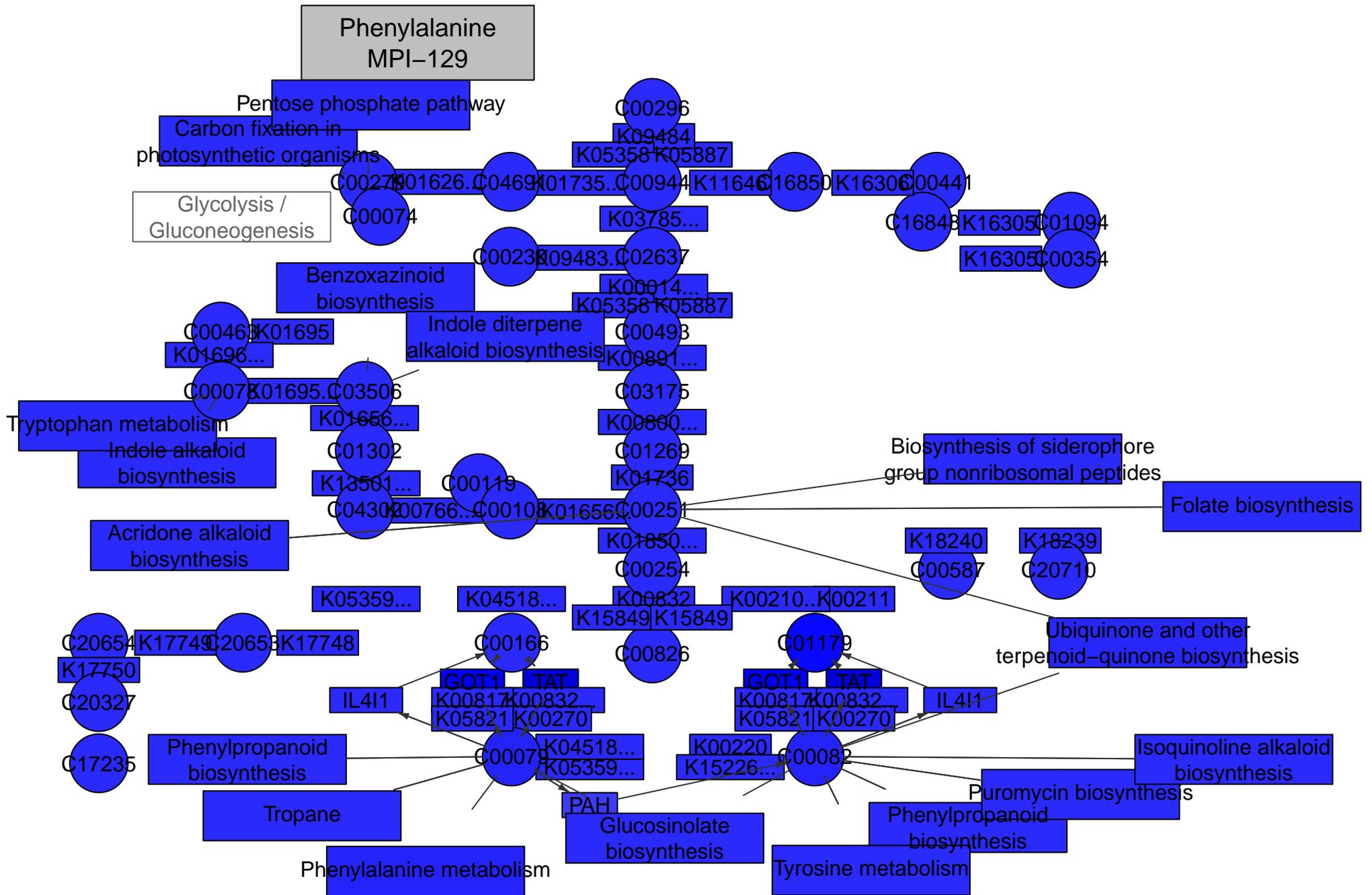
PAH  
Glucosinolate  
biosynthesis

Tyrosine metabolism

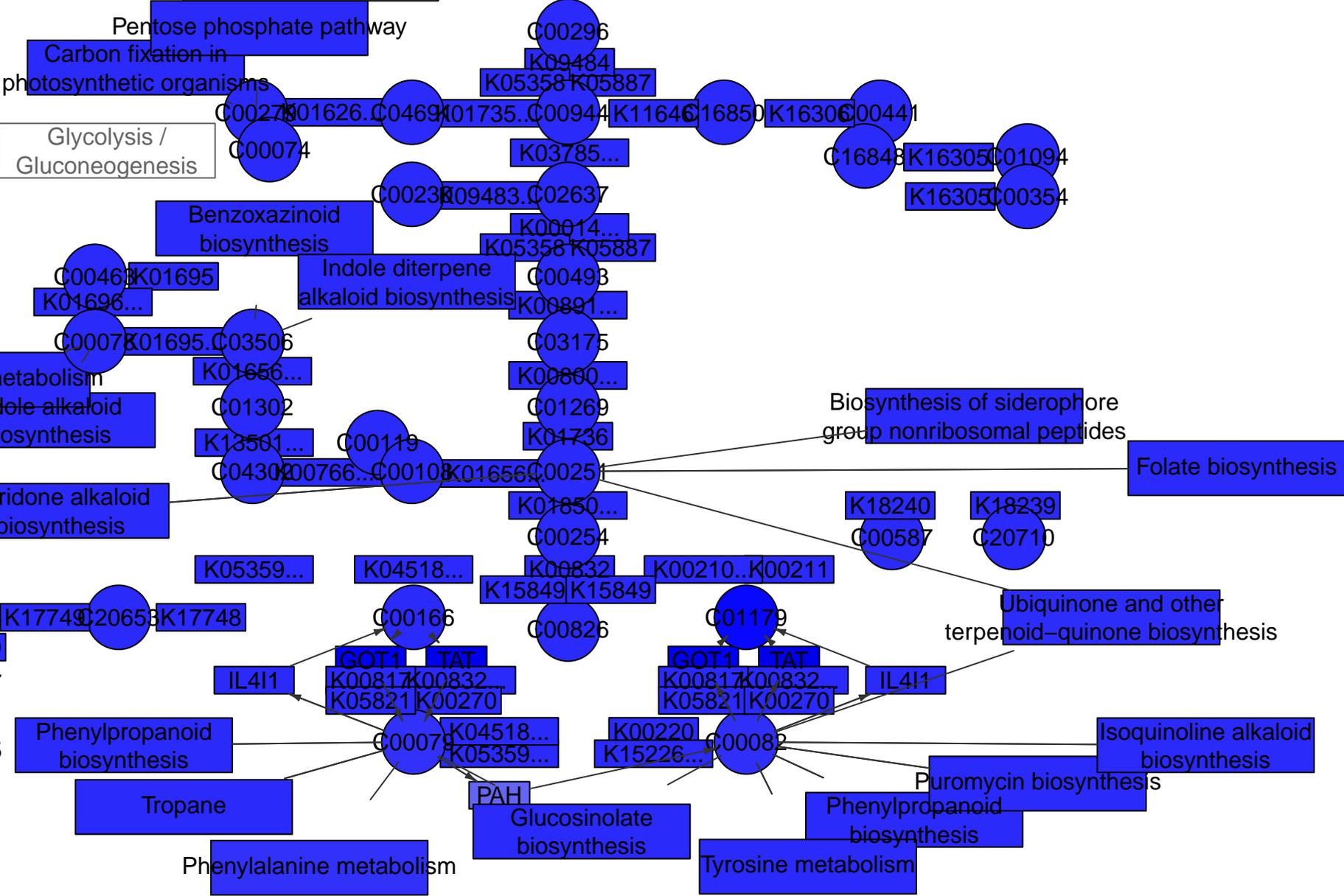
Phenylpropanoid  
biosynthesis

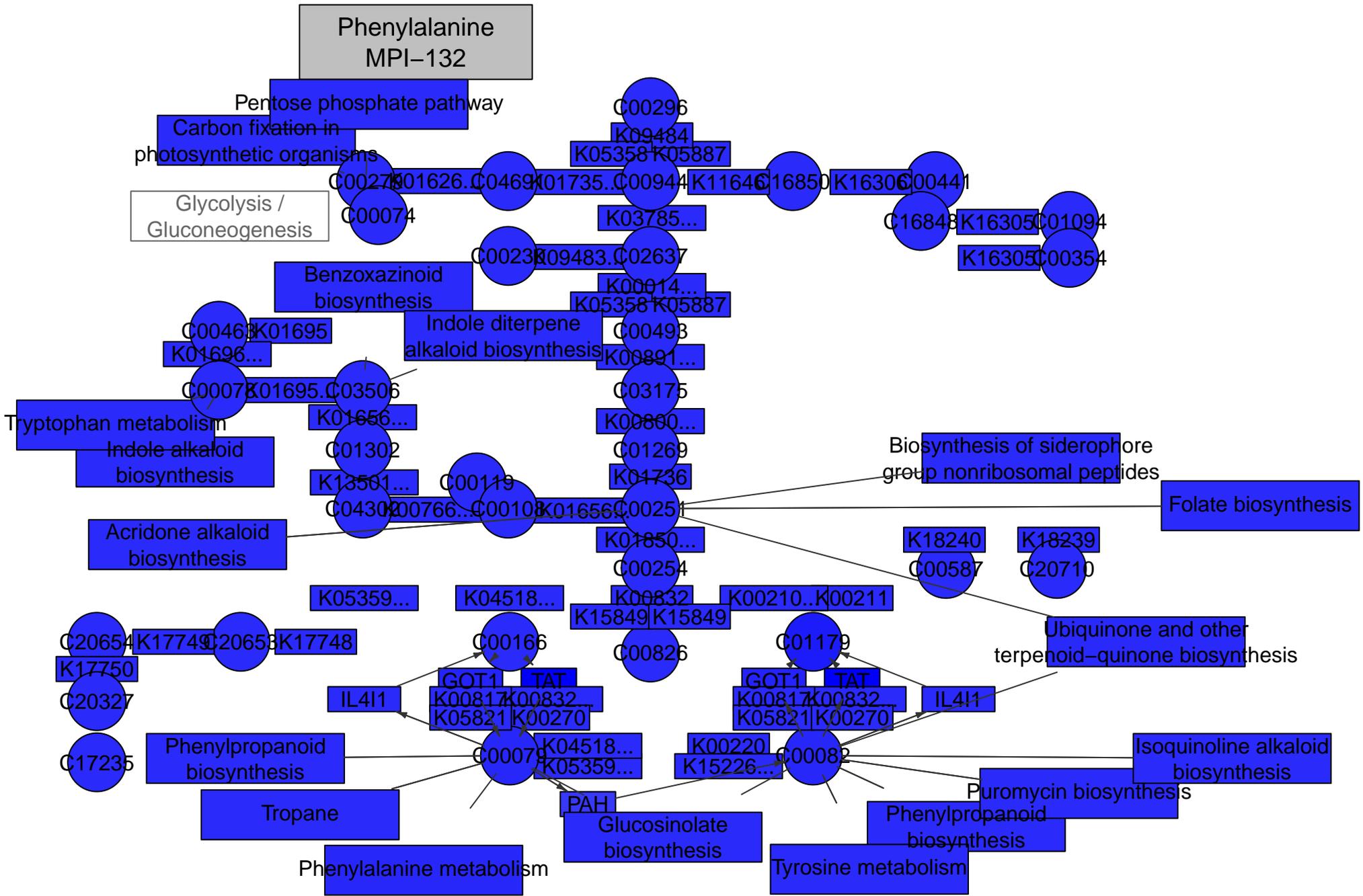




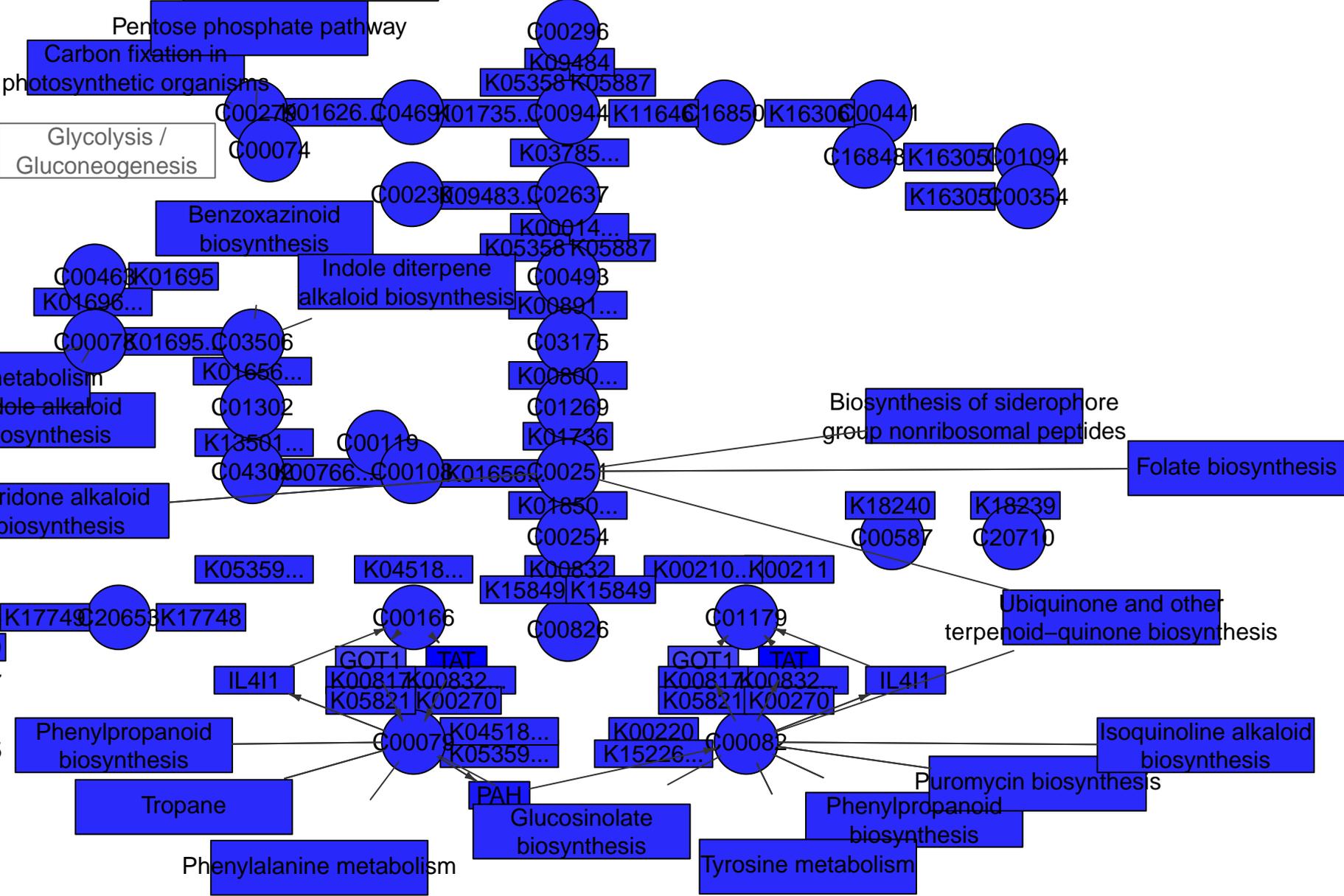


Phenylalanine  
MPI-130



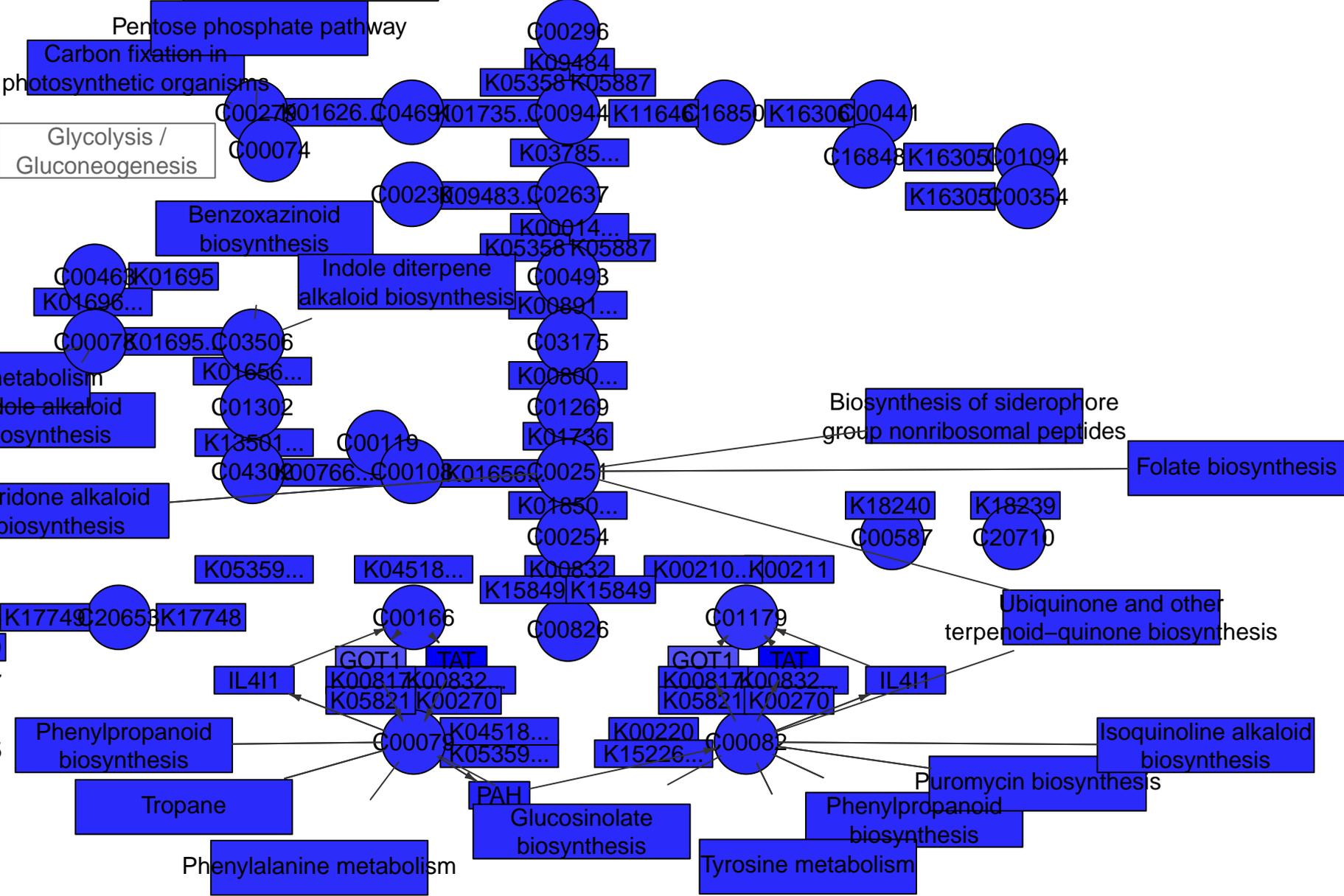


Phenylalanine  
MPI-133

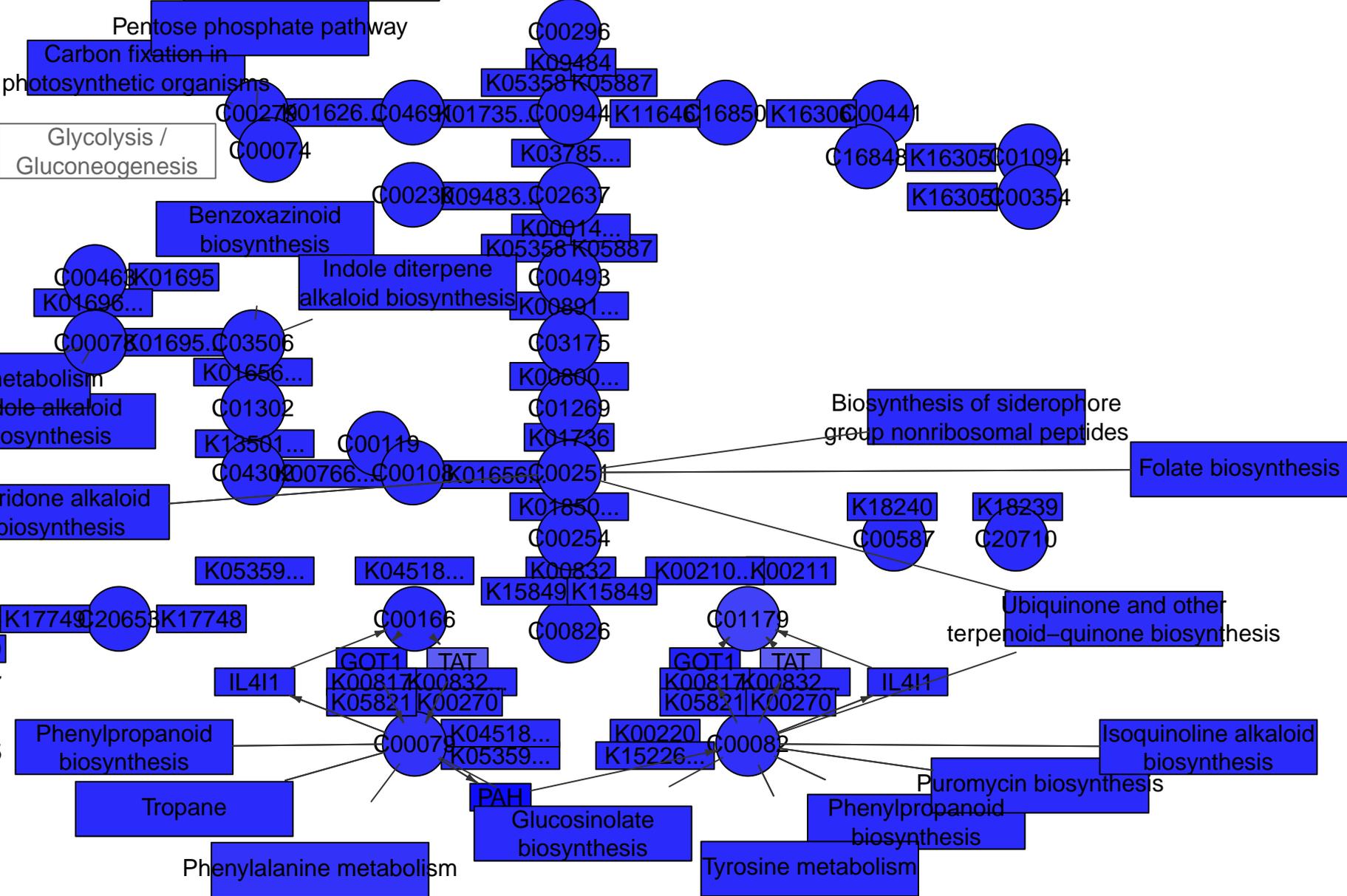




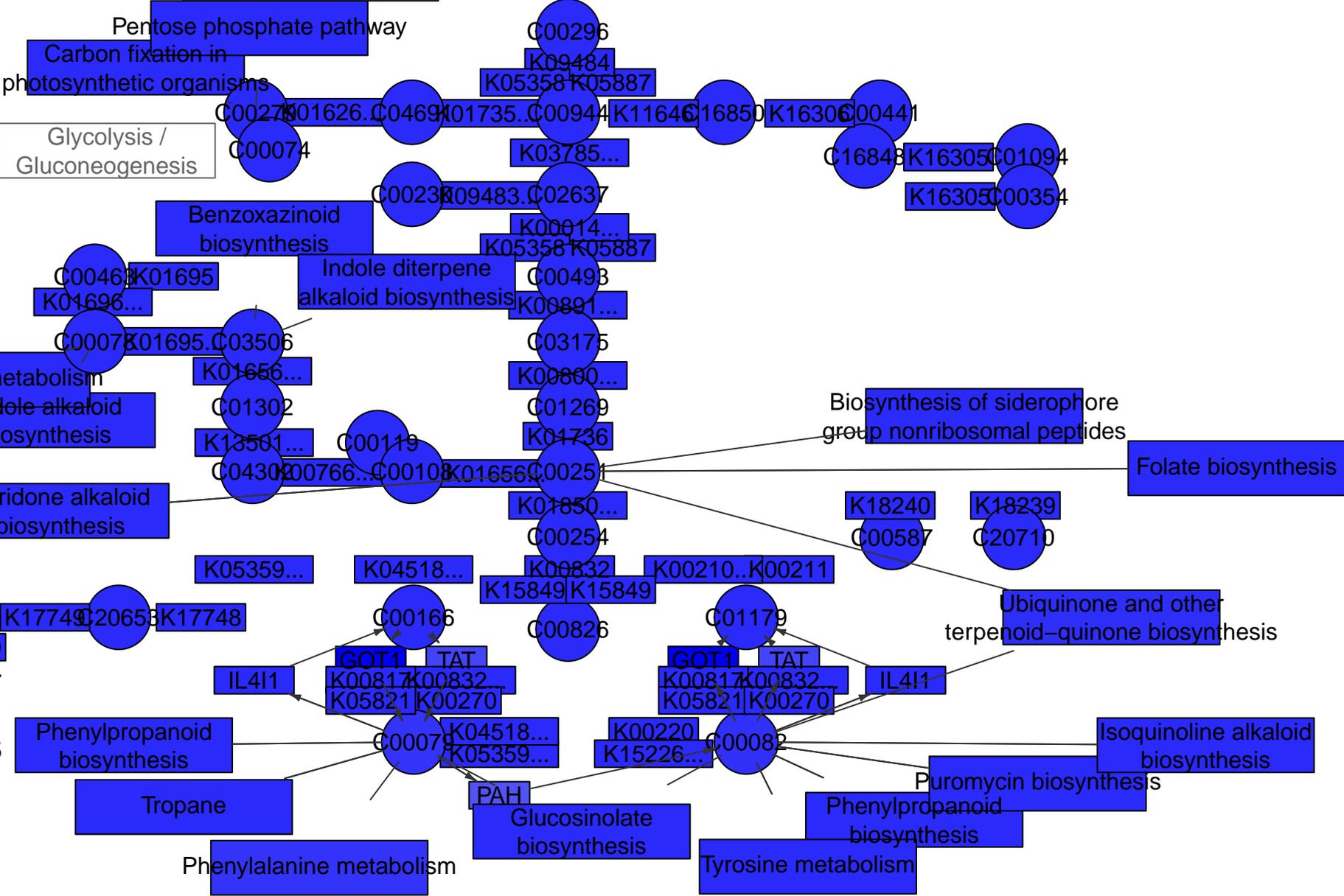
Phenylalanine  
MPI-135



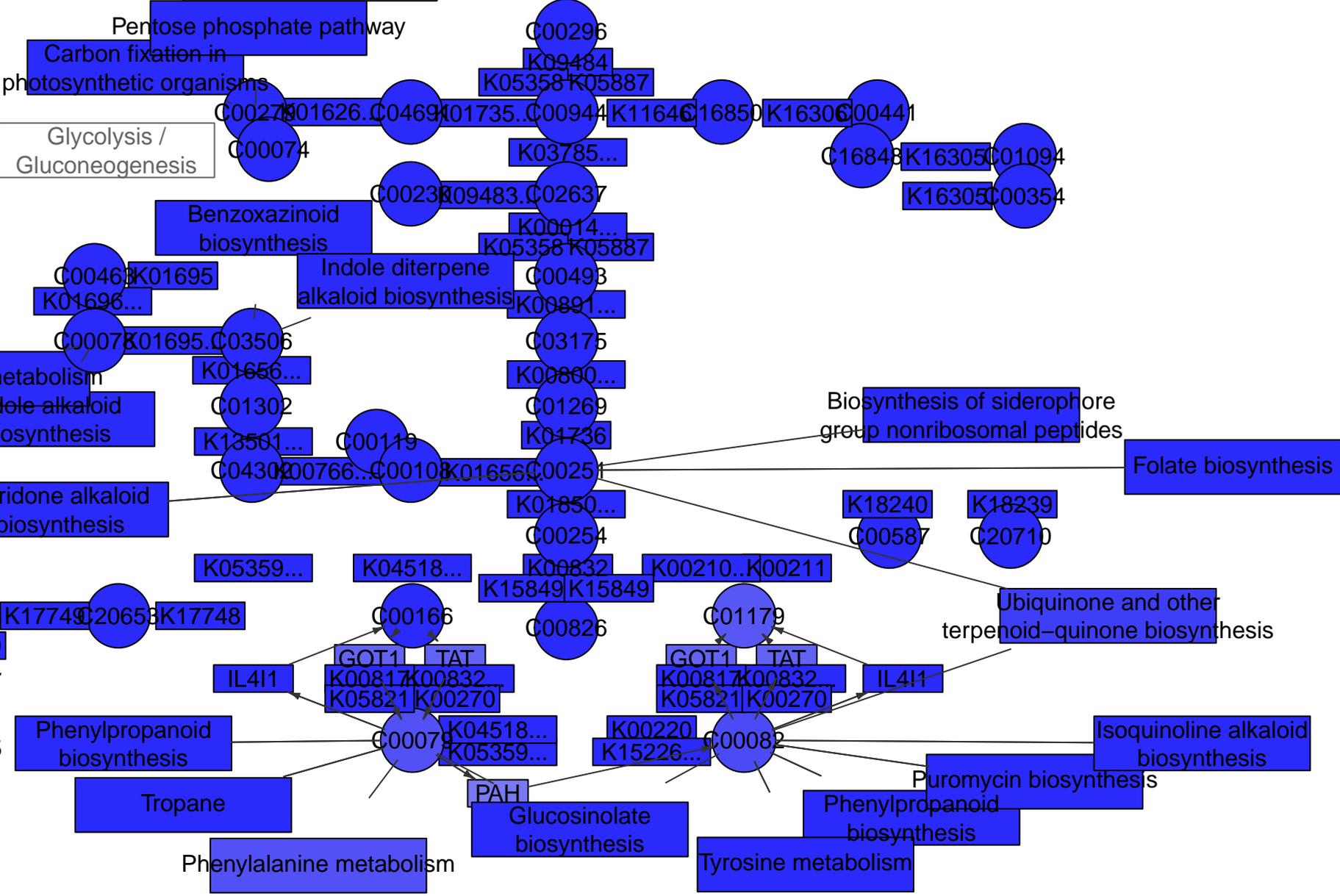
Phenylalanine  
MPI-136

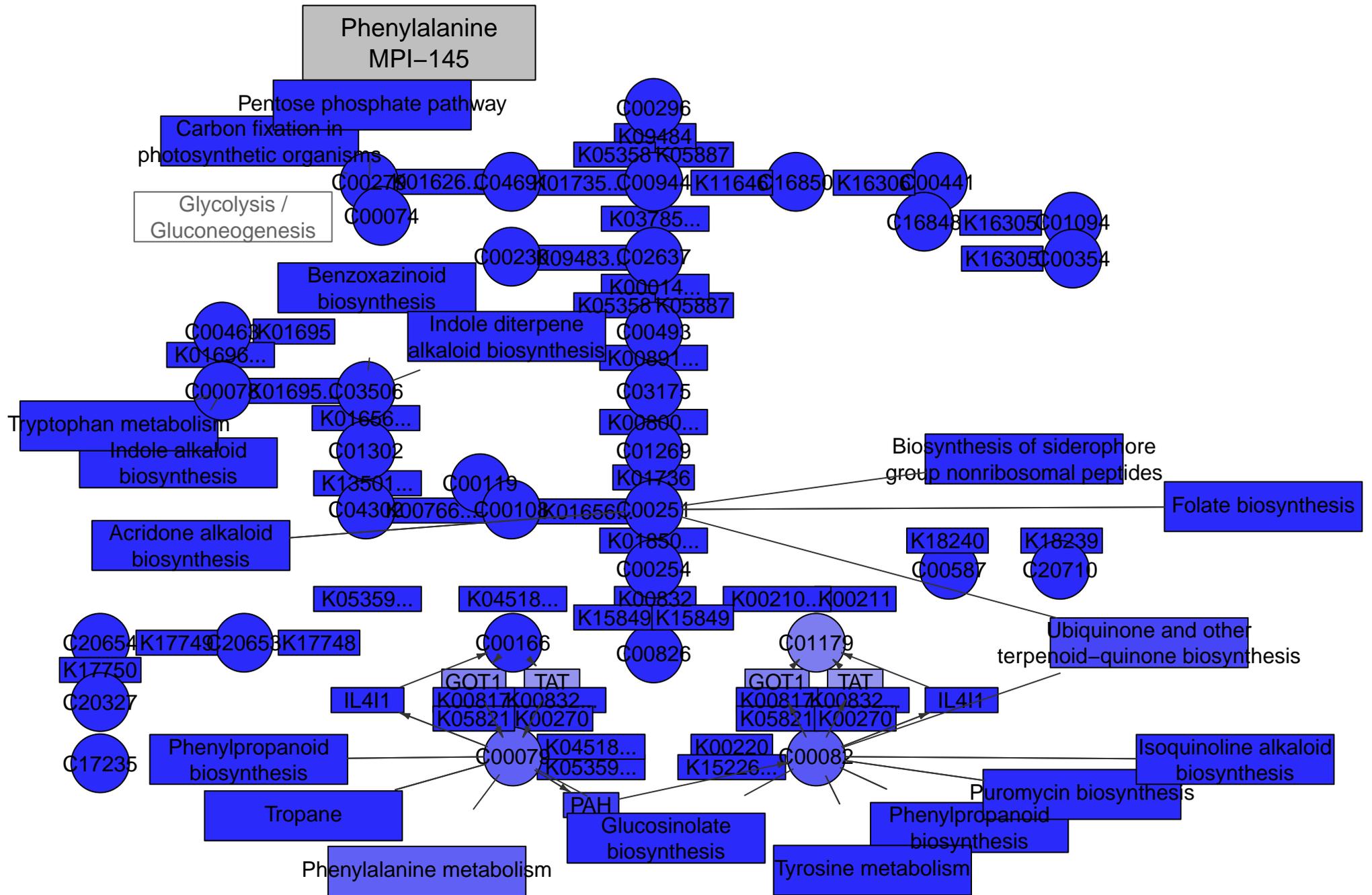


