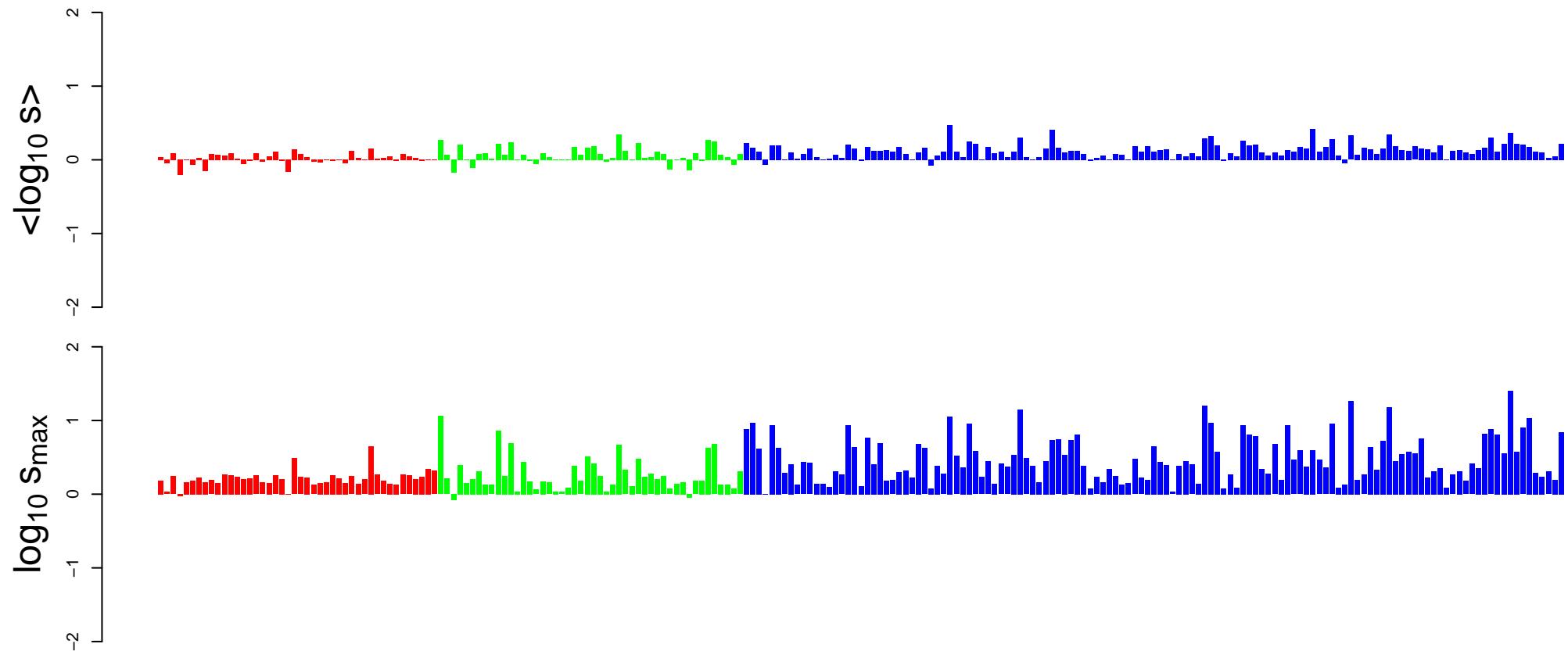
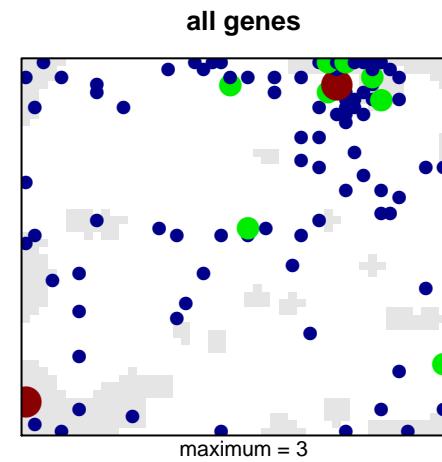


Pyrimidine metabolism



**Pyrimidine metabolism
(genes with data)**

Pentose phosphate pathway C00119

K17828... C00433 CAD C00331 K00220 C00295 UMPK2 C01103 MPS

DHODH NUDT206105

PNPT1 ANT1 ENTPD8

C00169 CAD

C00169 CAD

Arginine biosy C00064

Alanine

C00342 TXNRK00527

C00343 TXNRK00527

C00342 POLD3

C00343

C00342 TXNRK00527

C00343 RBBM2B

C00343 TXNRK00527

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

C00342 RBBM2B

C00342 TXNRK00527

C00342 DCTD

C00343 CDA

C00343 UPP2

C00343 NT5C1B-RDH14...

C00343 TYMP

C00343 DCK

C00343 CMPK2

C00343 ENTPD8

C00343 DCTPP1

C00343 ITPA

C00343 DUT

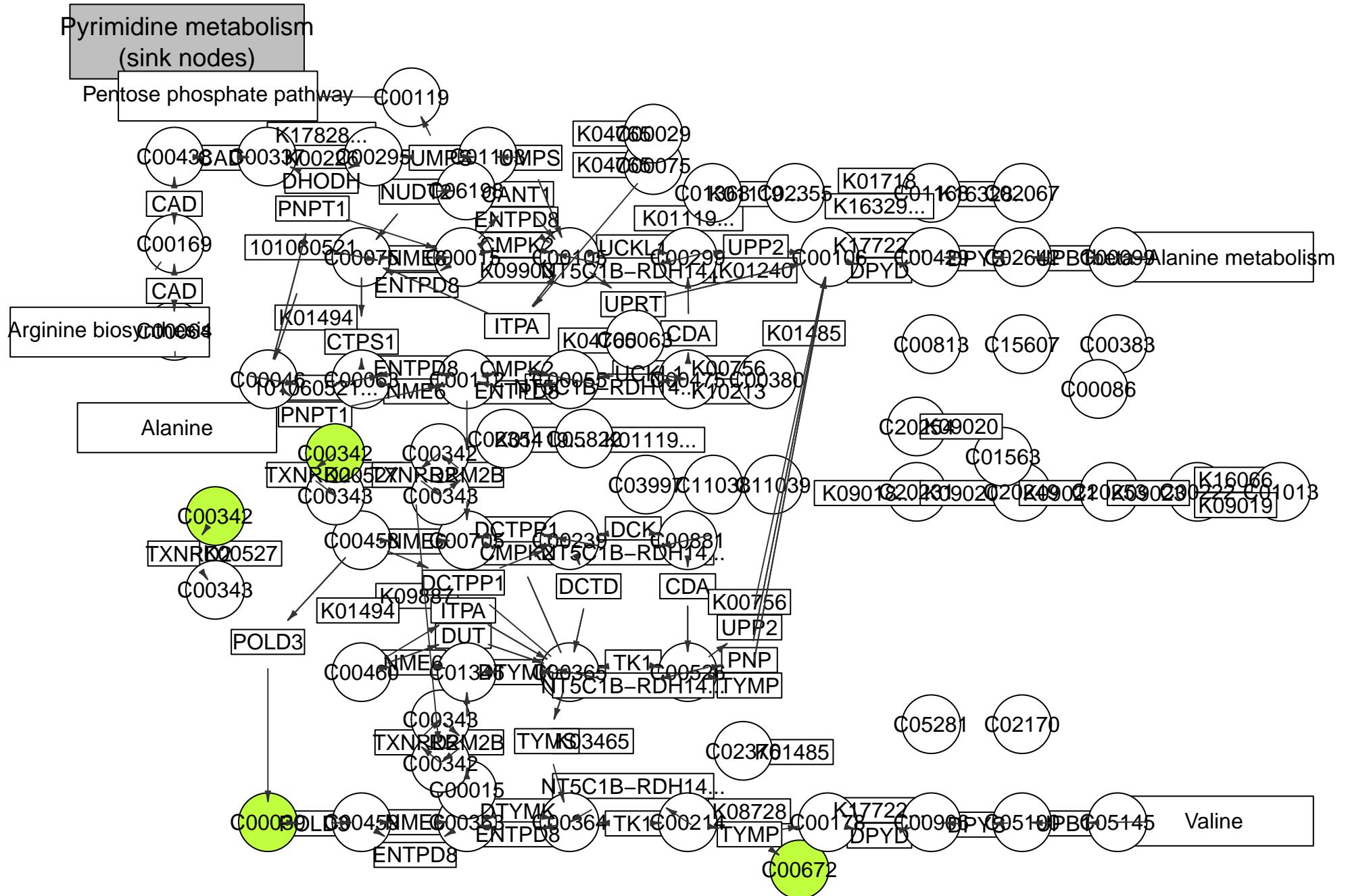
C00343 NME6

C00343 TYMS3465

C00342 TXNRK00527

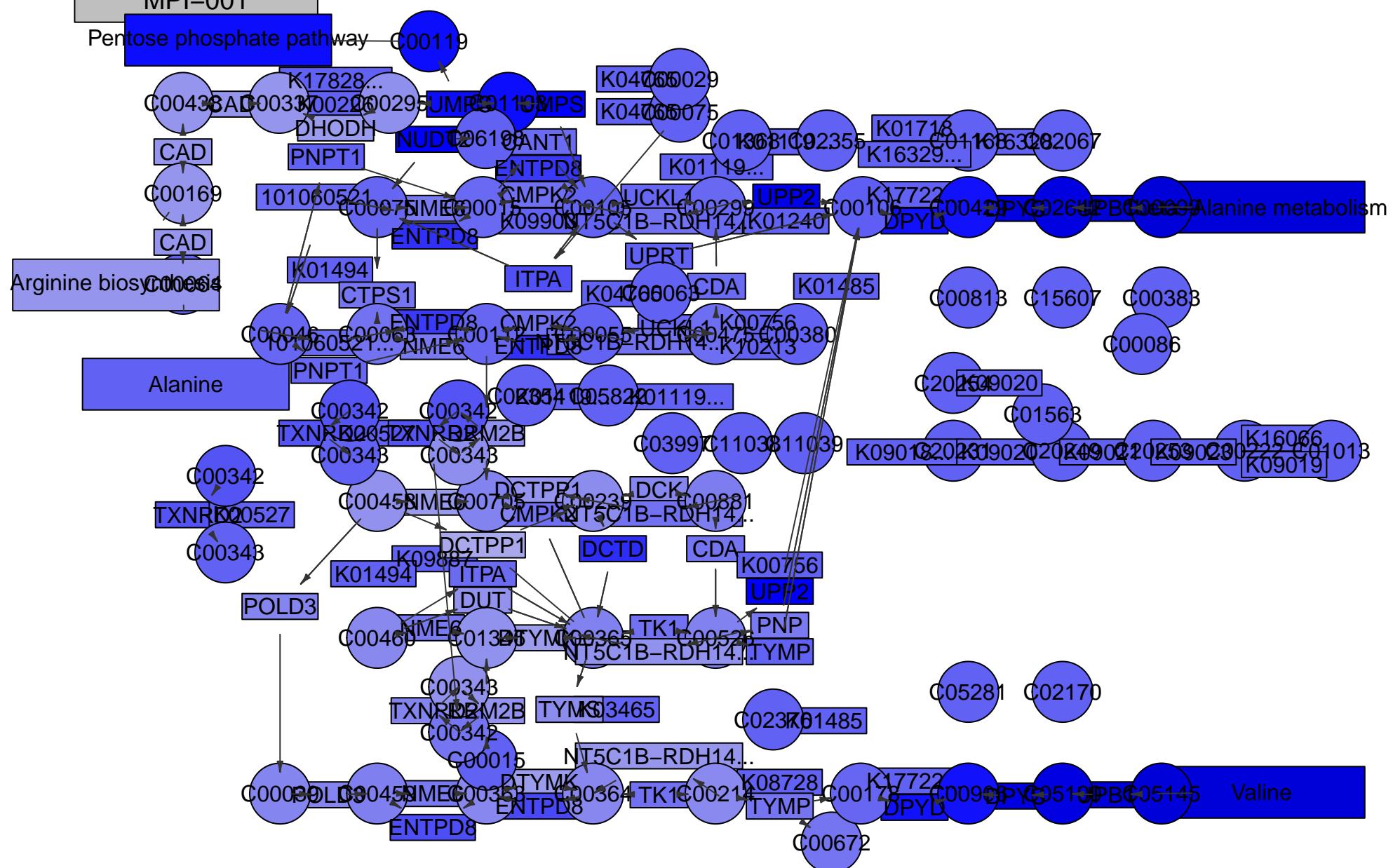
C00342 RBBM2B

C00342 TXNRK00527

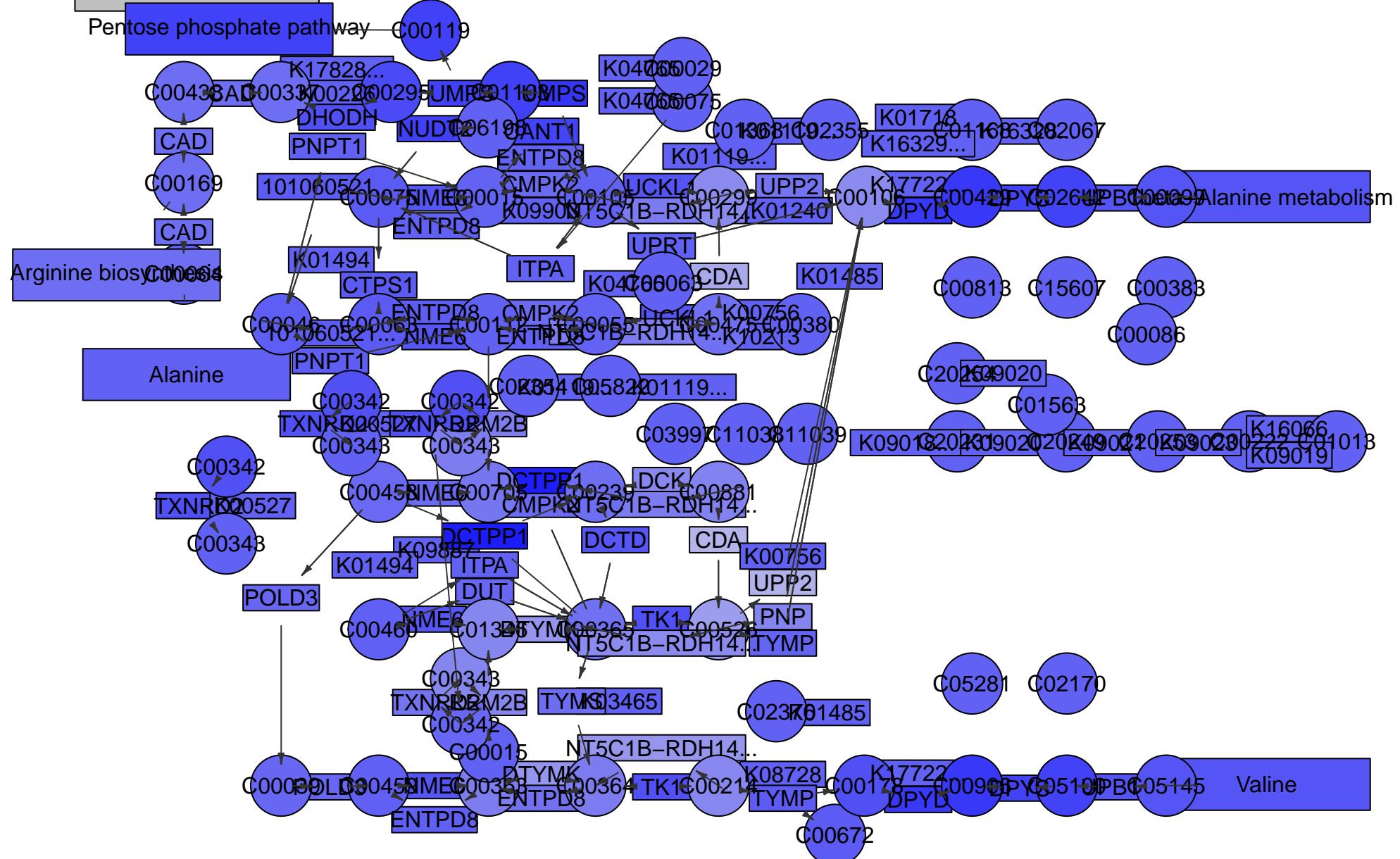


Pyrimidine metabolism

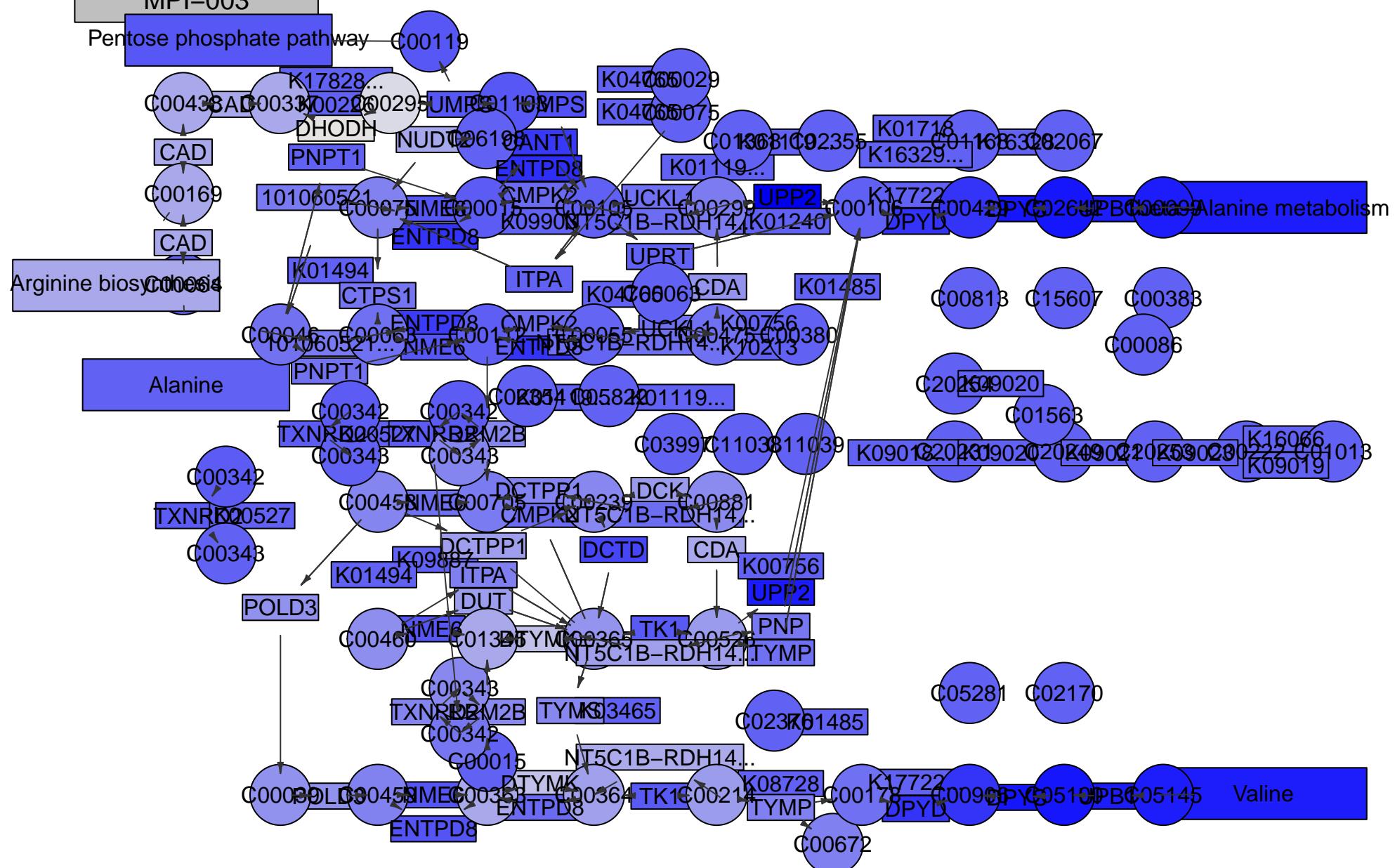
MPI-001



Pyrimidine metabolism
MPI-002

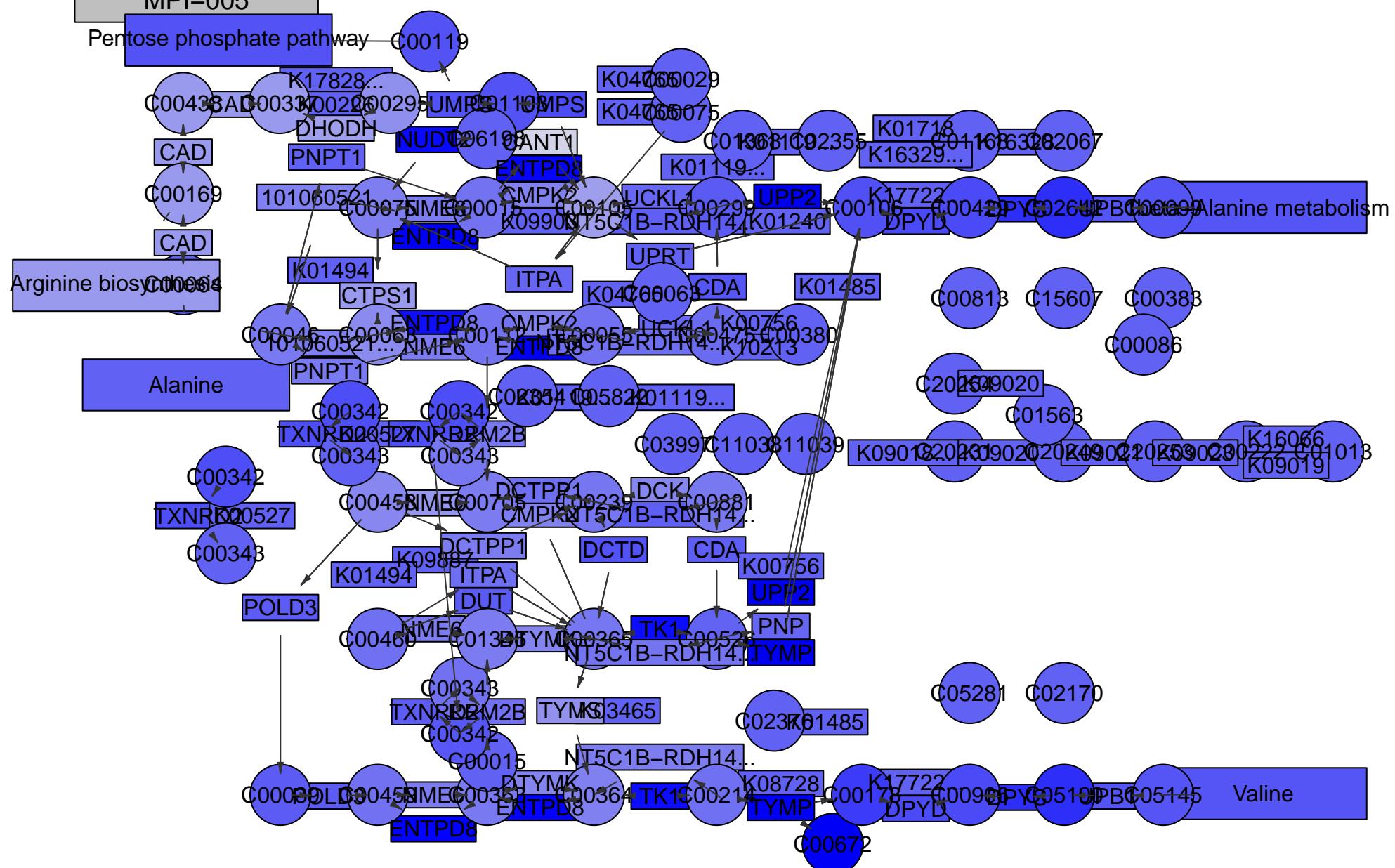


Pyrimidine metabolism MPI-003



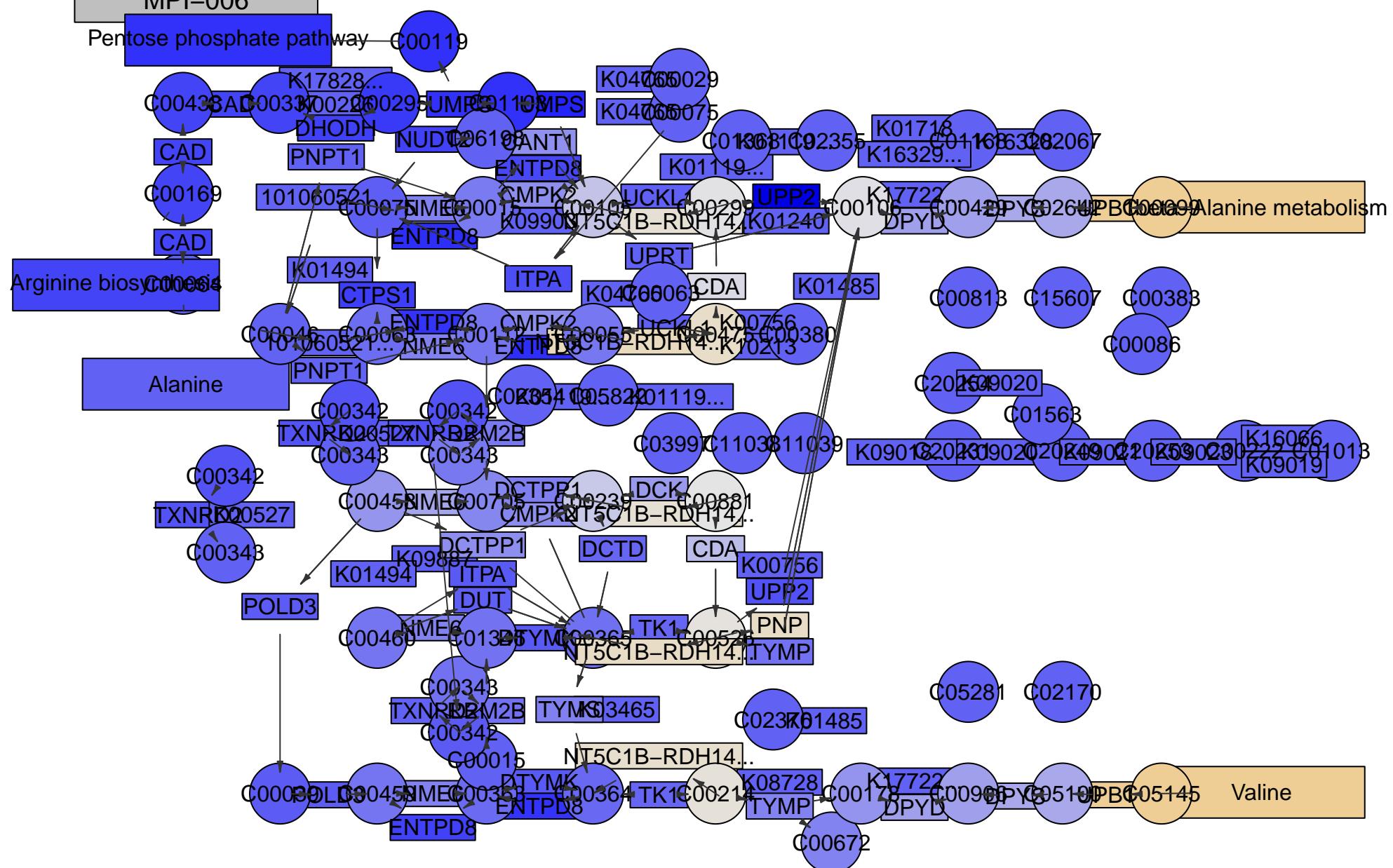