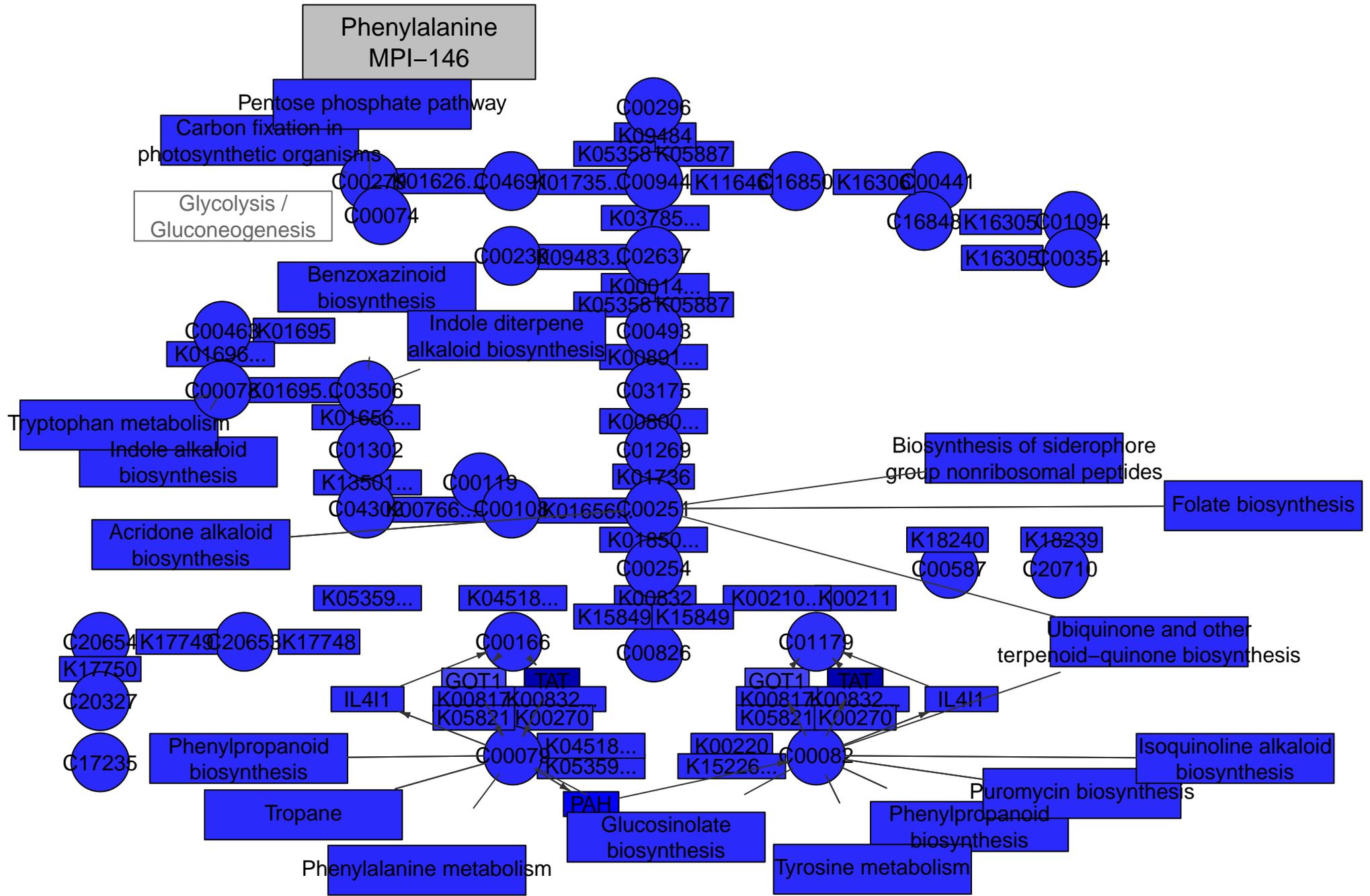
Phenylalanine  
MPI-141

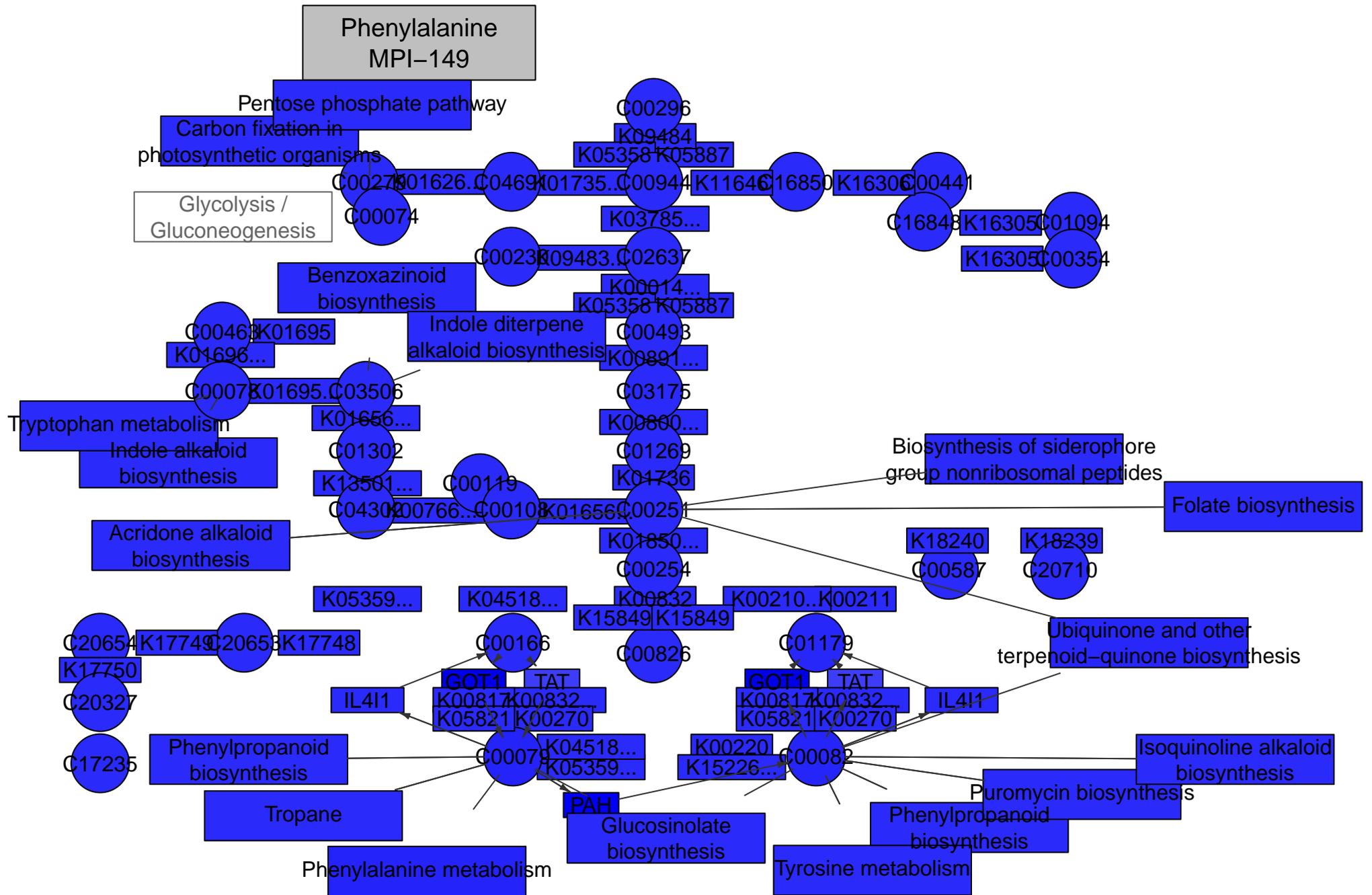


Phenylalanine  
MPI-142

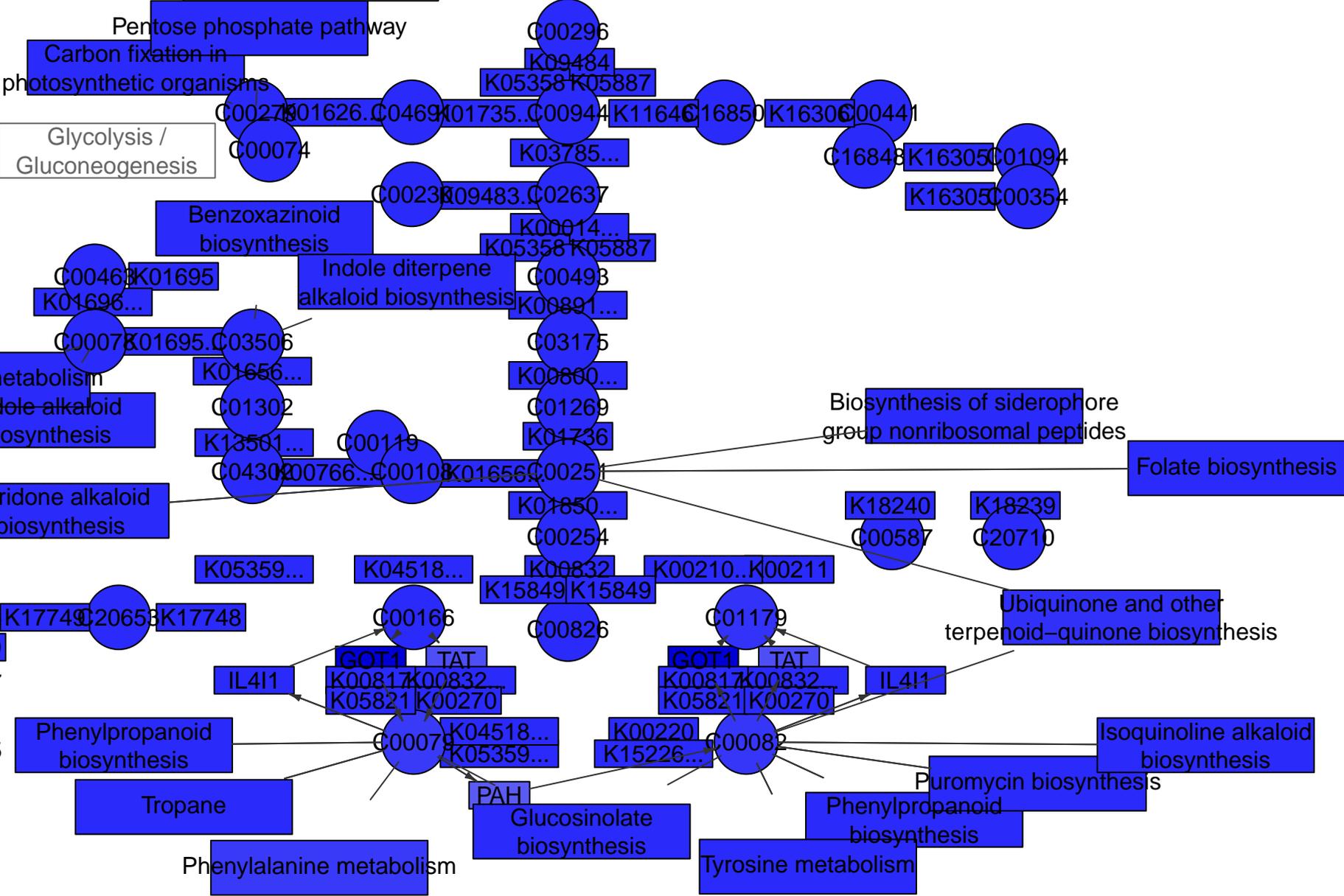




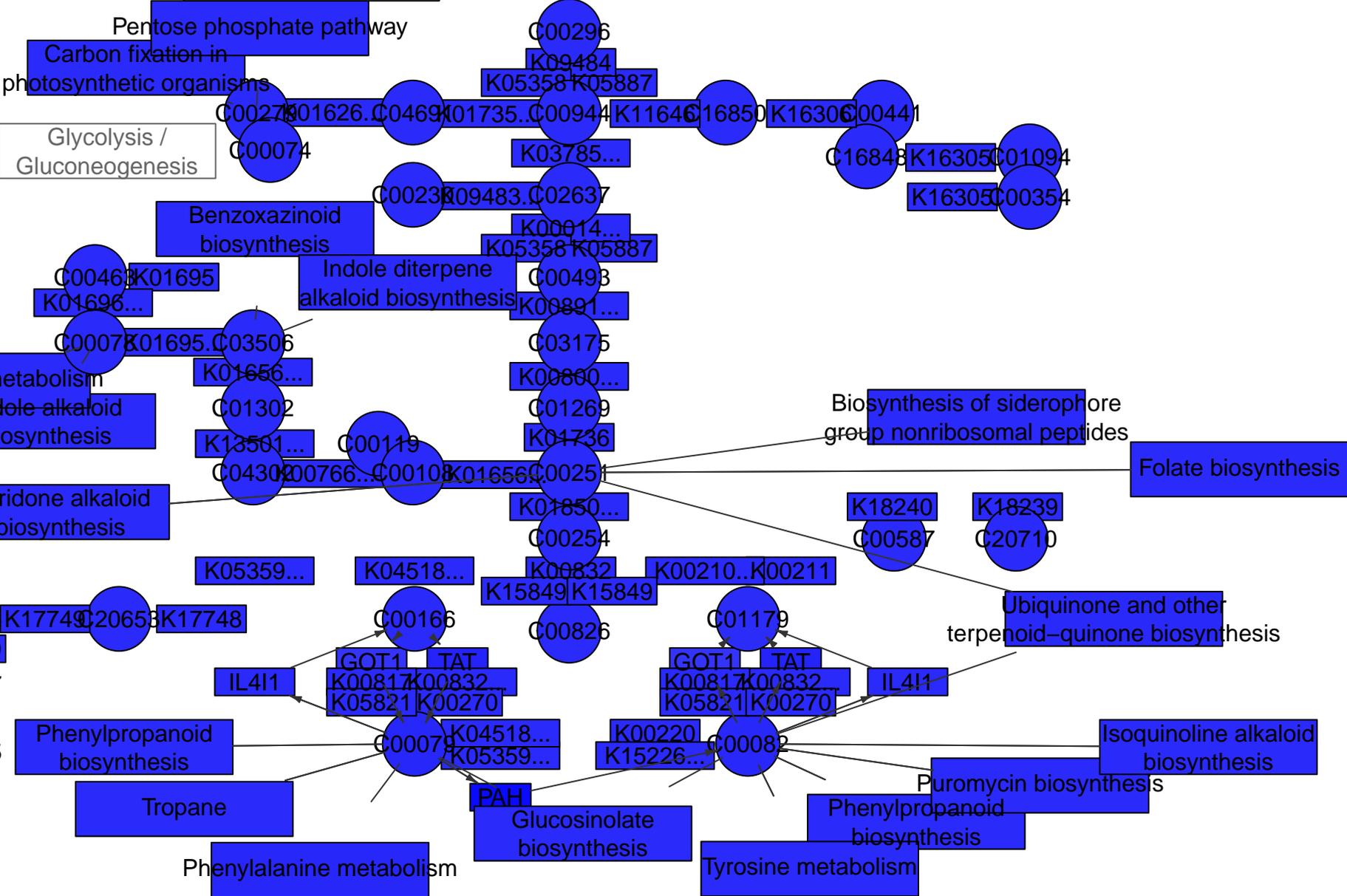


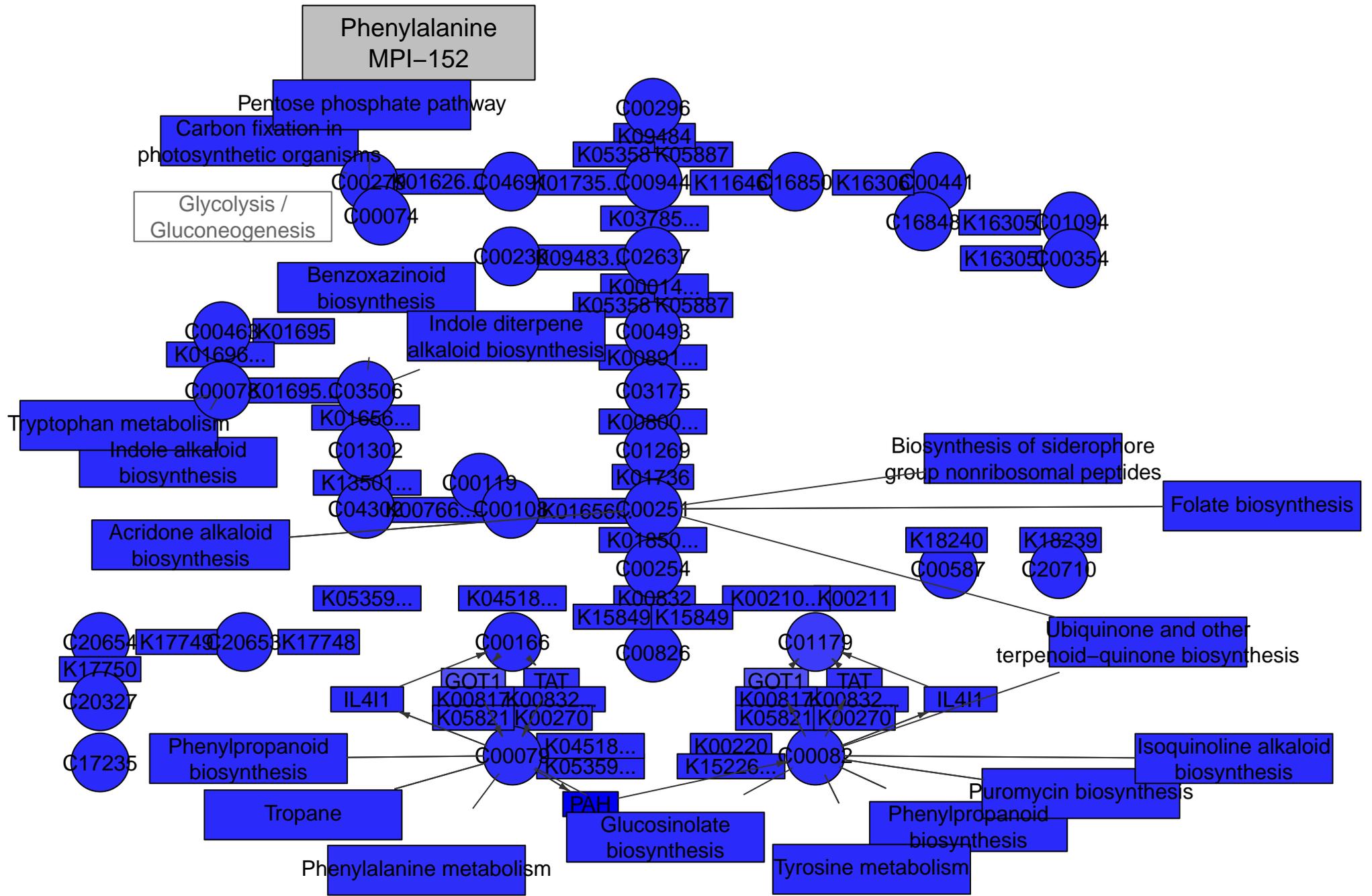


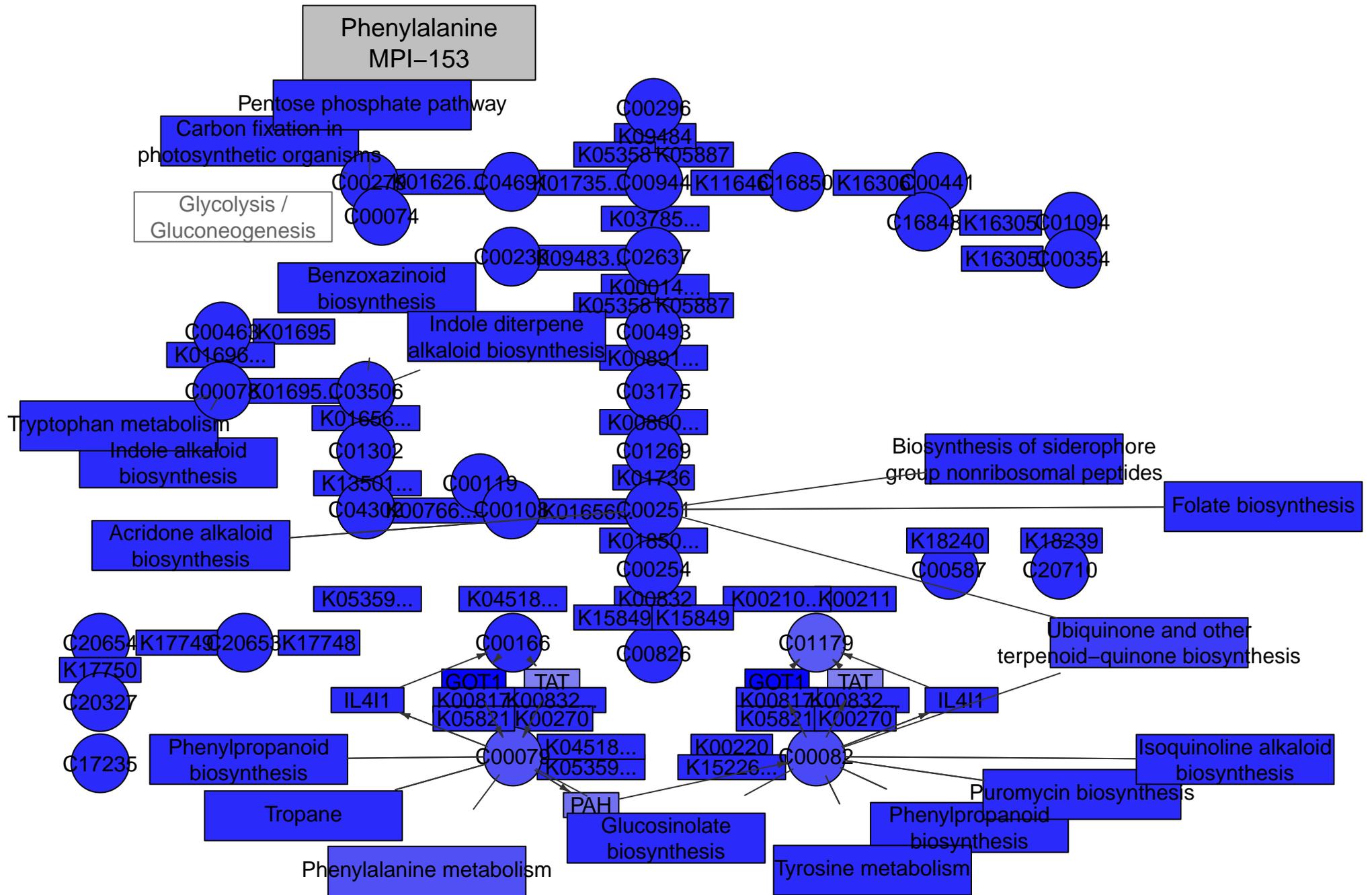
Phenylalanine  
MPI-150



Phenylalanine  
MPI-151

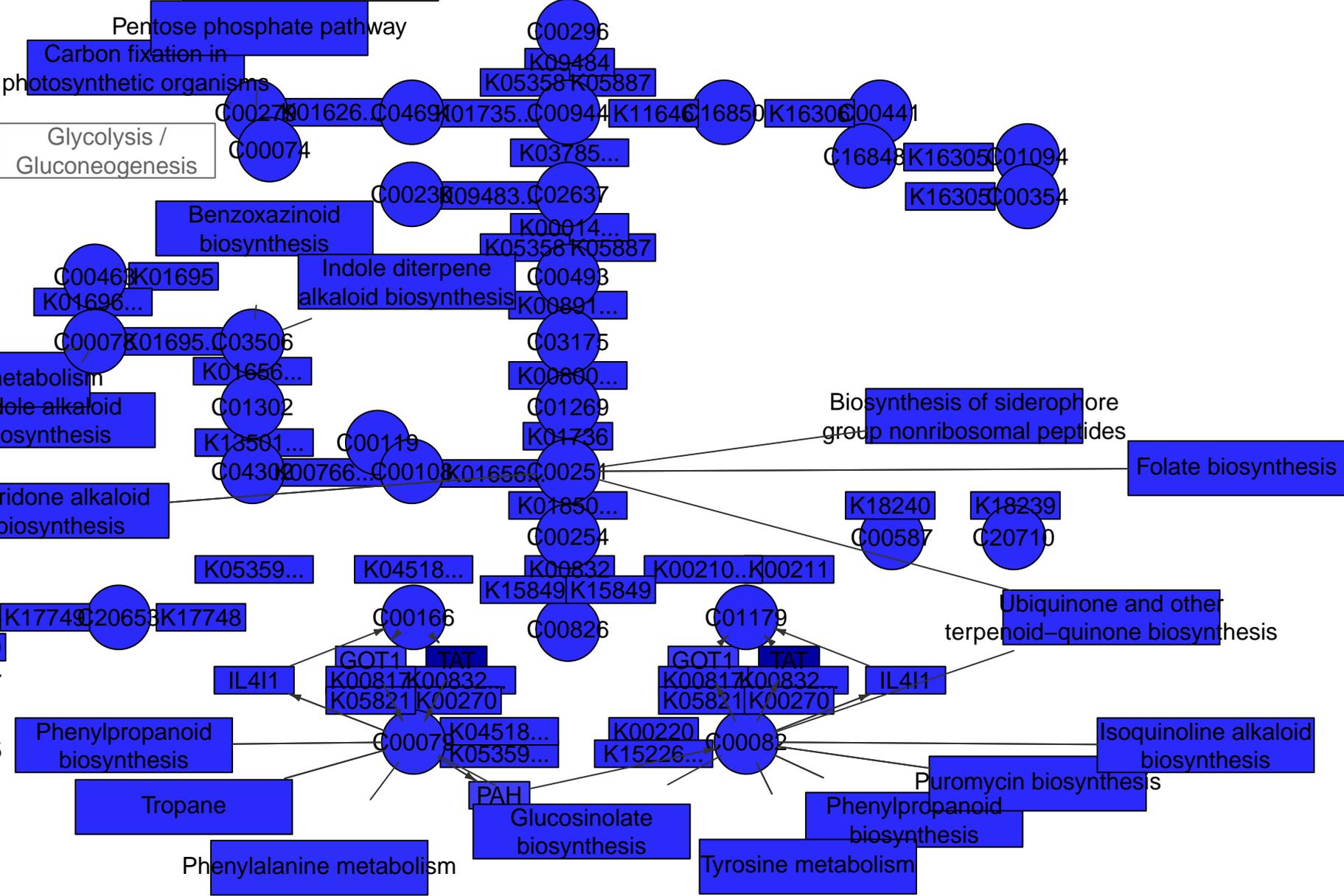


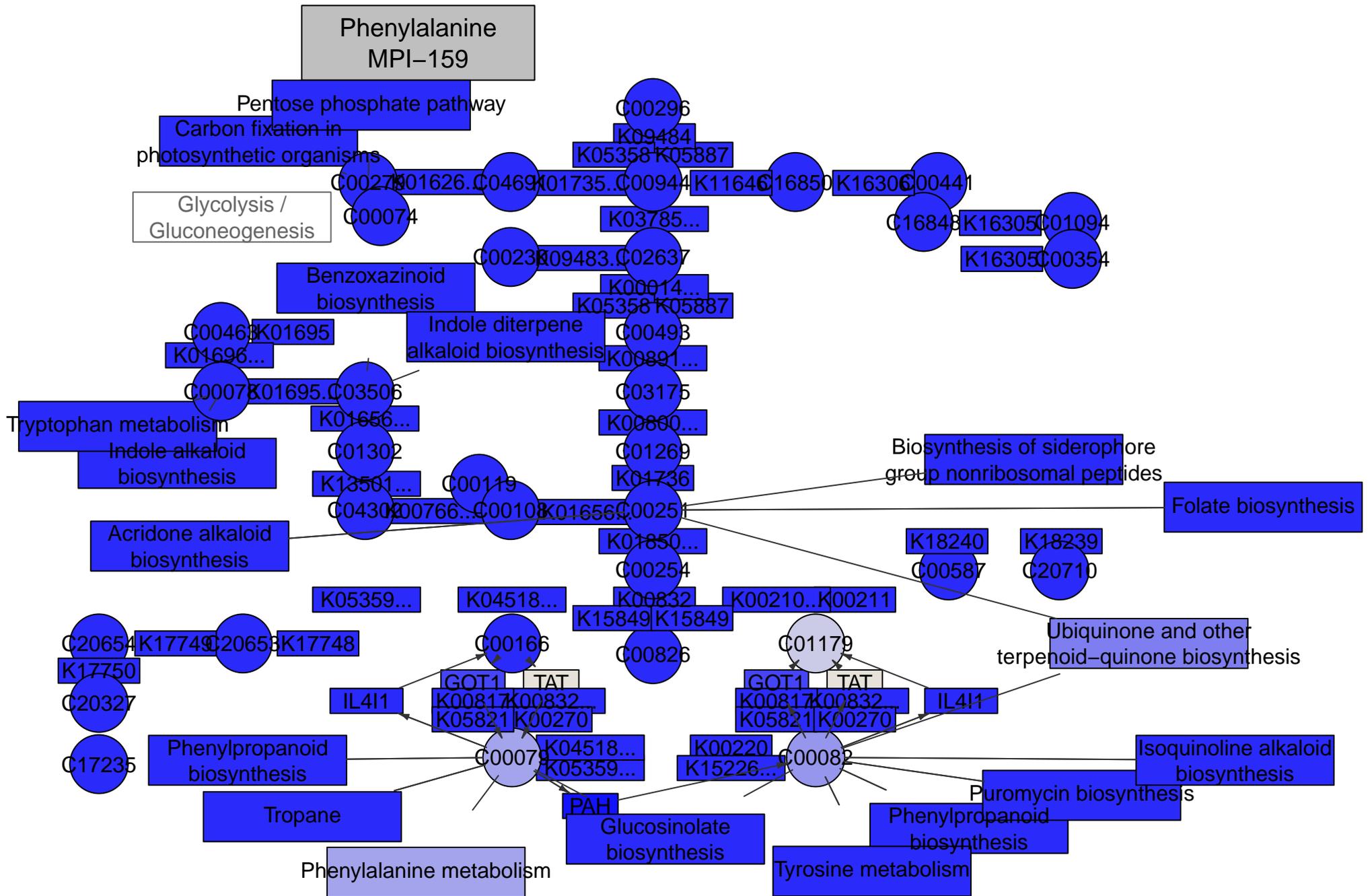




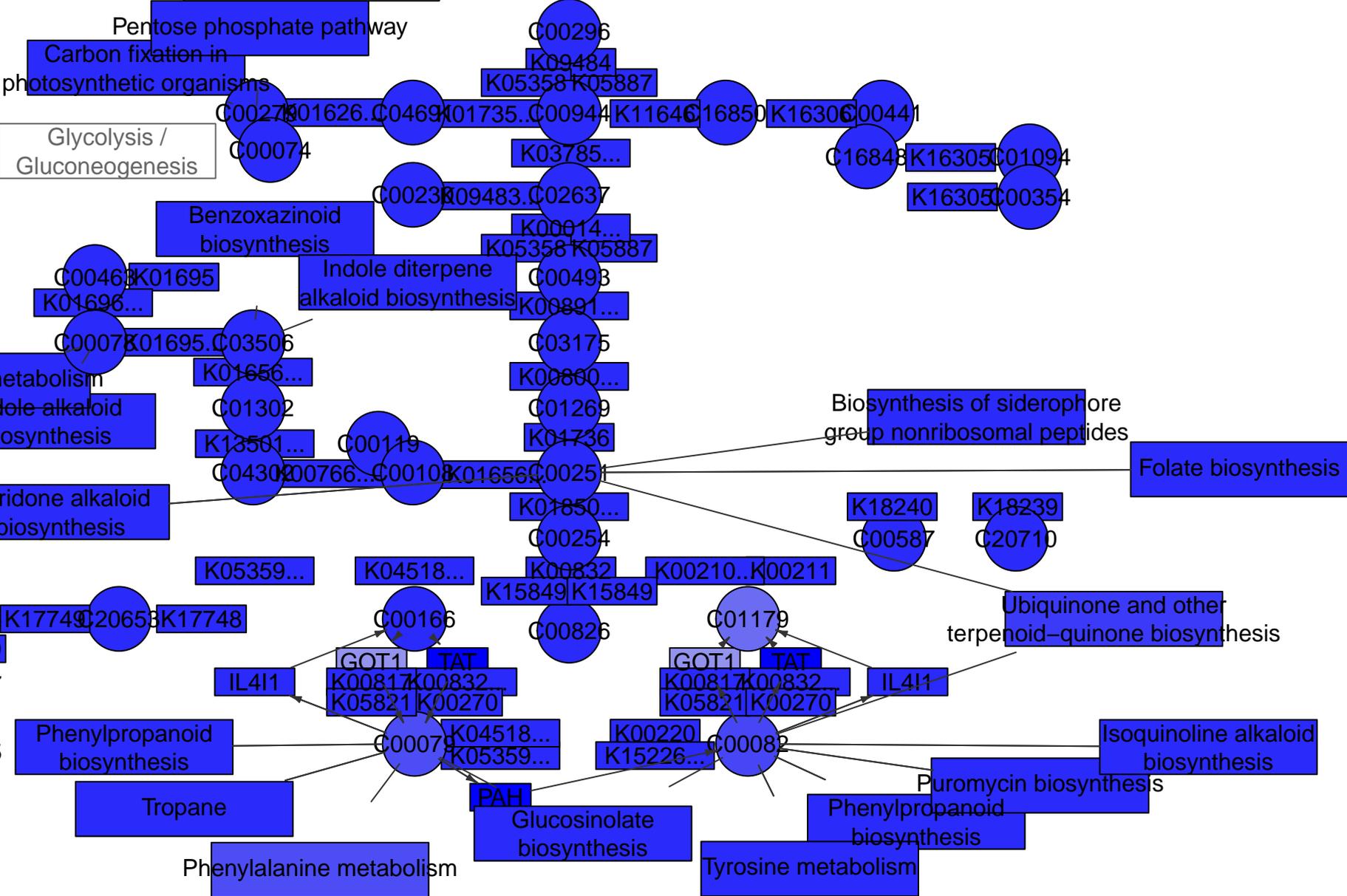


Phenylalanine  
MPI-155

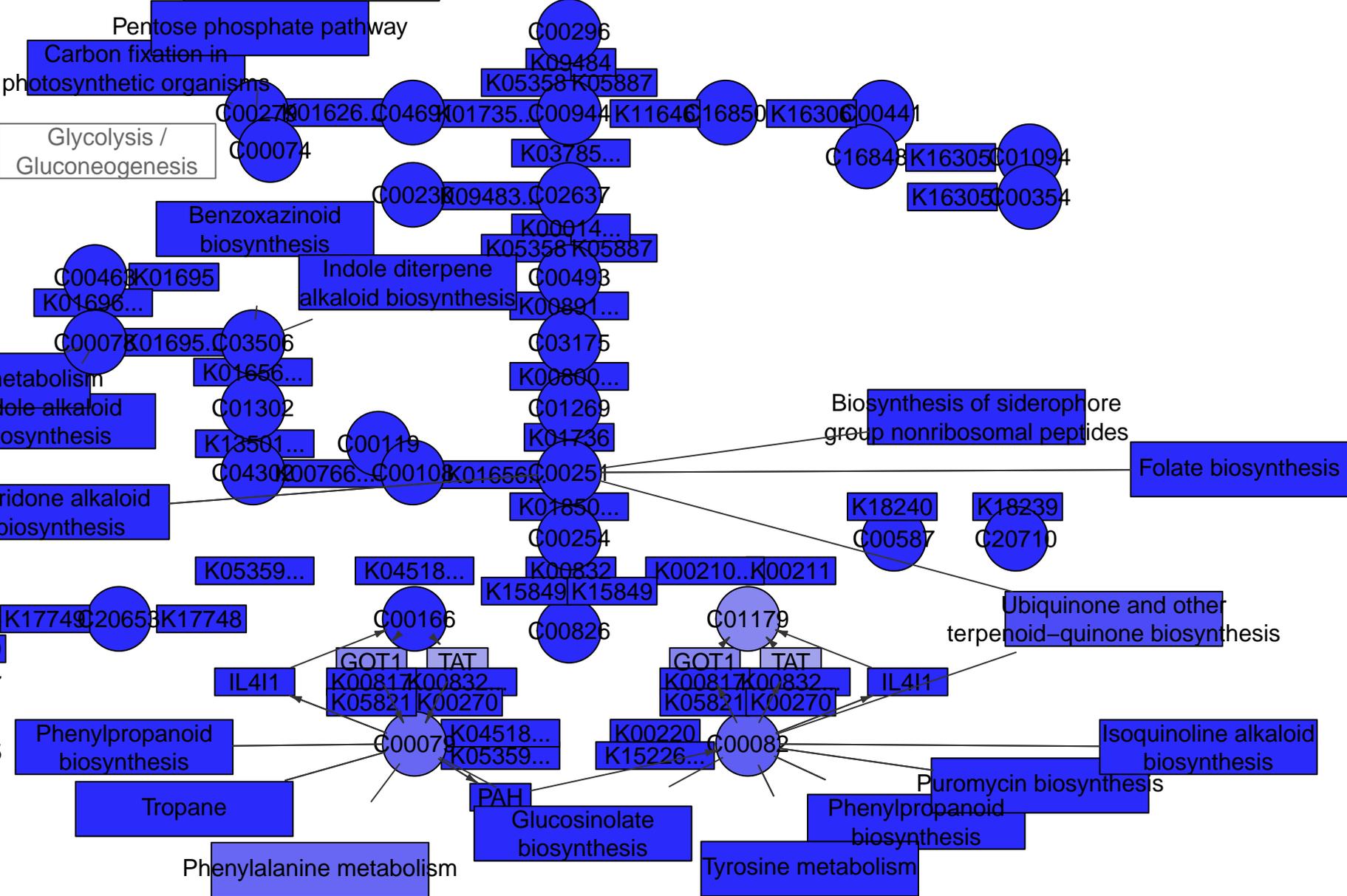




Phenylalanine  
MPI-163

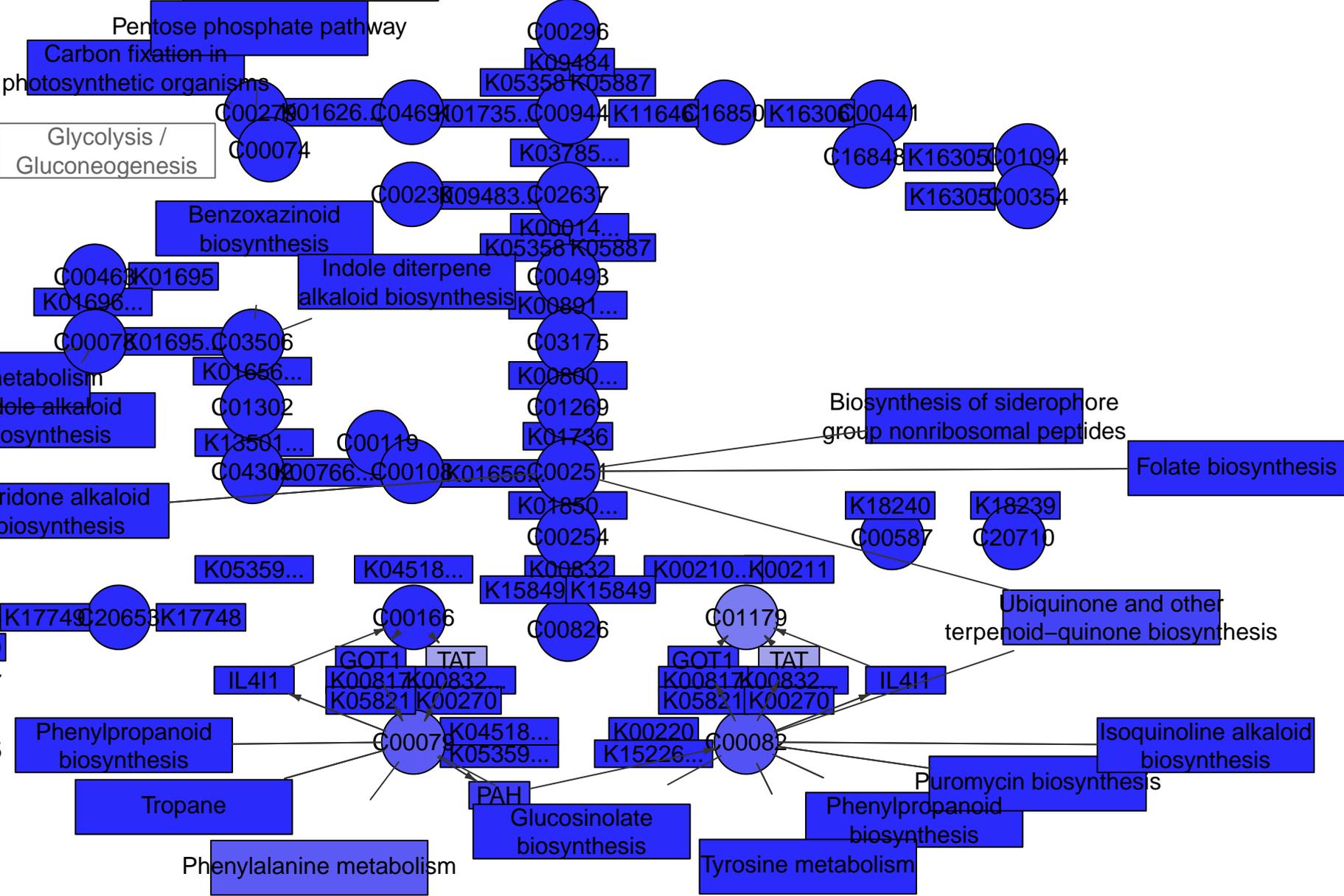


Phenylalanine  
MPI-164



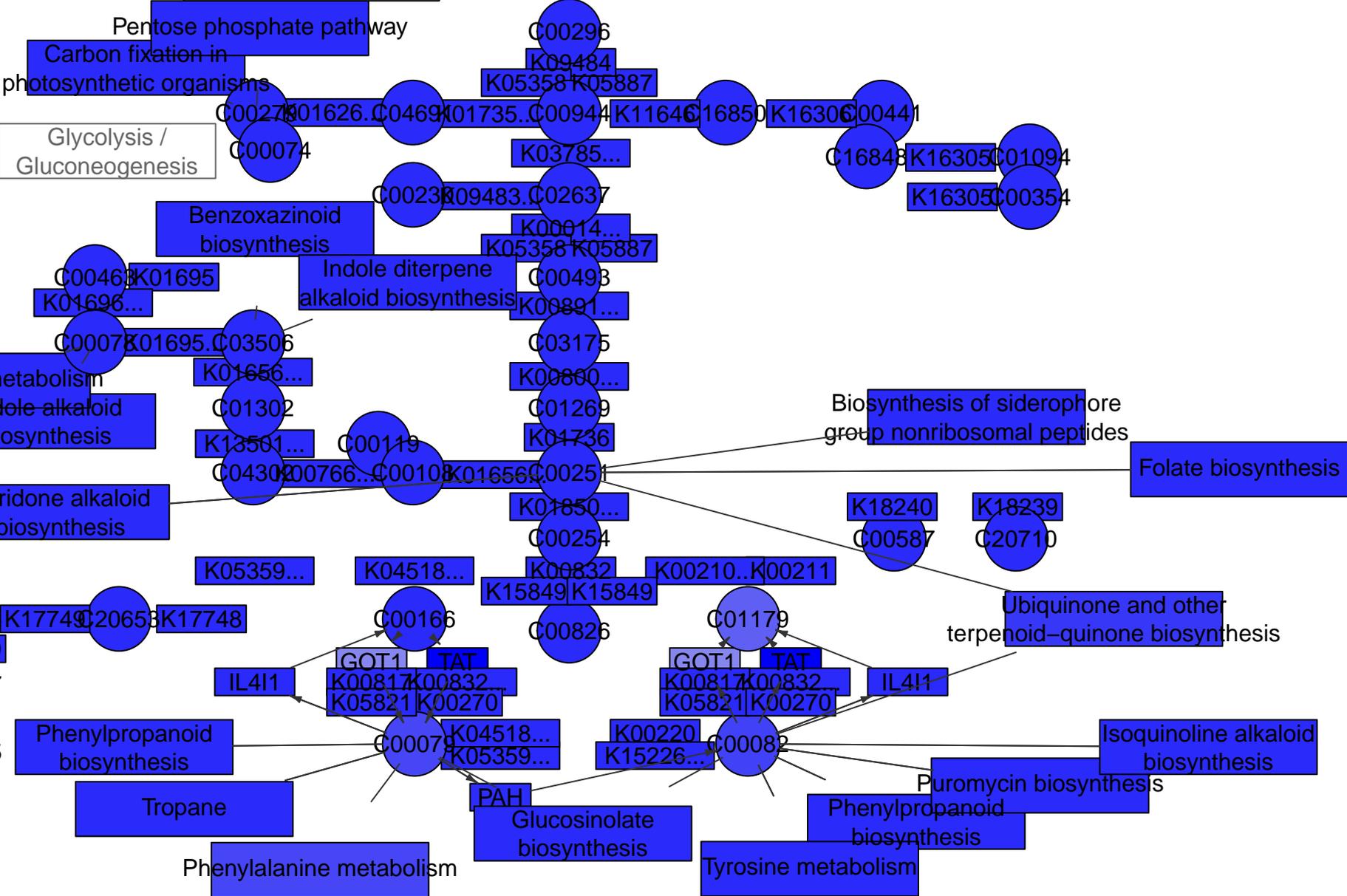


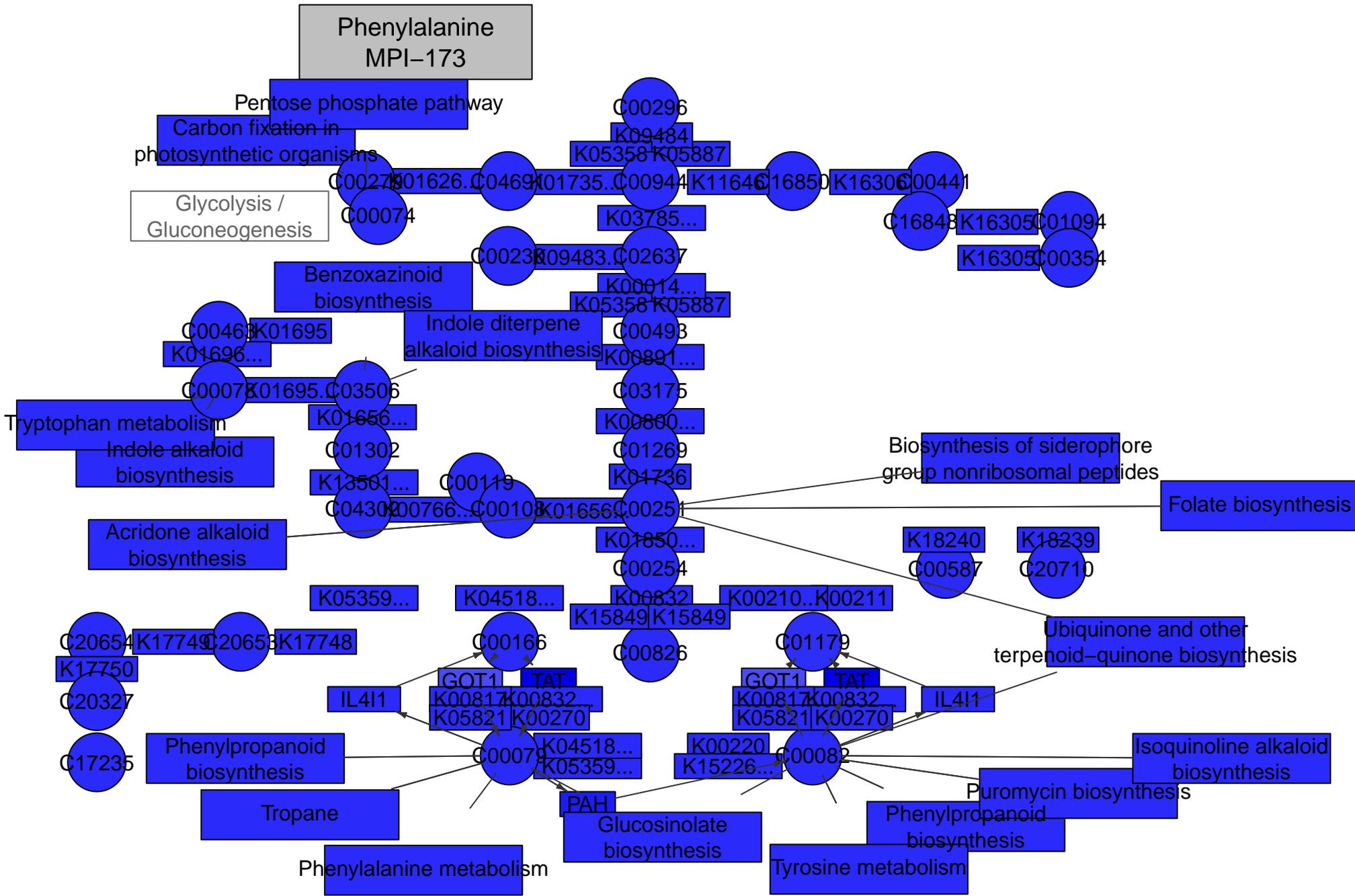
Phenylalanine  
MPI-167



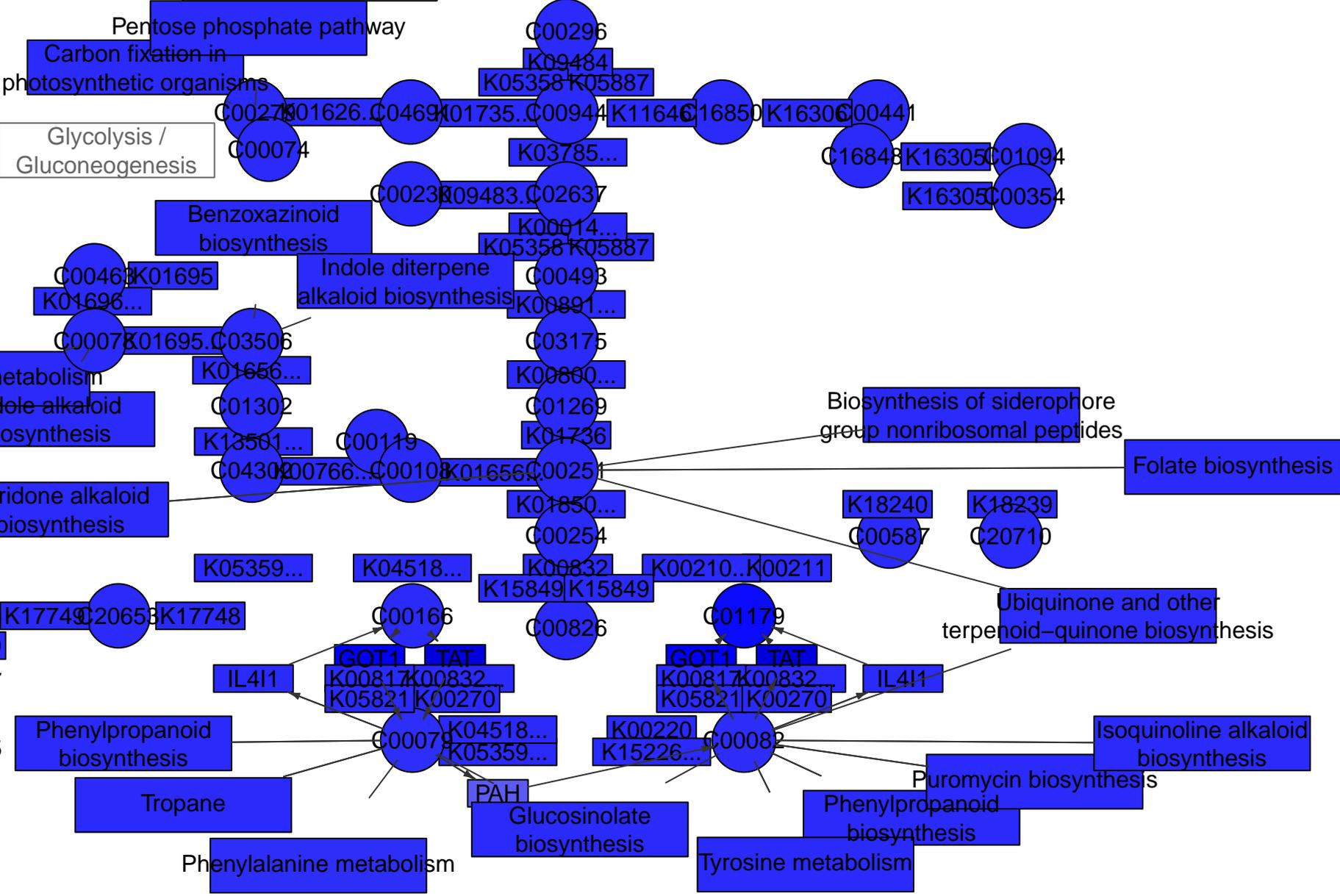


Phenylalanine  
MPI-170





Phenylalanine  
MPI-174



Pentose phosphate pathway

Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropine

Phenylalanine metabolism

Glucosinolate  
biosynthesis

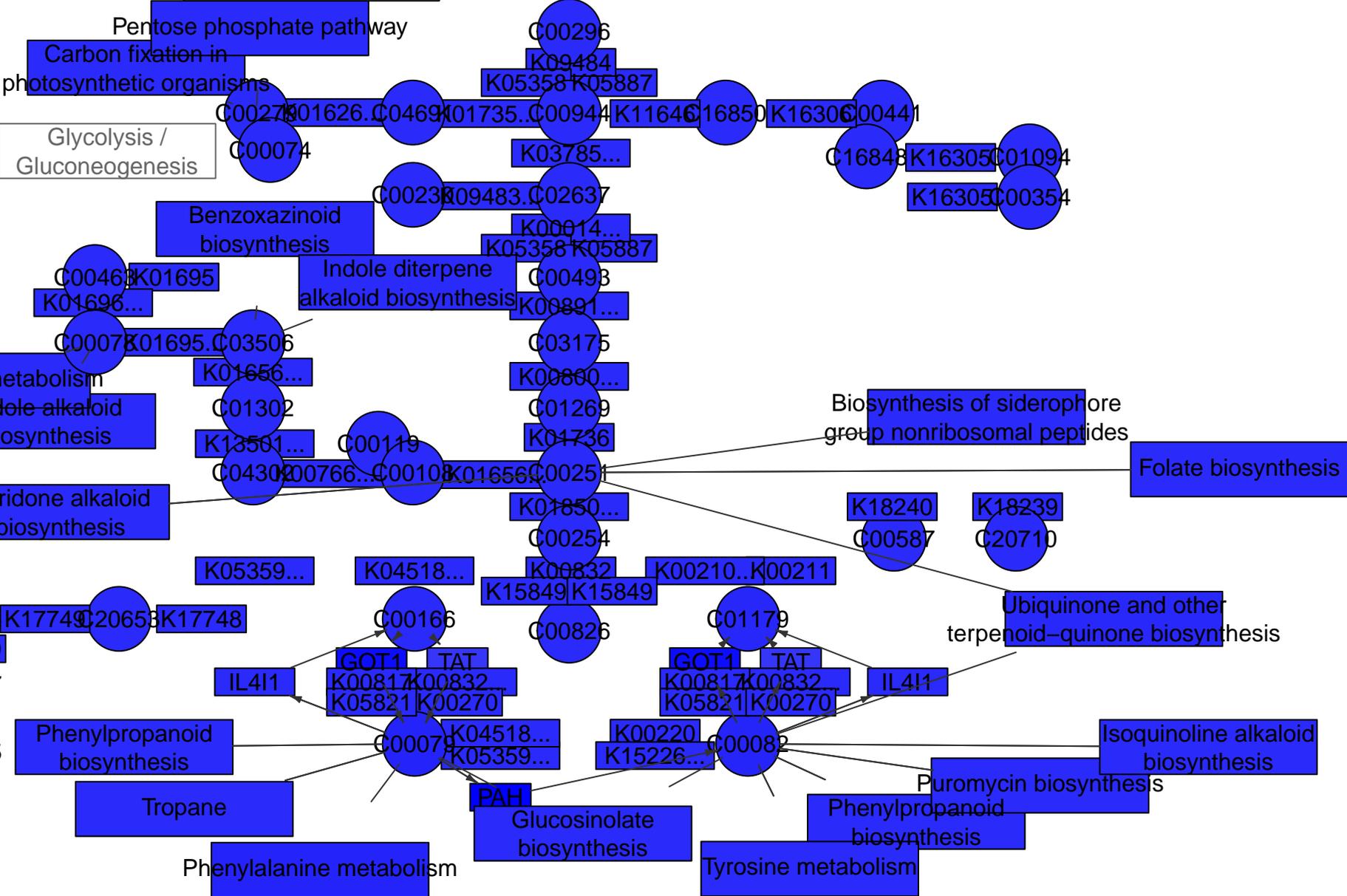
Tyrosine metabolism

Phenylpropanoid  
biosynthesis

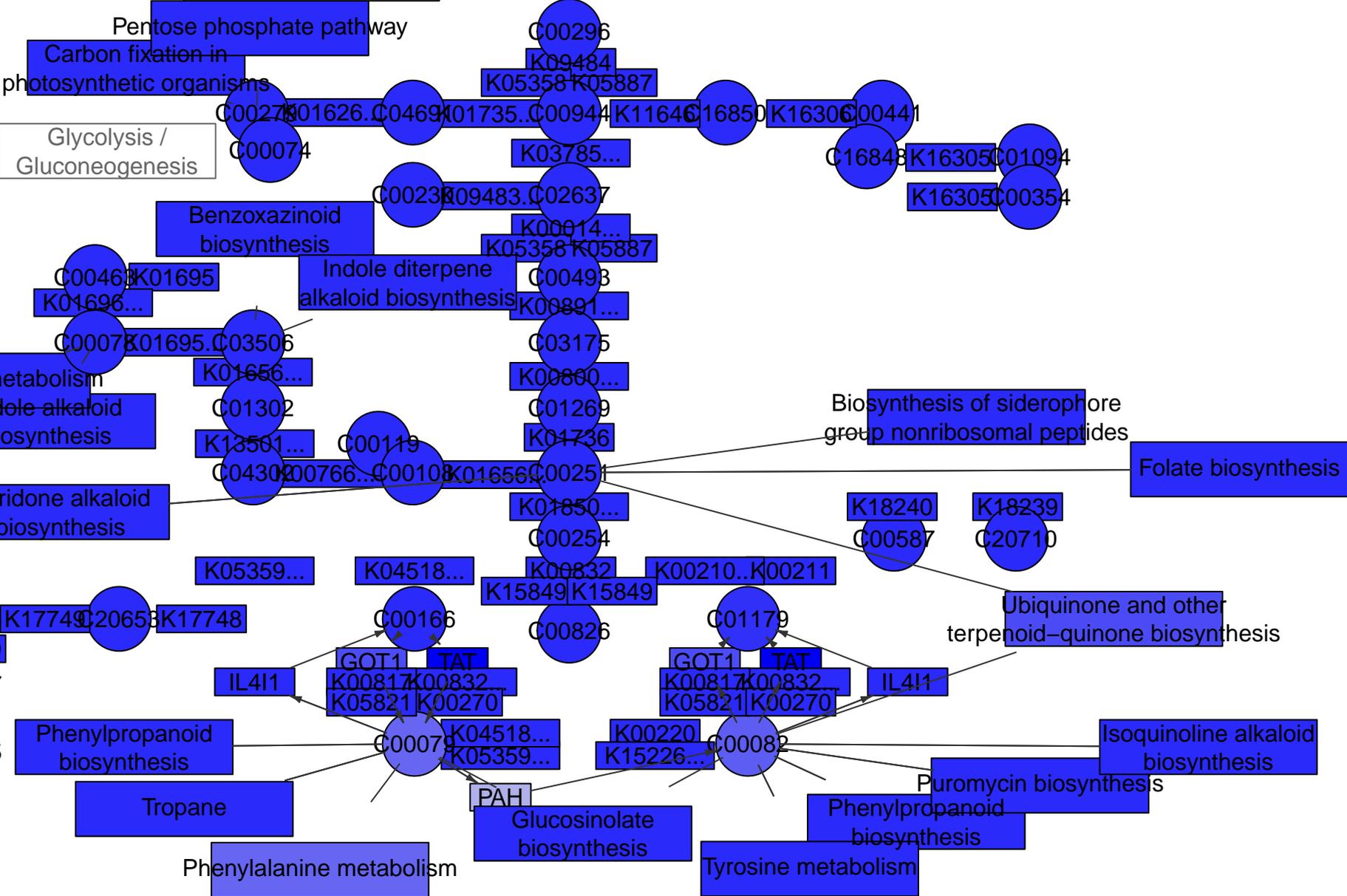
Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis

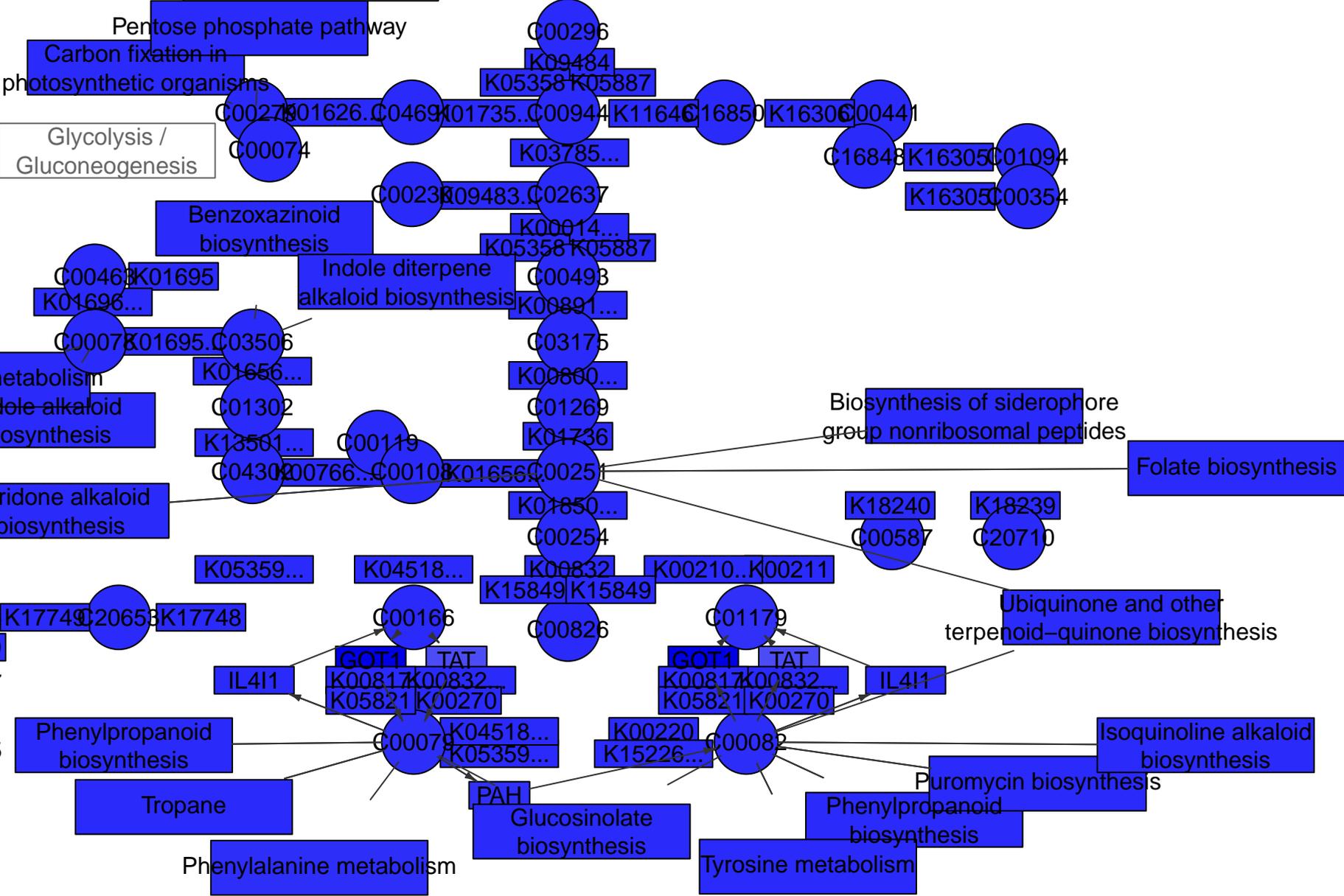
Phenylalanine  
MPI-176

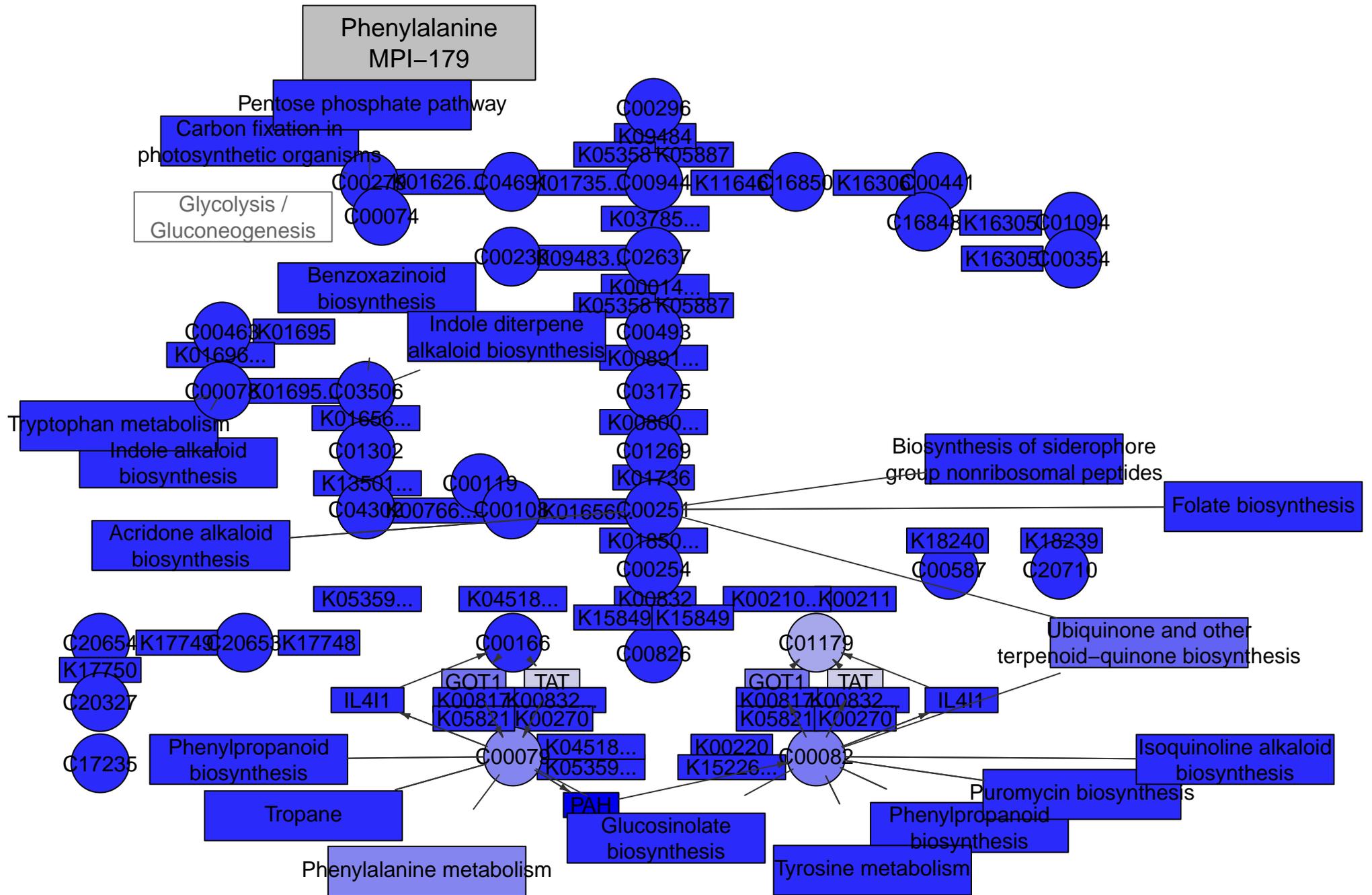


Phenylalanine  
MPI-177

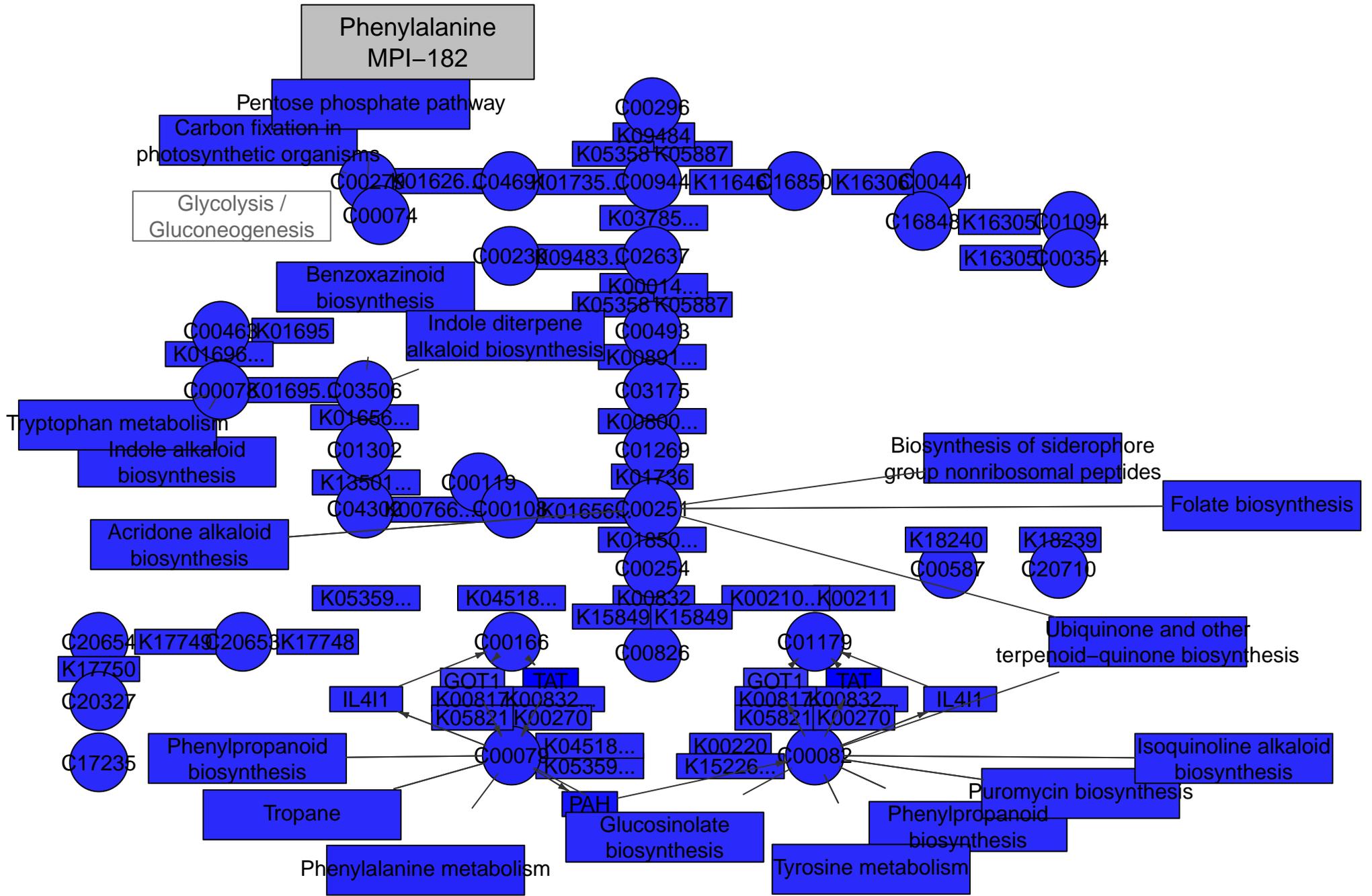


Phenylalanine  
MPI-178

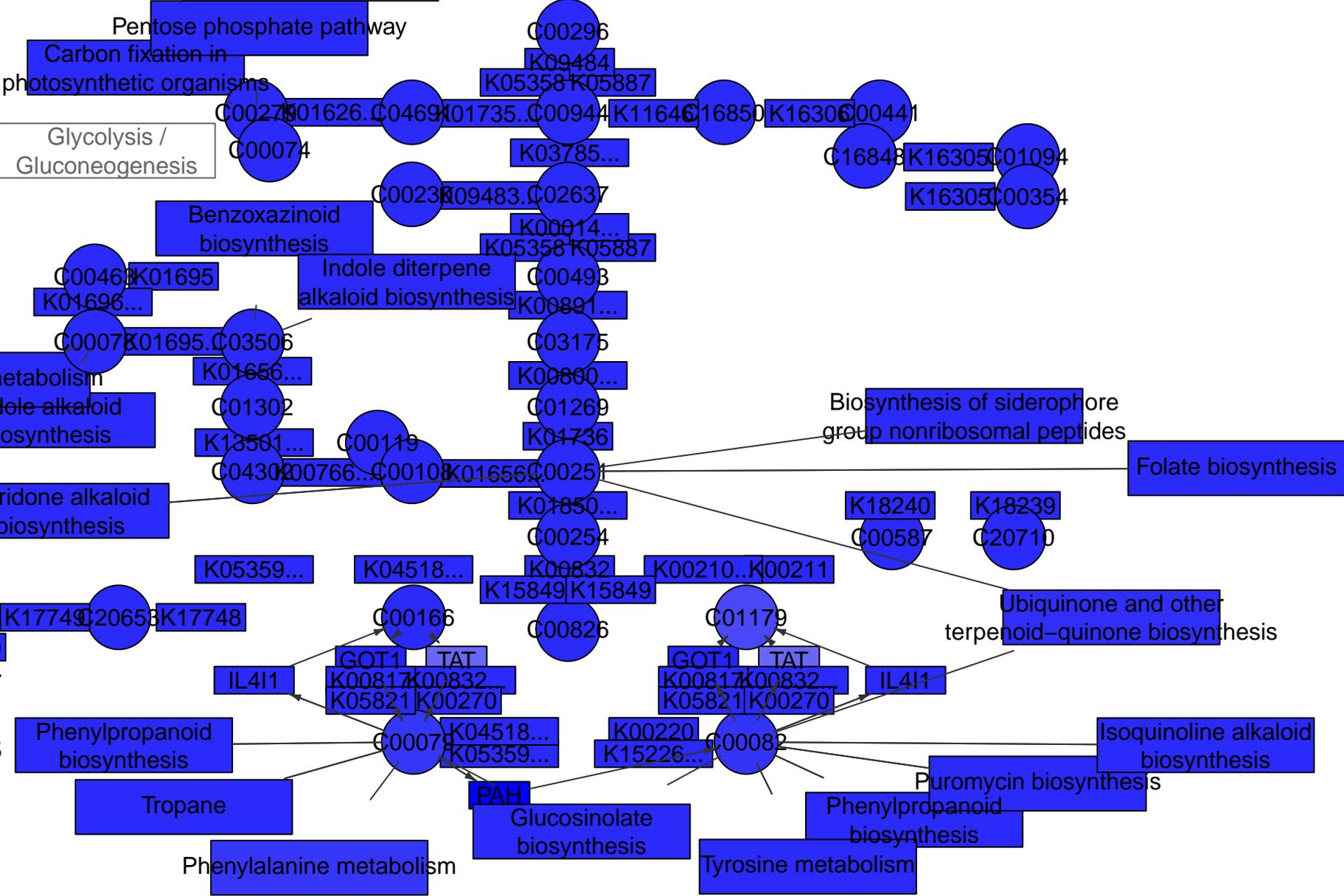




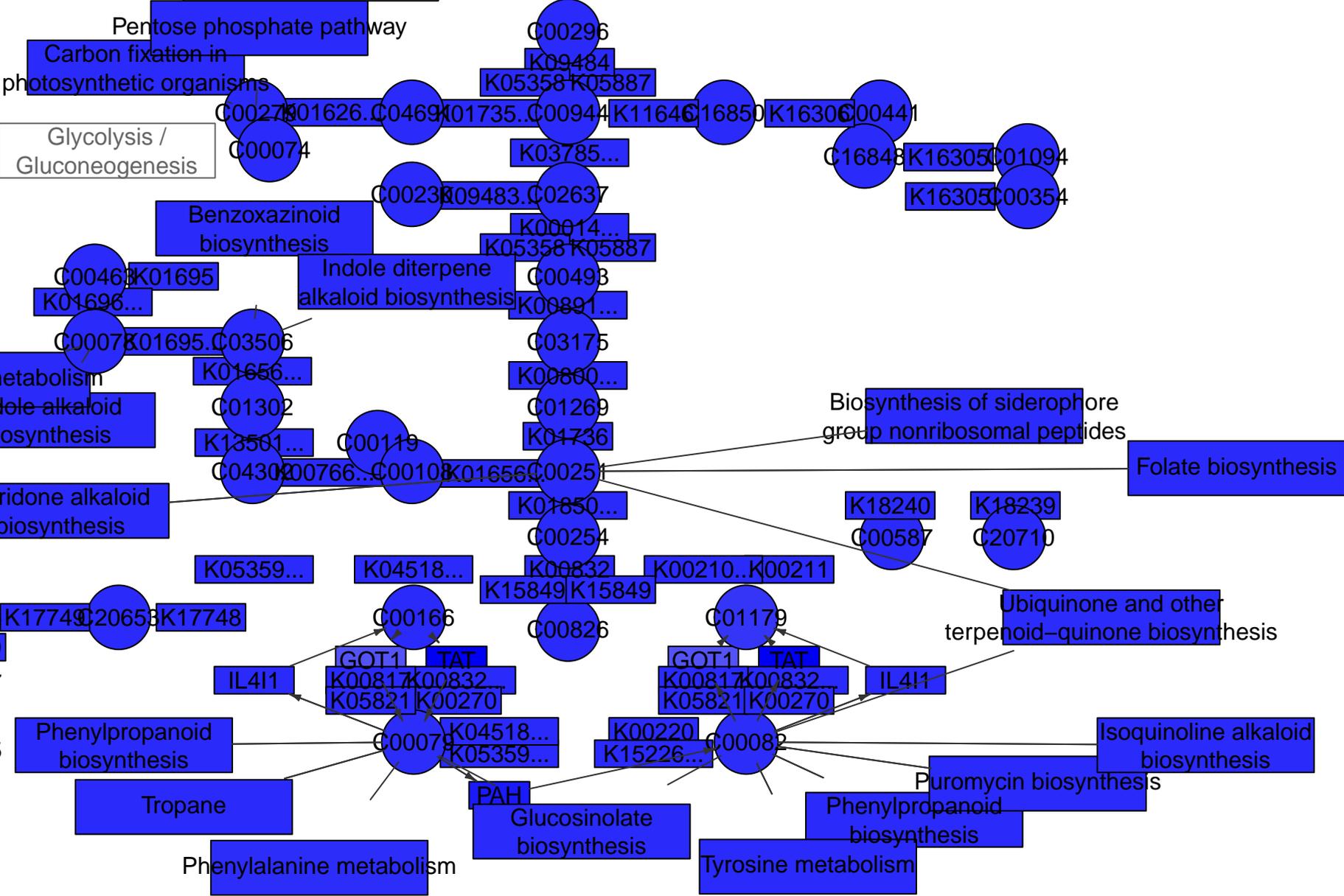




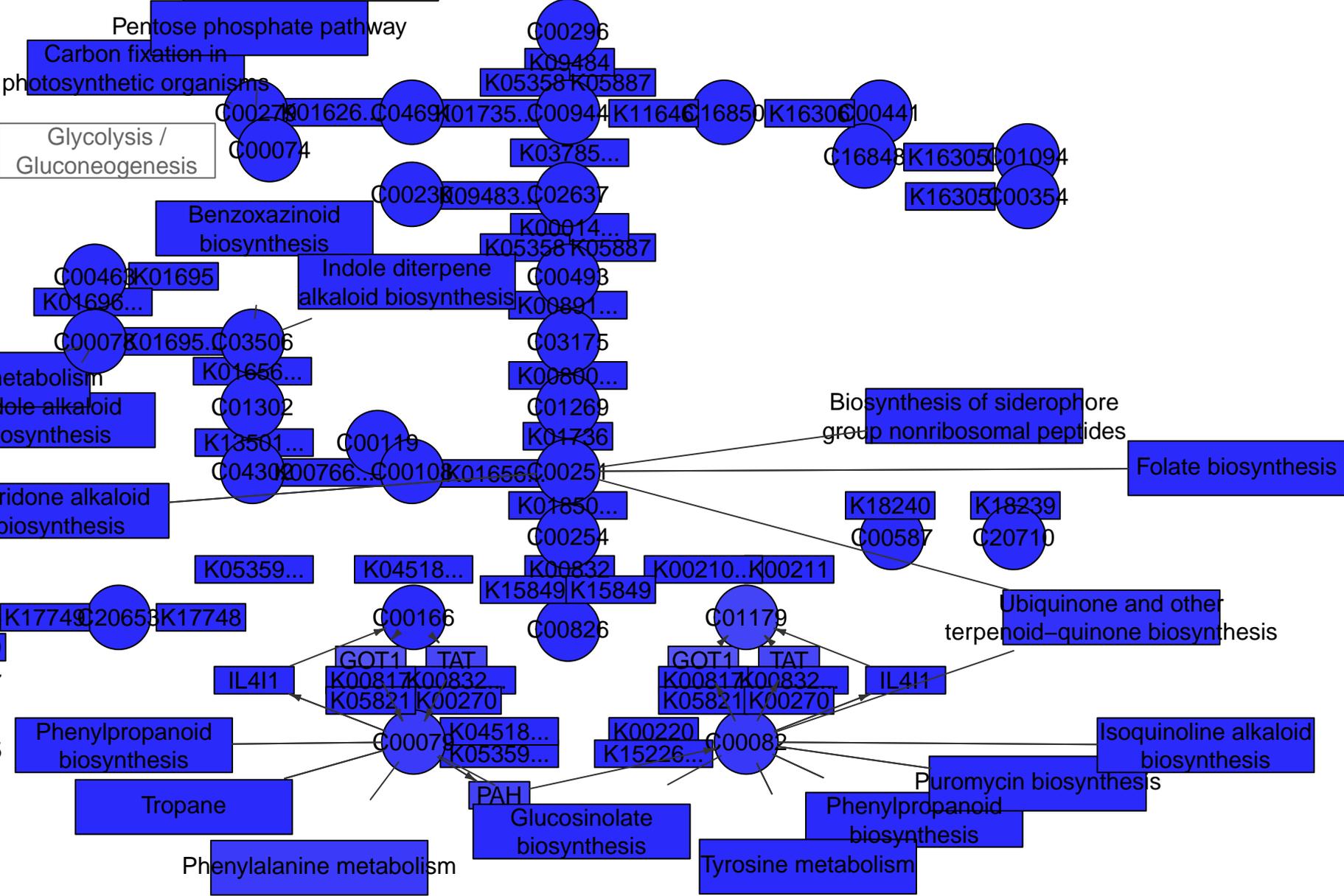
Phenylalanine  
MPI-183



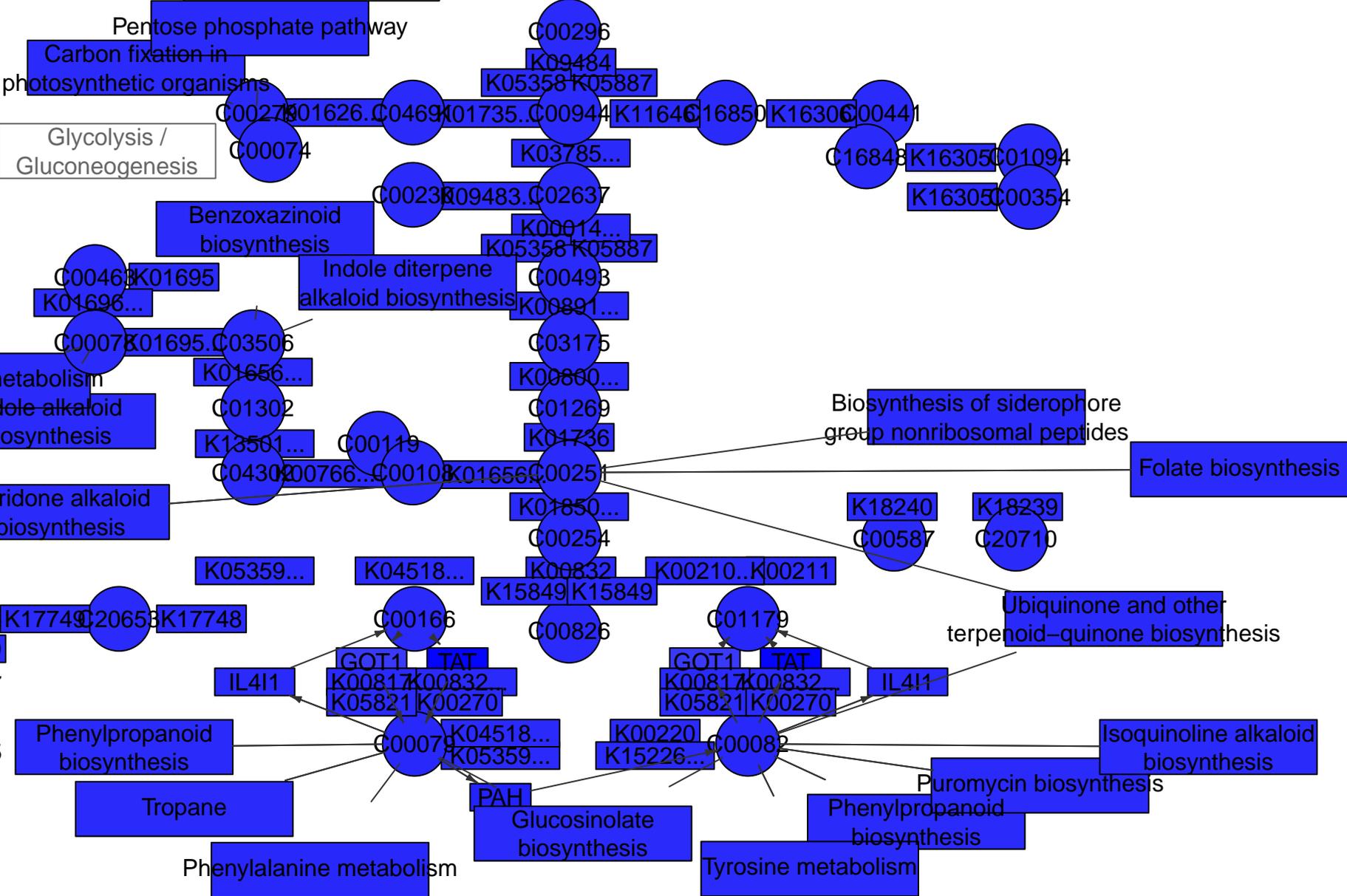
Phenylalanine  
MPI-184



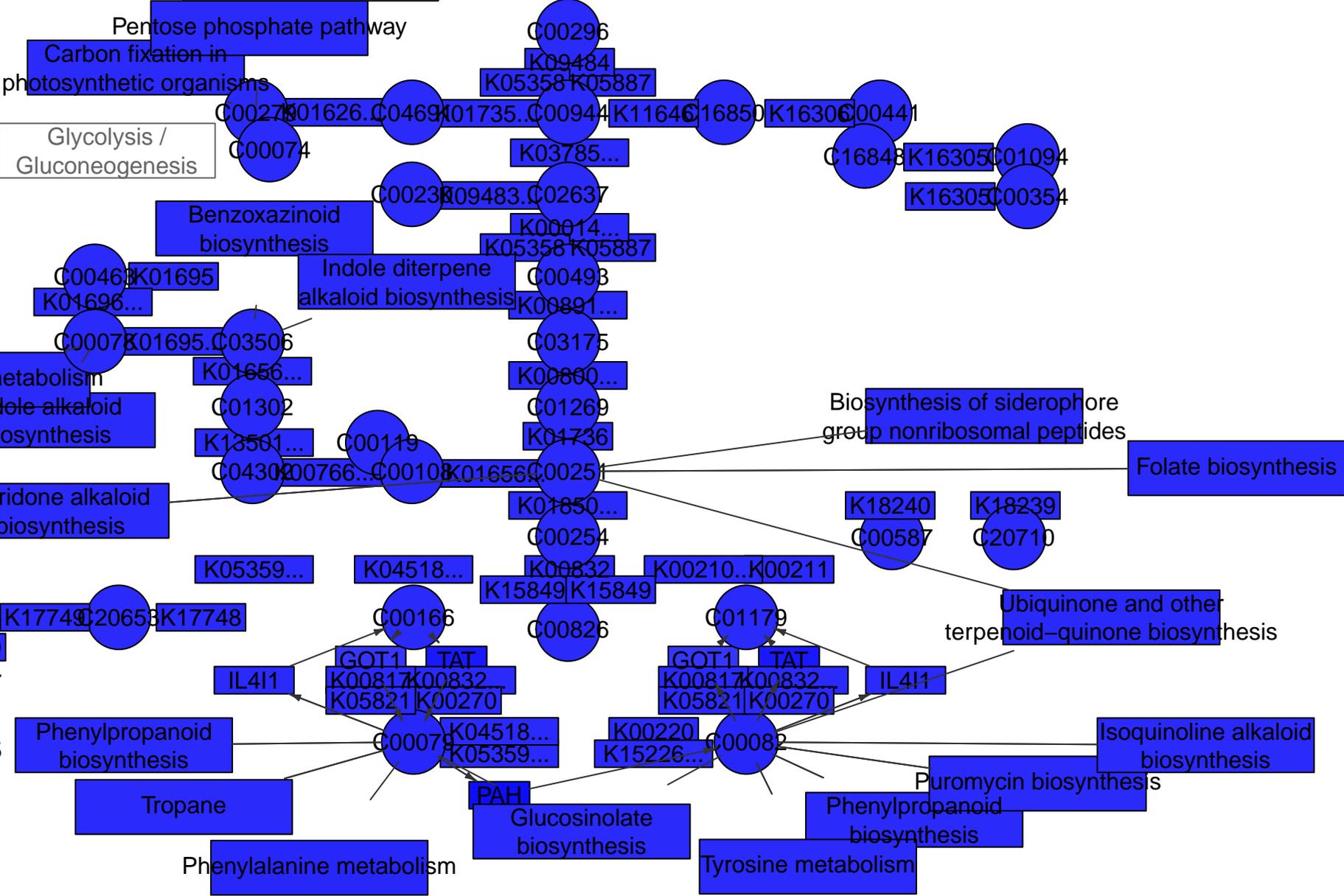
Phenylalanine  
MPI-185

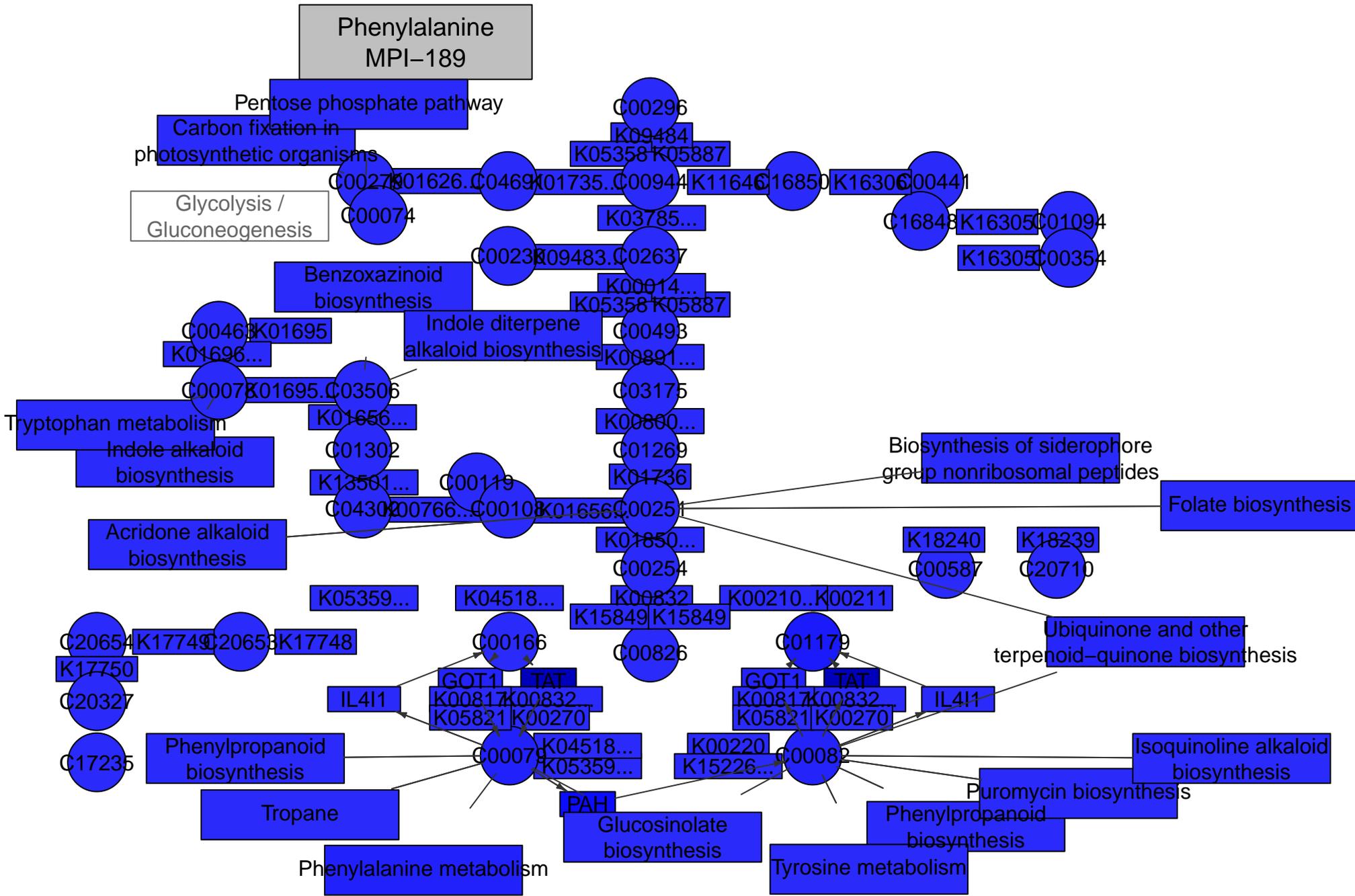


Phenylalanine  
MPI-186

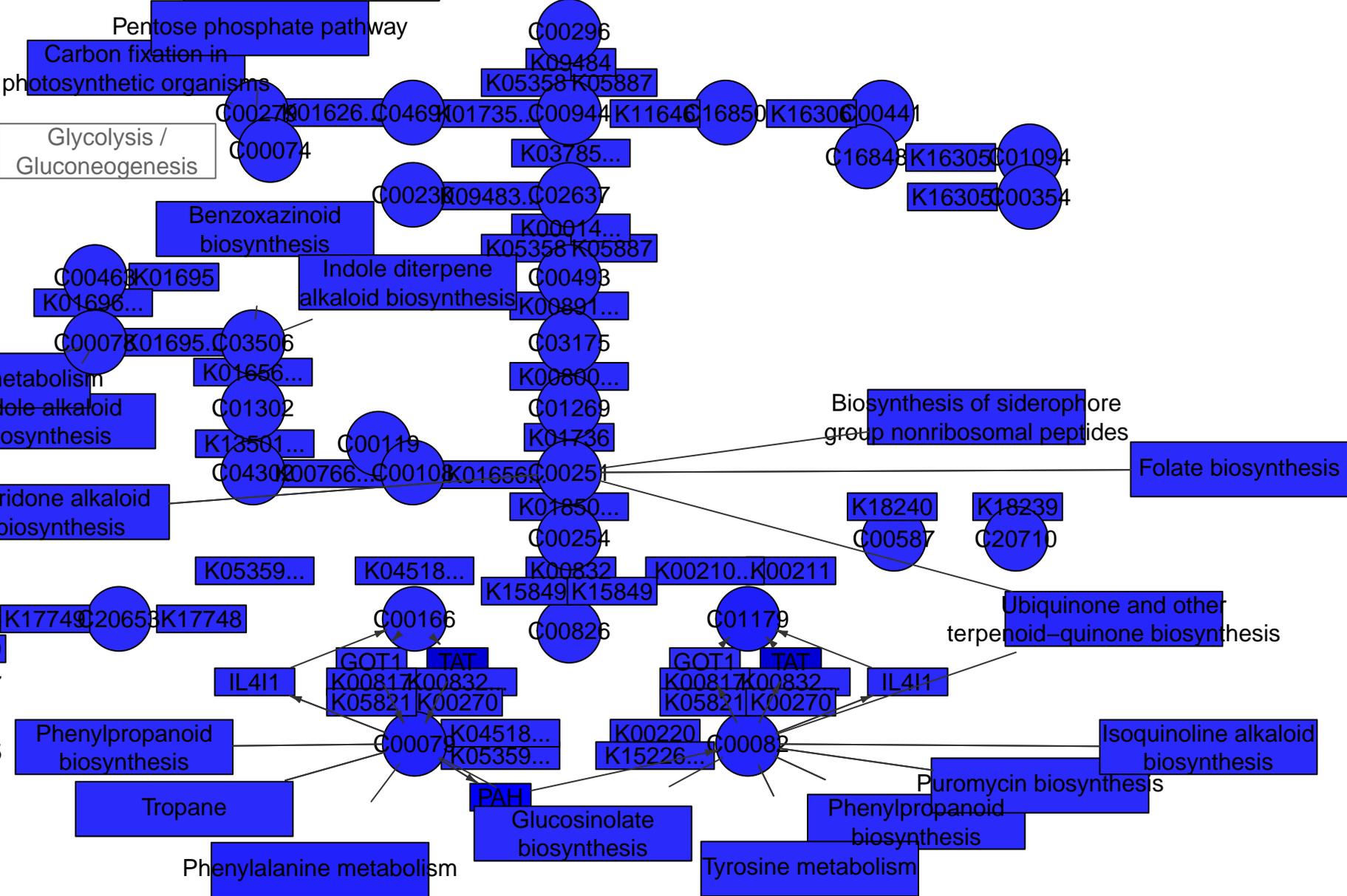


Phenylalanine  
MPI-188