Pyrimidine metabolism

MPI-005

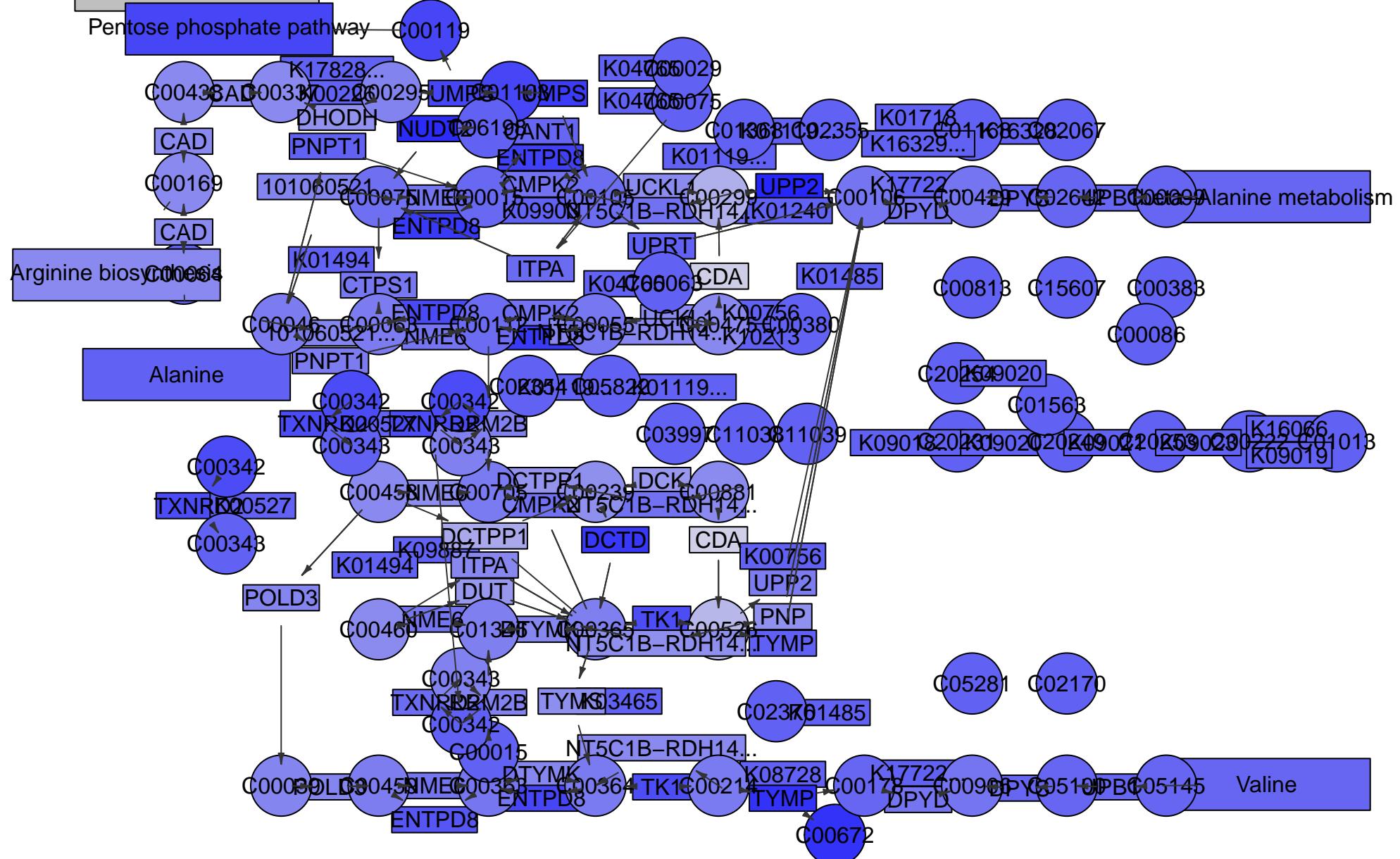


Pyrimidine metabolism

MPI-006

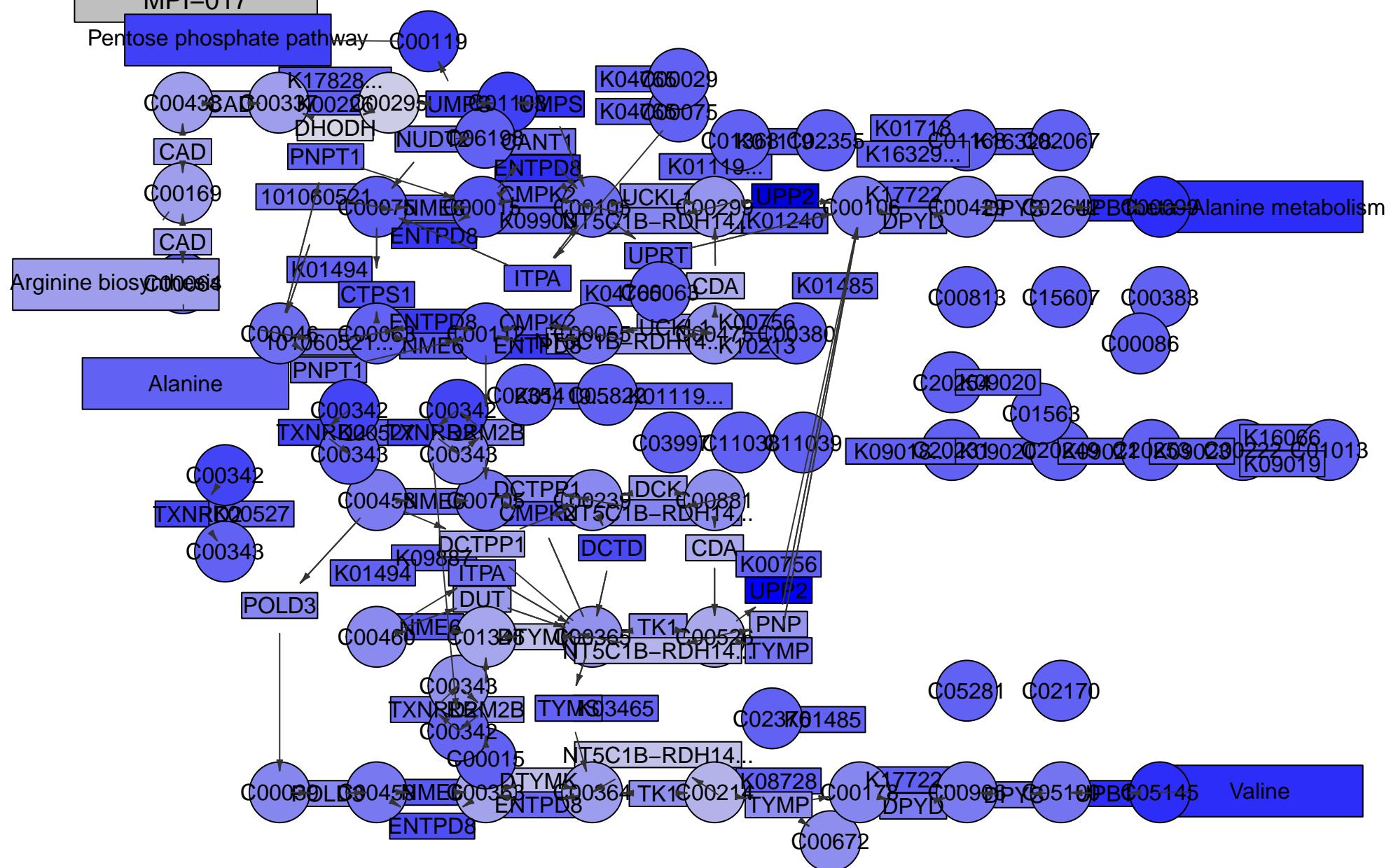


Pyrimidine metabolism
MPI-016

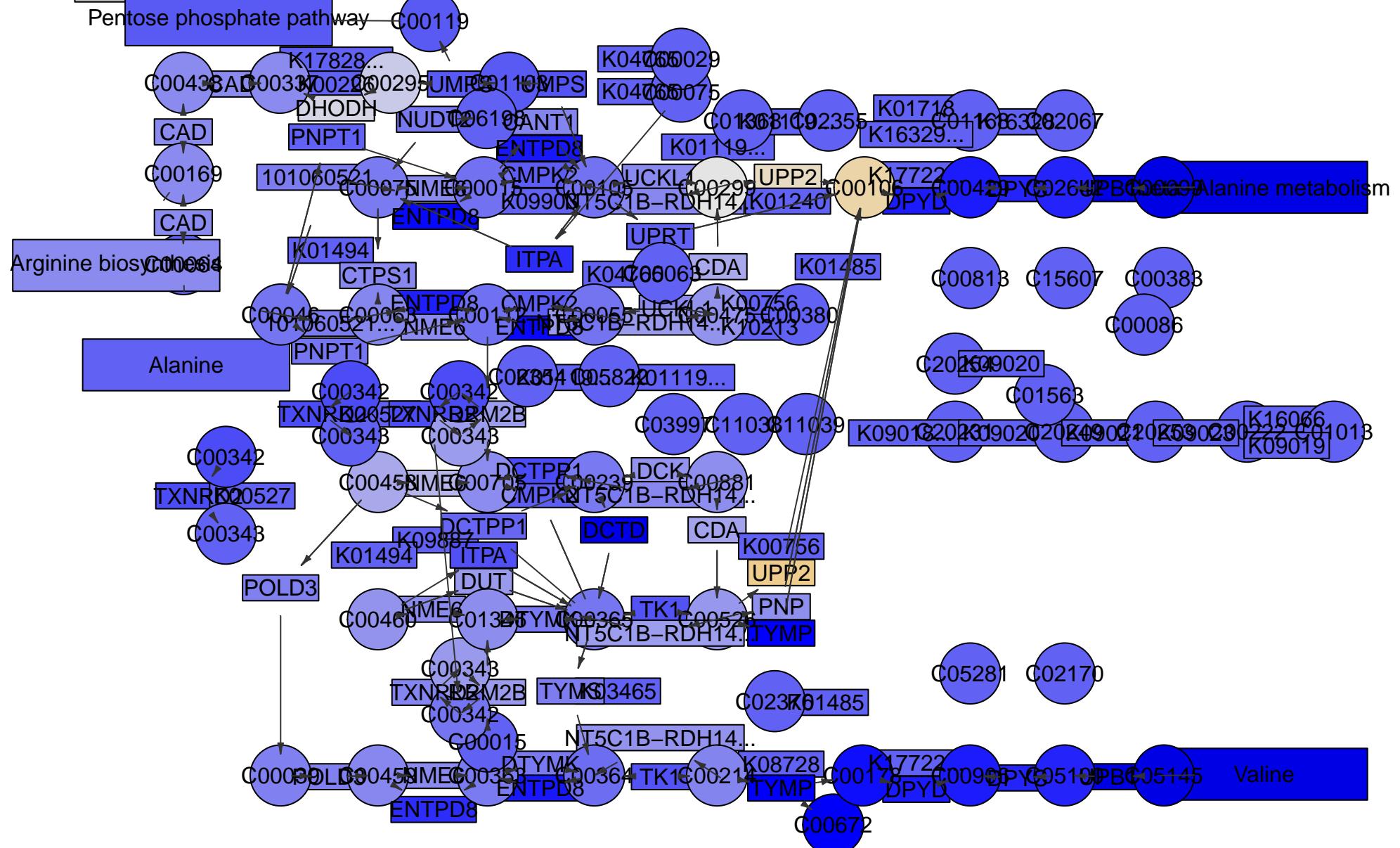


Pyrimidine metabolism

MPI-017

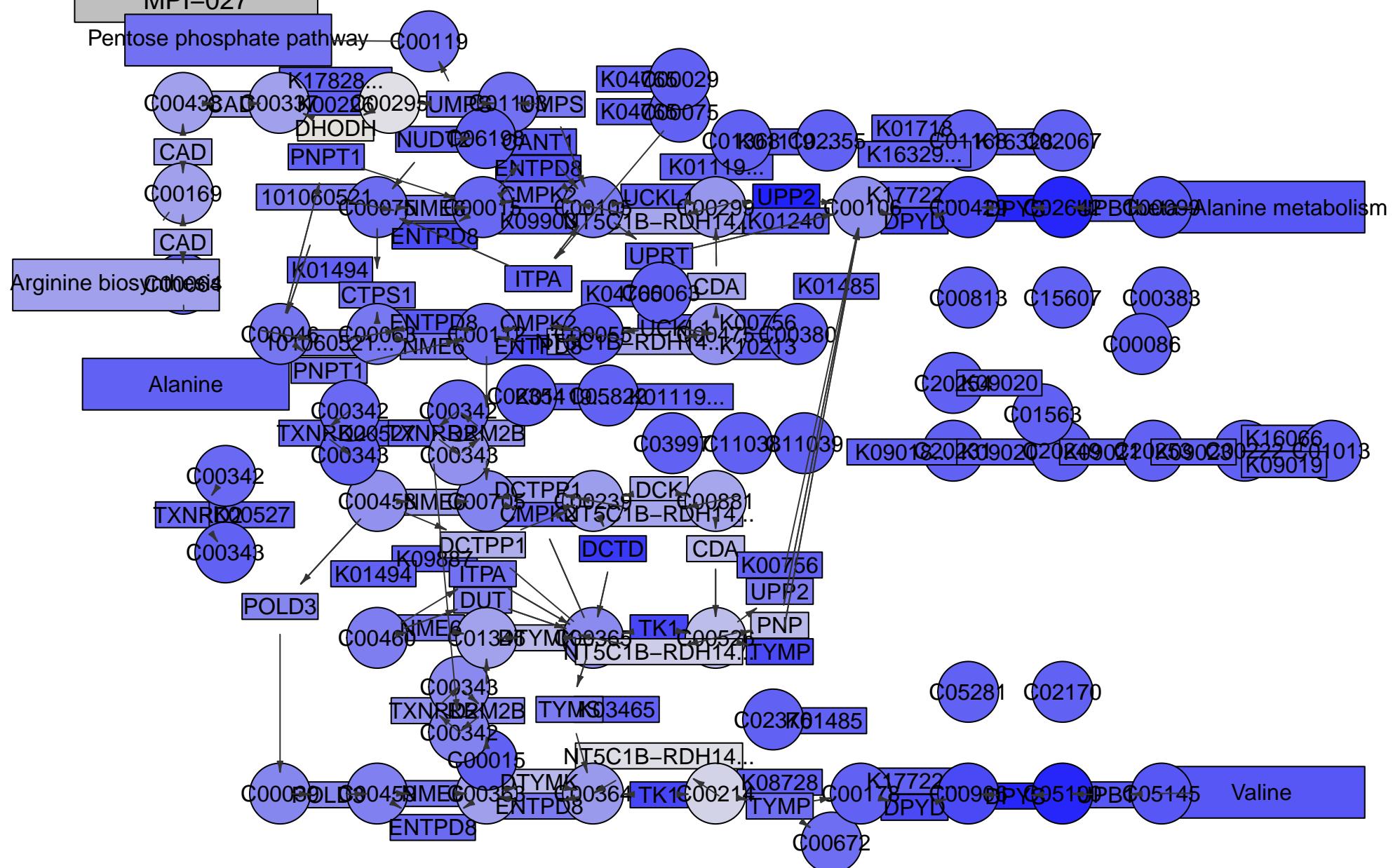


Pyrimidine metabolism
MPI-018

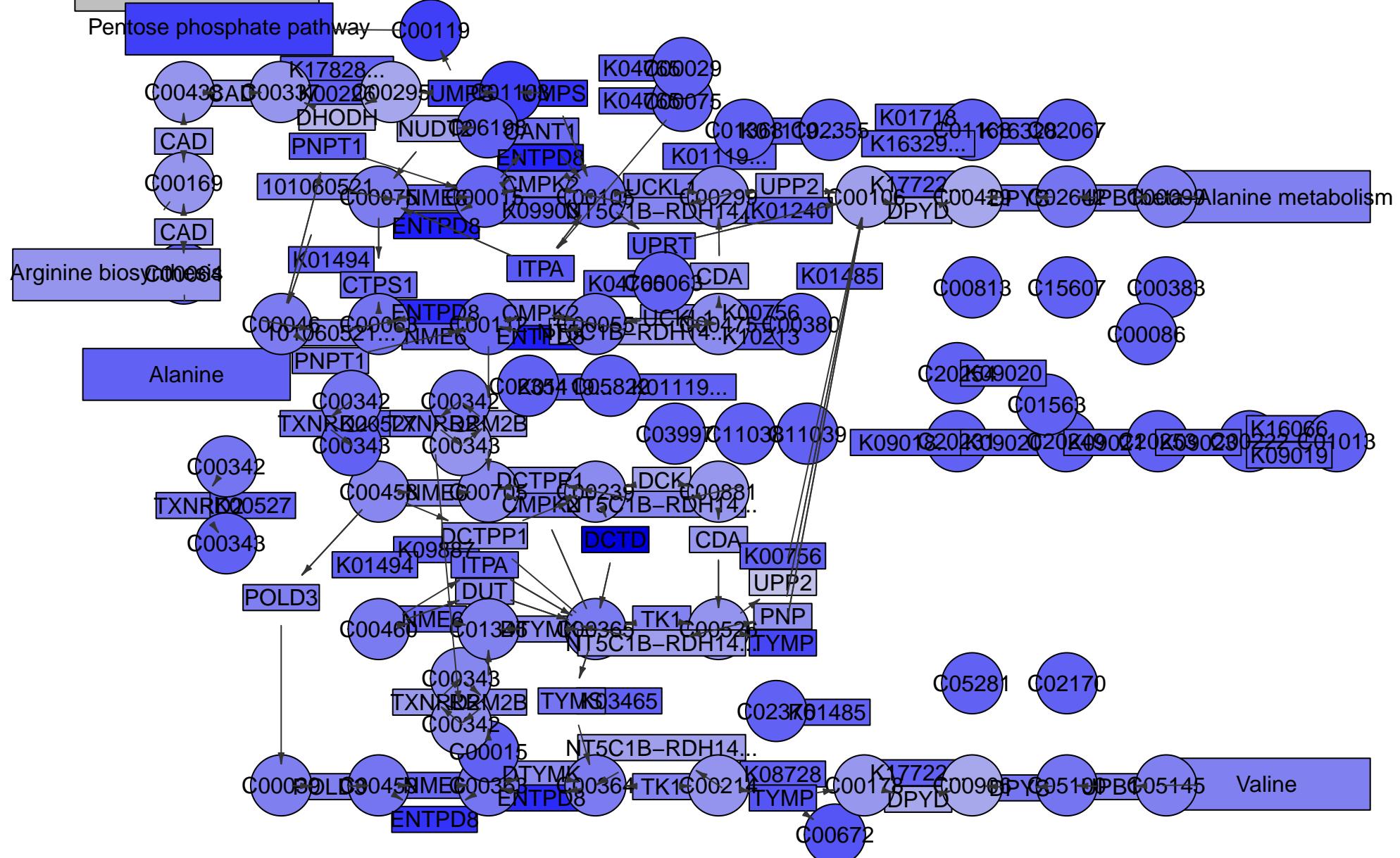


Pyrimidine metabolism

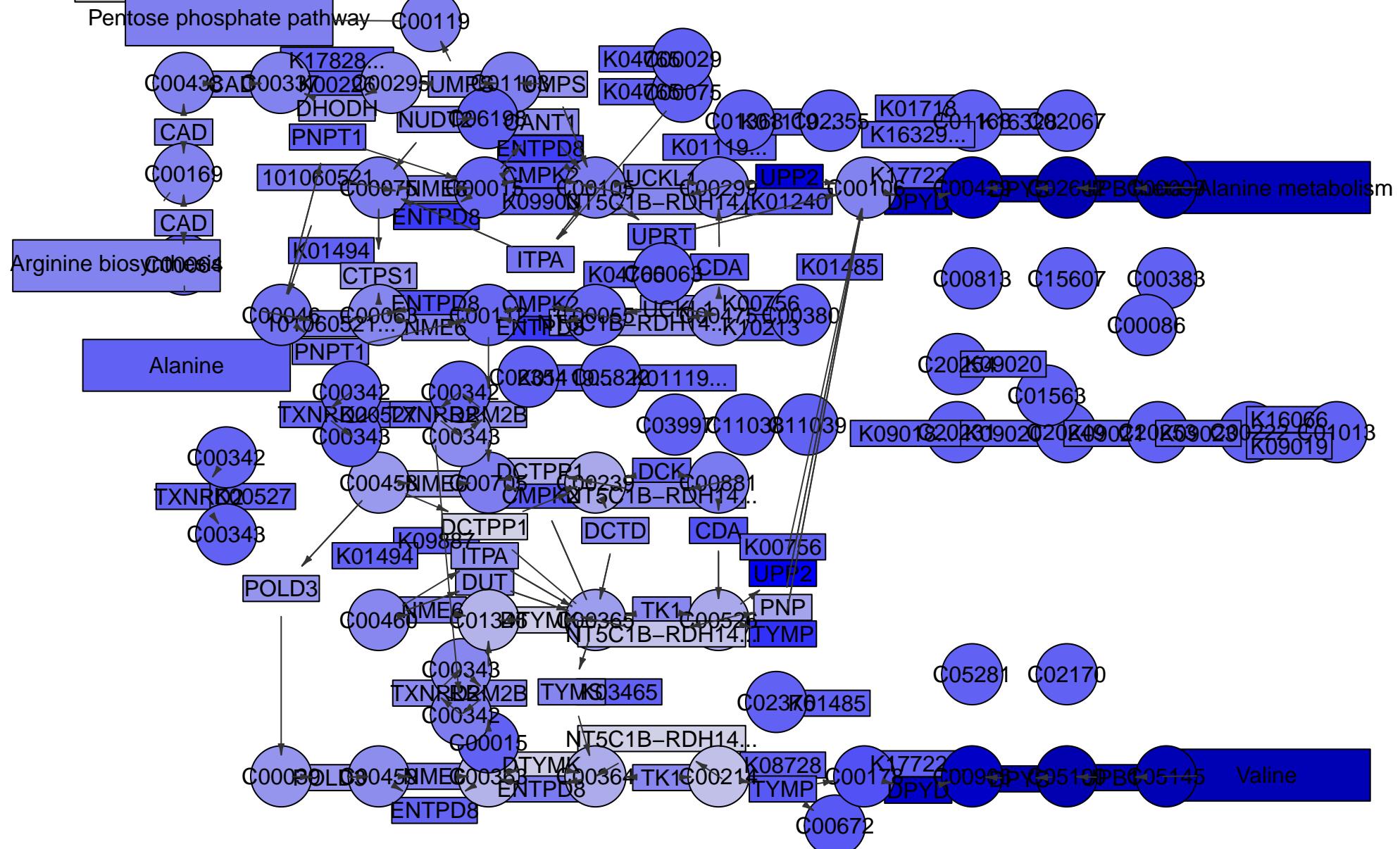
MPI-027



Pyrimidine metabolism
MPI-028

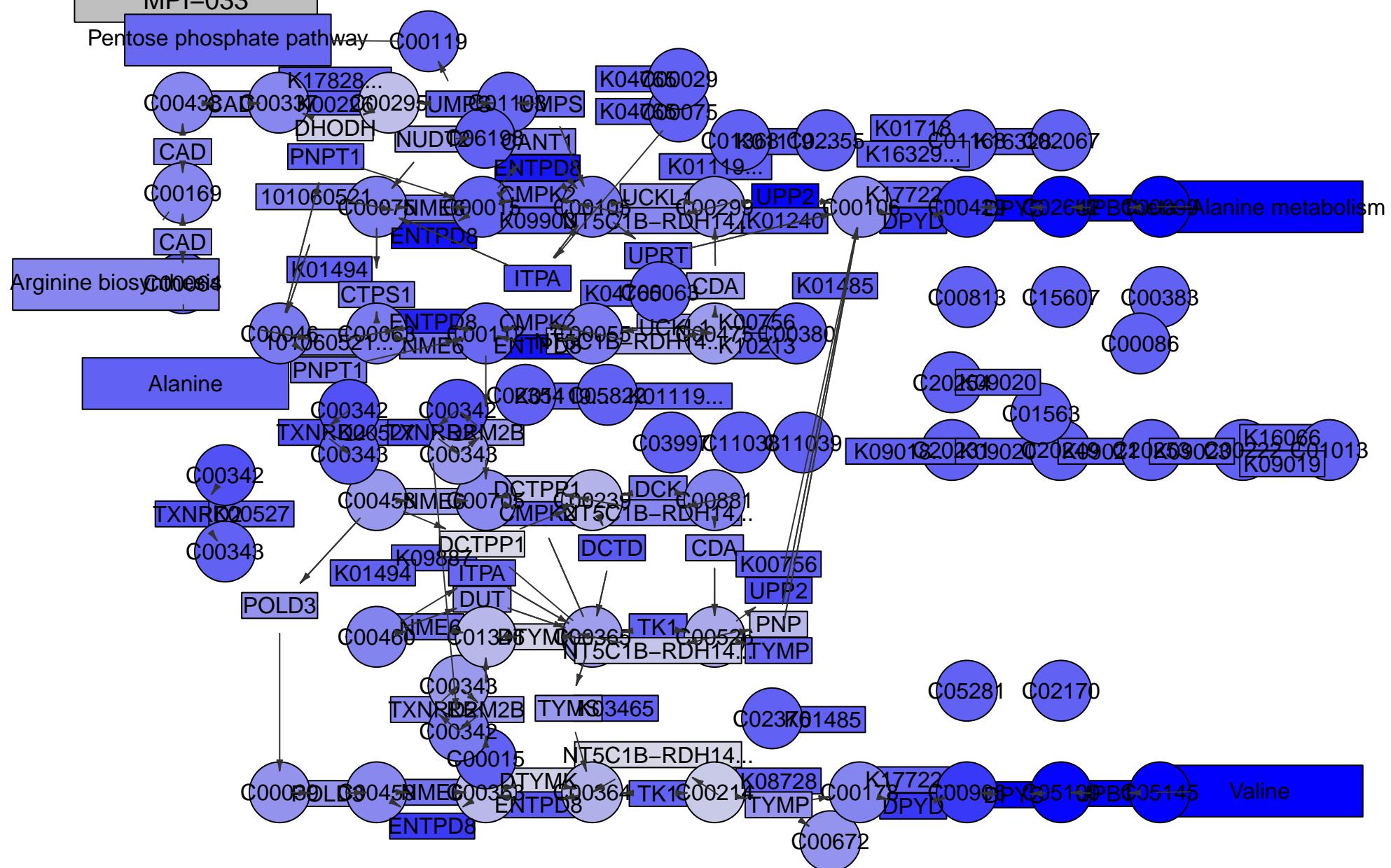


Pyrimidine metabolism
MPI-032



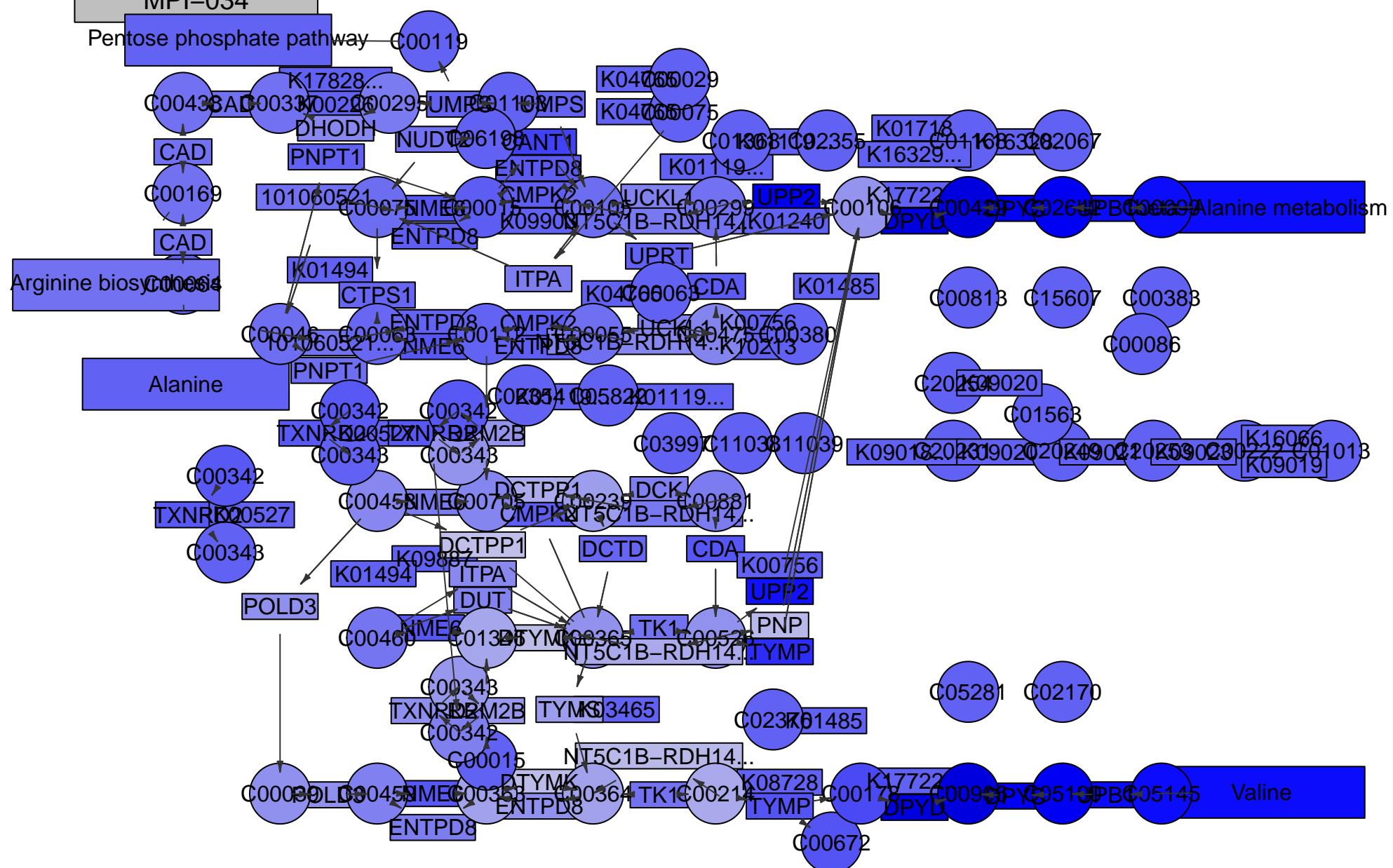
Pyrimidine metabolism

MPI-033



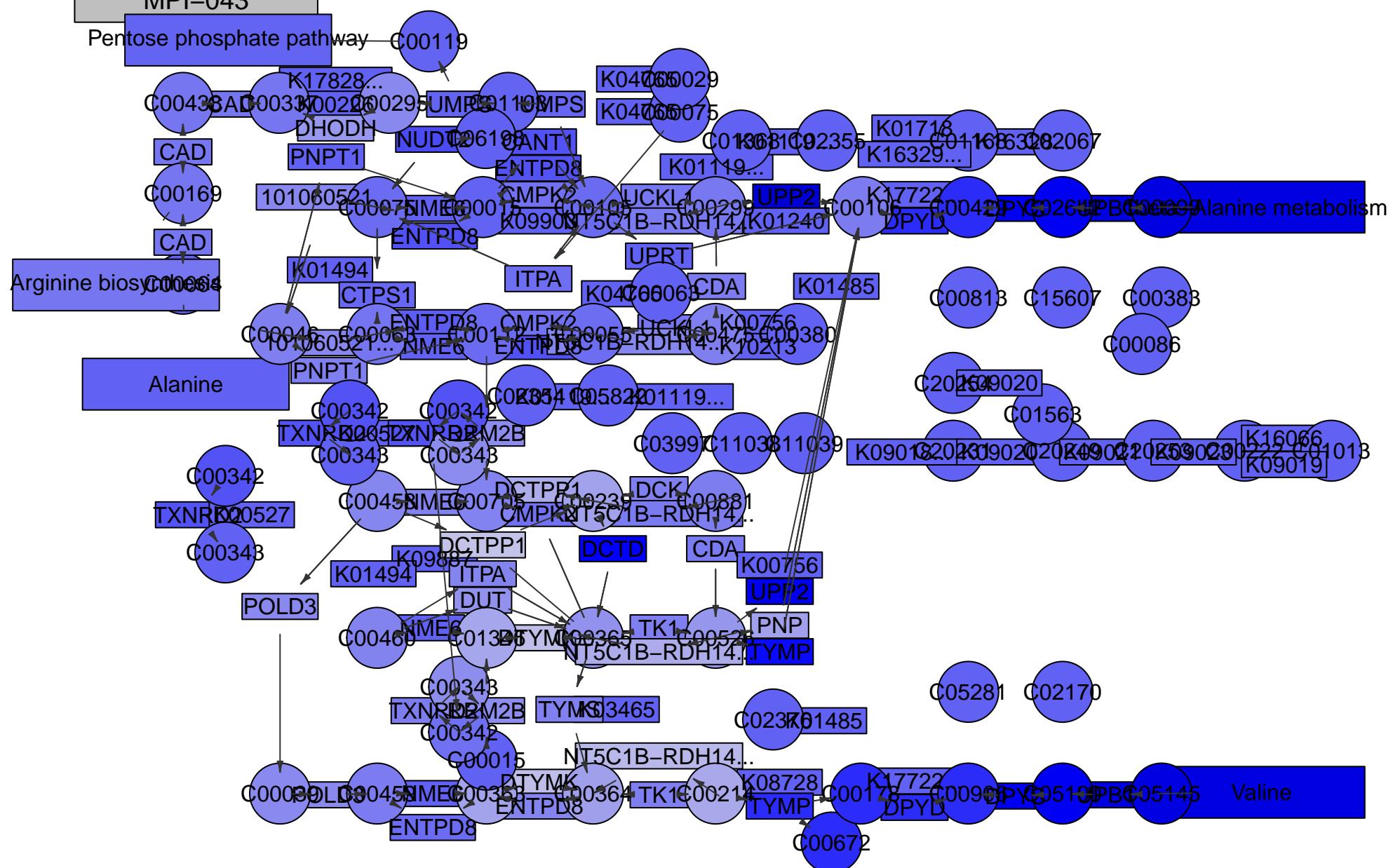
Pyrimidine metabolism

MPI-034

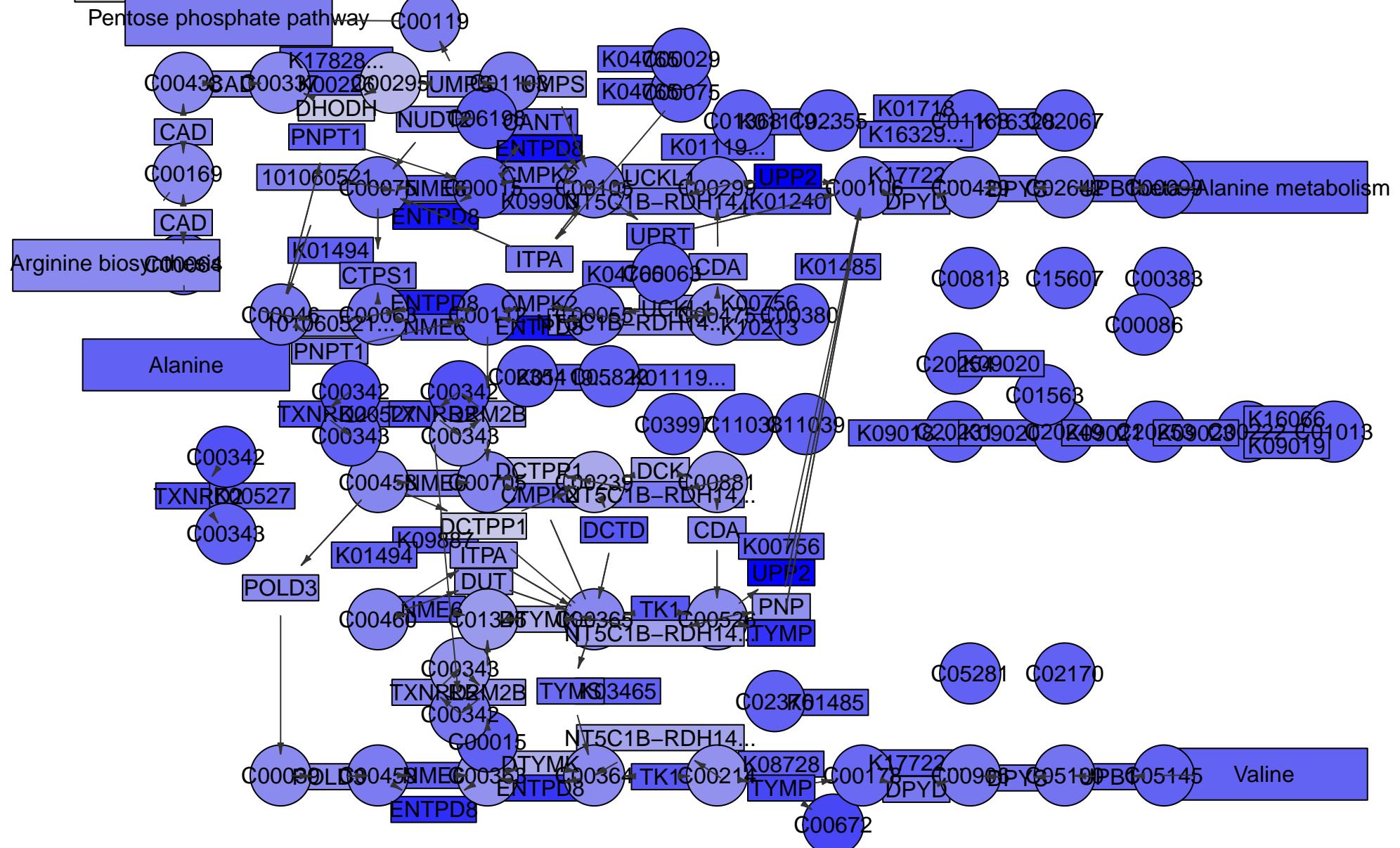


Pyrimidine metabolism

MPI-043

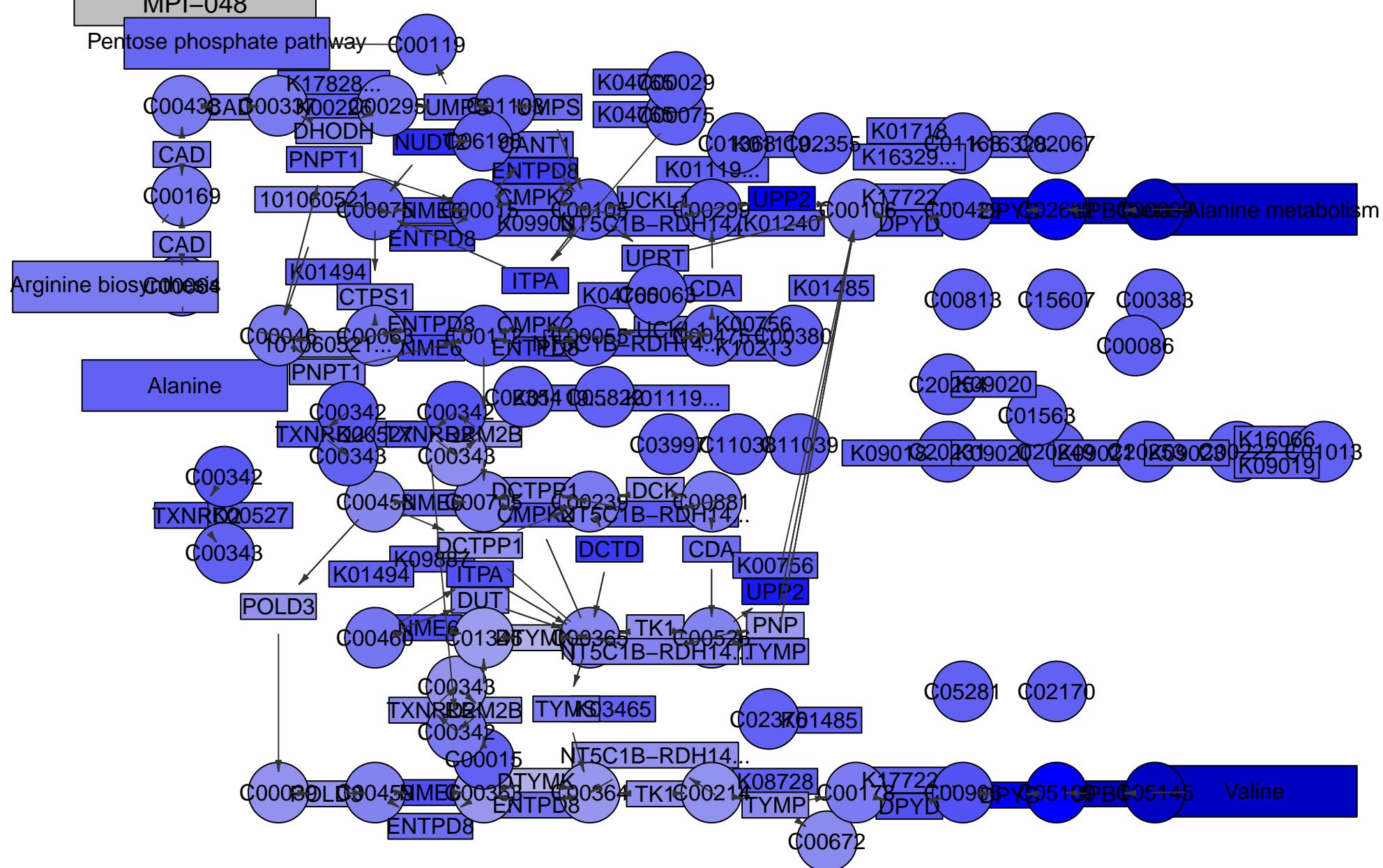


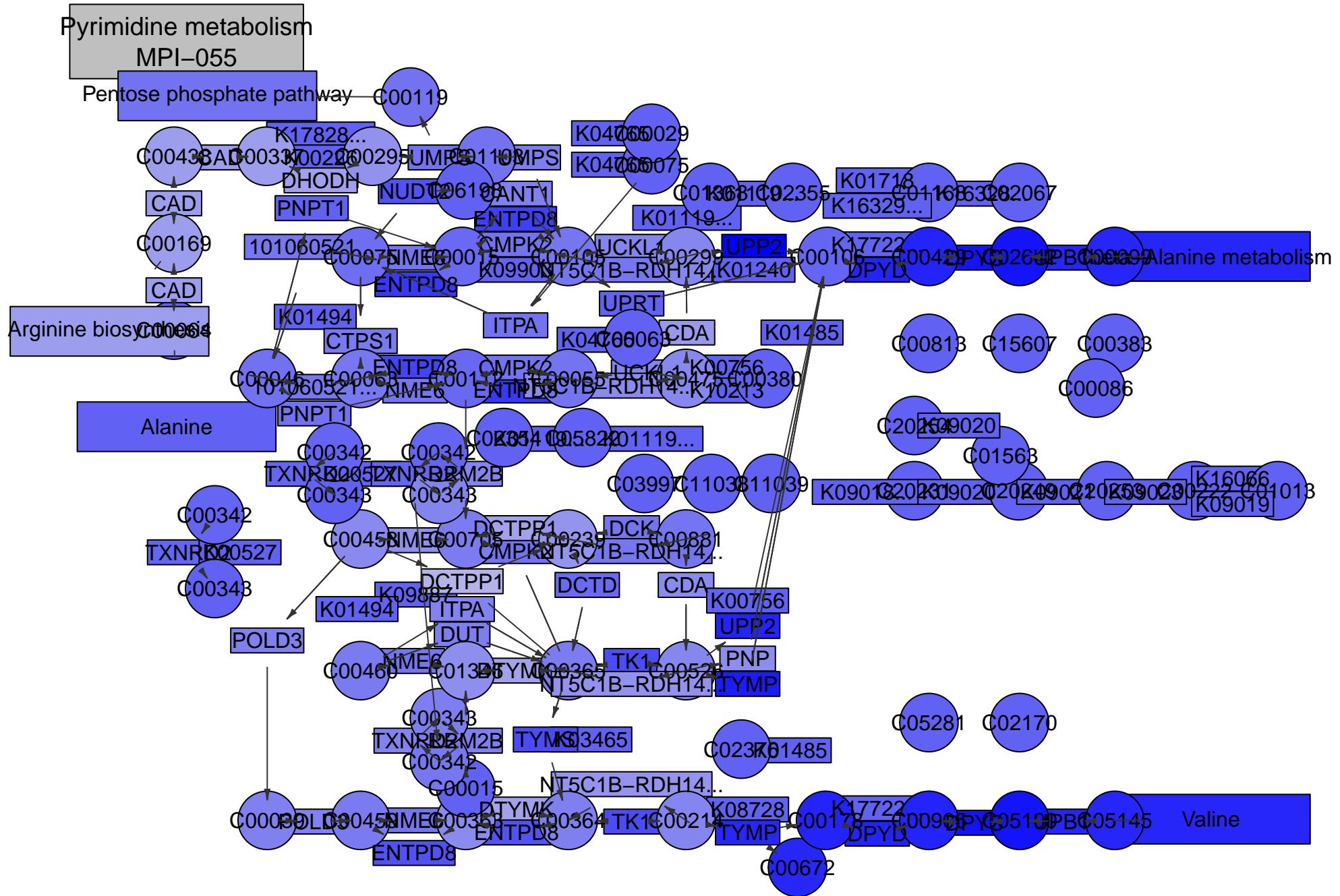
Pyrimidine metabolism
MPI-044



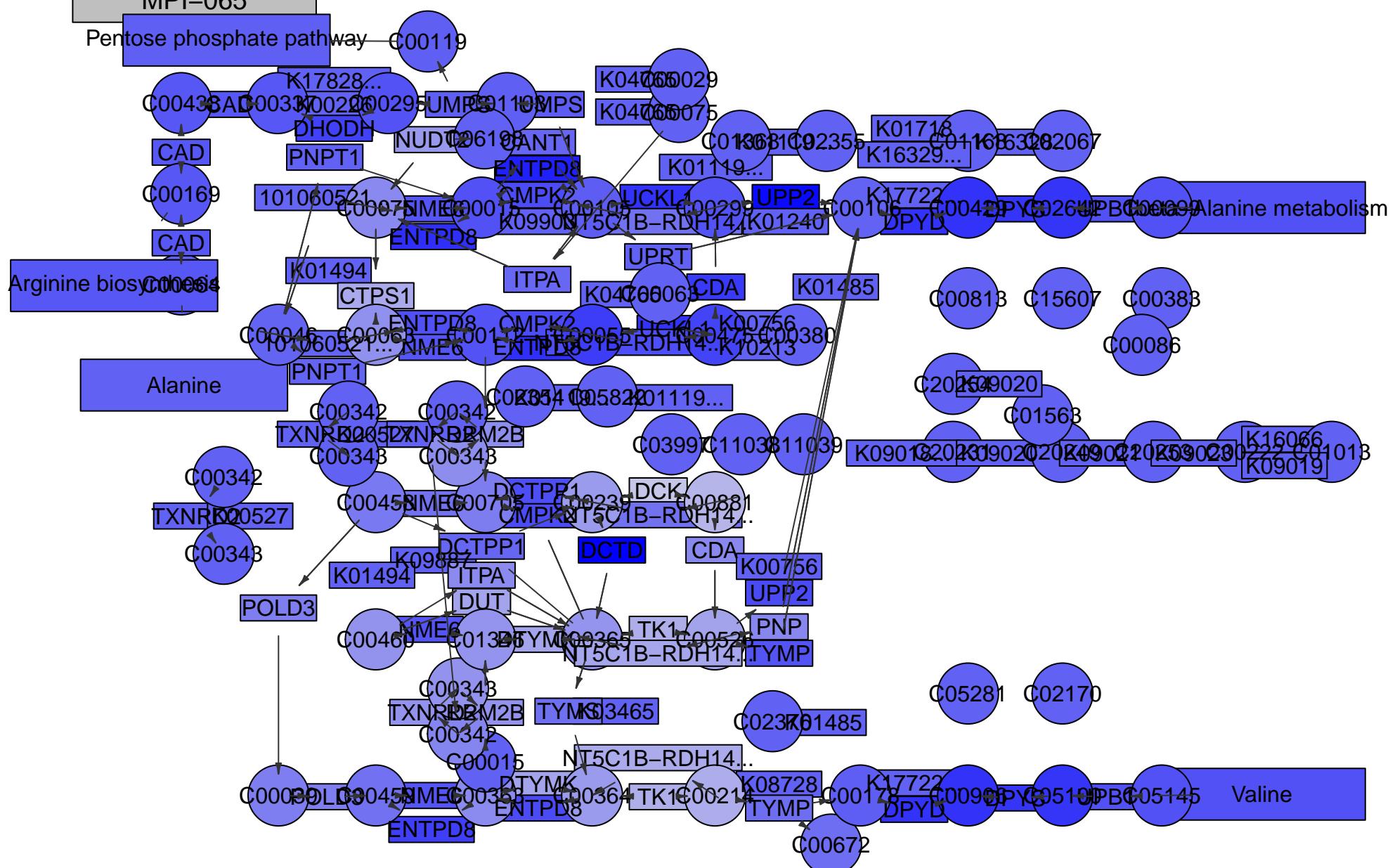
Pyrimidine metabolism

MPI-048



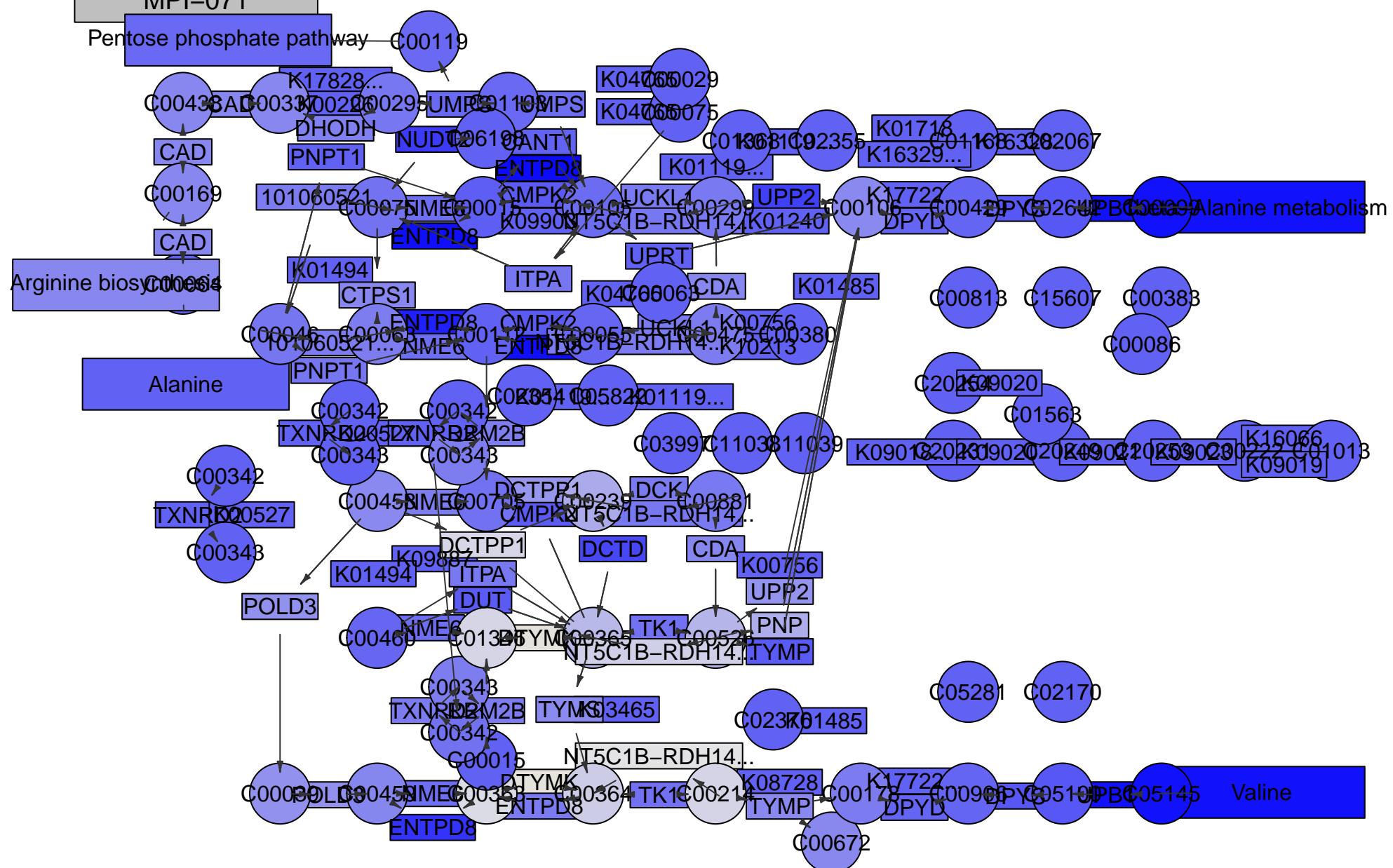