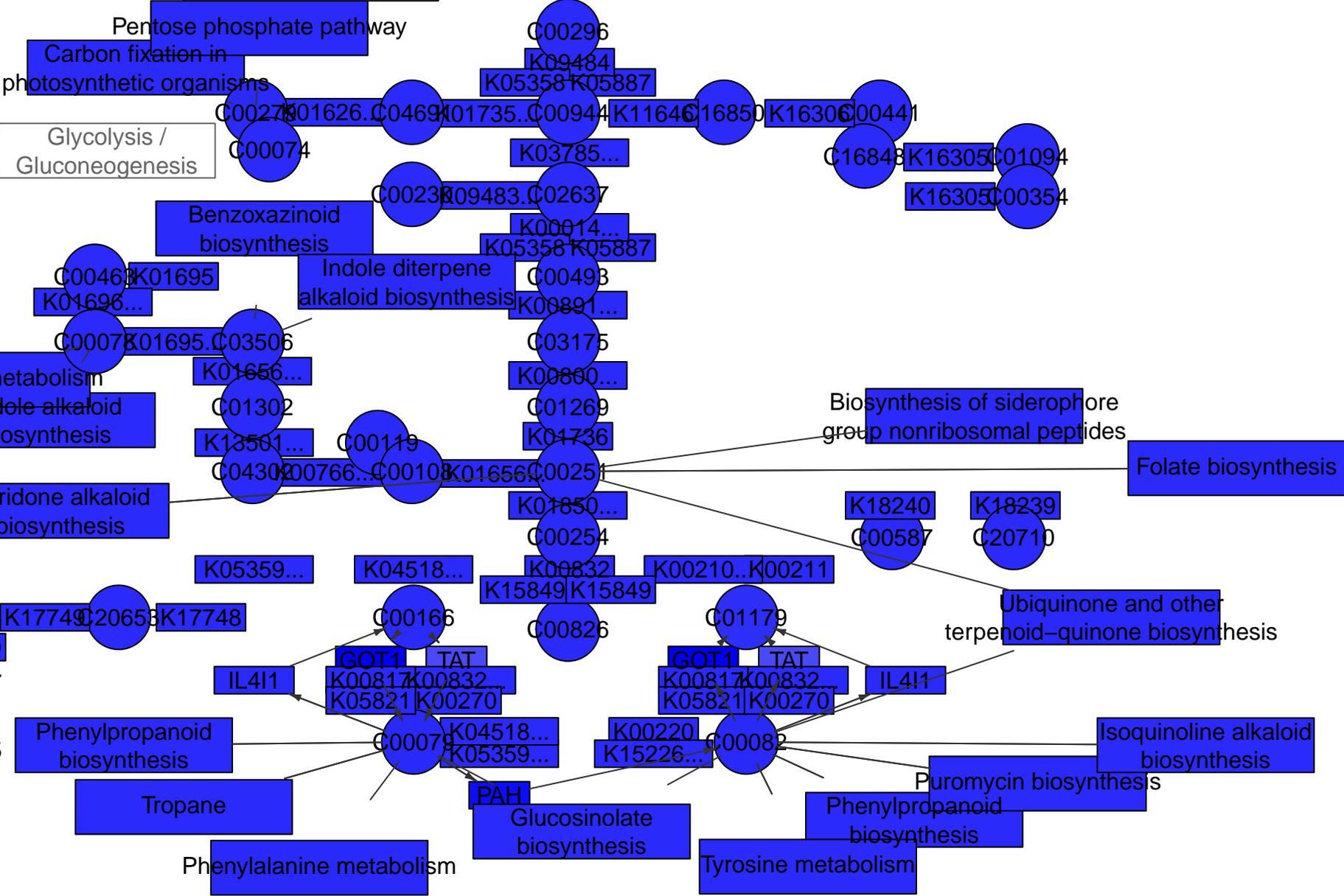




Phenylalanine  
MPI-190

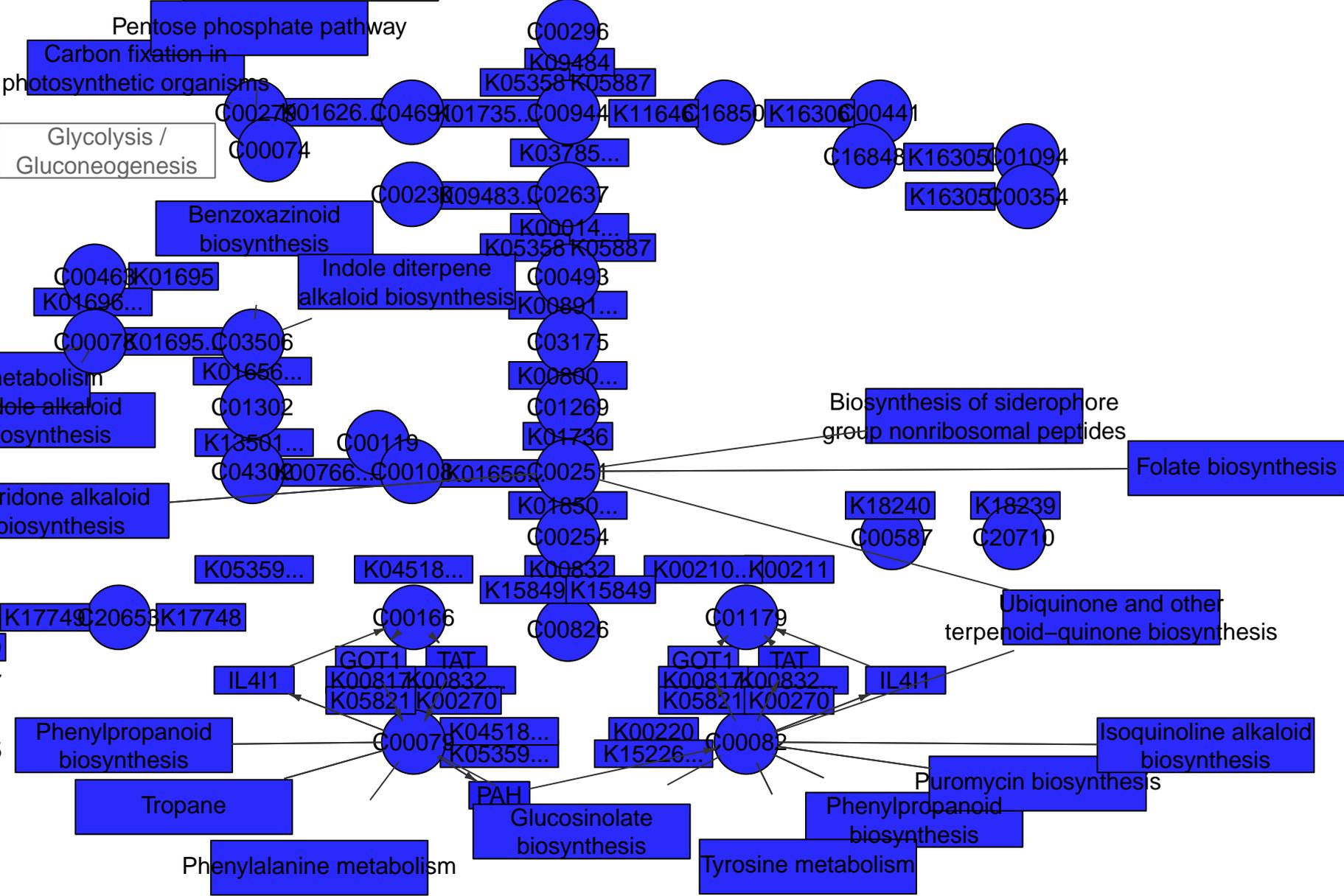


Phenylalanine  
MPI-191

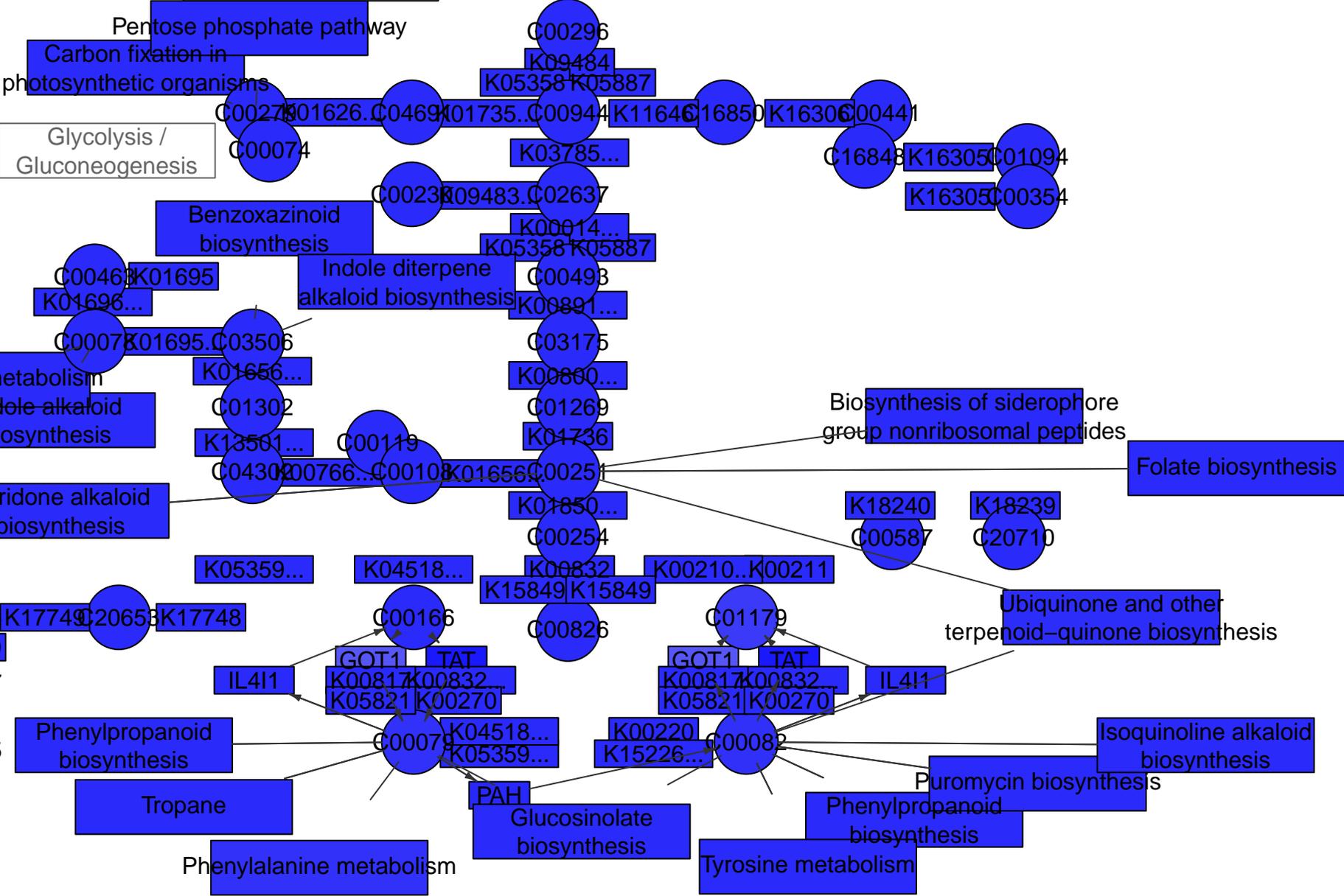




Phenylalanine  
MPI-194

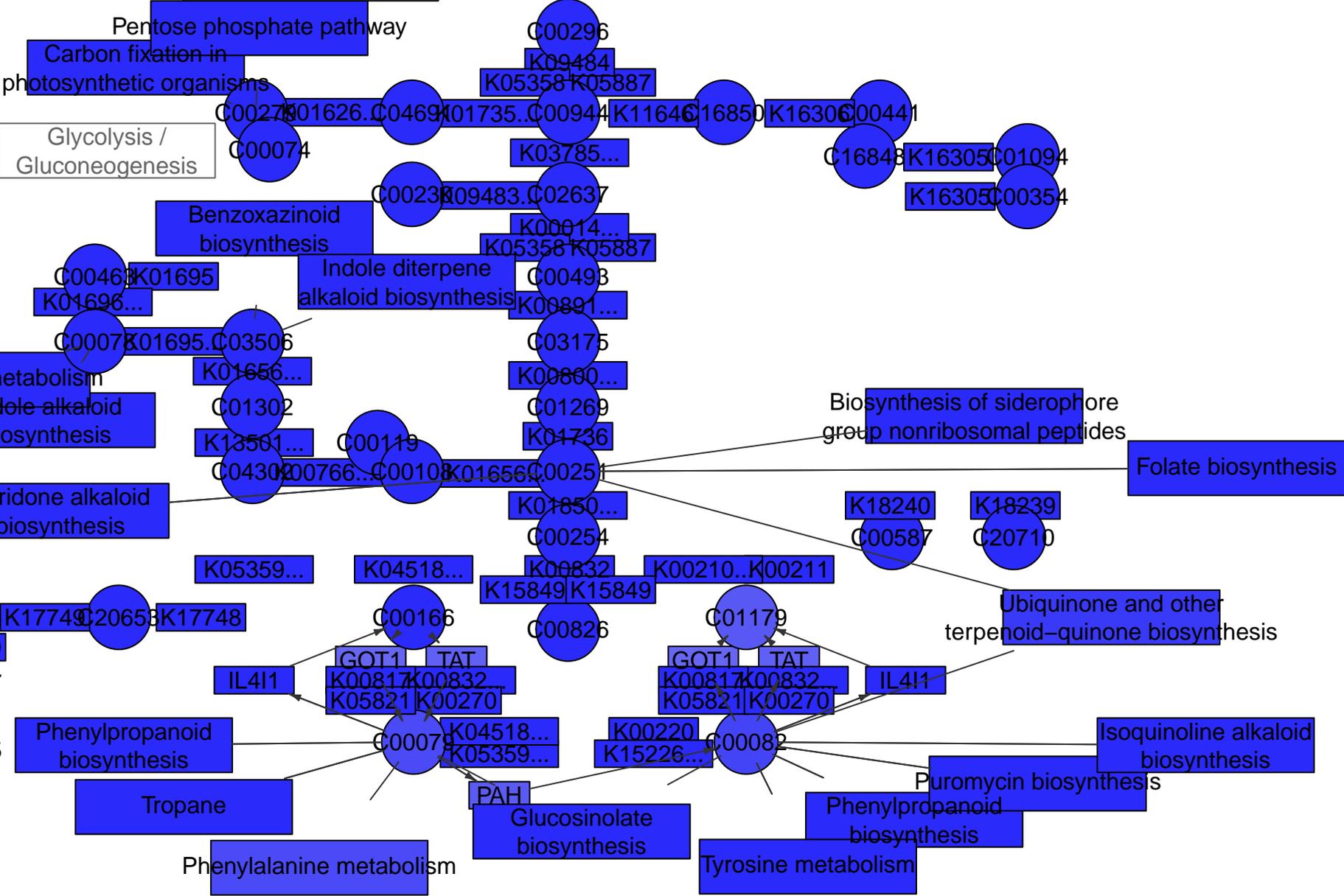


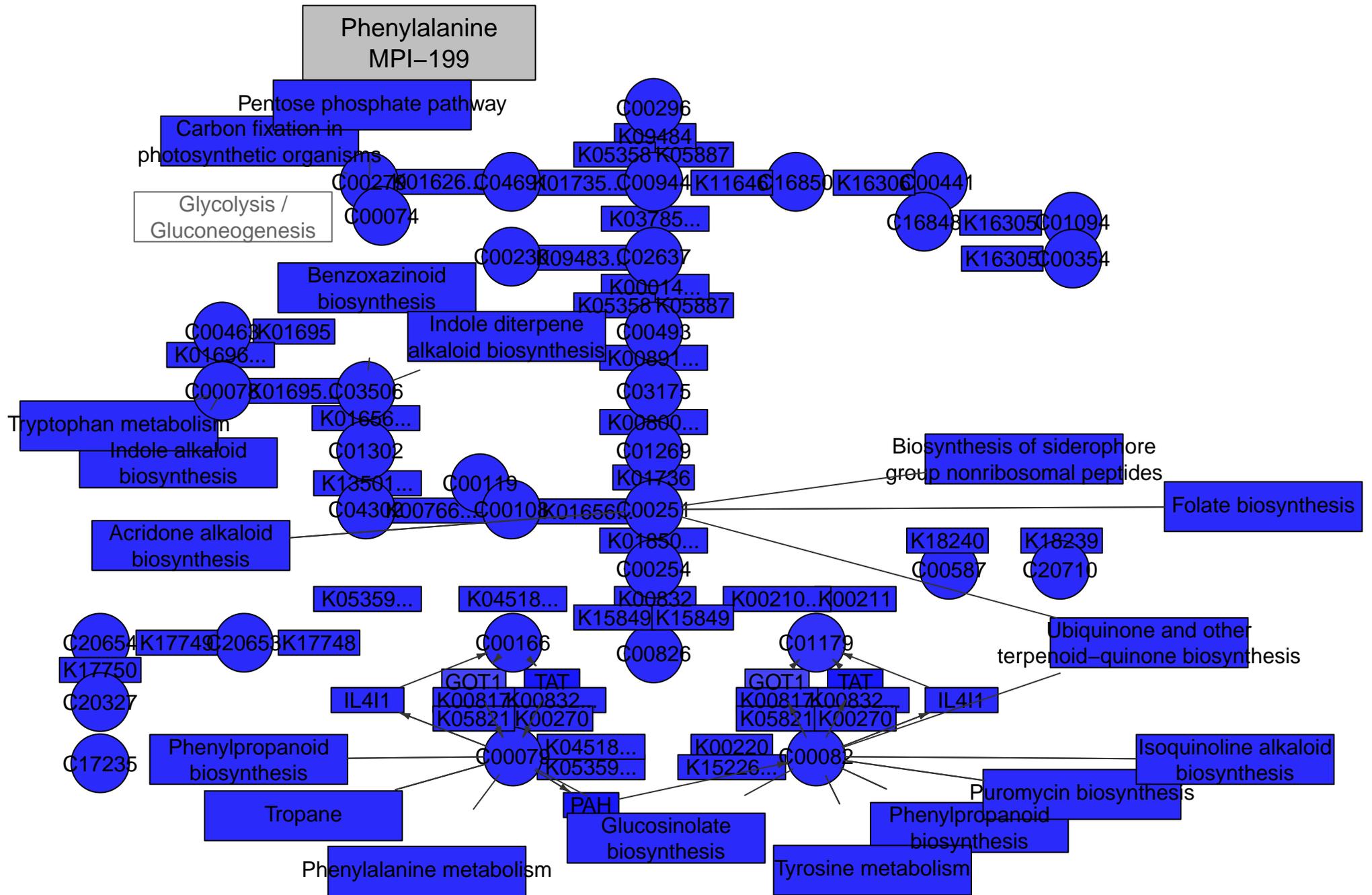
Phenylalanine  
MPI-195





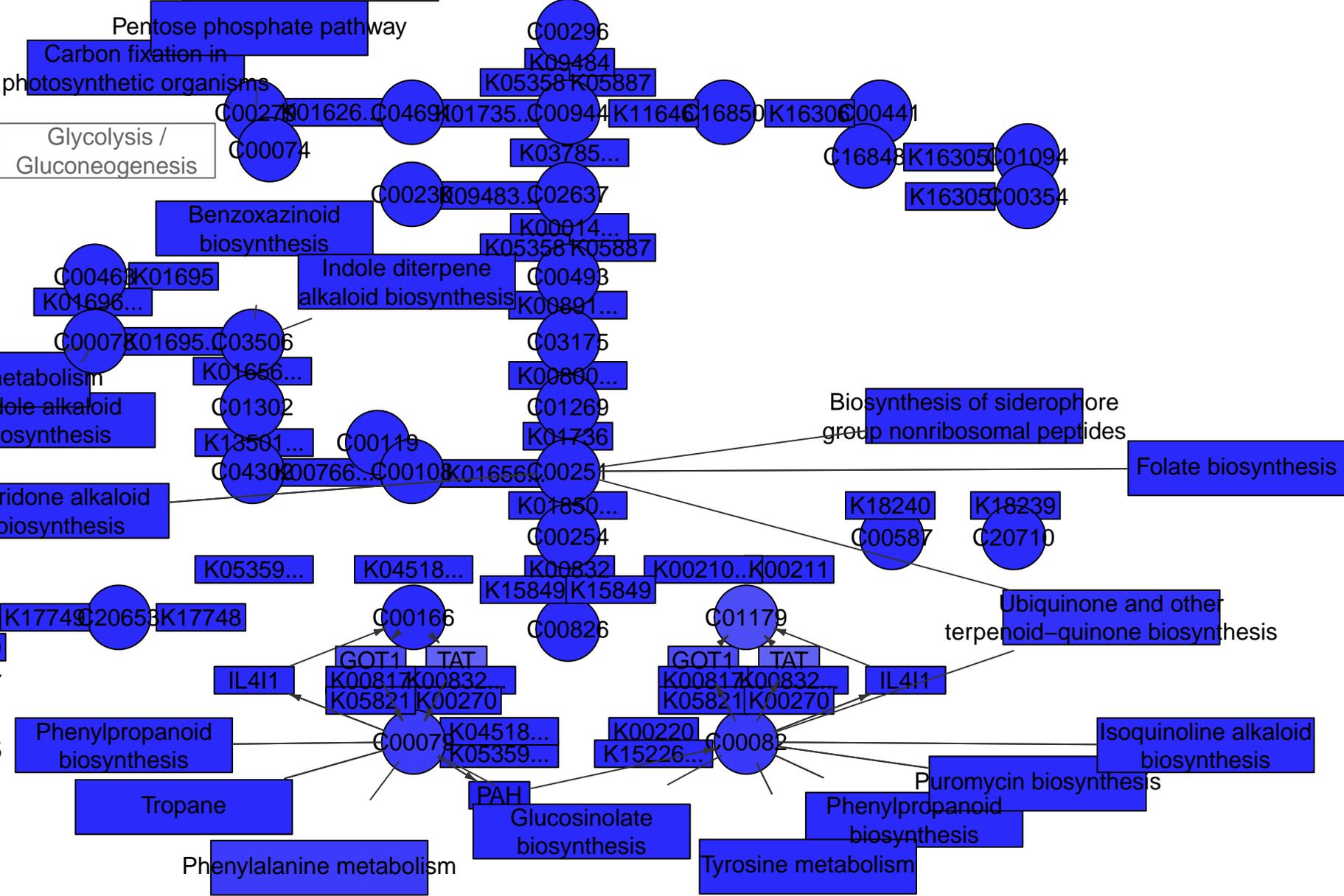
Phenylalanine  
MPI-198





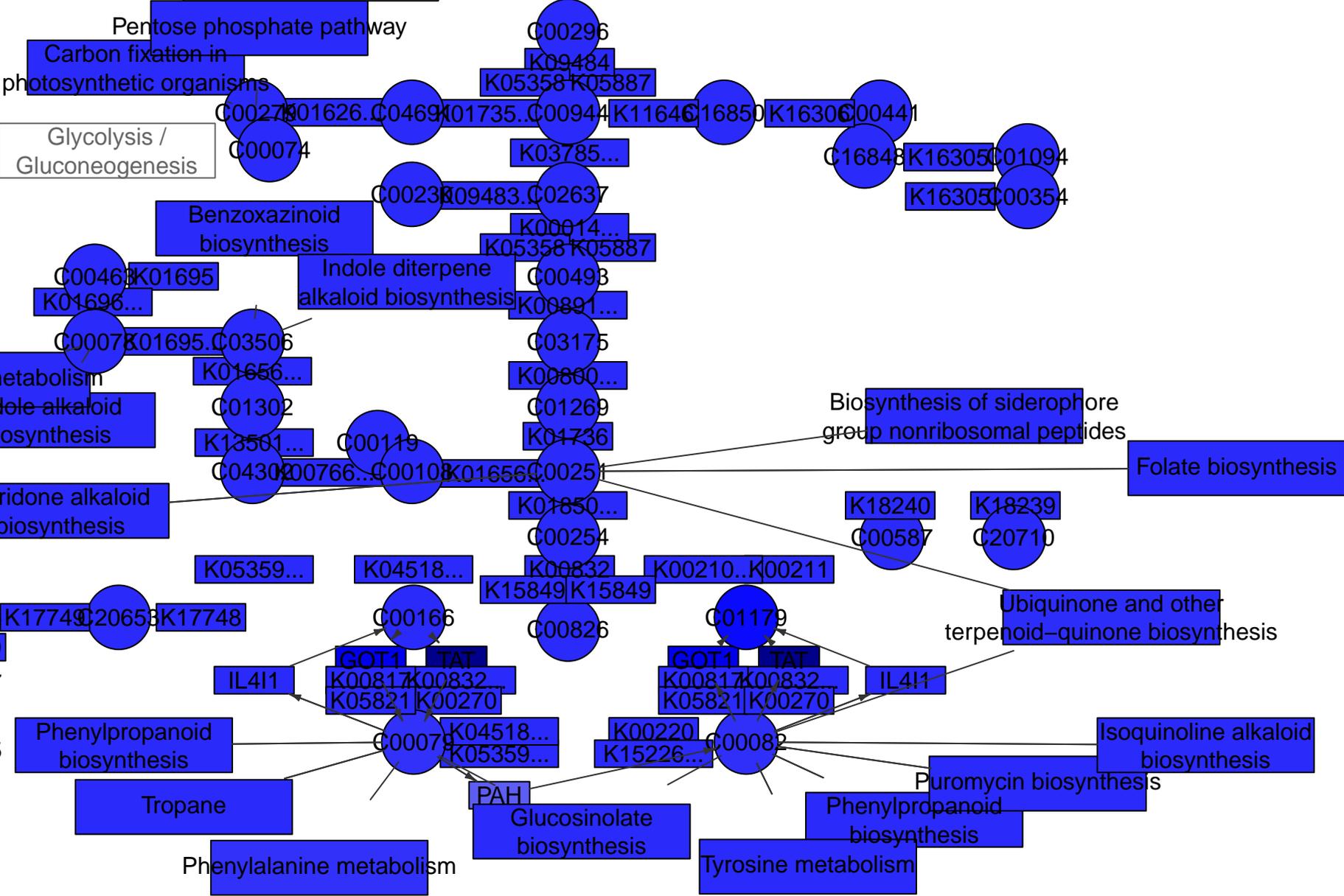


Phenylalanine  
MPI-201

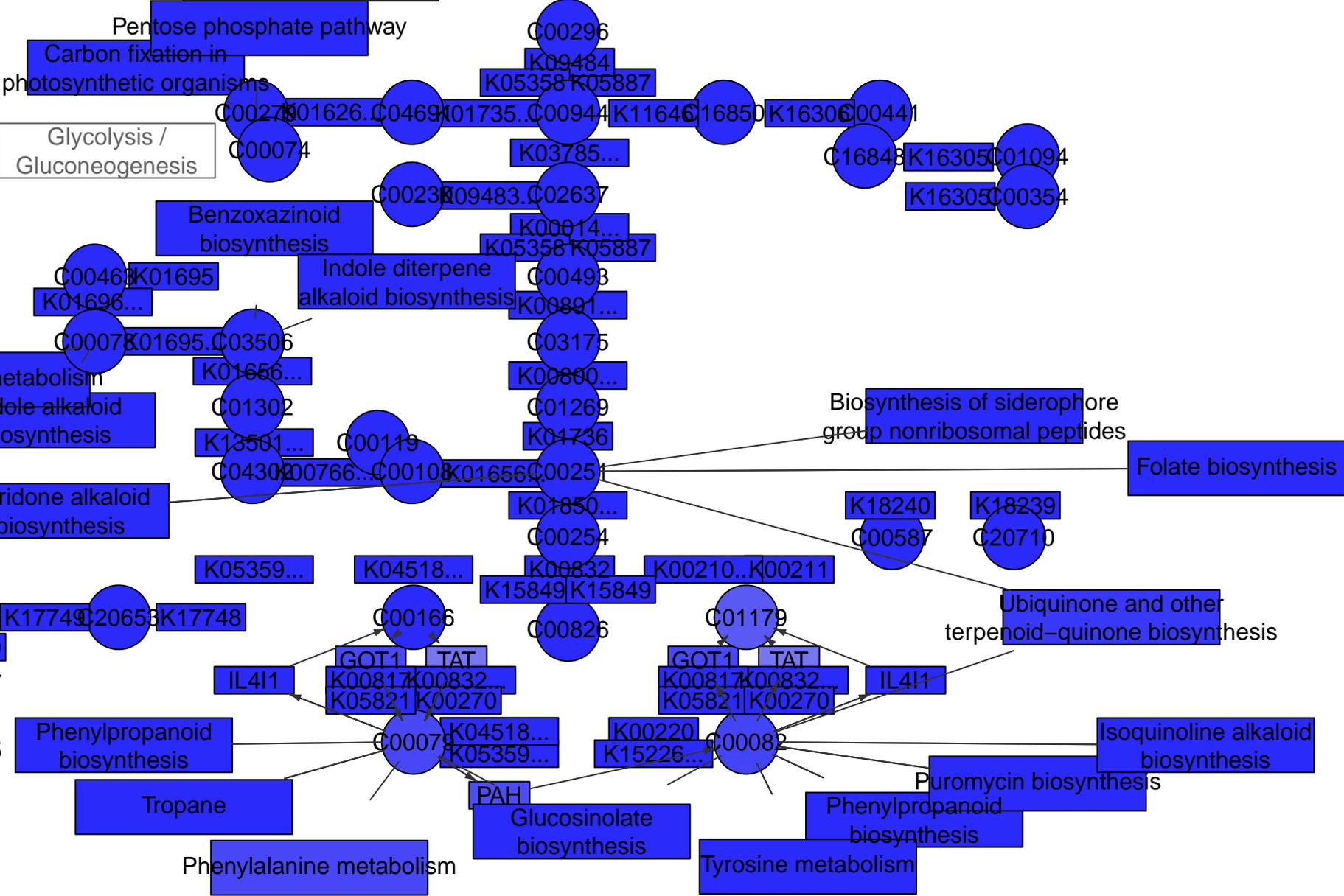




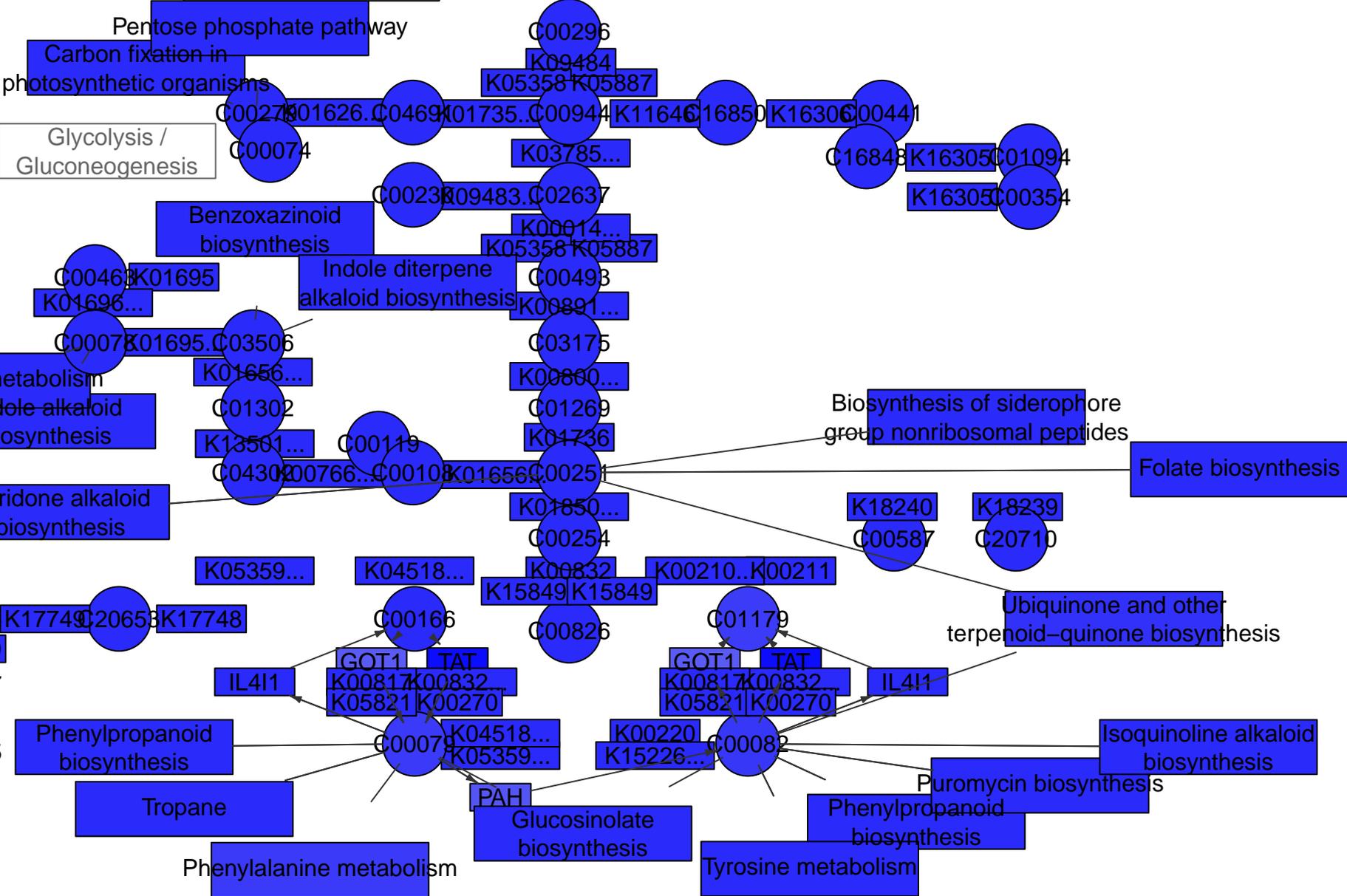
Phenylalanine  
MPI-203

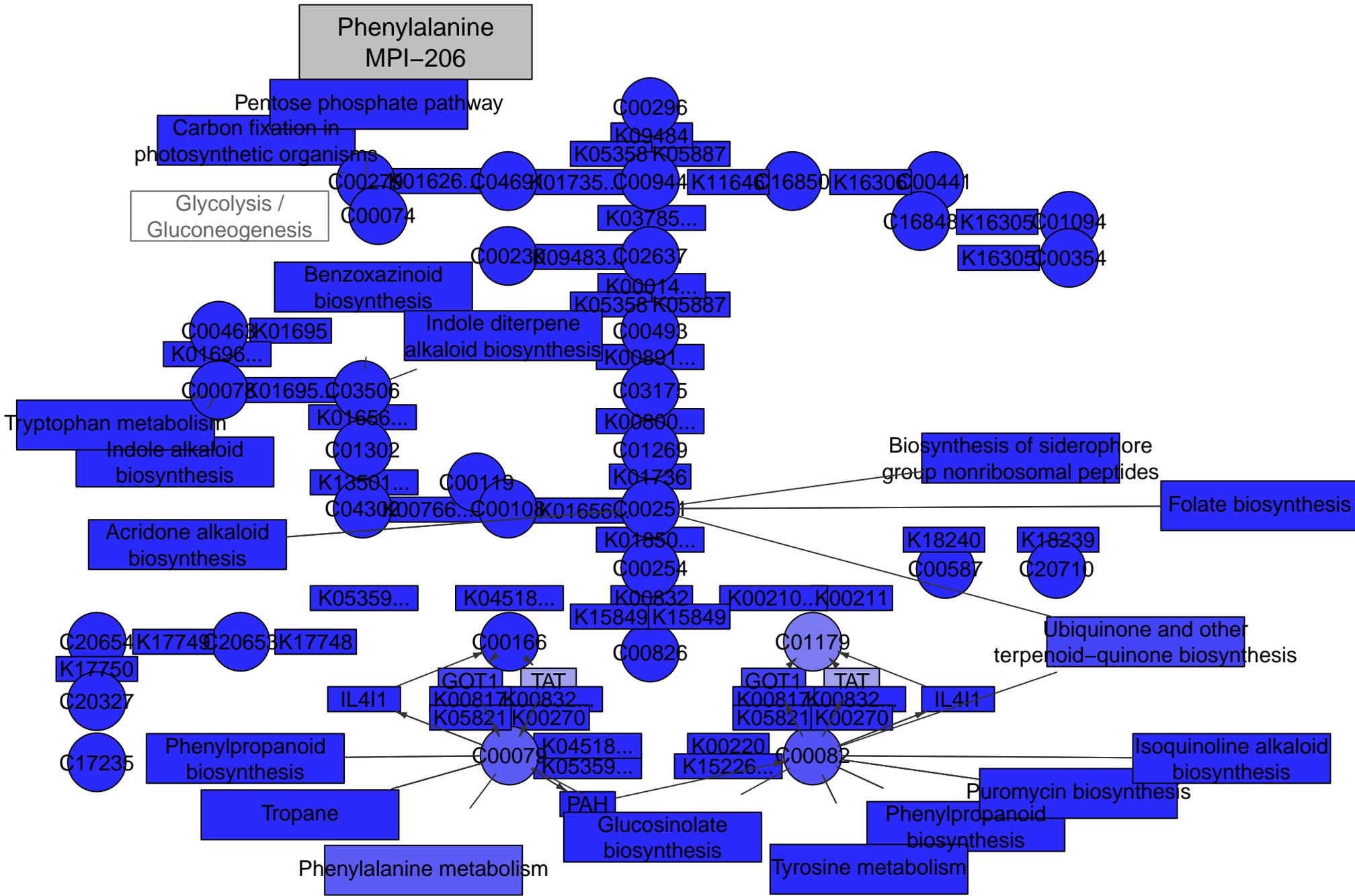


Phenylalanine  
MPI-204

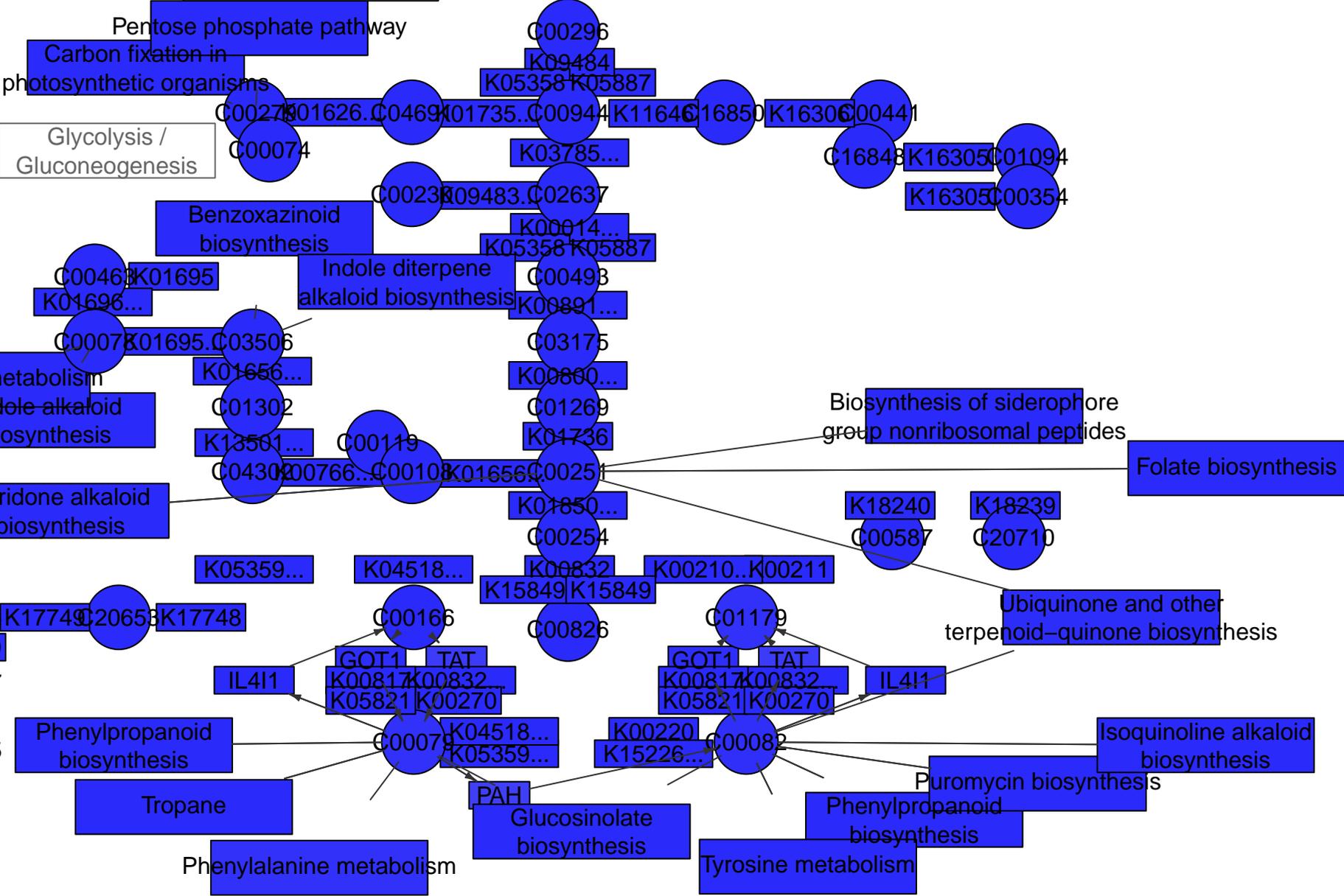