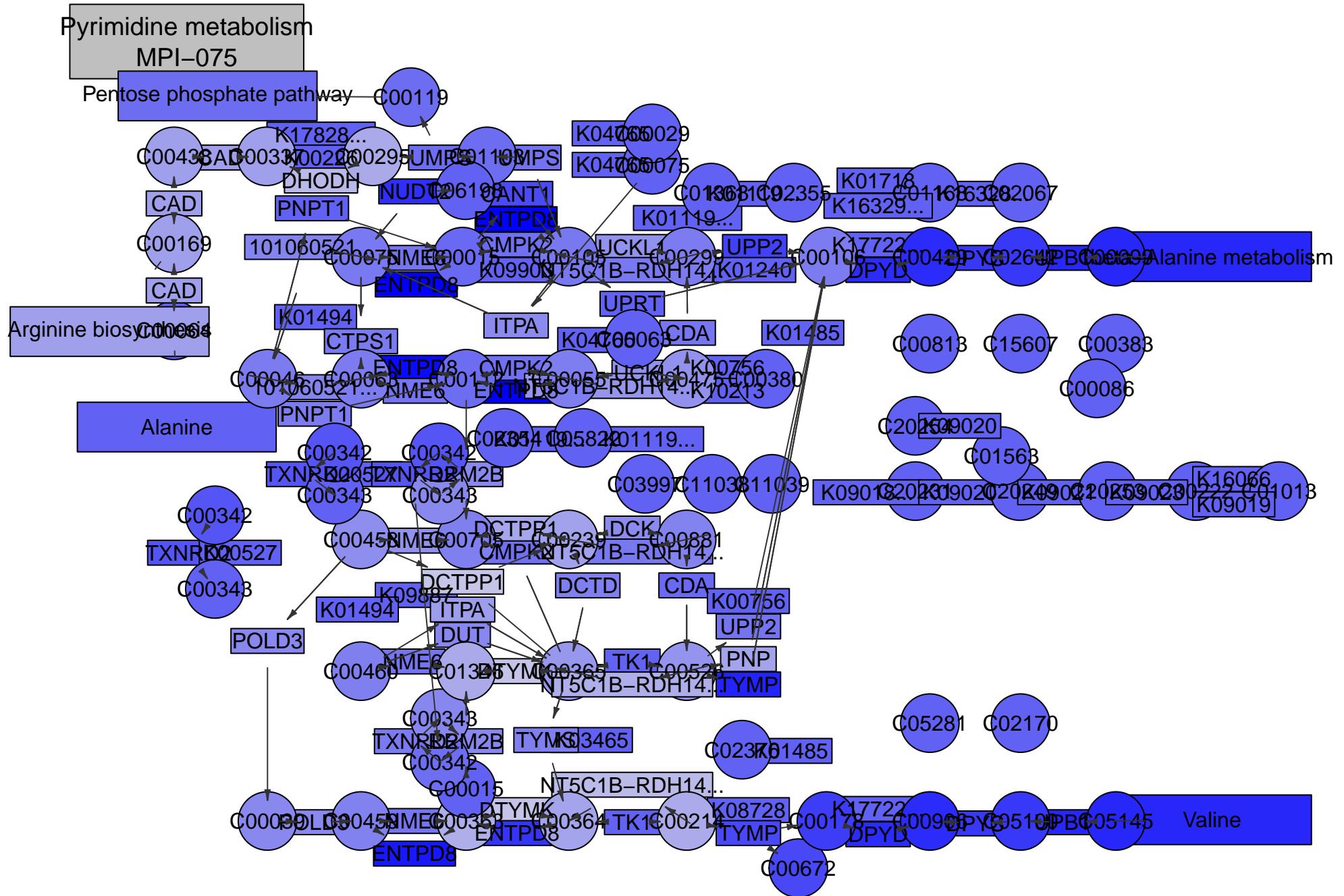
Pyrimidine metabolism
MPI-065



Pyrimidine metabolism

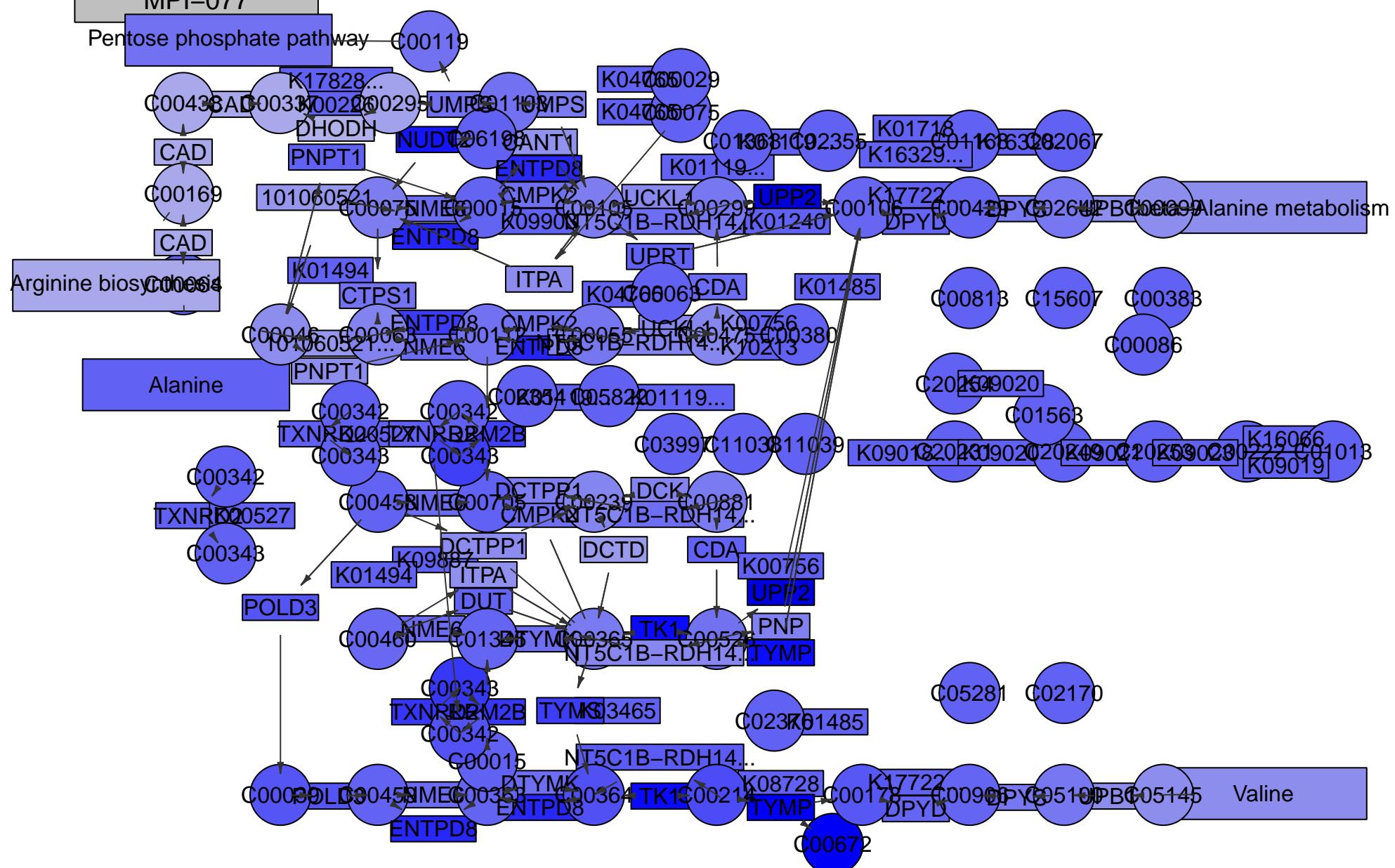
MPI-071





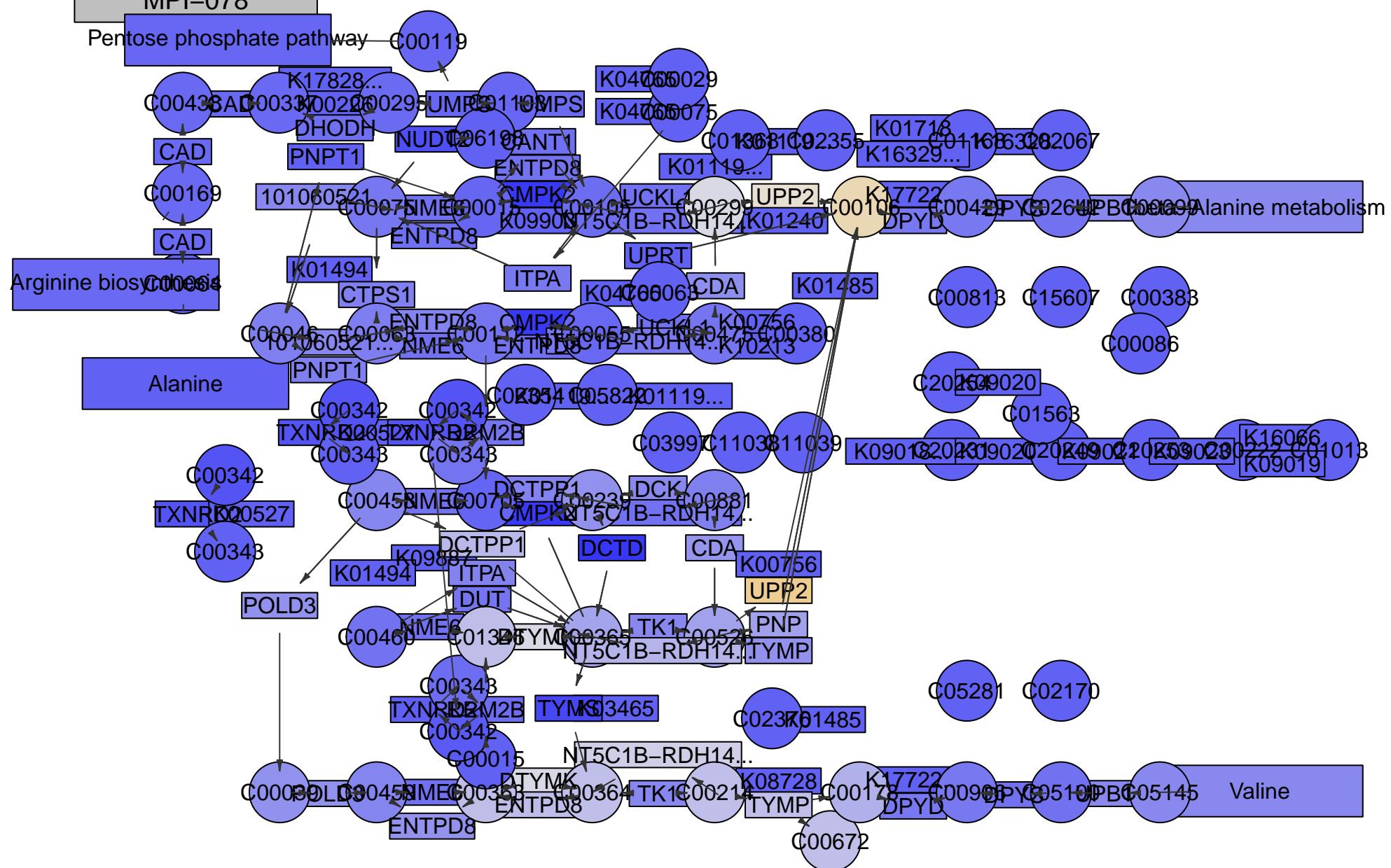
Pyrimidine metabolism

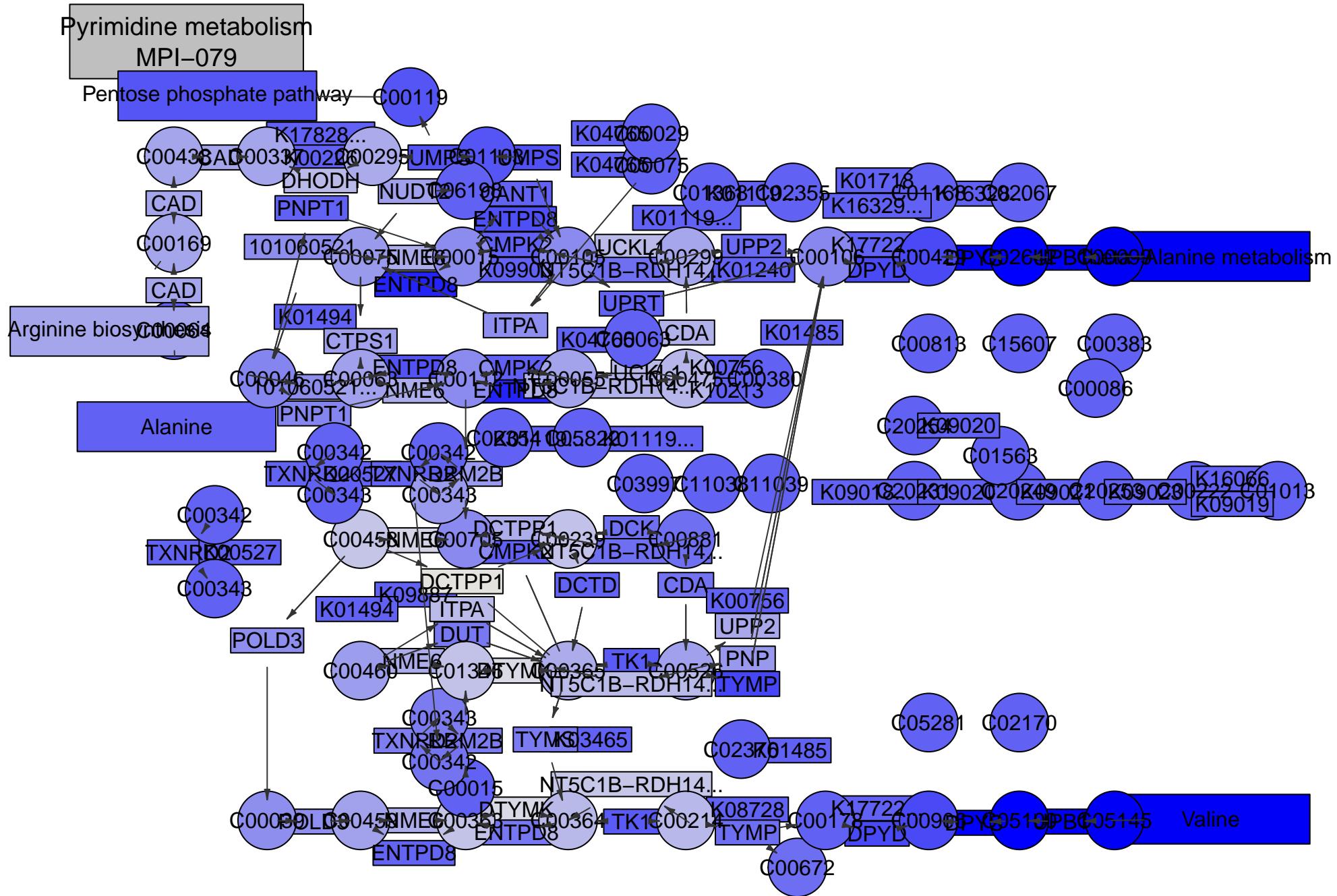
MPI-077

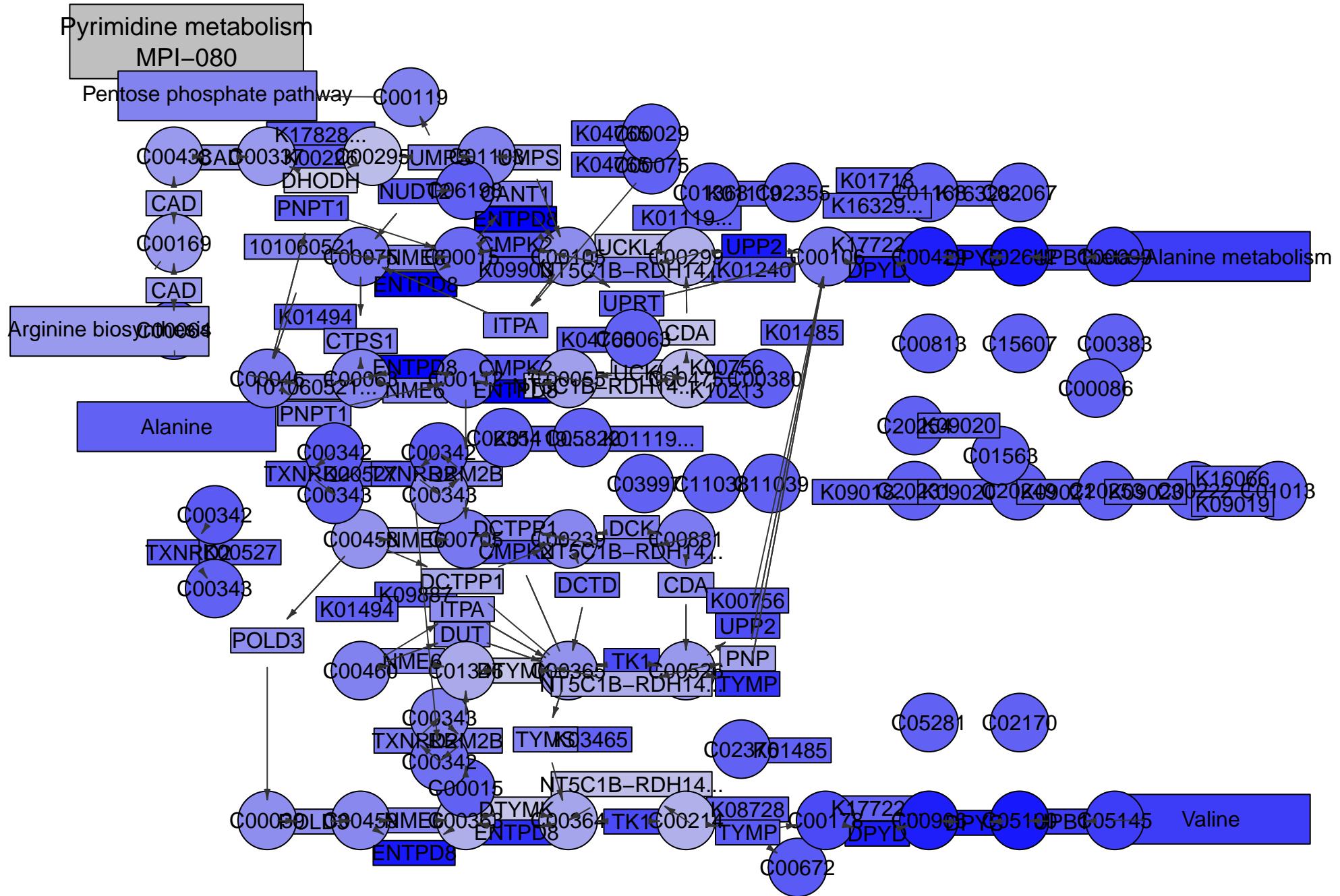


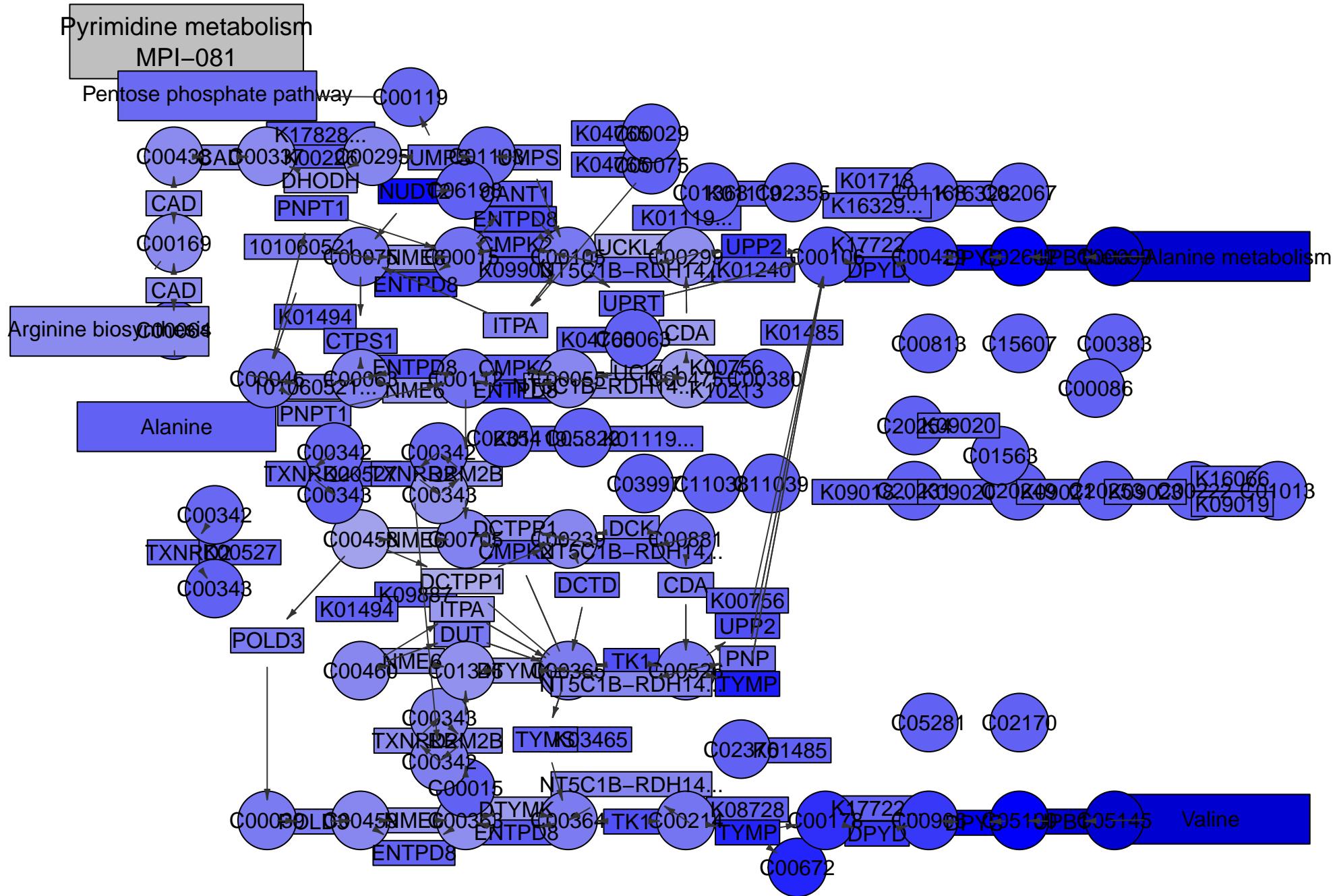
Pyrimidine metabolism

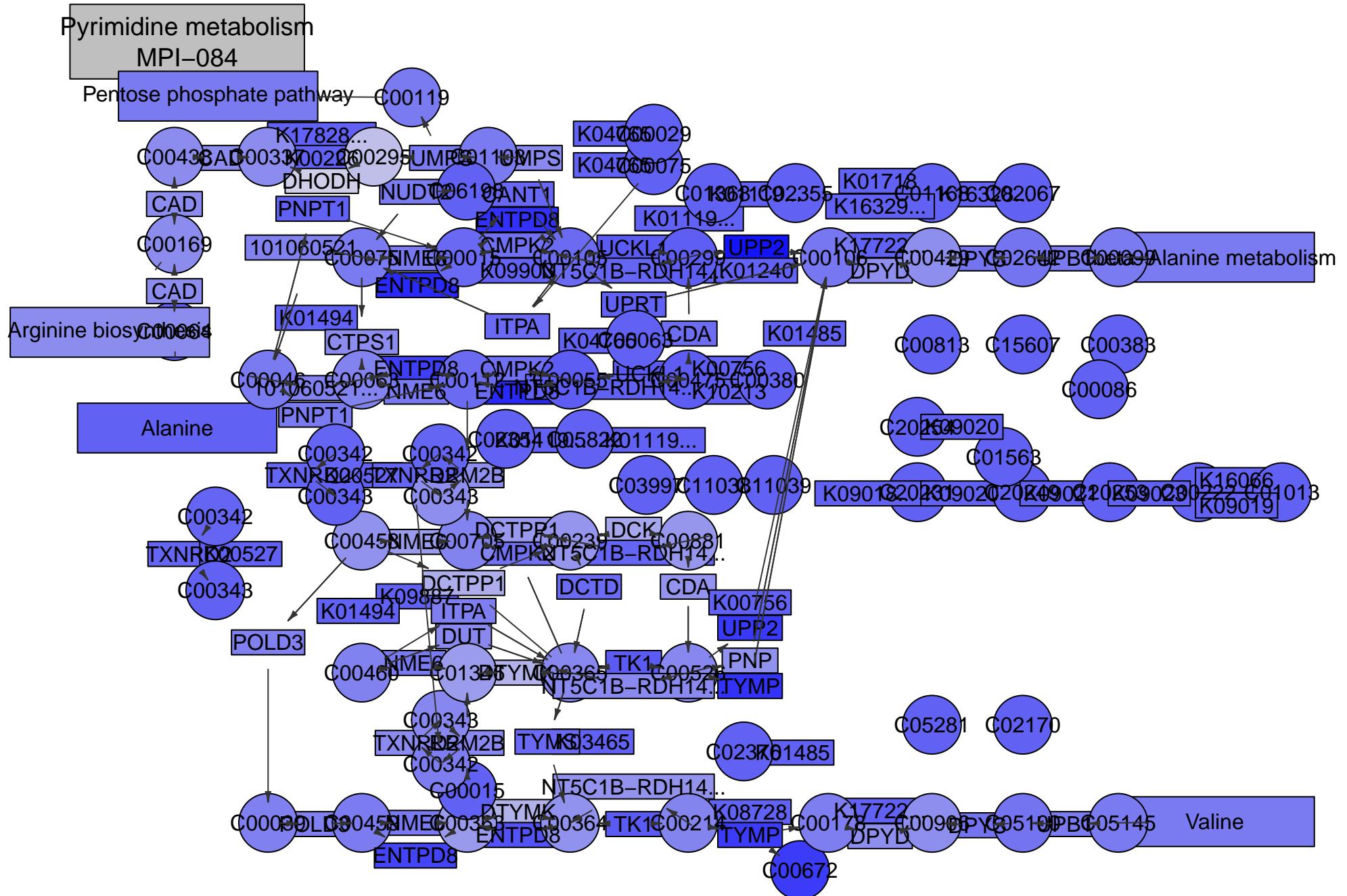
MPI-078



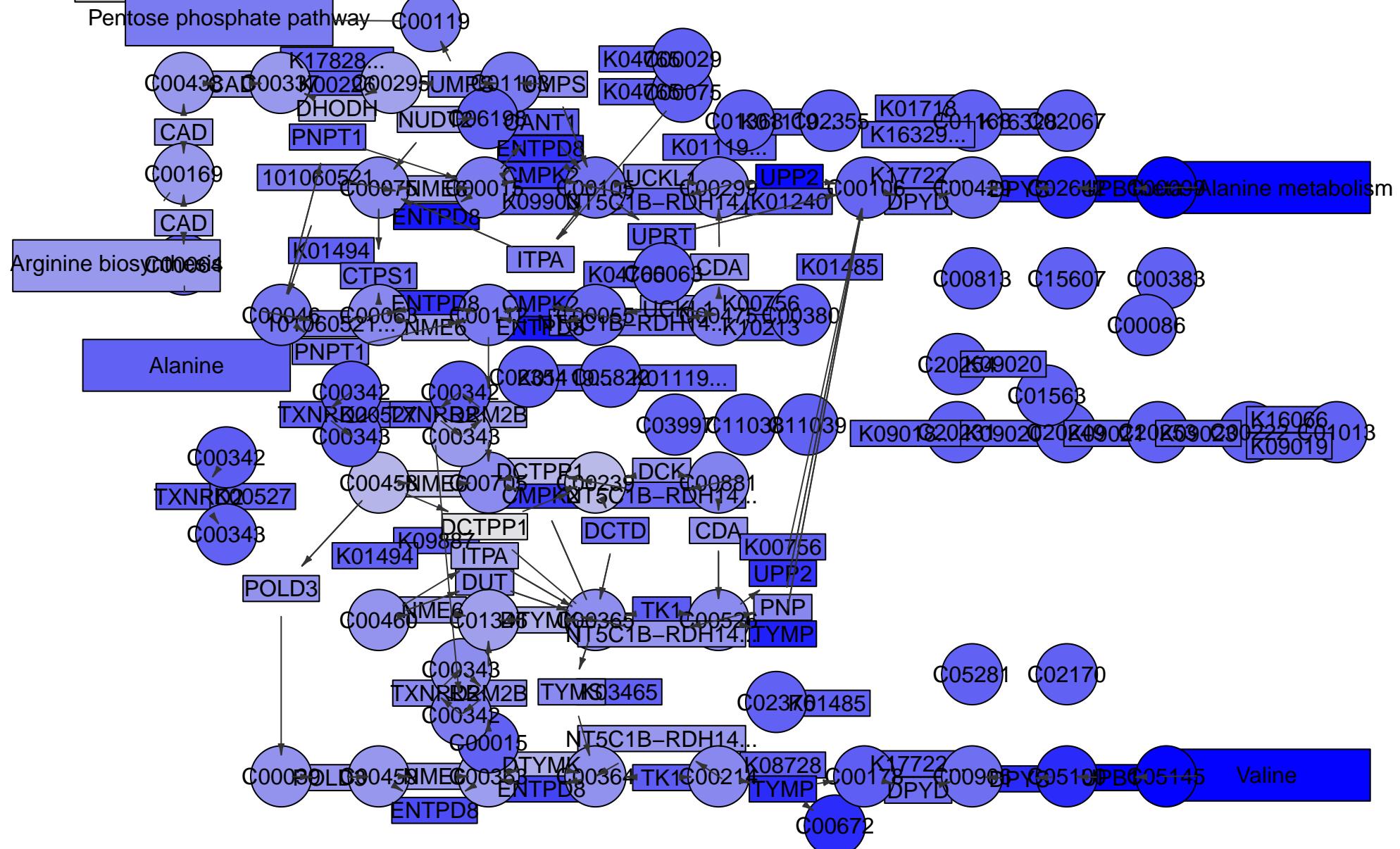




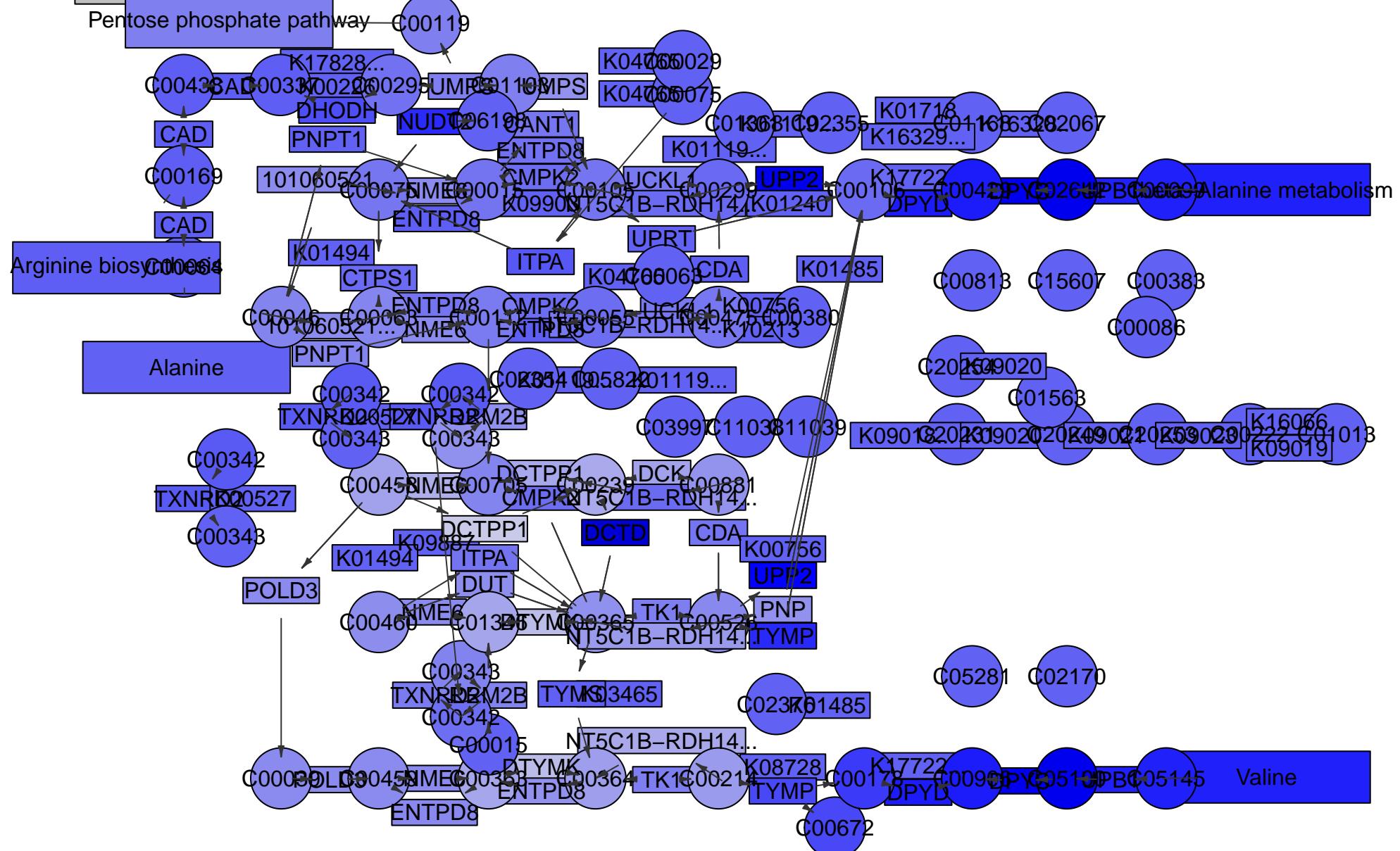