Phenylalanine  
MPI-205

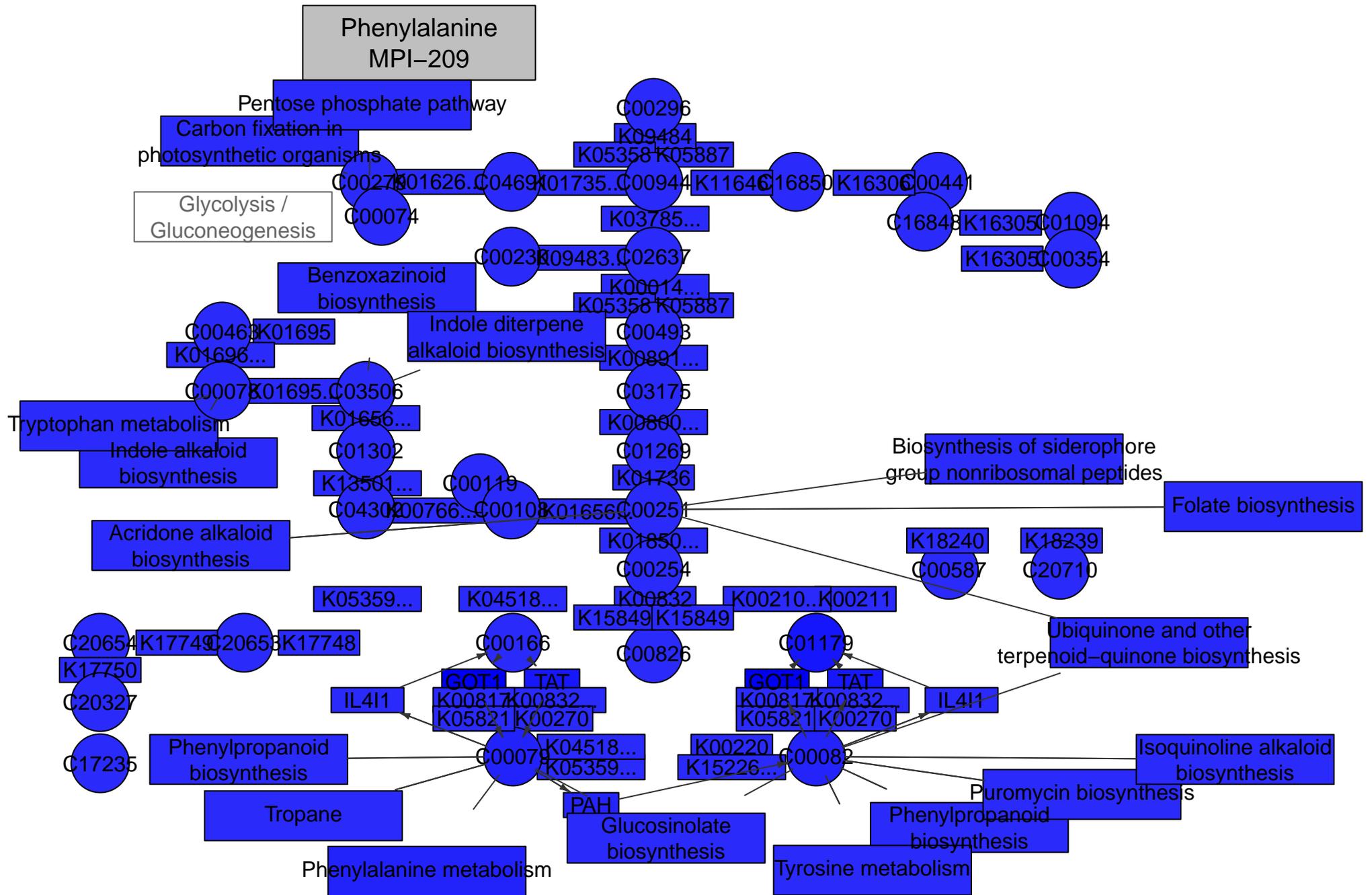




Phenylalanine  
MPI-207







Phenylalanine  
MPI-210

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

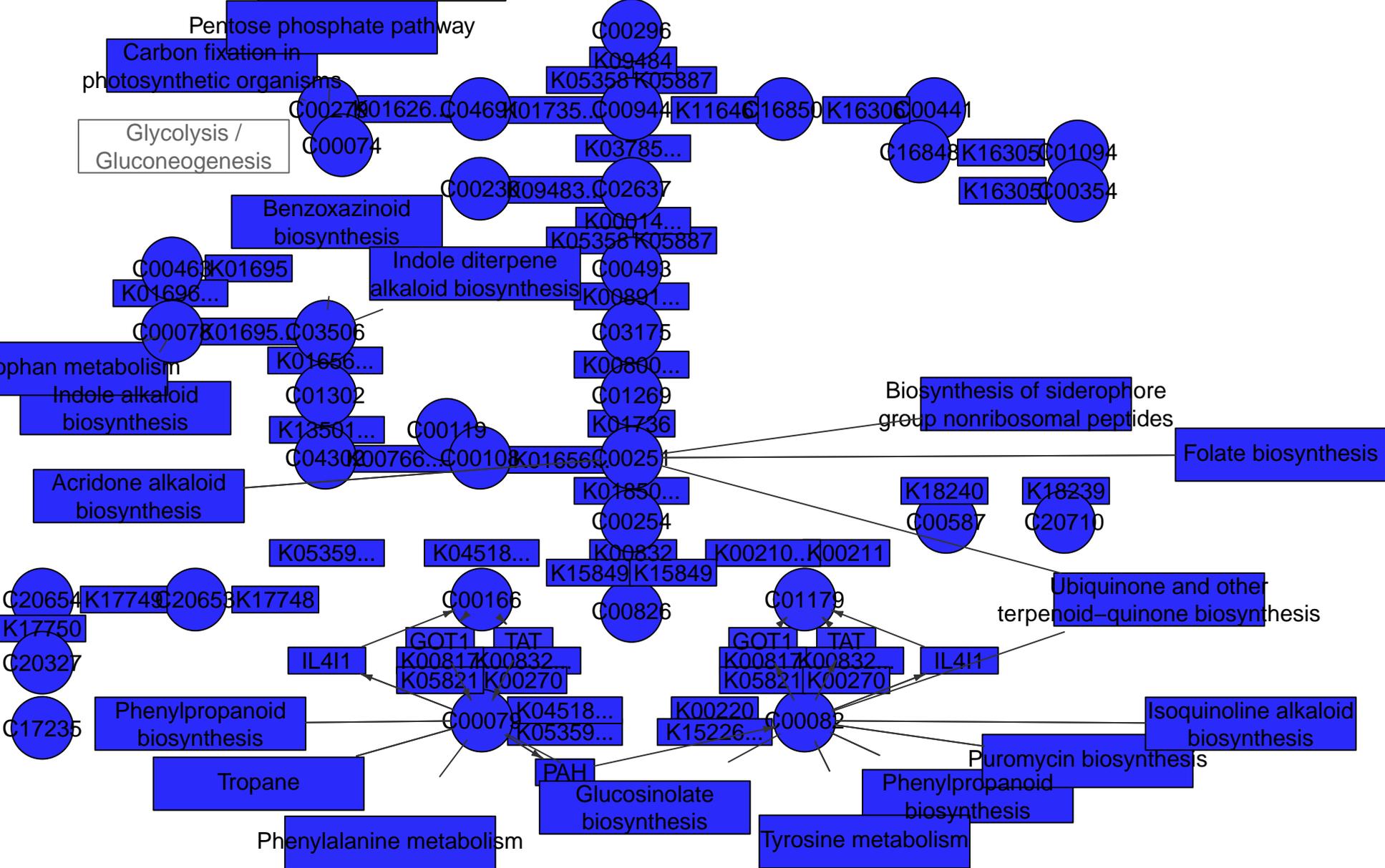
Glucosinolate  
biosynthesis

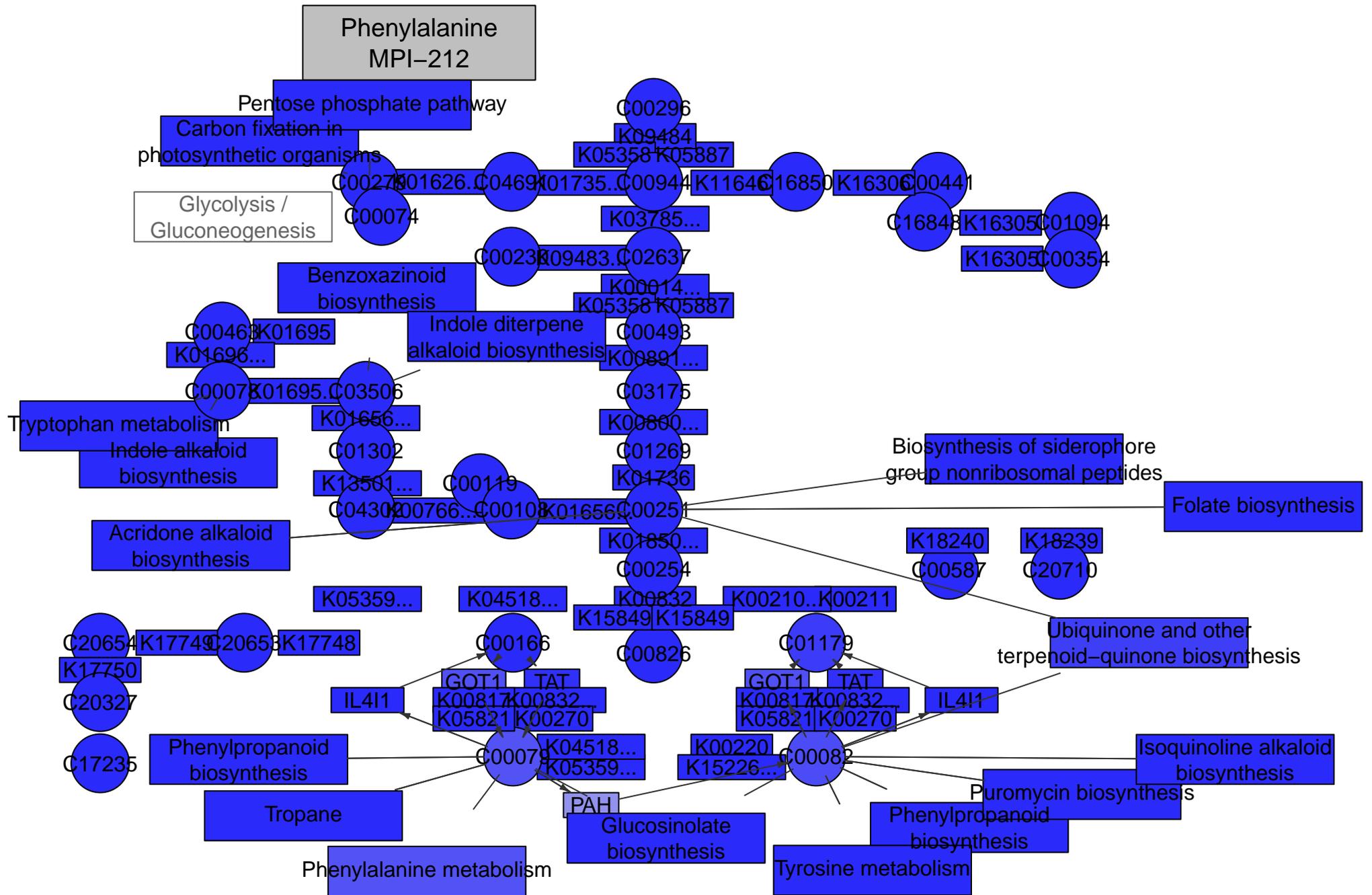
Tyrosine metabolism

Phenylpropanoid  
biosynthesis

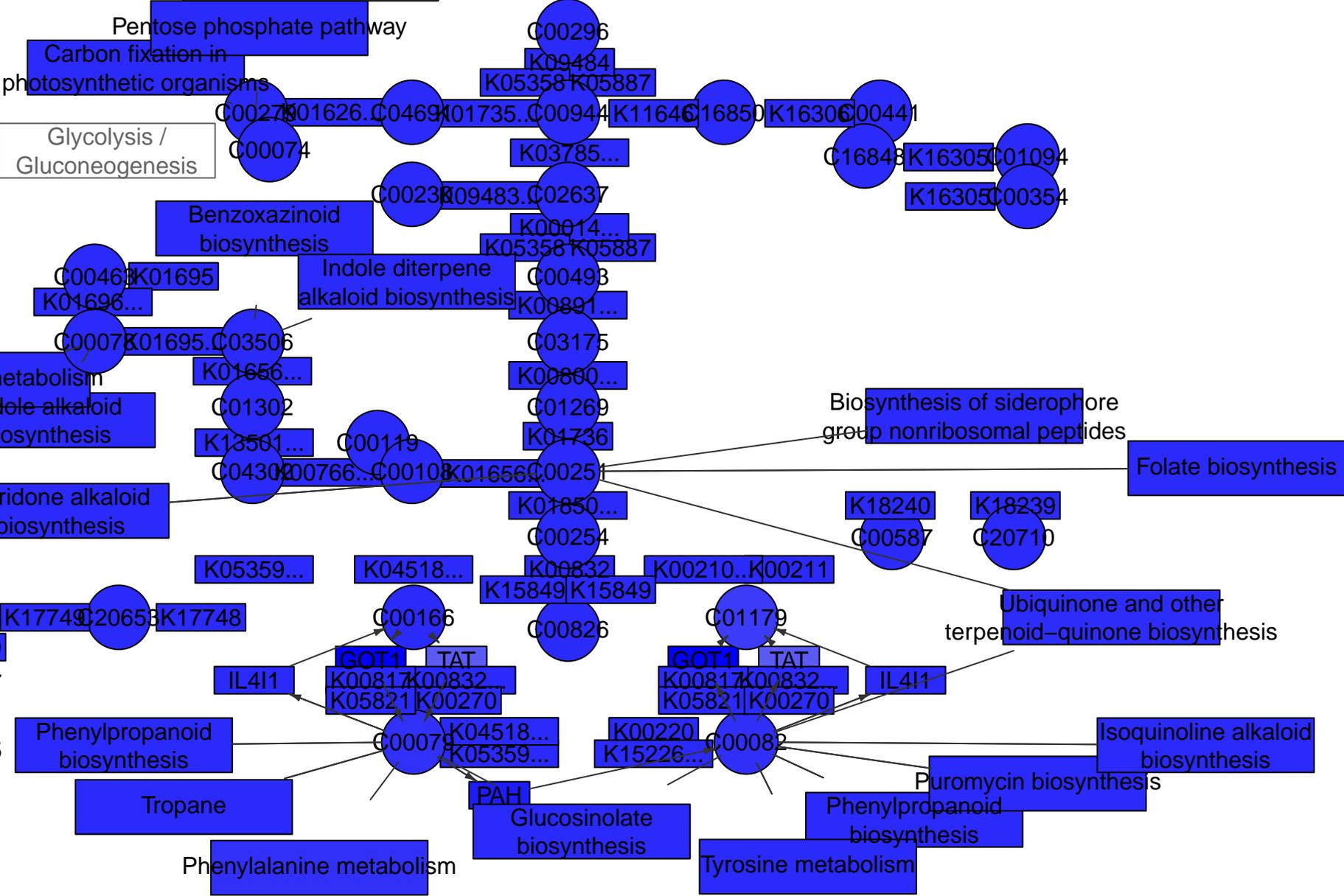
Puromycin biosynthesis

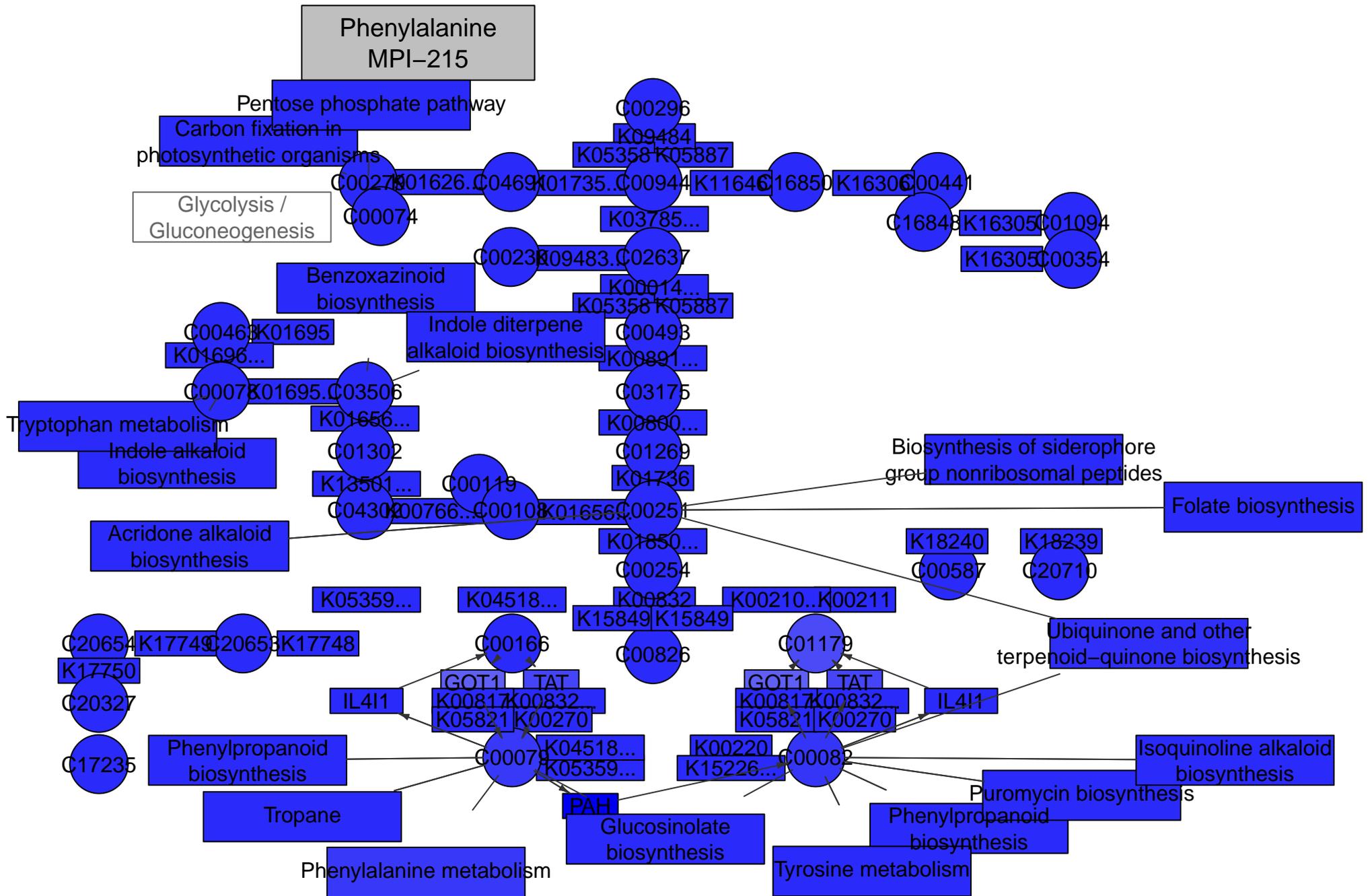
Isoquinoline alkaloid  
biosynthesis

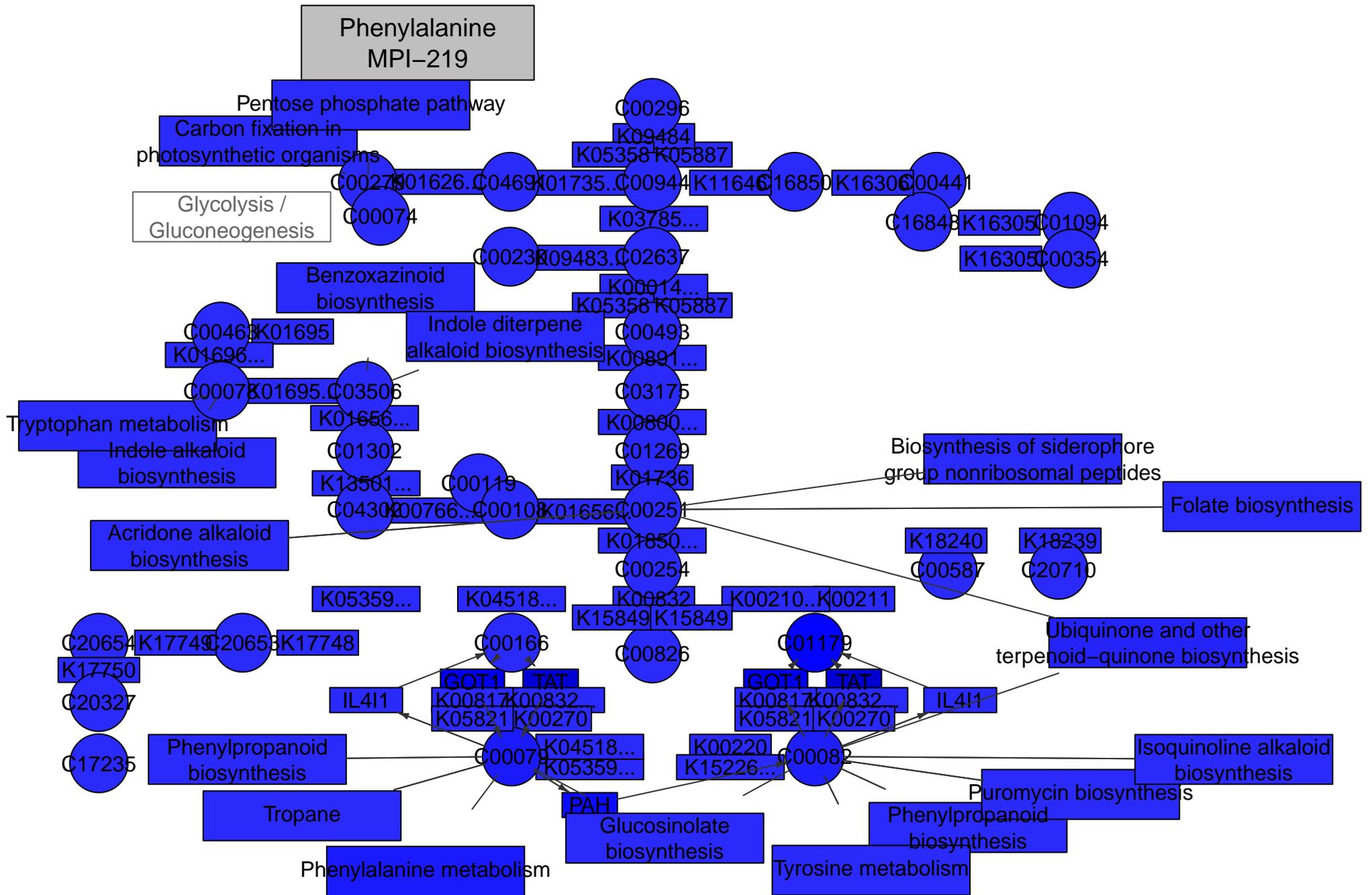


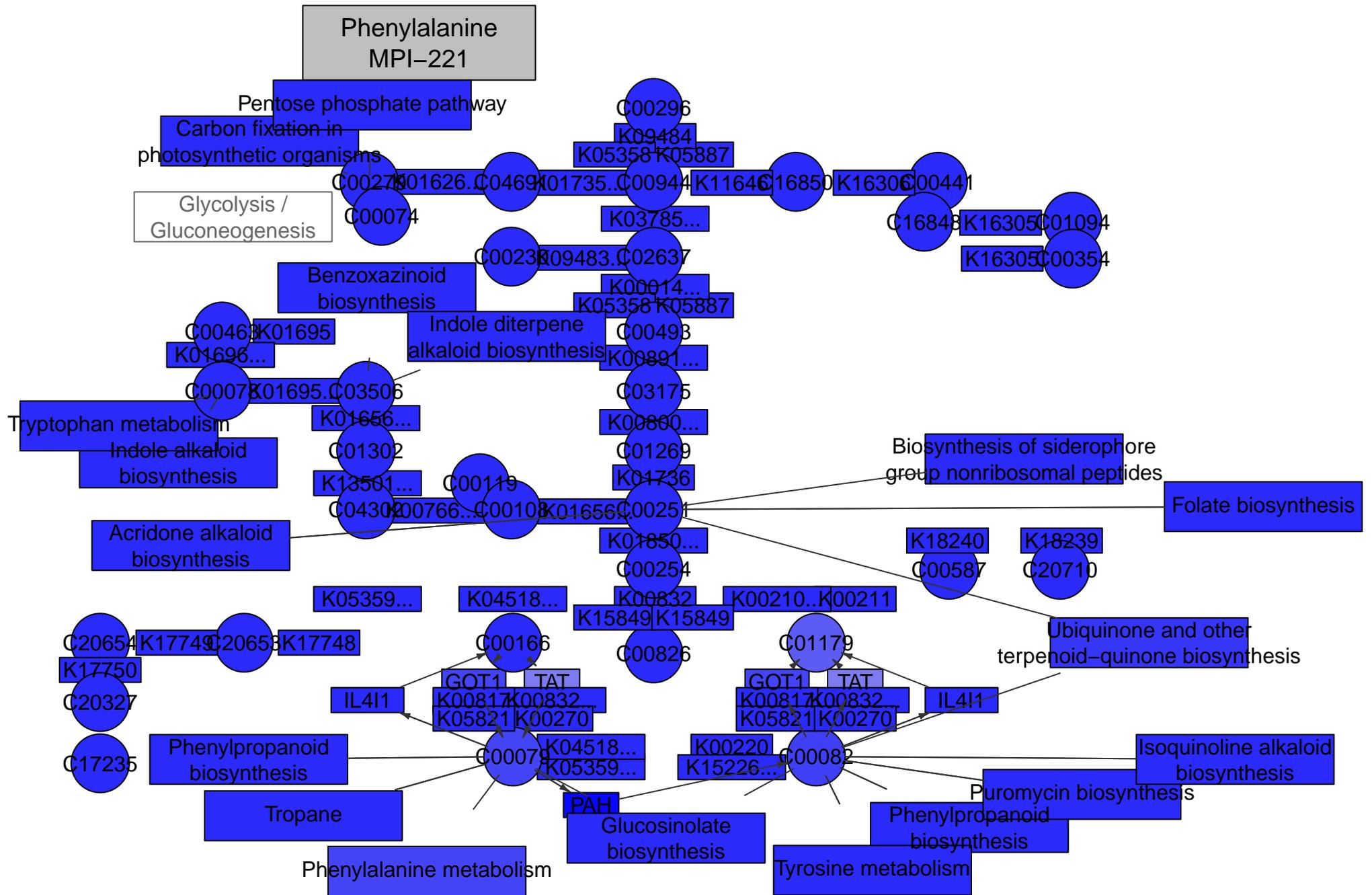


Phenylalanine  
MPI-213



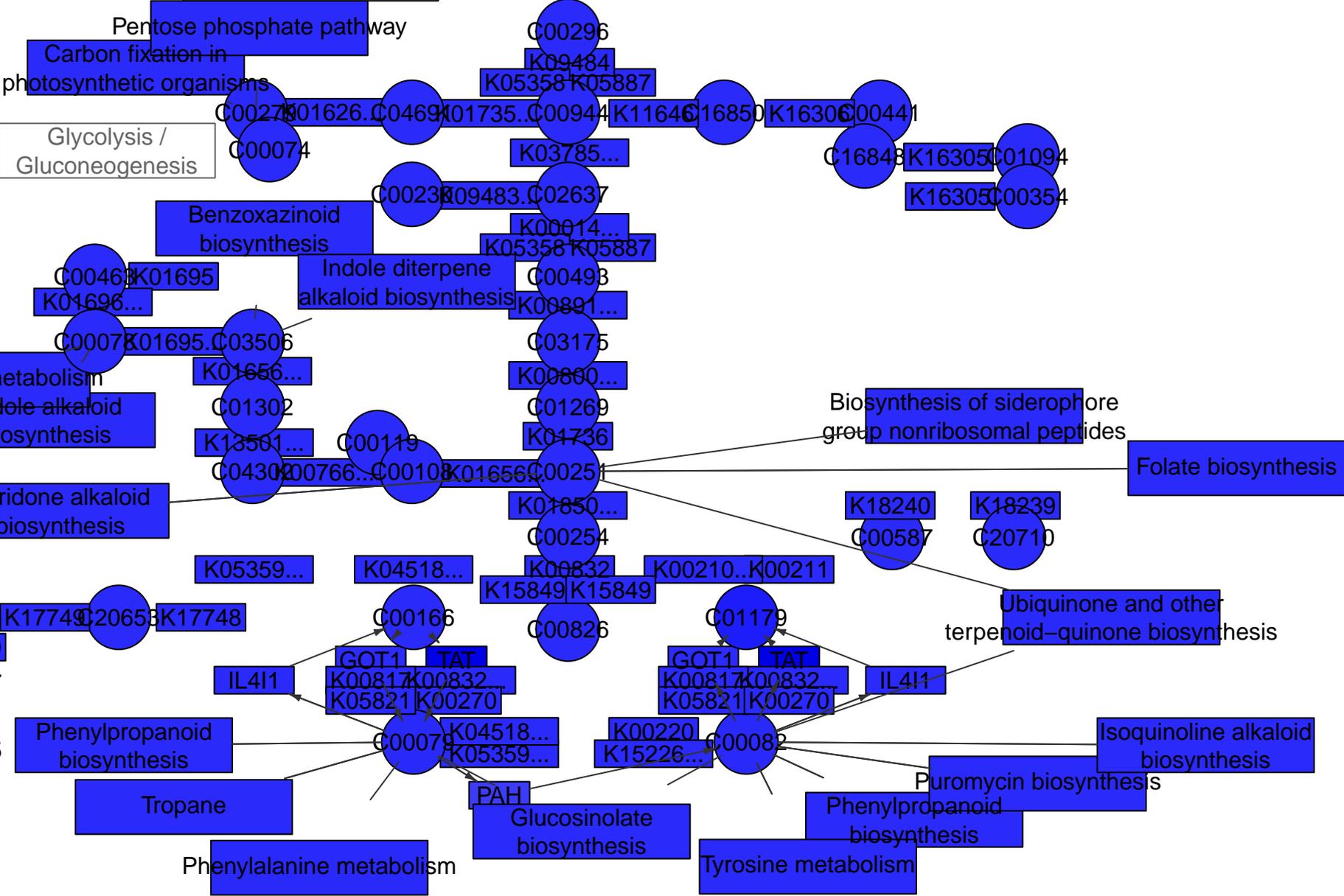