Pyrimidine metabolism
MPI-085

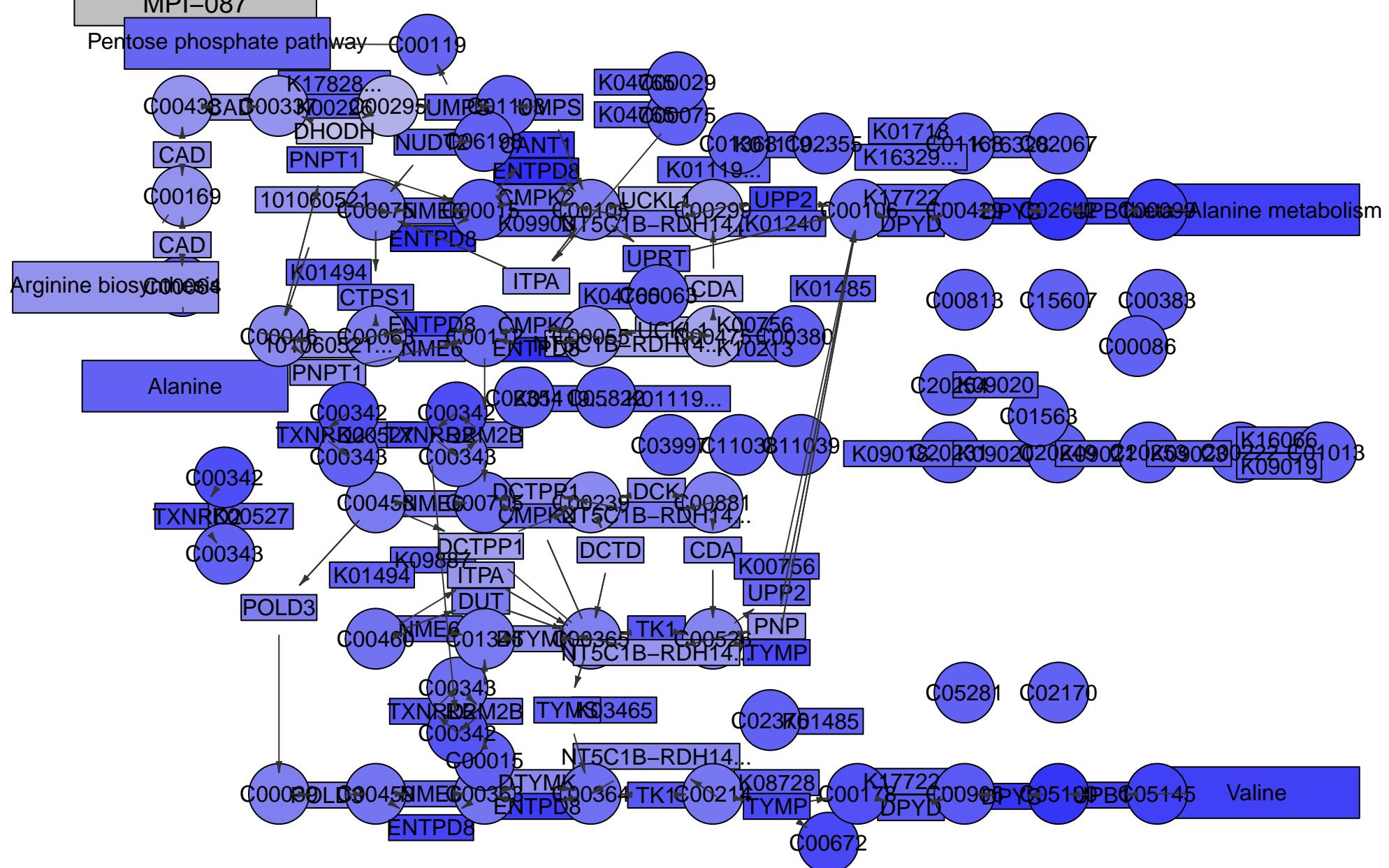


Pyrimidine metabolism
MPI-086

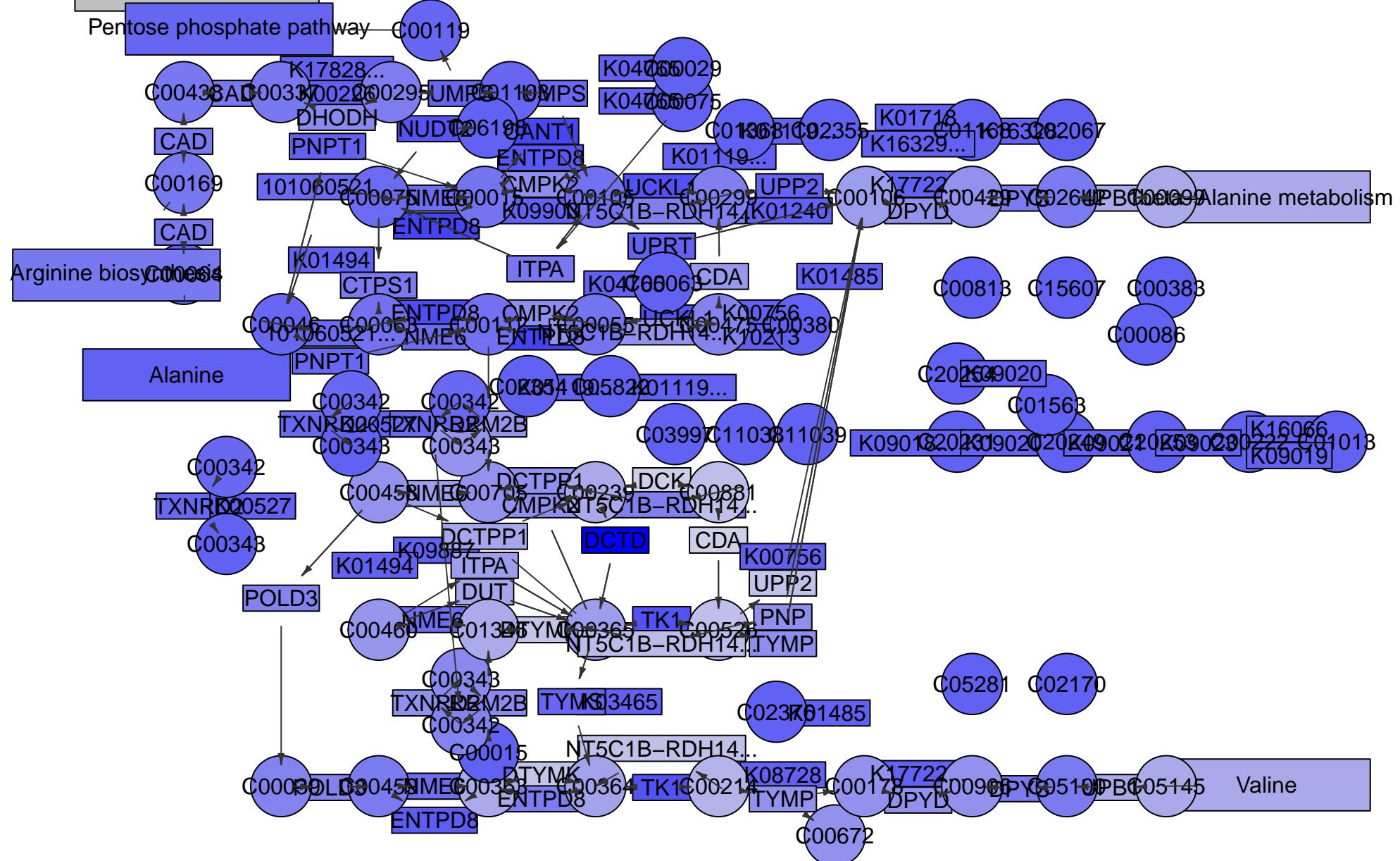


Pyrimidine metabolism

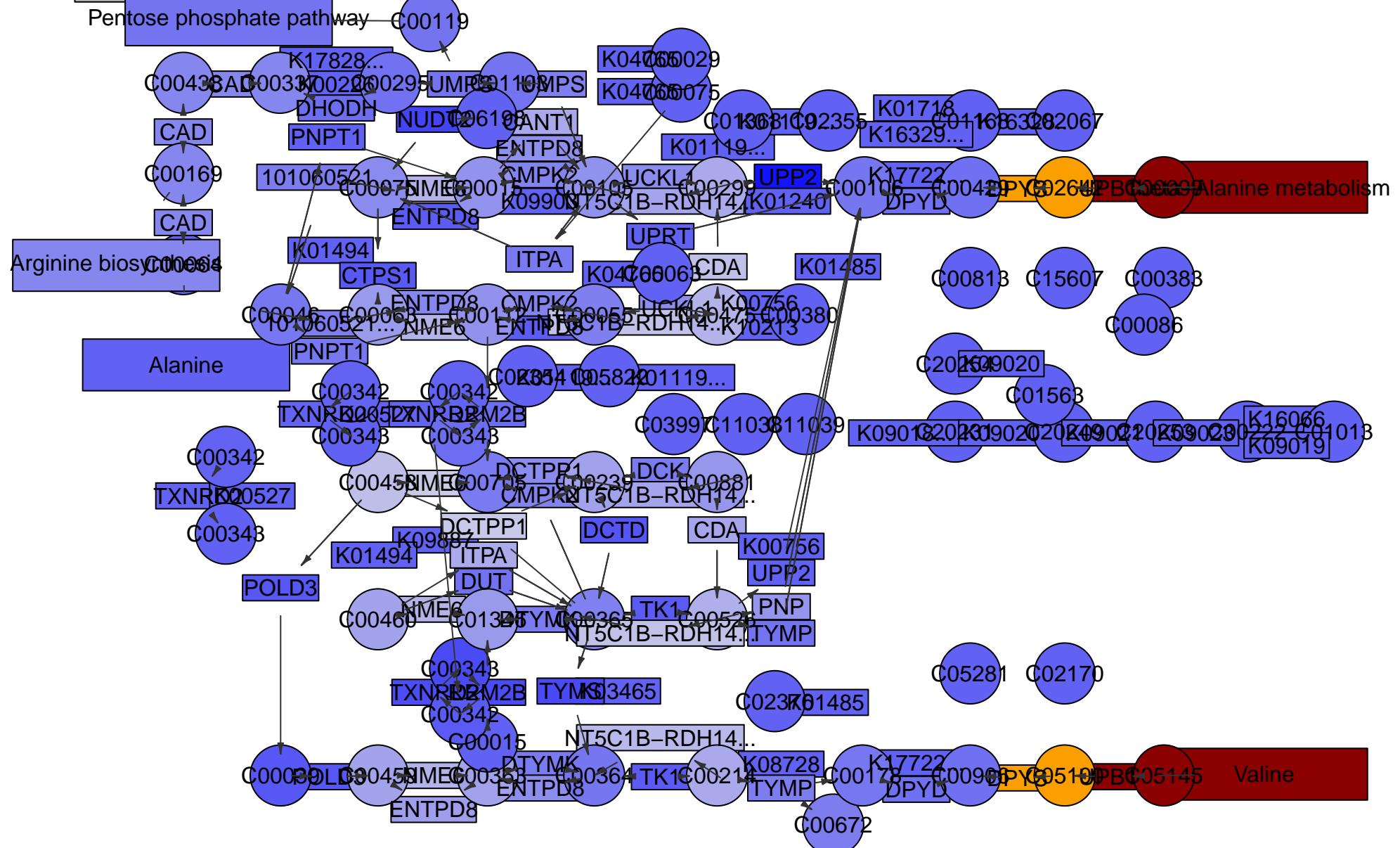
MPI-087



Pyrimidine metabolism
MPI-089



Pyrimidine metabolism
MPI-090



Pyrimidine metabolism
MPI-091

Pentose phosphate pathway

C00119

K17828...
C00433
C00331
C00220
C00295
UMP
C01103
MPS

DHODH

NUDT26105

CANT1

ENTPD8

CMPK2

UCKL1

C00105

K0990N15C1B-RDH14

K01240

UPP2