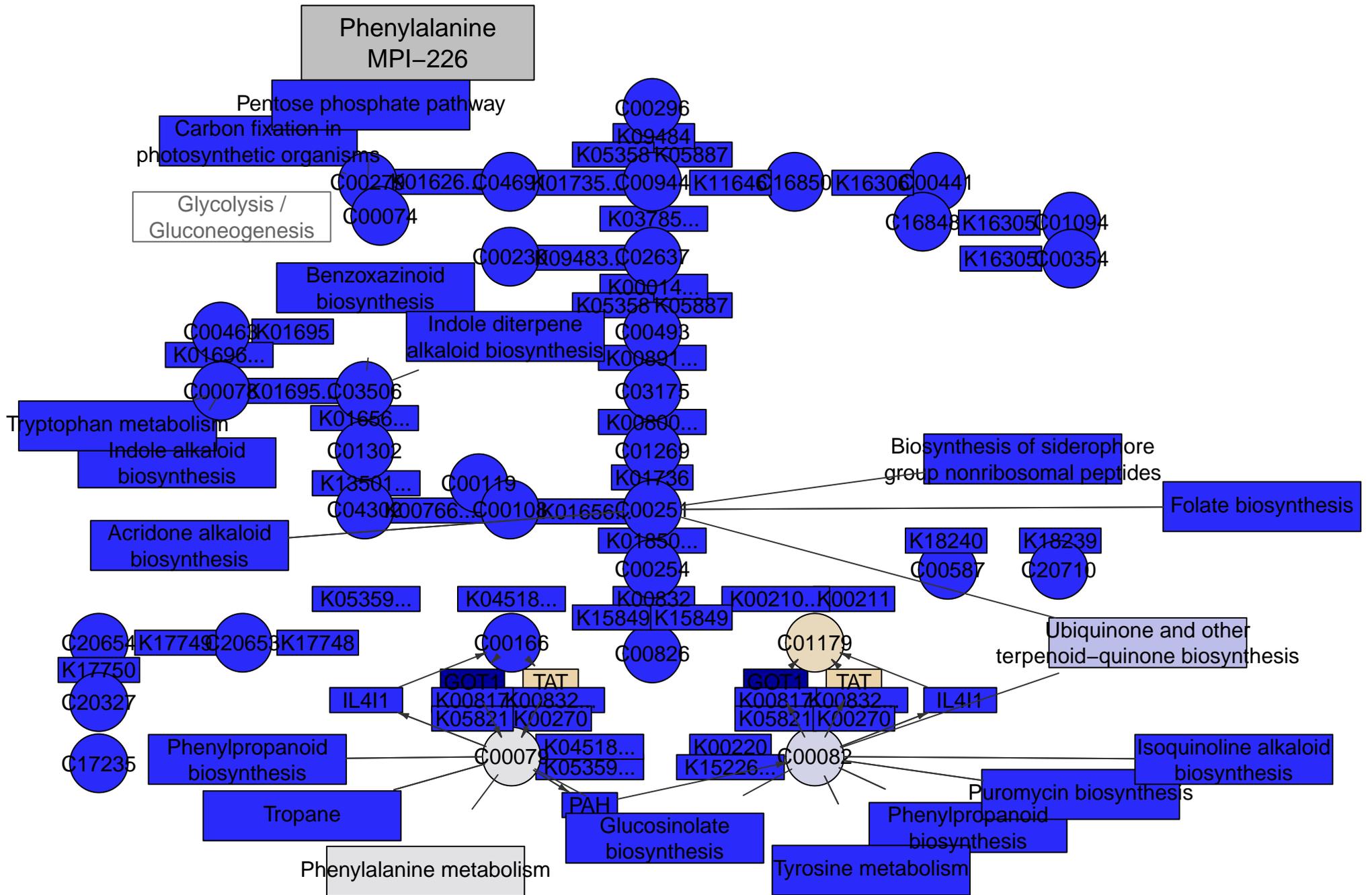


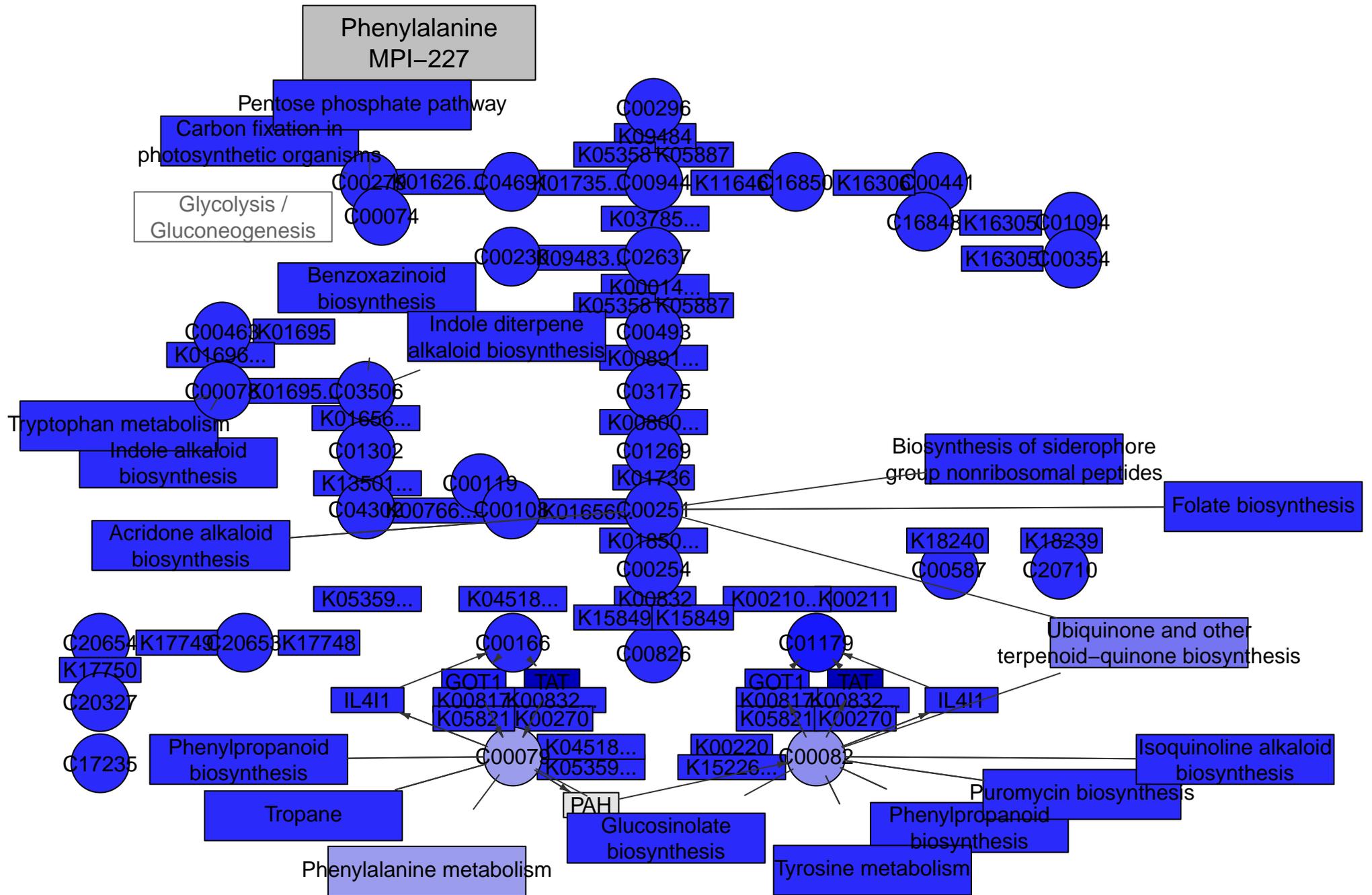




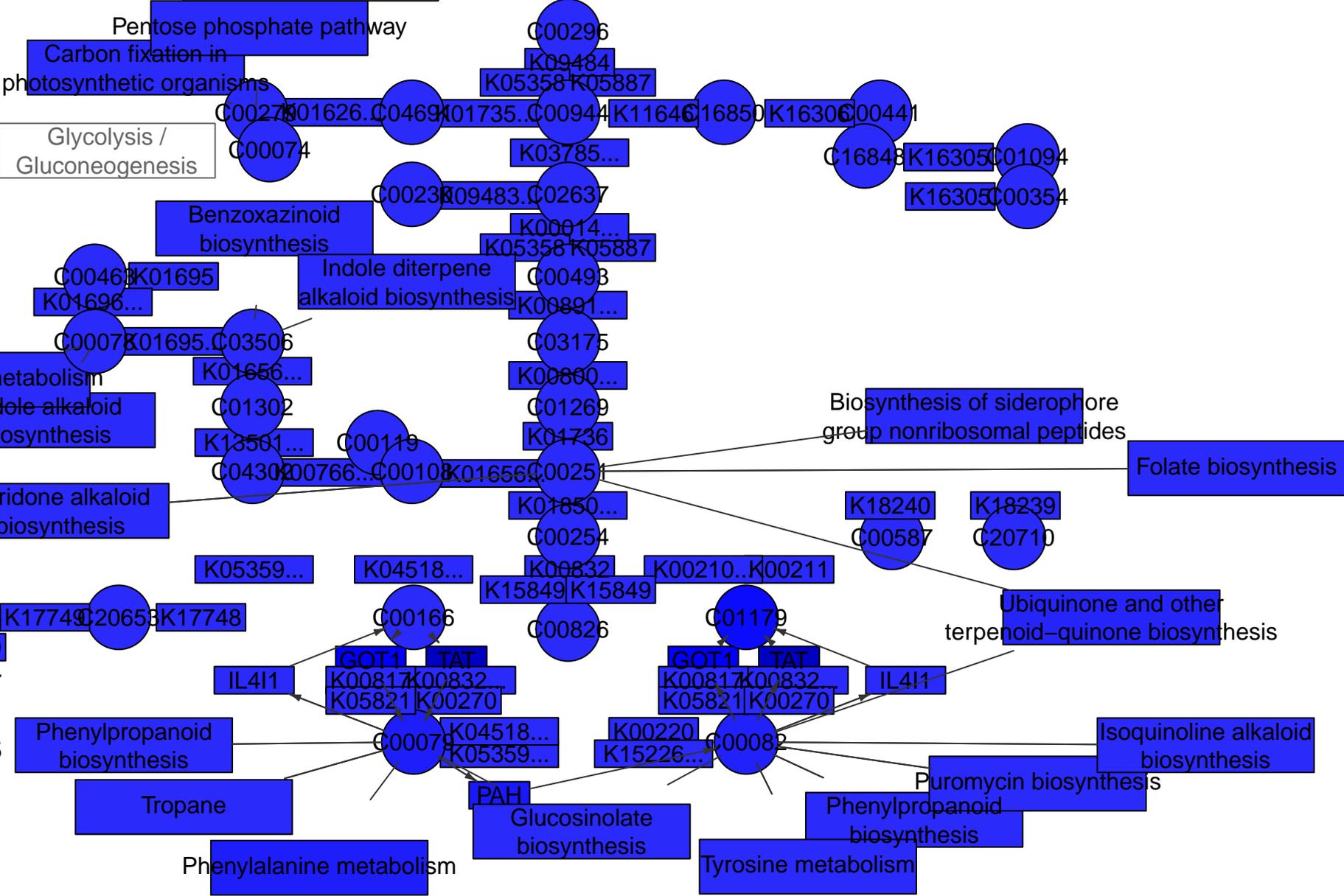
Phenylalanine  
MPI-224

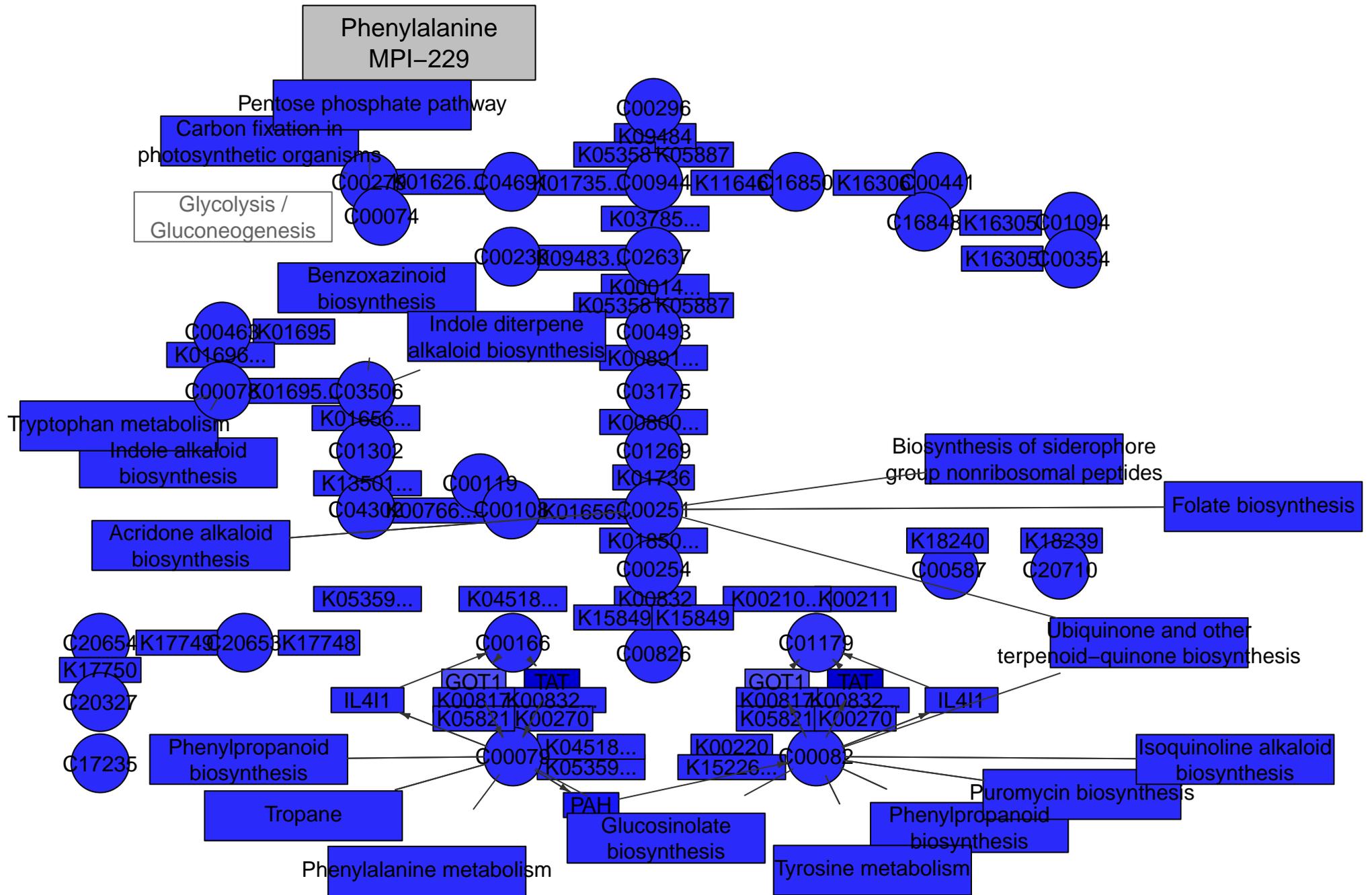




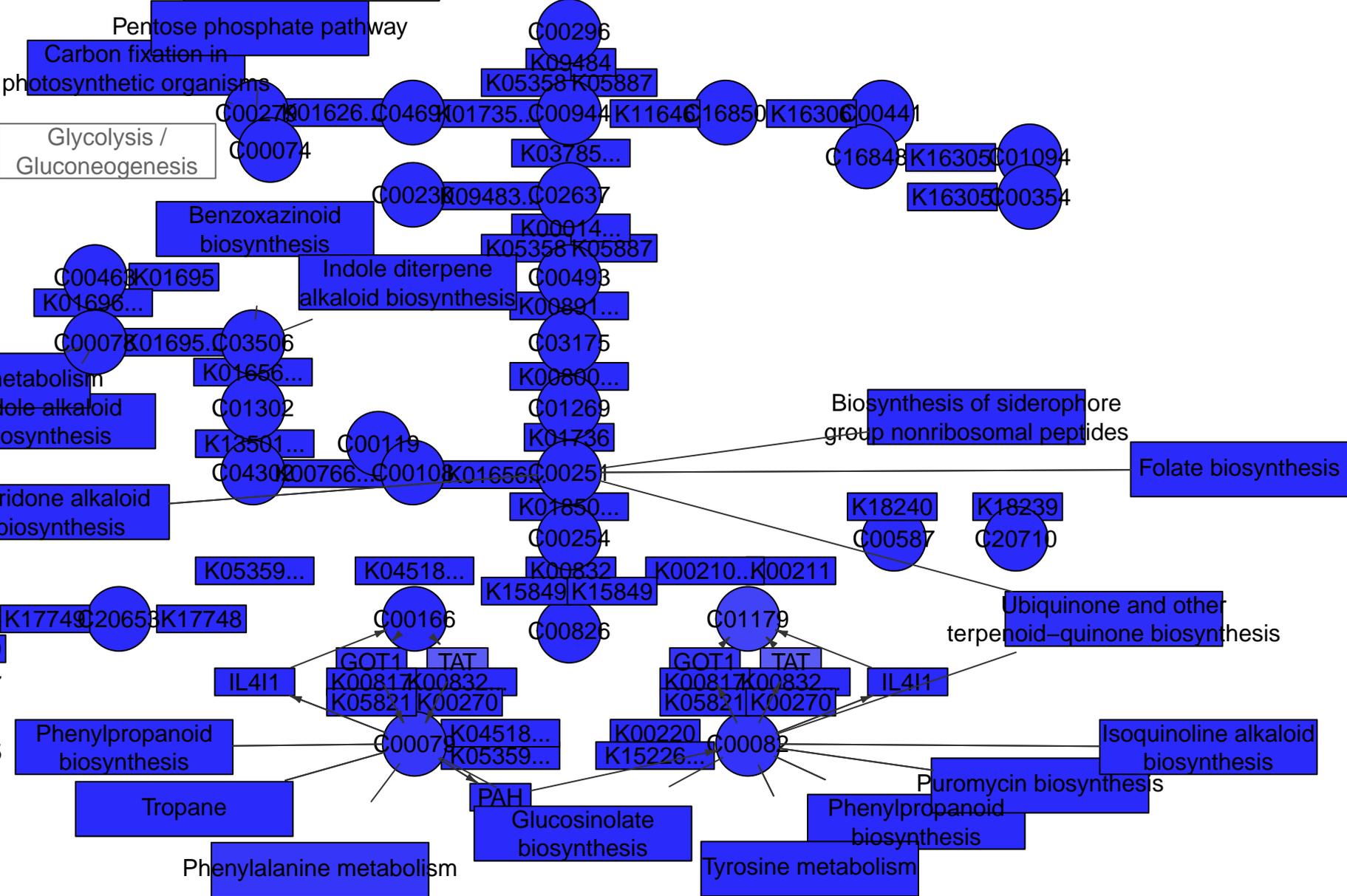


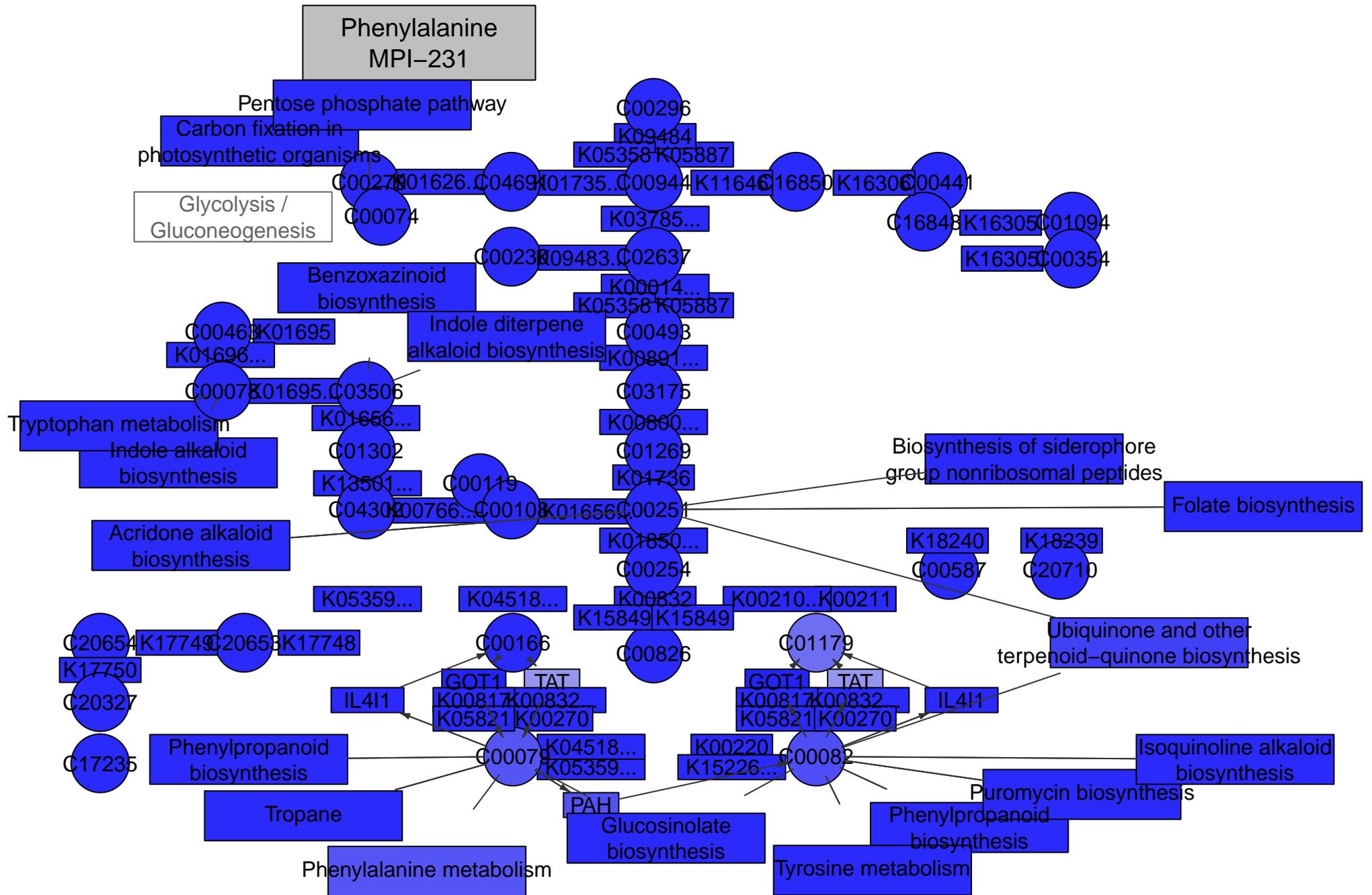
Phenylalanine  
MPI-228



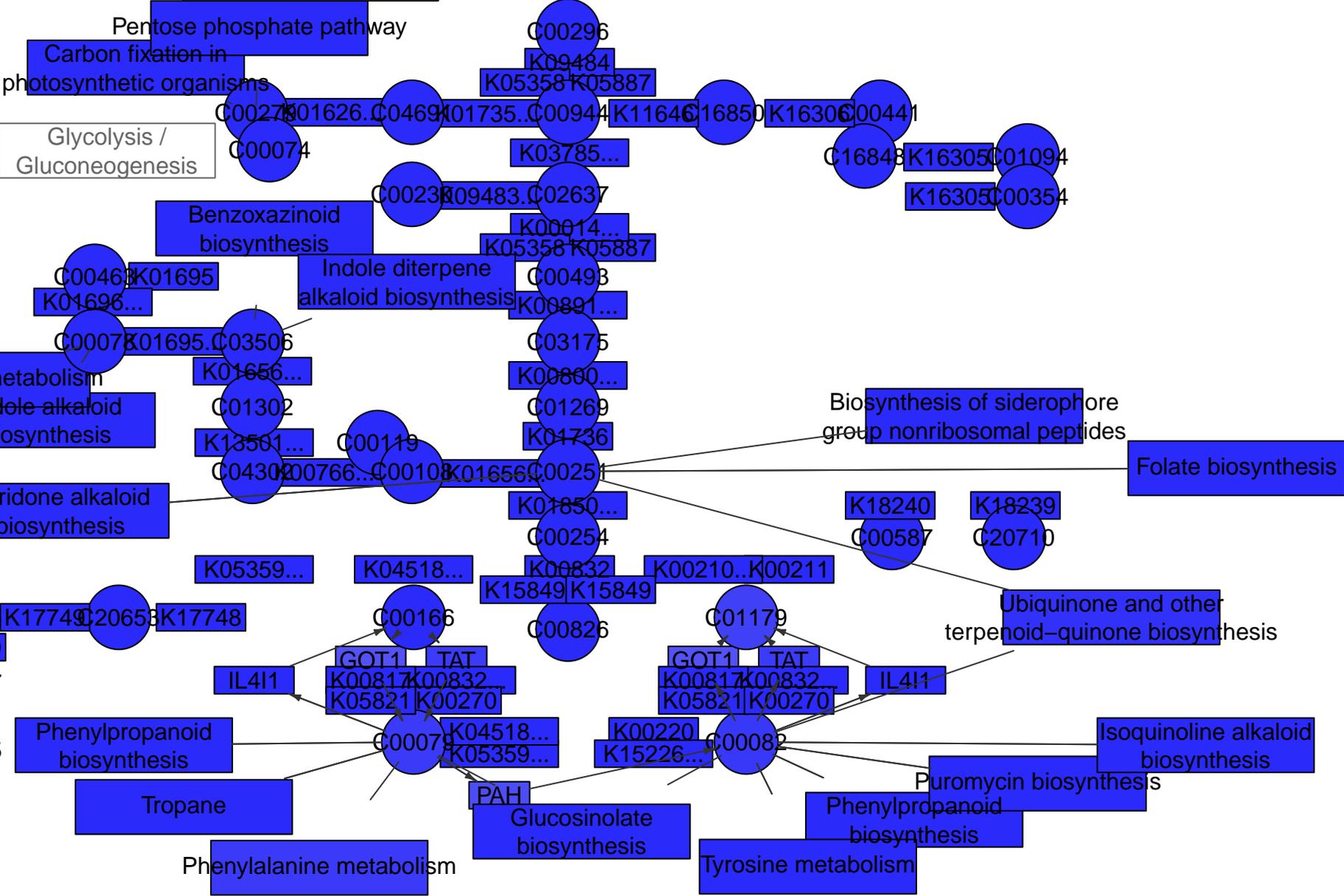


Phenylalanine  
MPI-230

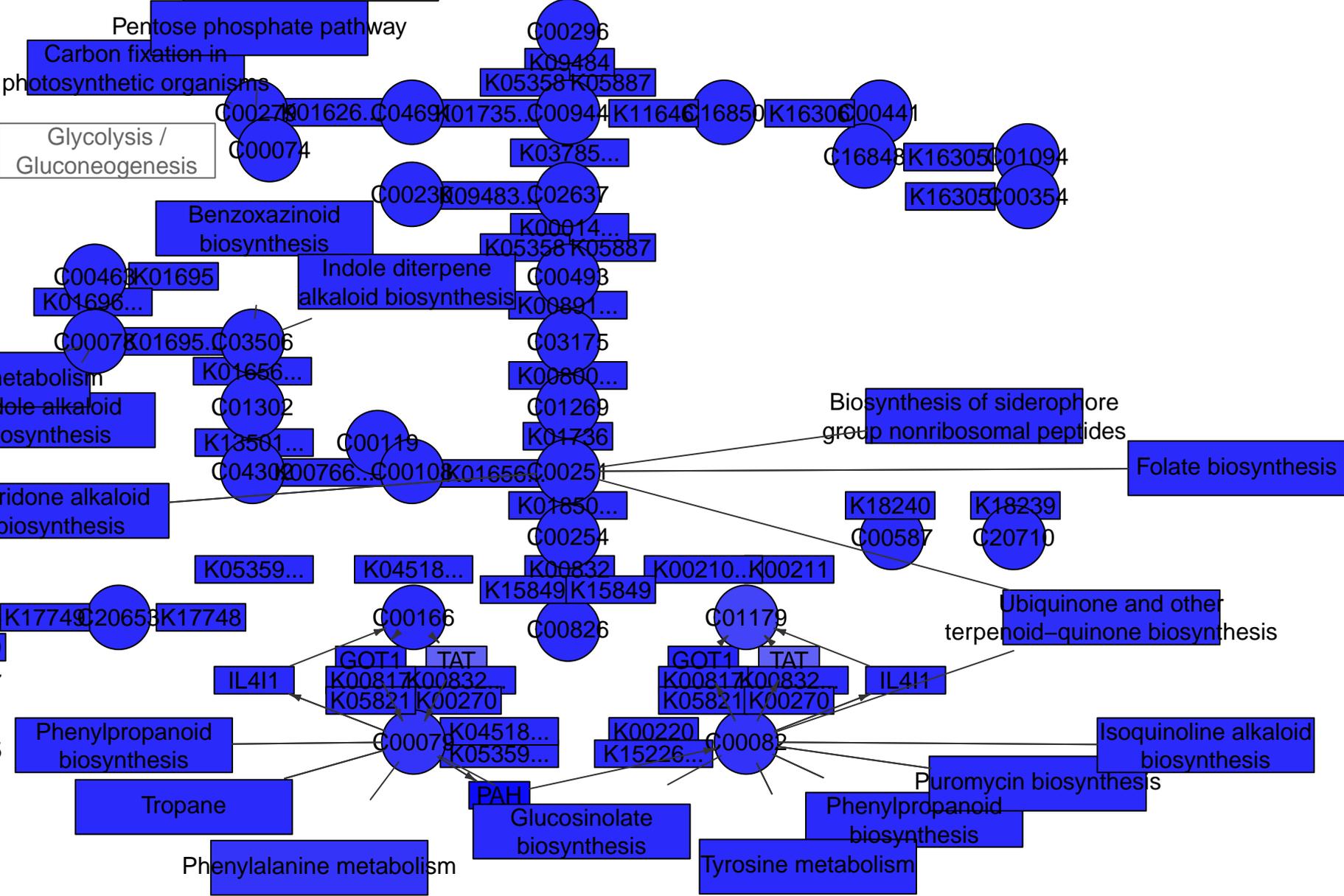




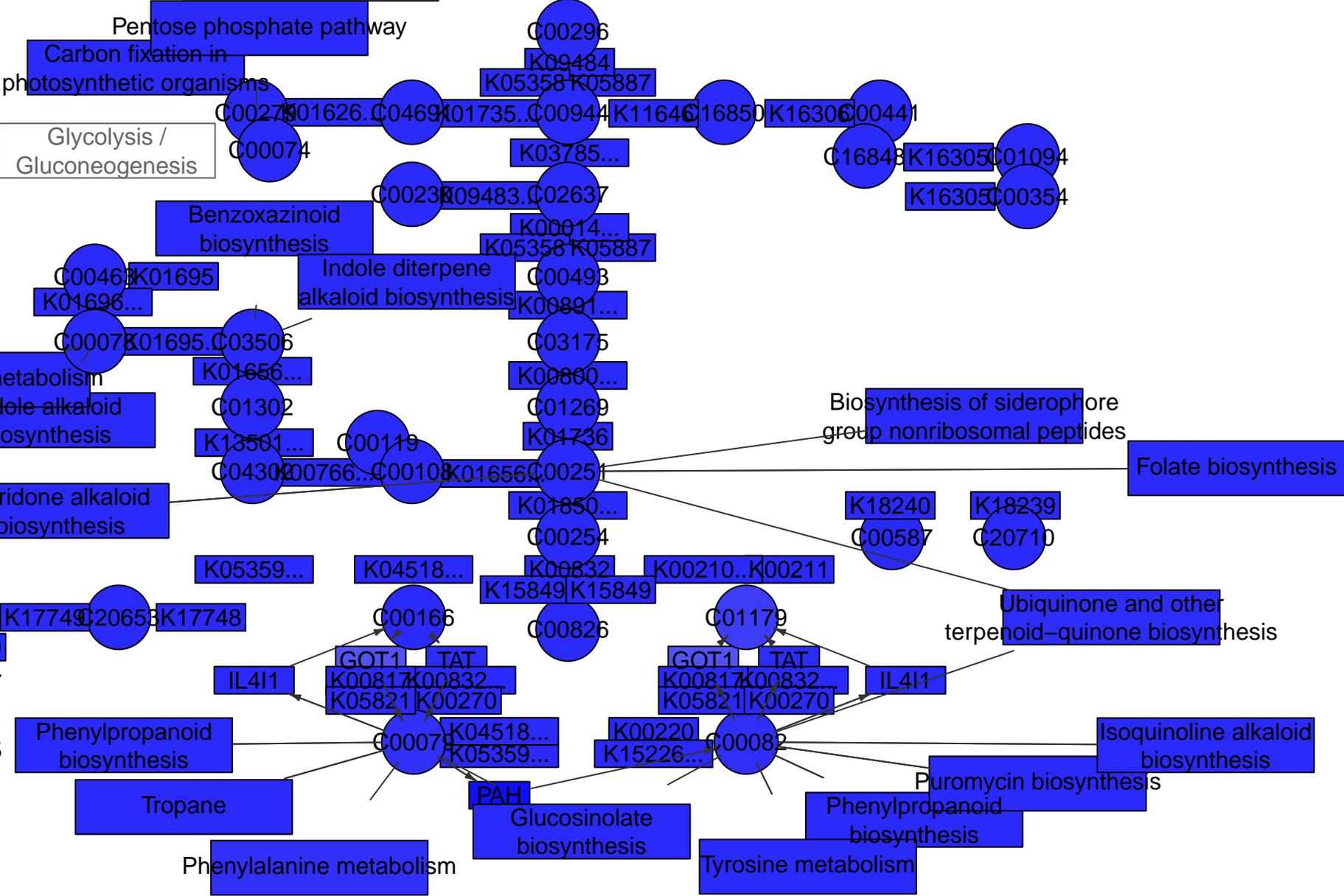
Phenylalanine  
MPI-232



Phenylalanine  
MPI-233



Phenylalanine  
MPI-234



Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism  
Indole alkaloid  
biosynthesis

Acridone alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

Glucosinolate  
biosynthesis

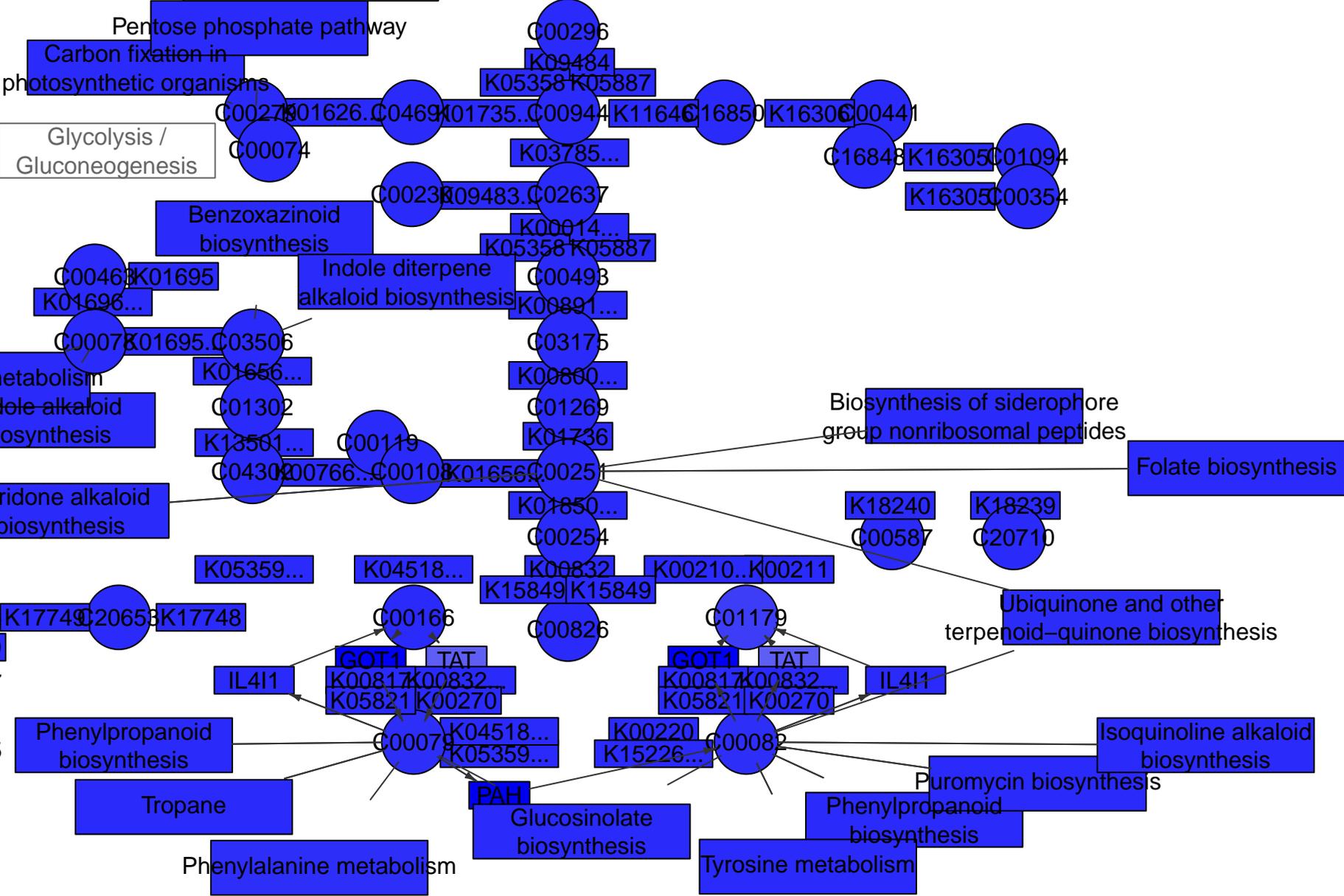
Tyrosine metabolism

Phenylpropanoid  
biosynthesis

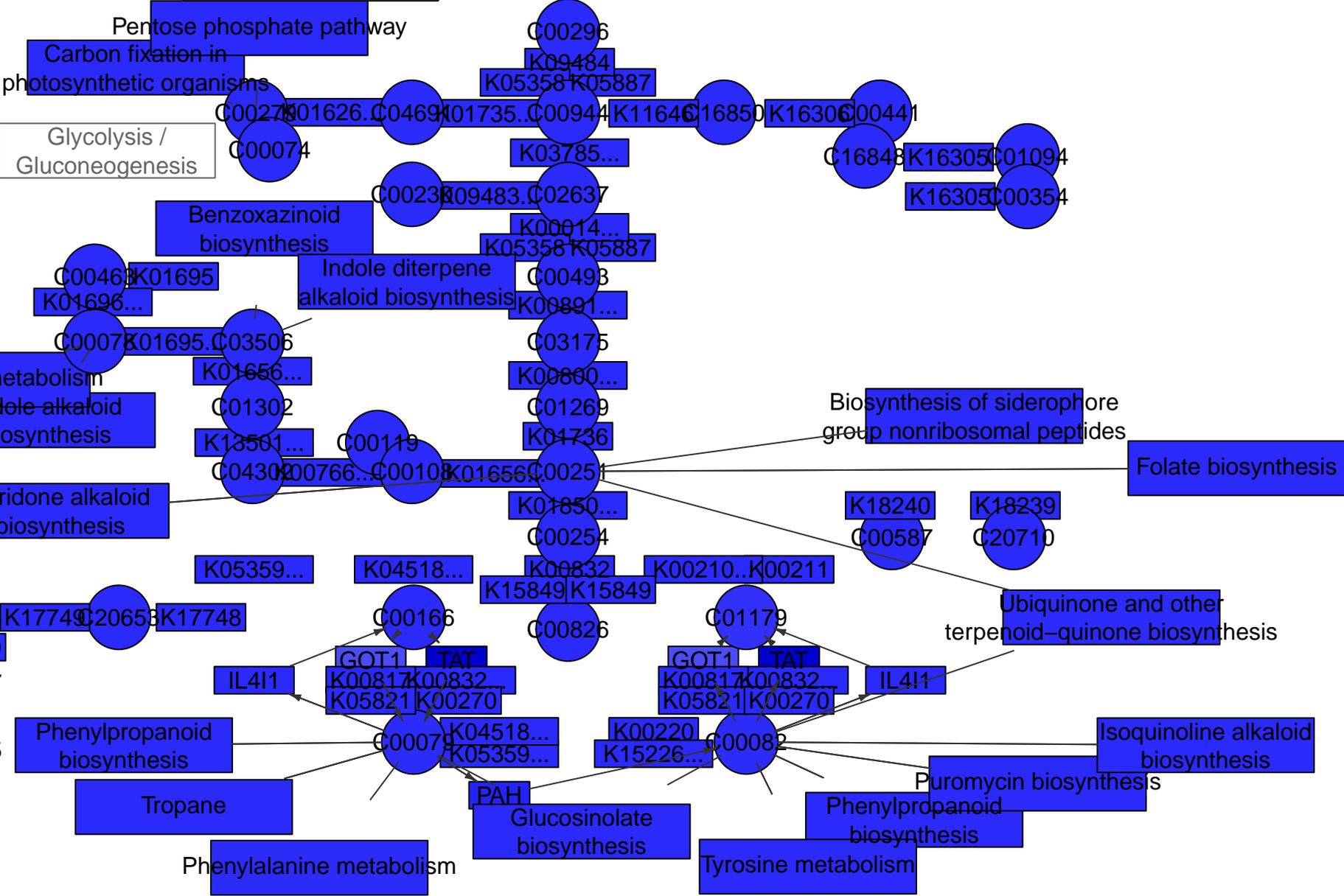
Puromycin biosynthesis

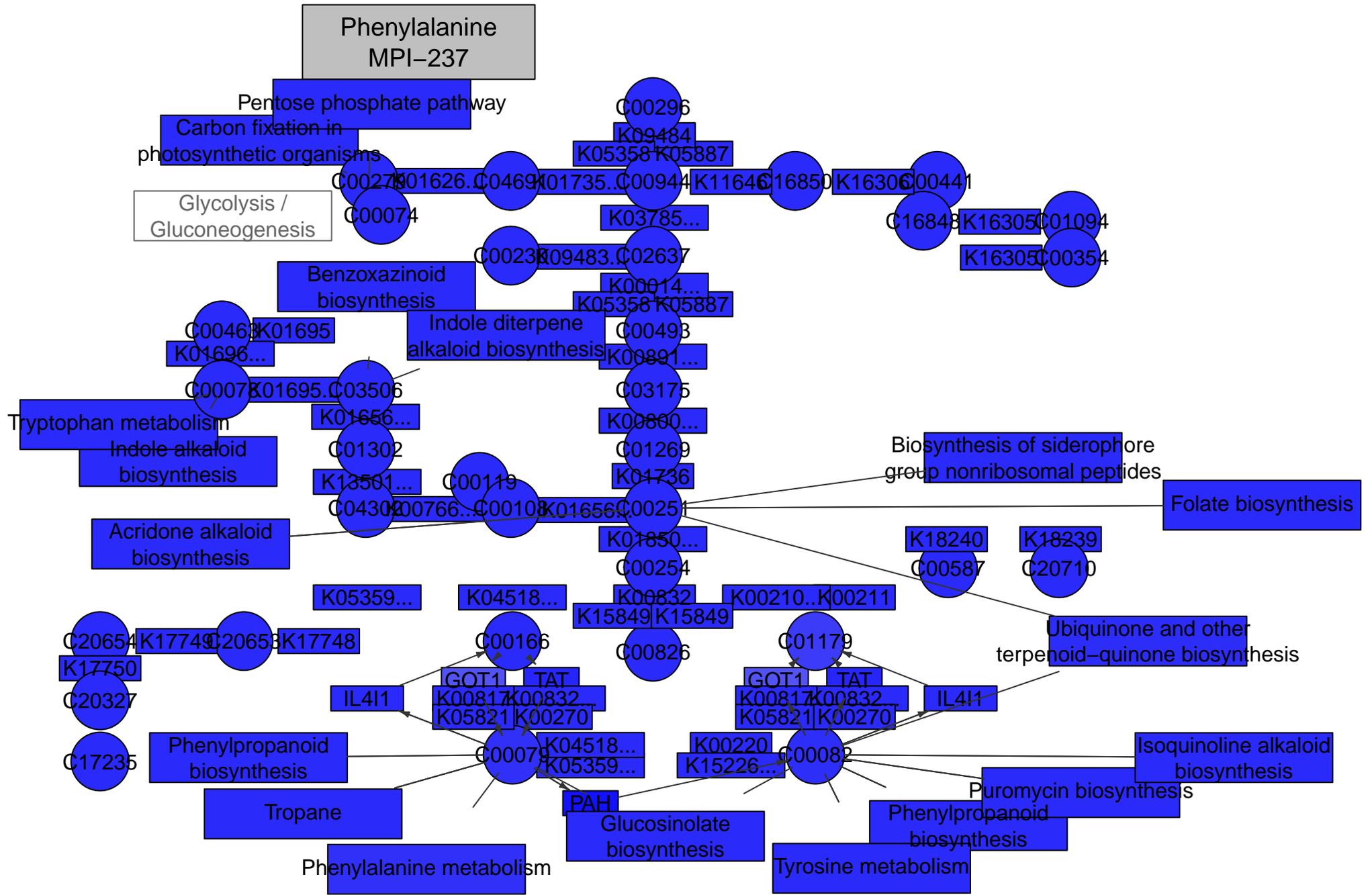
Isoquinoline alkaloid  
biosynthesis

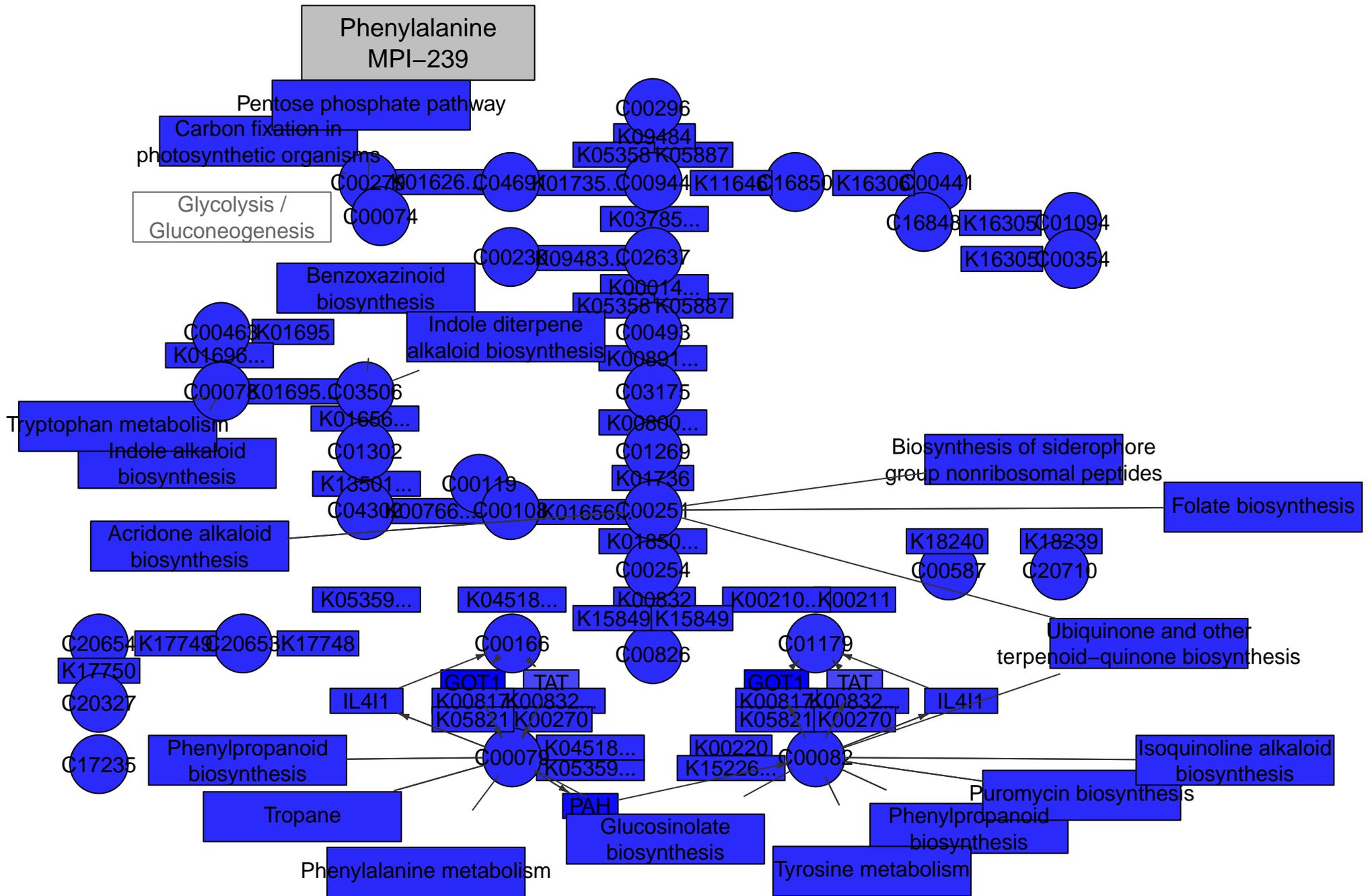
Phenylalanine  
MPI-235



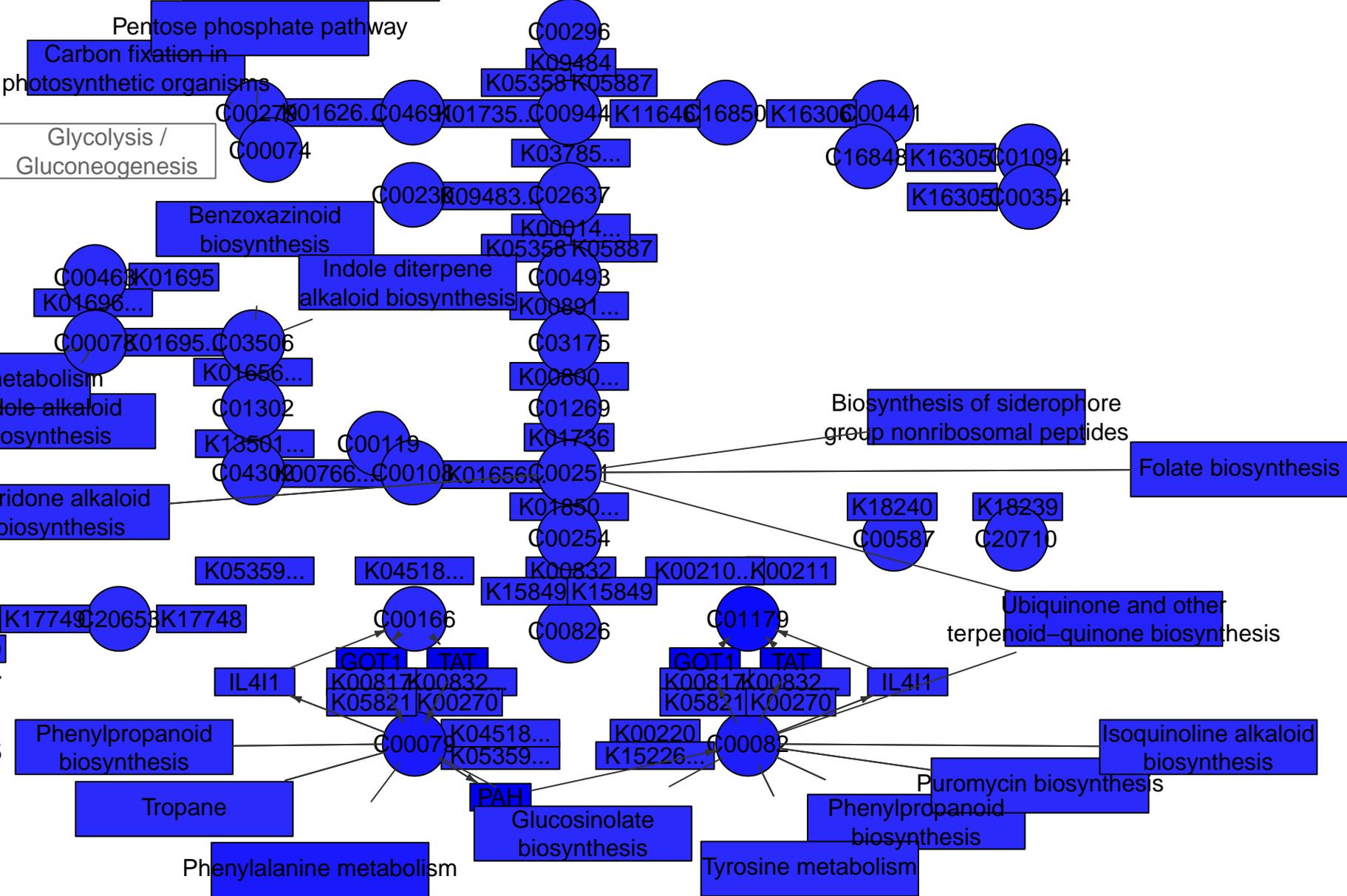
Phenylalanine  
MPI-236







Phenylalanine  
MPI-241



Phenylalanine  
MPI-243

Pentose phosphate pathway  
Carbon fixation in  
photosynthetic organisms

Glycolysis /  
Gluconeogenesis

Benzoxazinoid  
biosynthesis

Indole diterpene  
alkaloid biosynthesis

Tryptophan metabolism

Indole alkaloid  
biosynthesis

Biosynthesis of siderophore  
group nonribosomal peptides

Folate biosynthesis

Acridone alkaloid  
biosynthesis

Ubiquinone and other  
terpenoid-quinone biosynthesis

Phenylpropanoid  
biosynthesis

Tropane

Phenylalanine metabolism

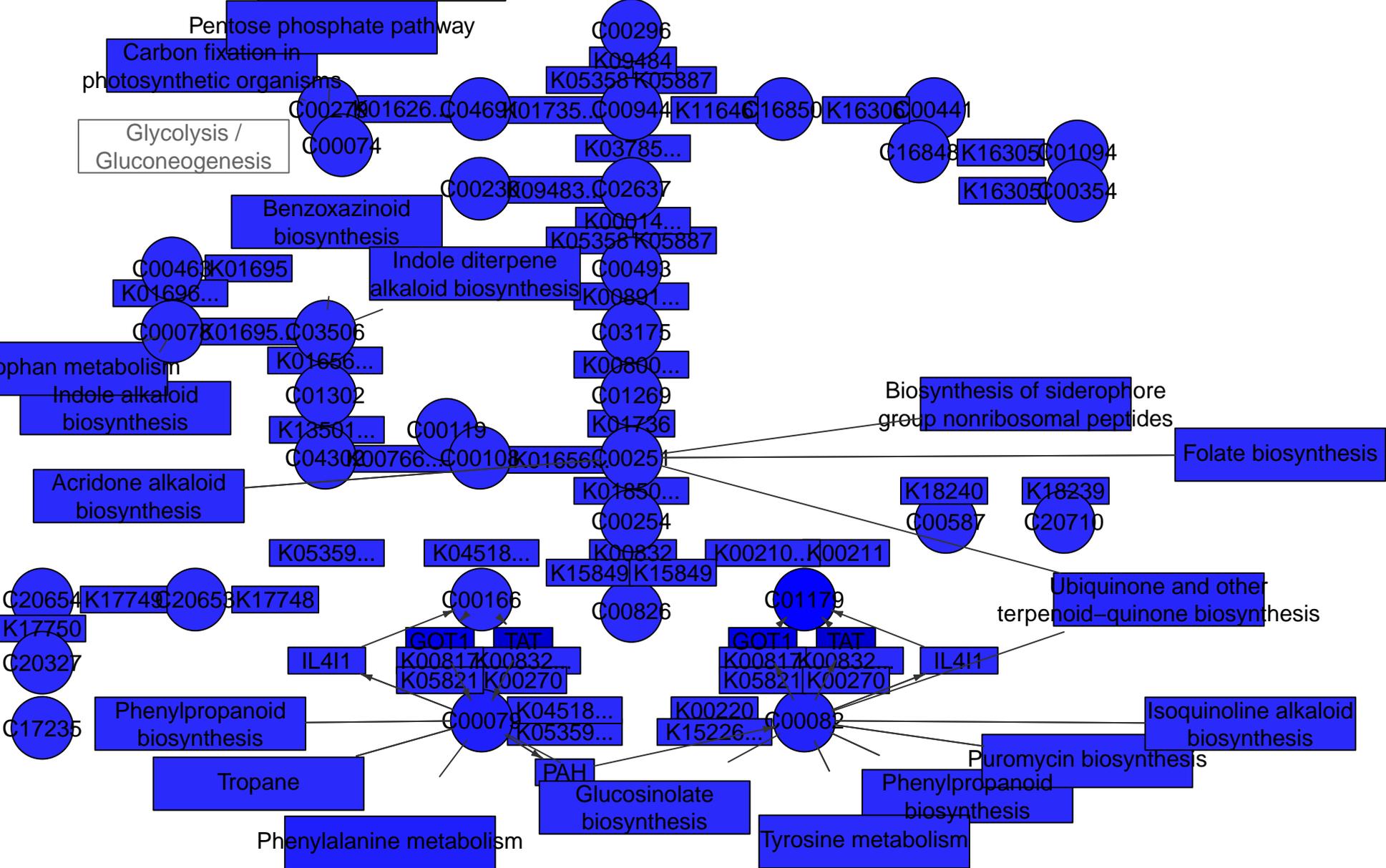
Glucosinolate  
biosynthesis

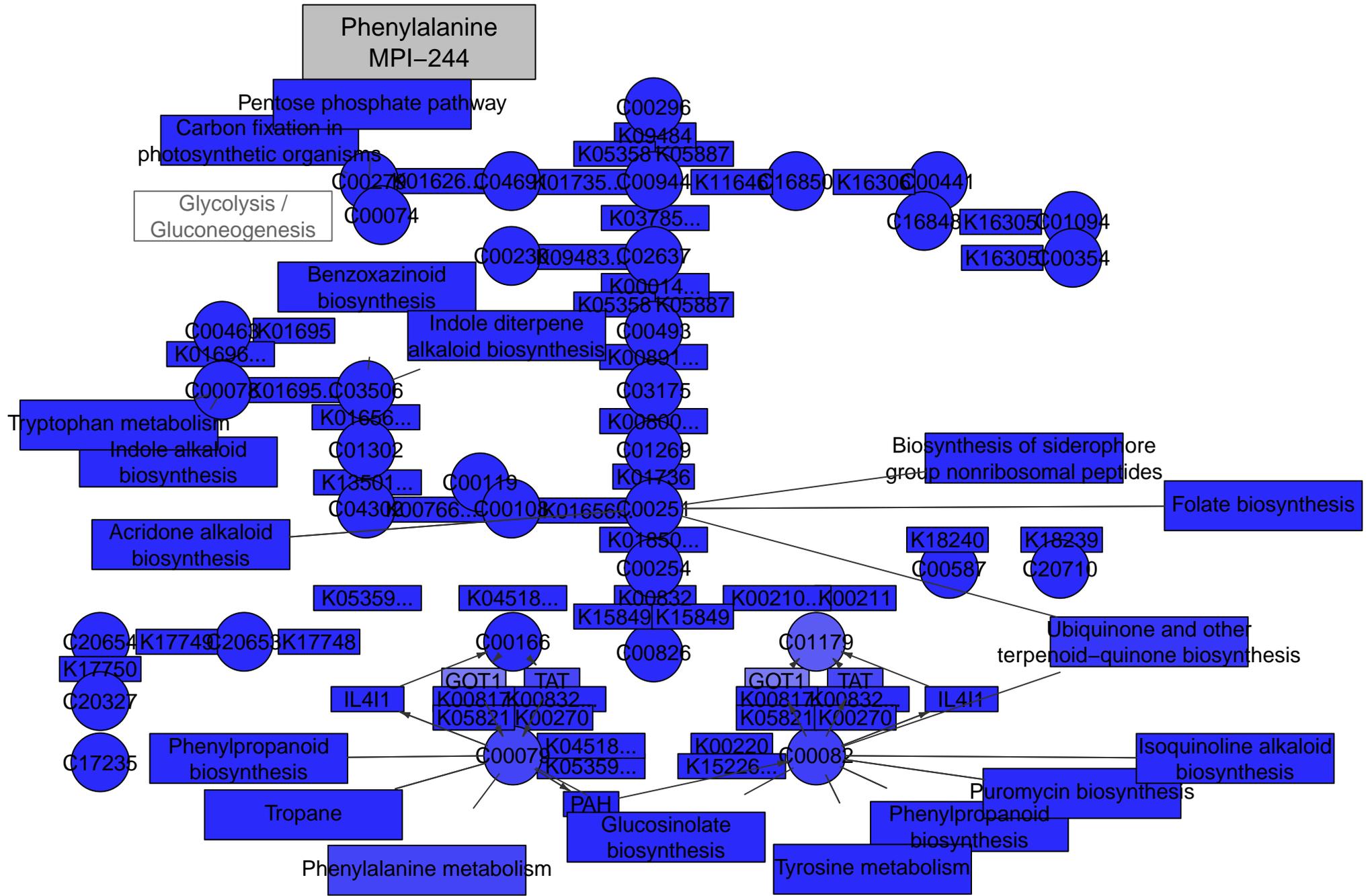
Tyrosine metabolism

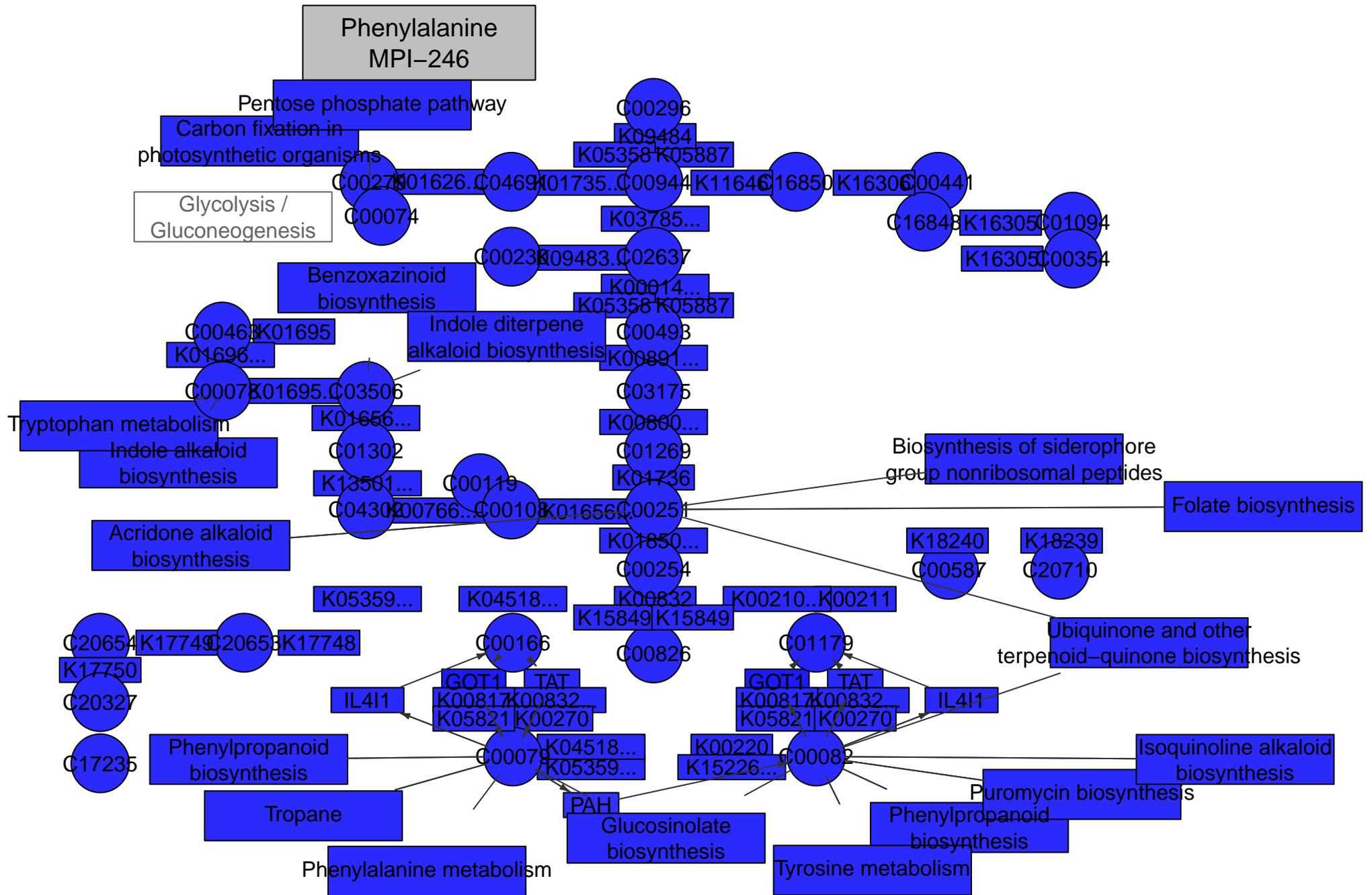
Phenylpropanoid  
biosynthesis

Puromycin biosynthesis

Isoquinoline alkaloid  
biosynthesis







Phenylalanine  
MPI-247