K00106

K17722

DPYD

C00429

C02602

C00620

Alanine metabolism

Arginine biosy

C00064

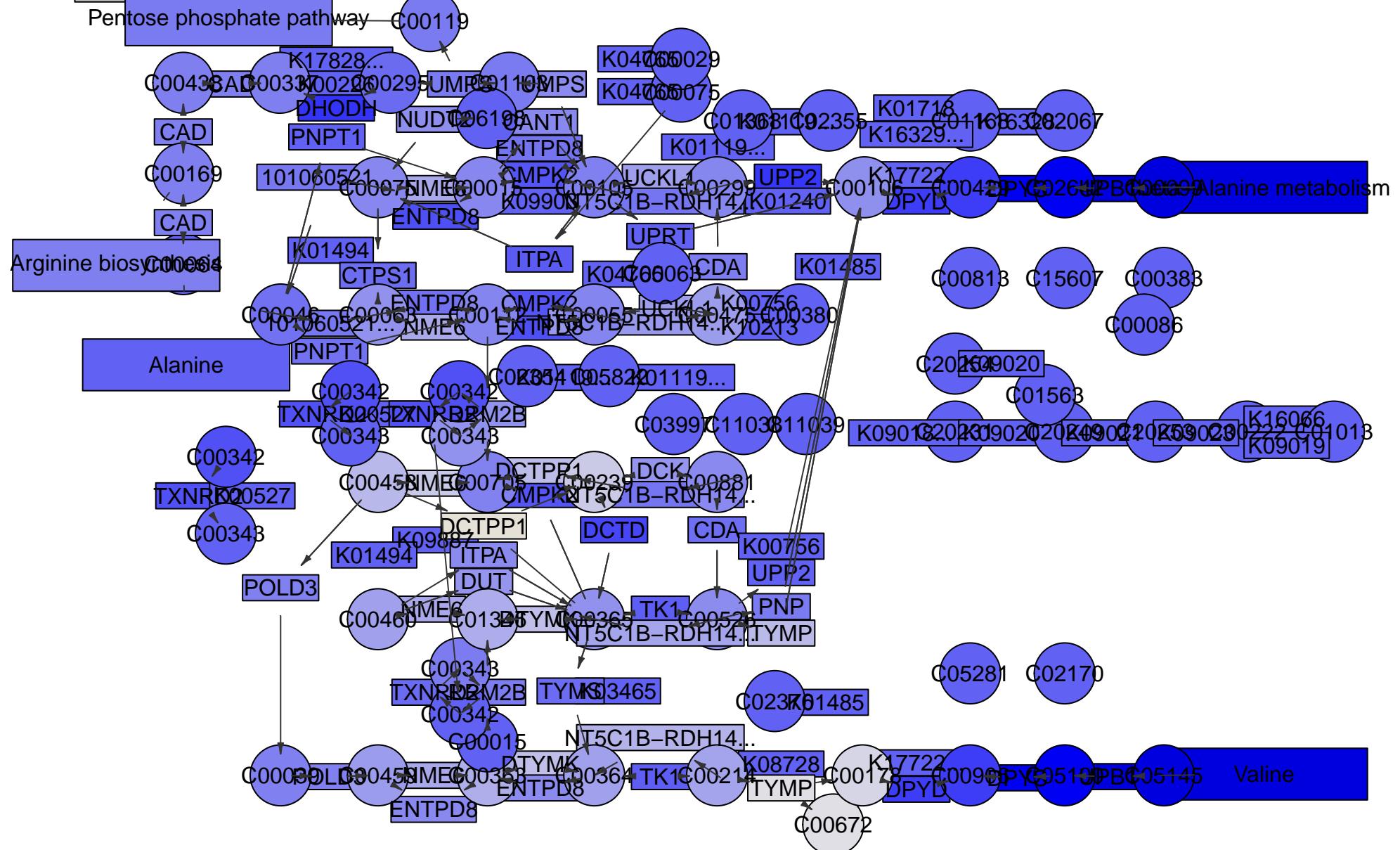
CAD

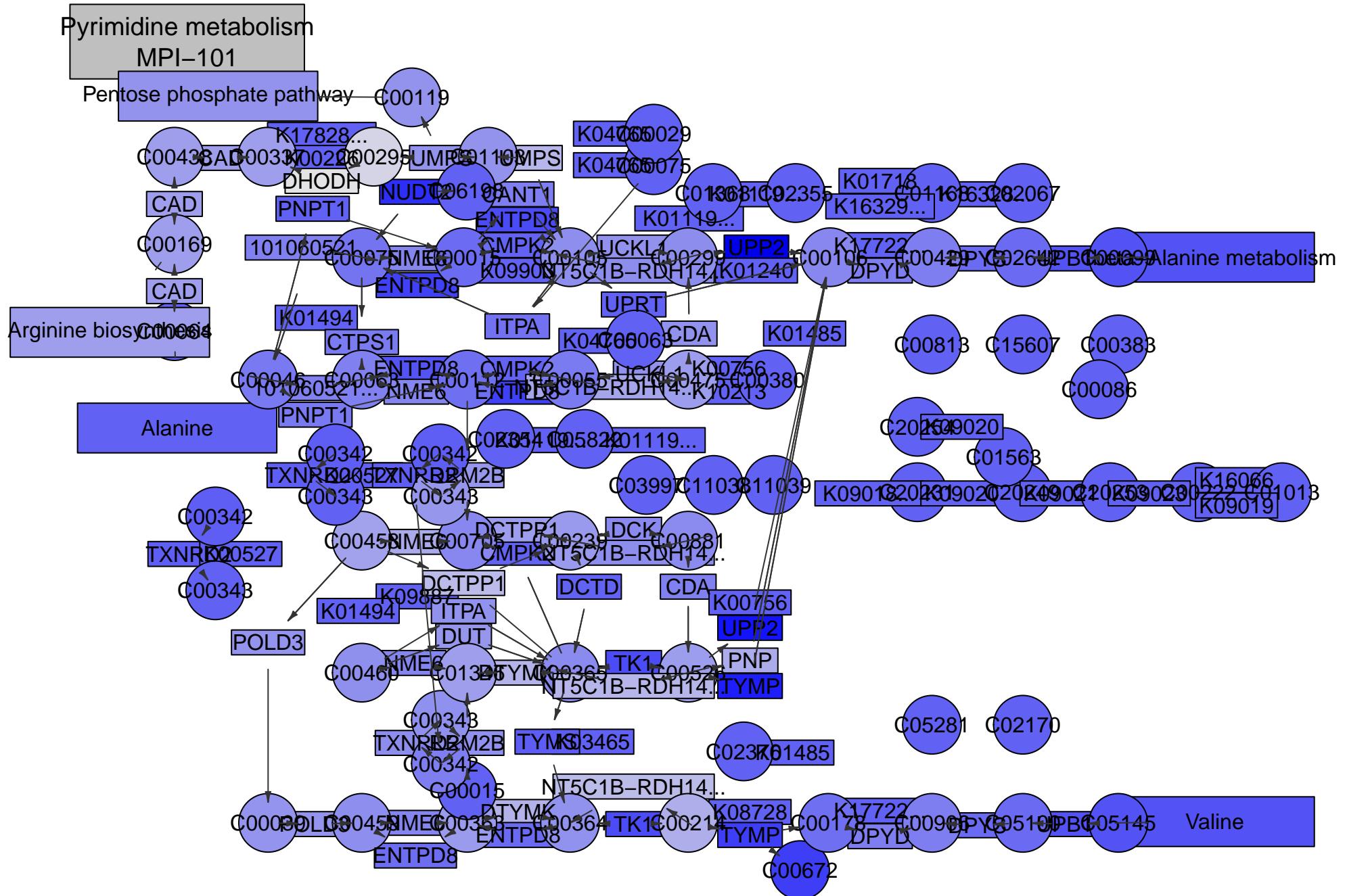
C00169

CAD

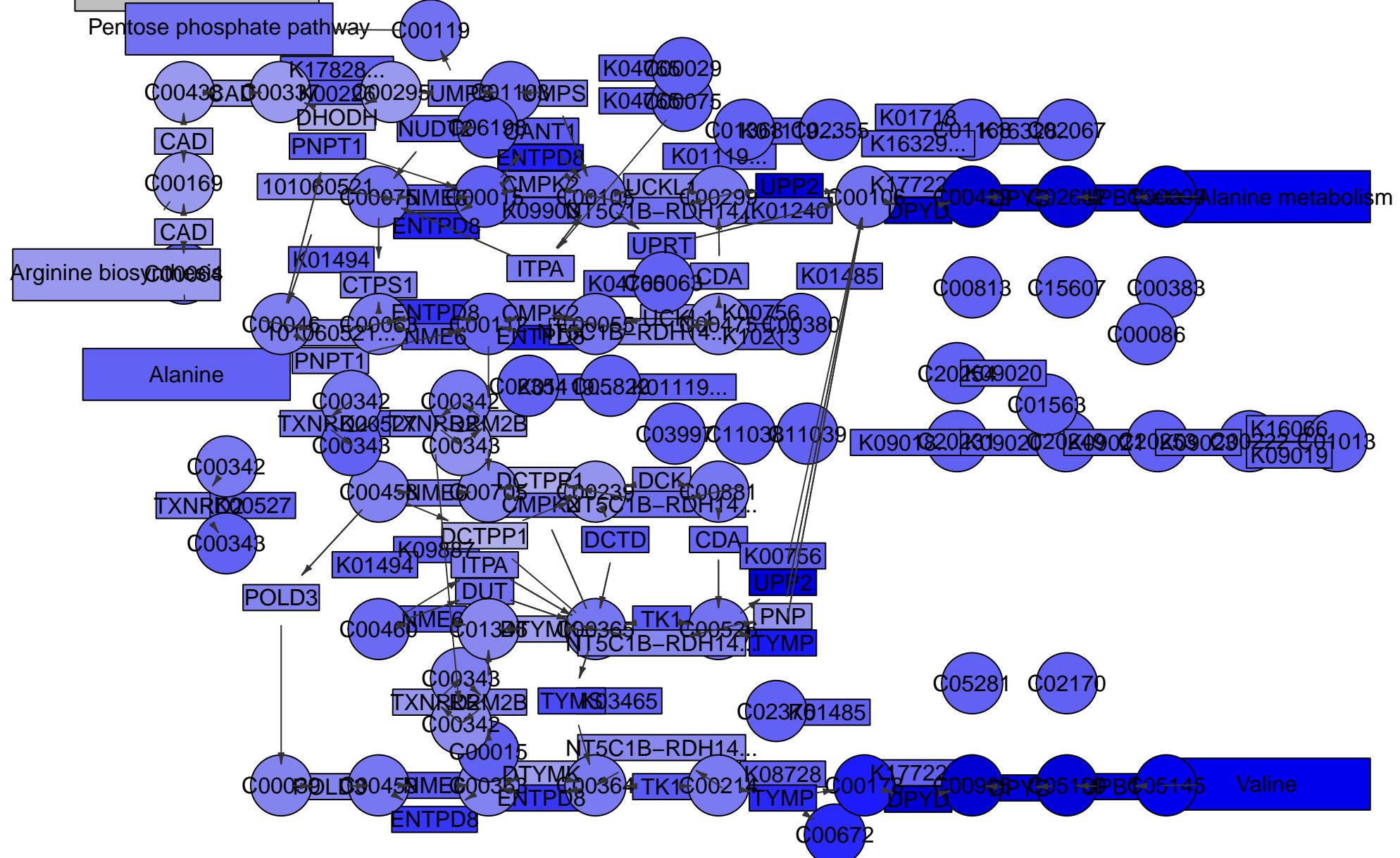
C001

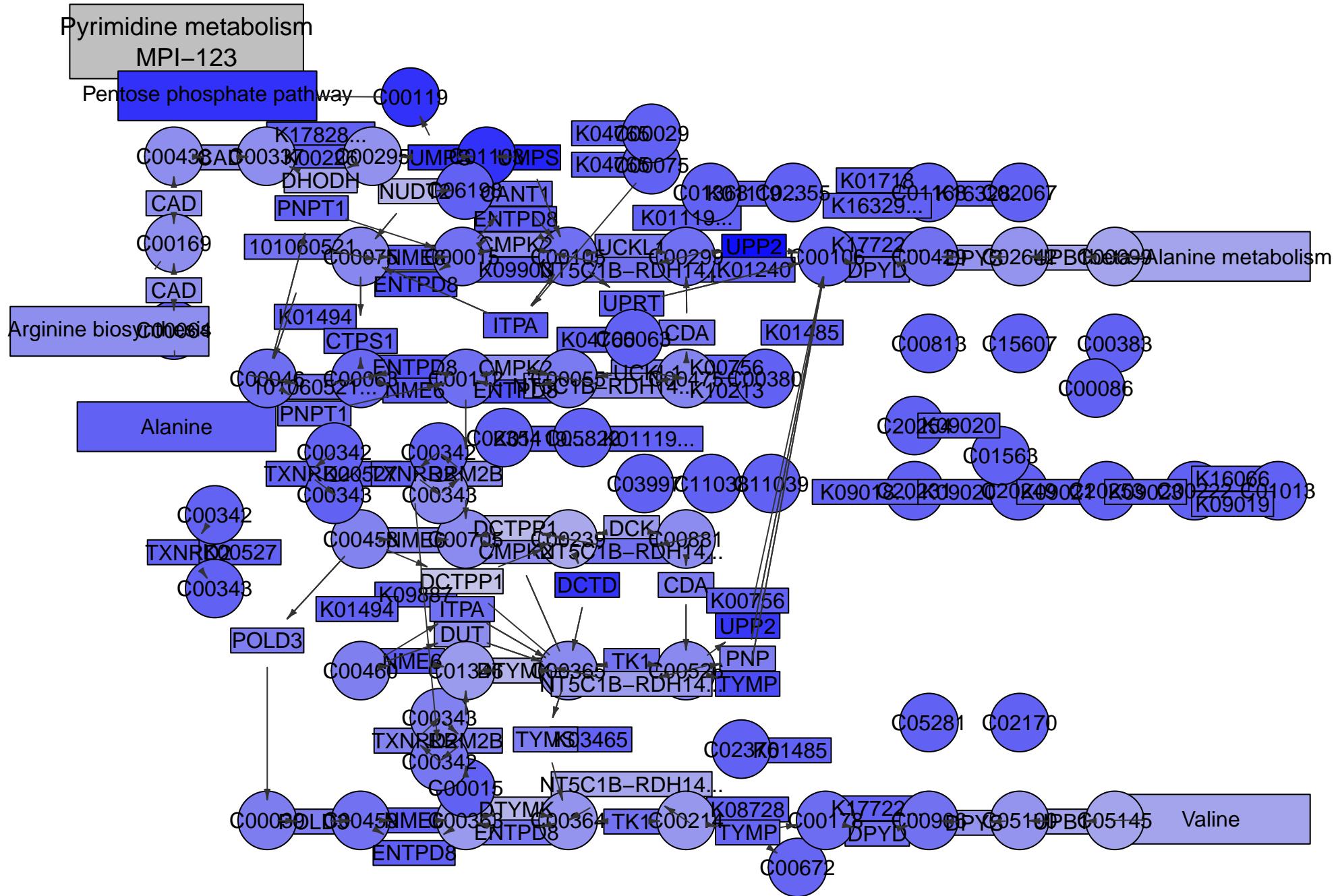
Pyrimidine metabolism
MPI-095

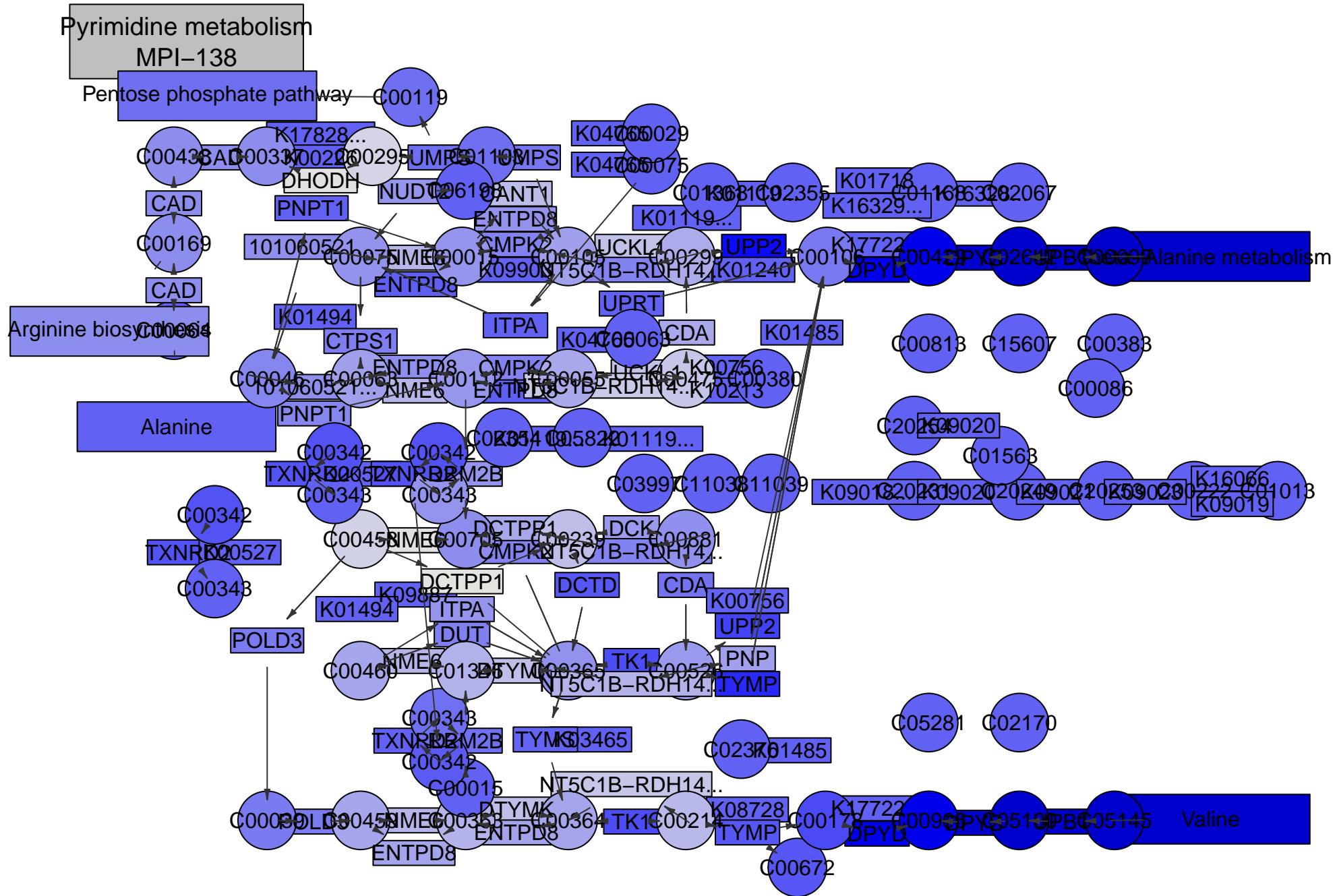




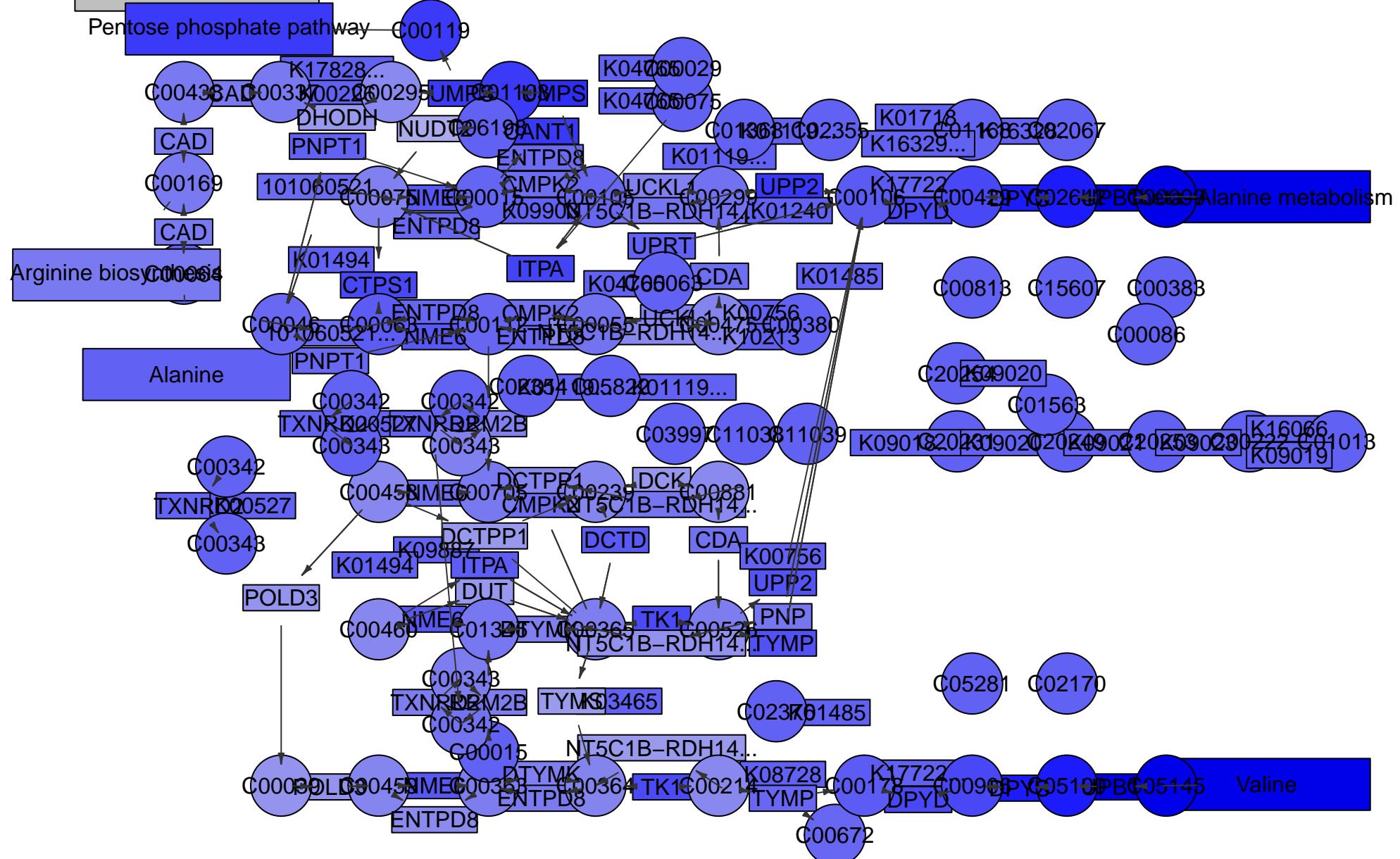
Pyrimidine metabolism
MPI-114

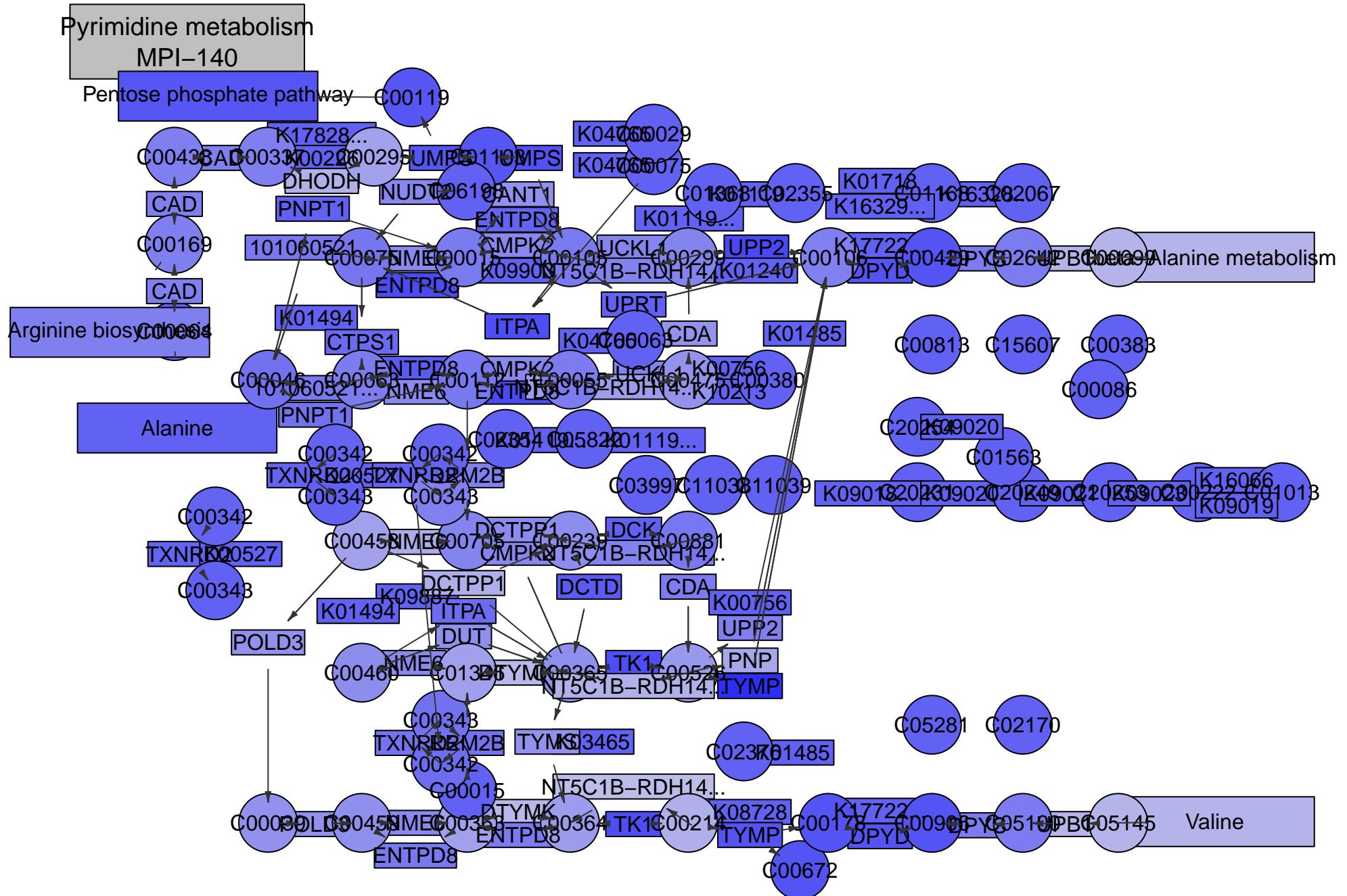




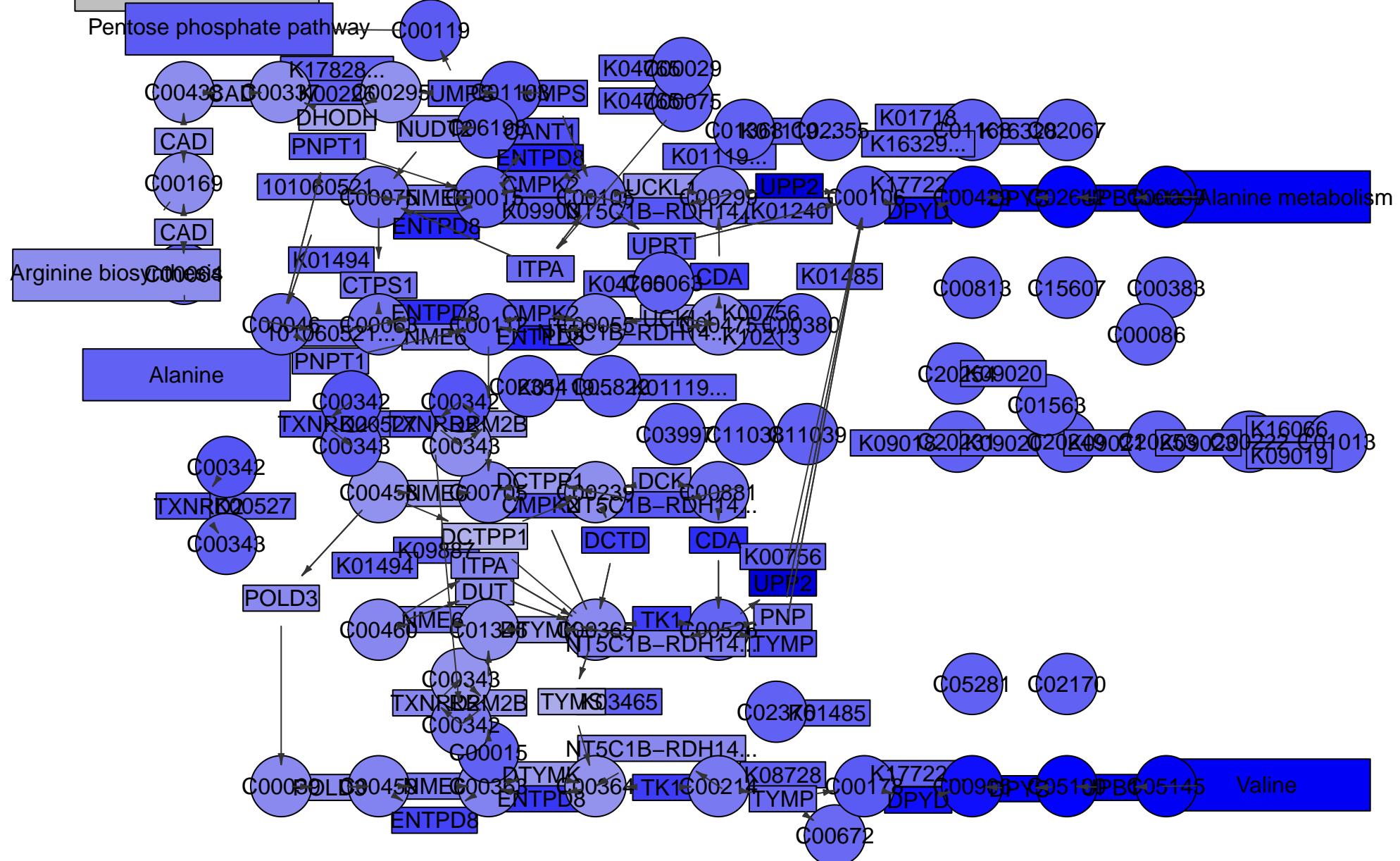


Pyrimidine metabolism
MPI-139

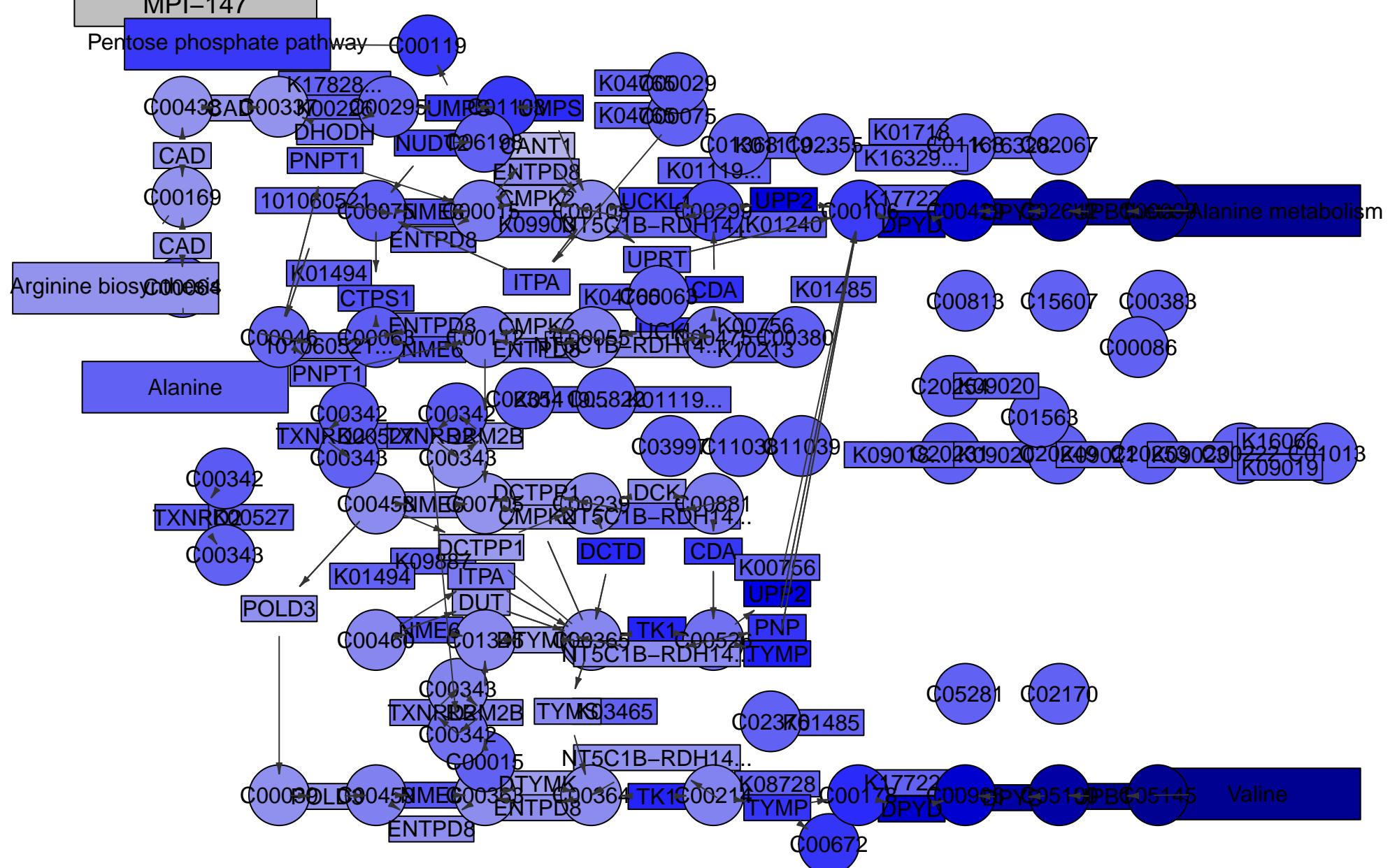


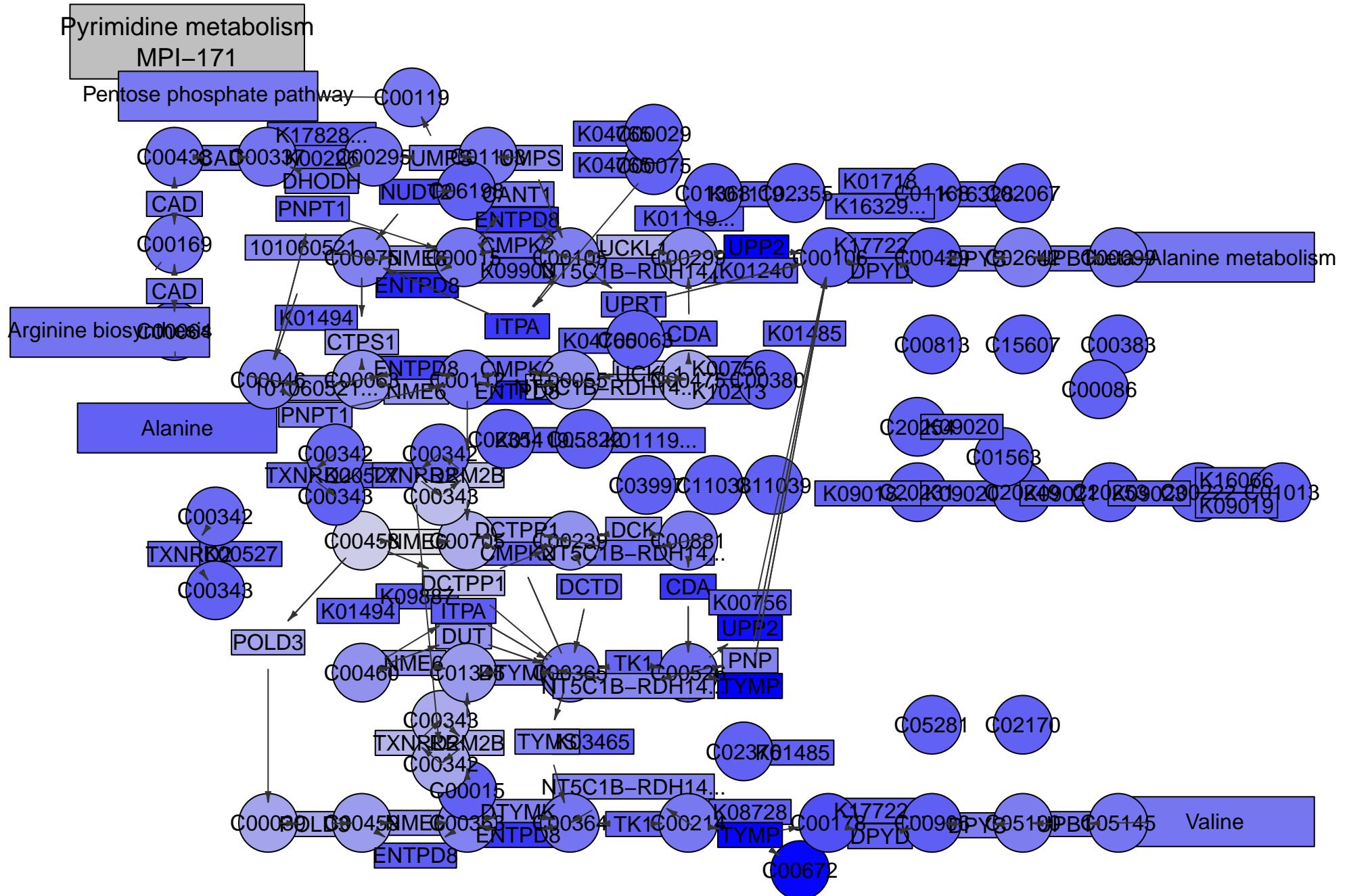


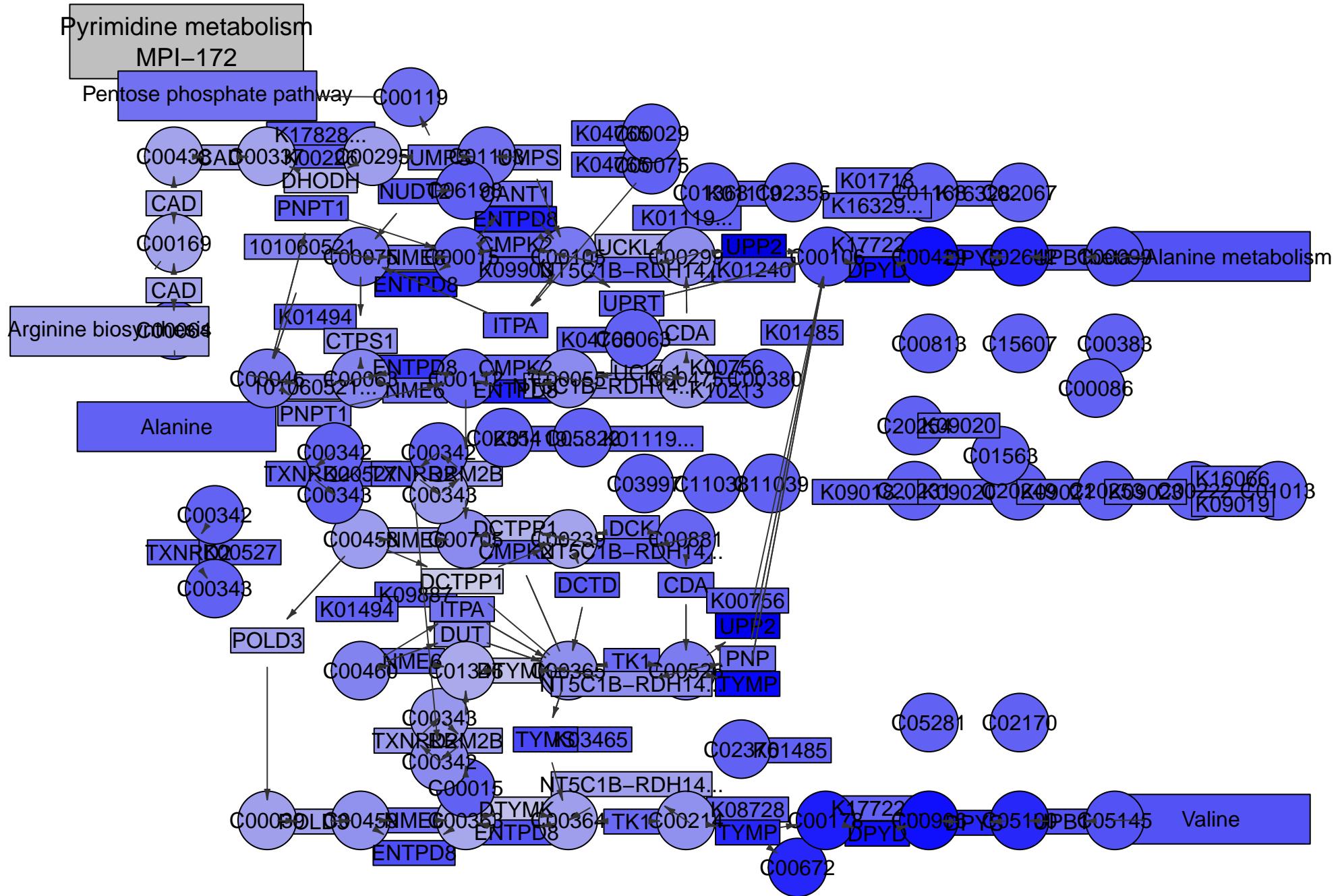
Pyrimidine metabolism
MPI-144



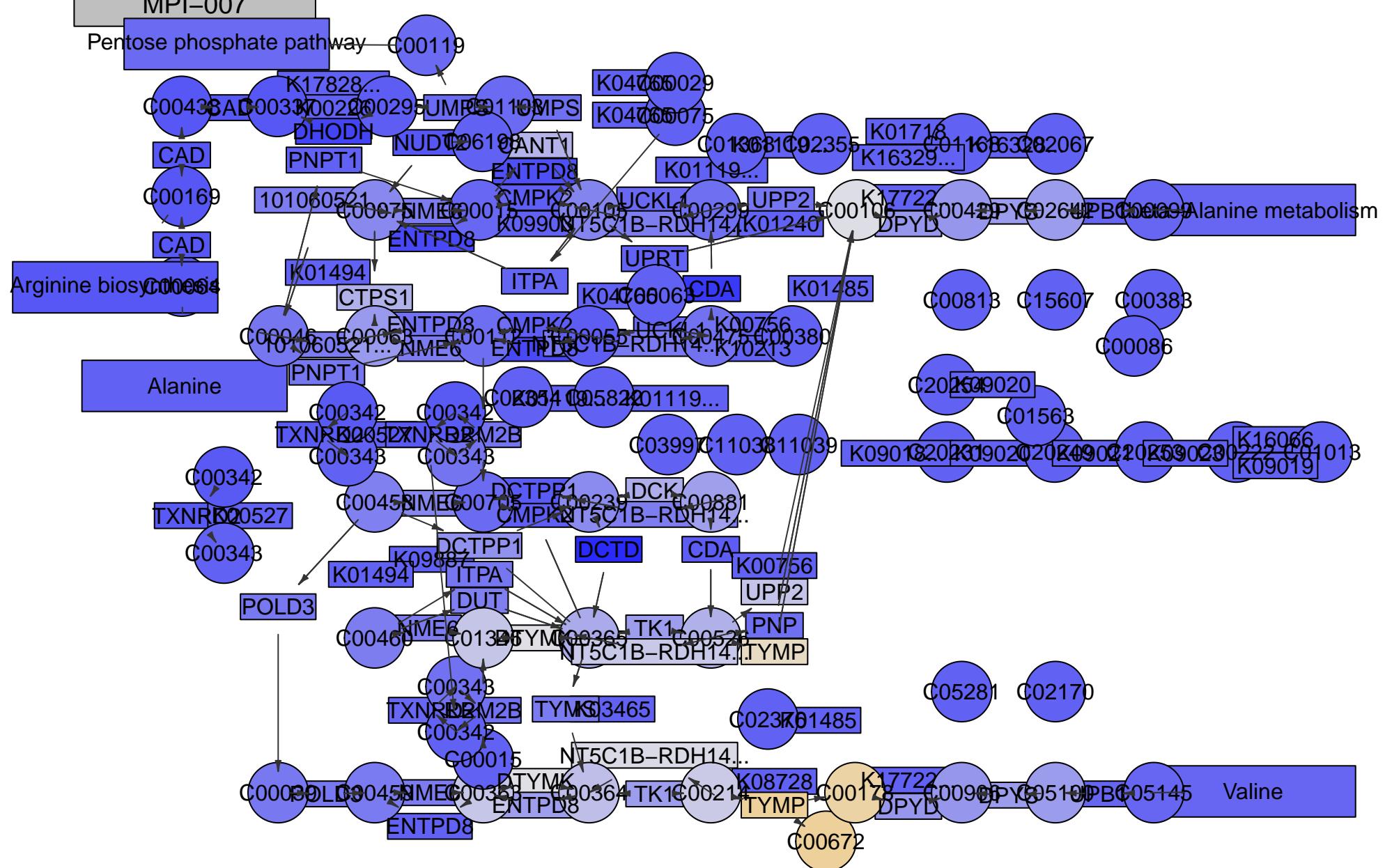
Pyrimidine metabolism
MPI-147





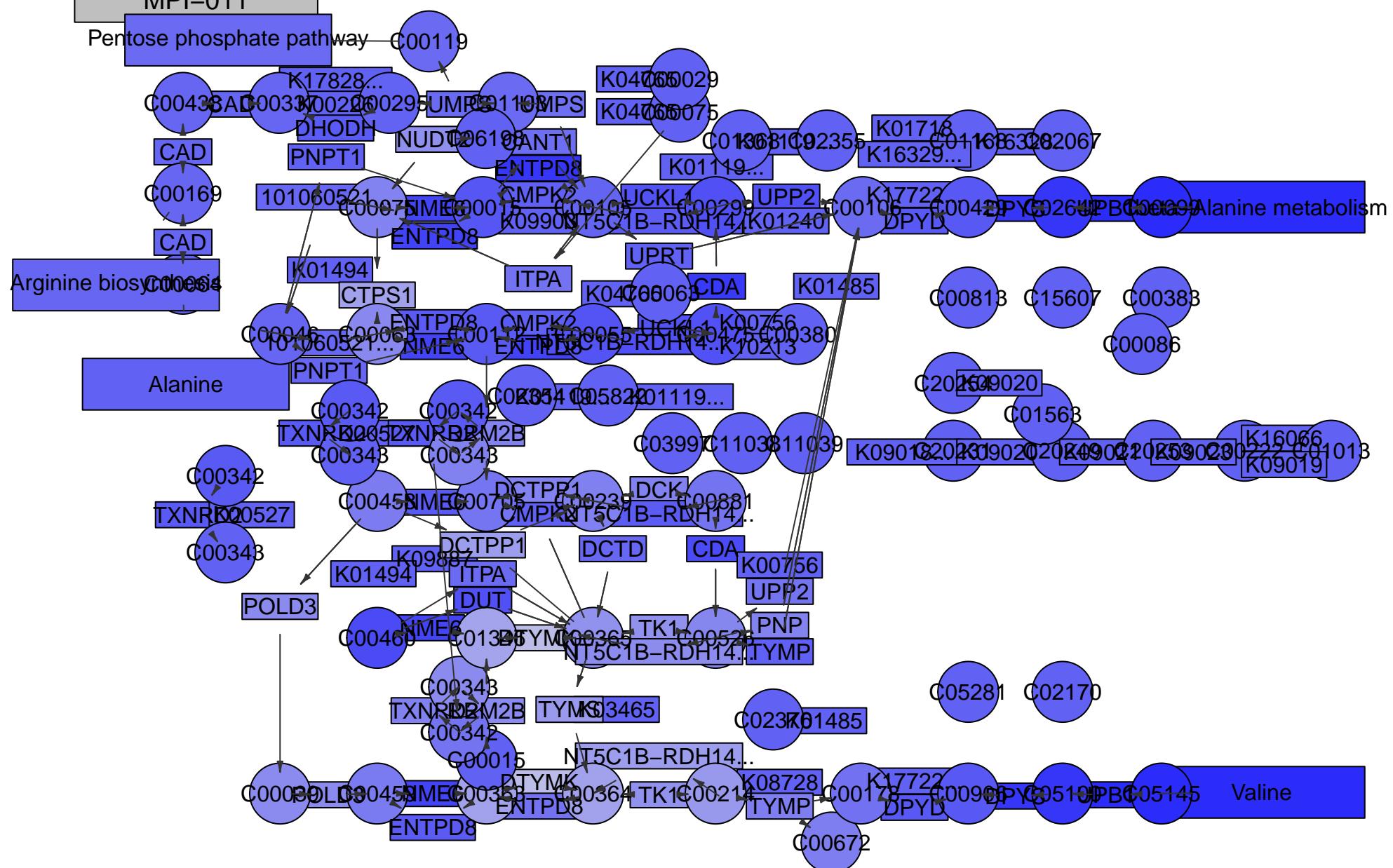


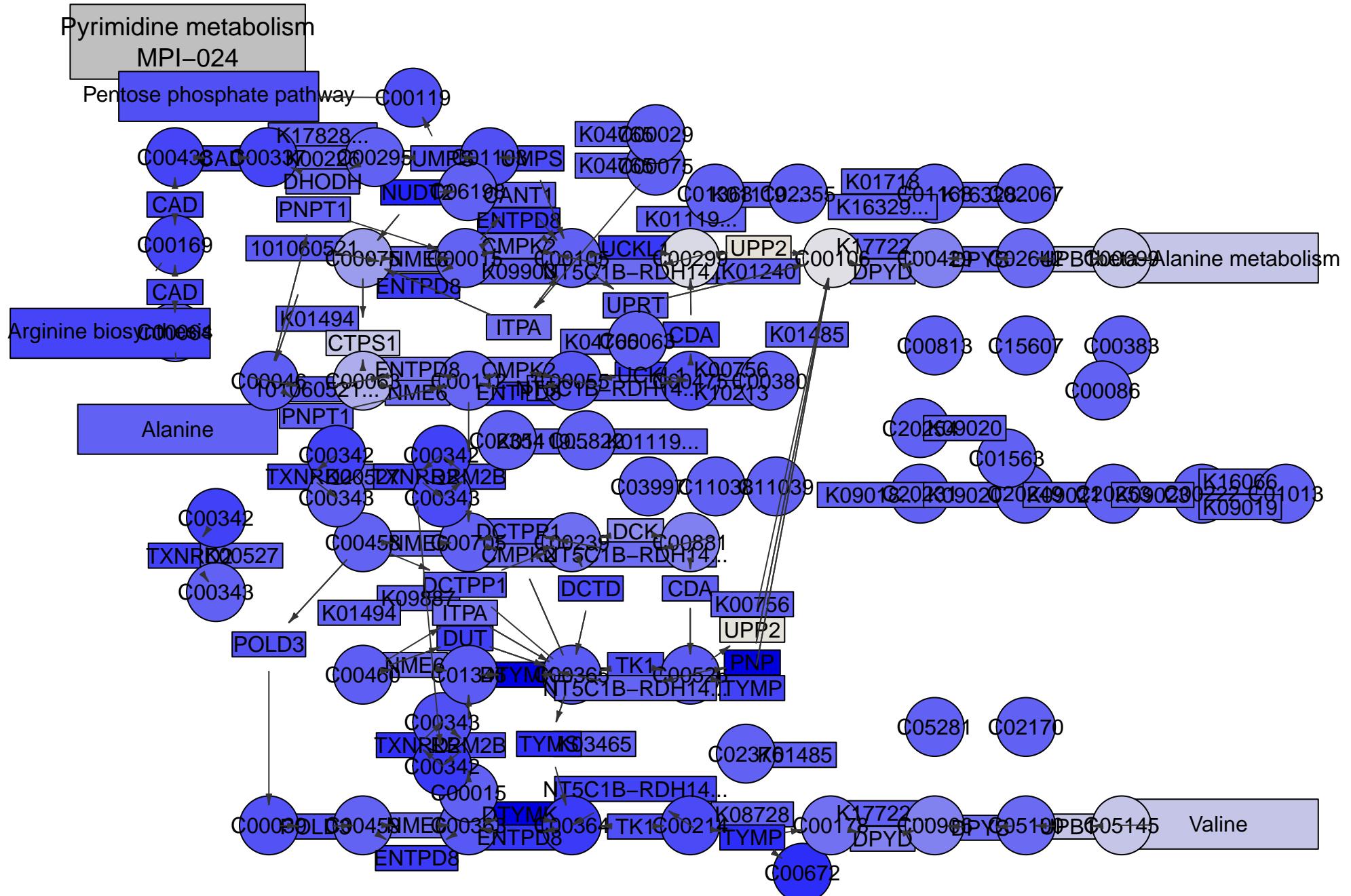
Pyrimidine metabolism
MPI-007

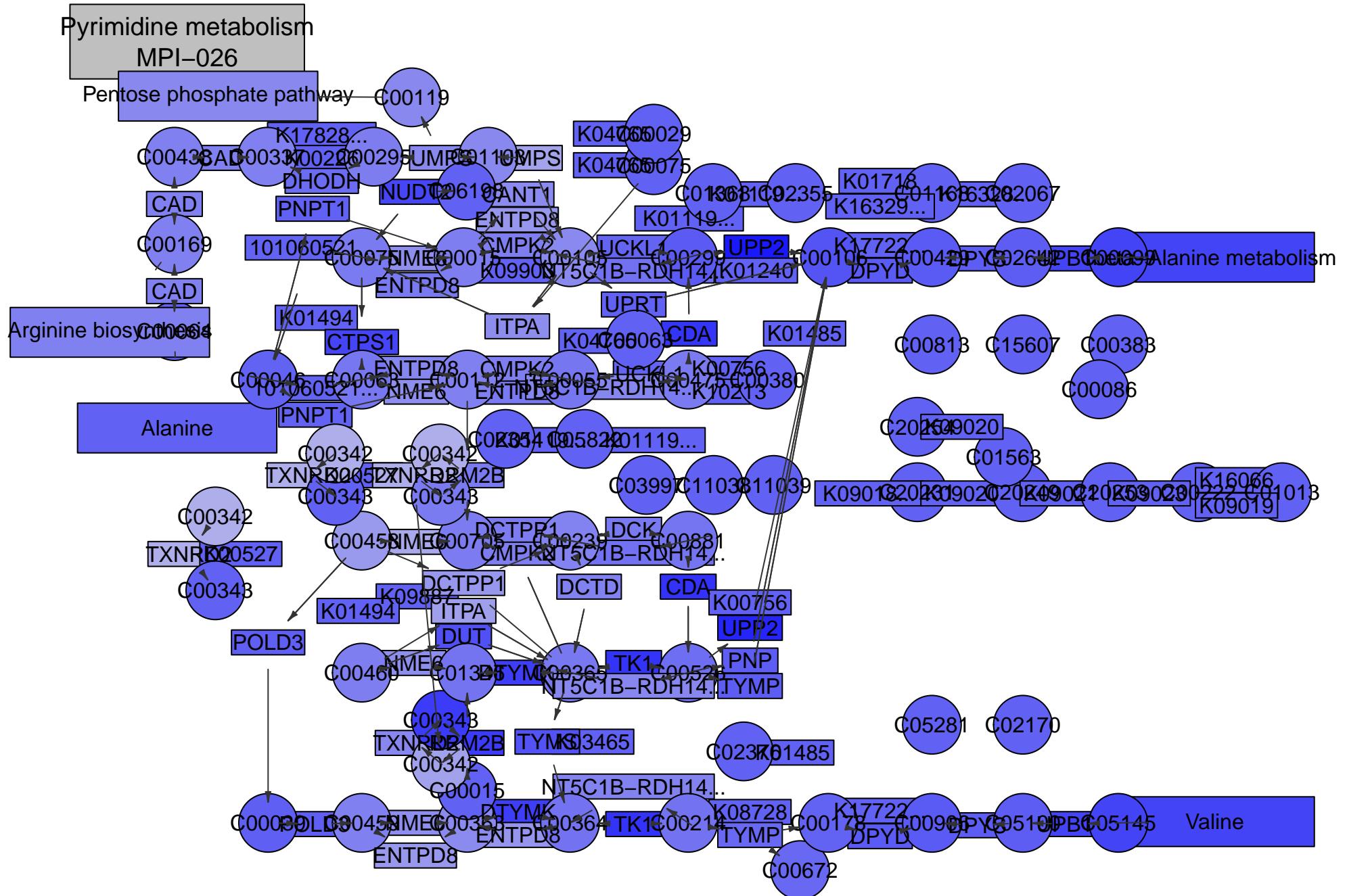


Pyrimidine metabolism

MPI-011

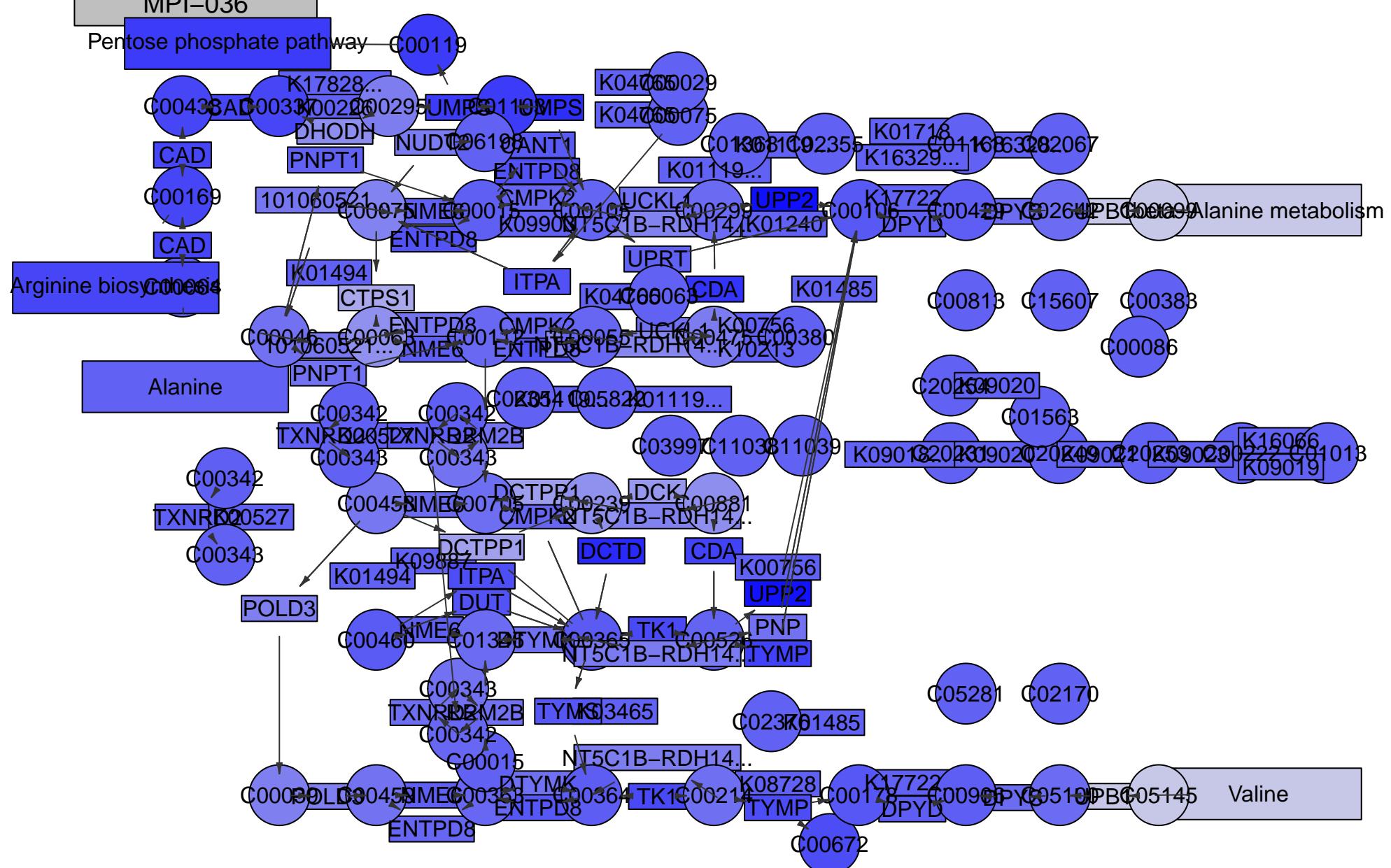




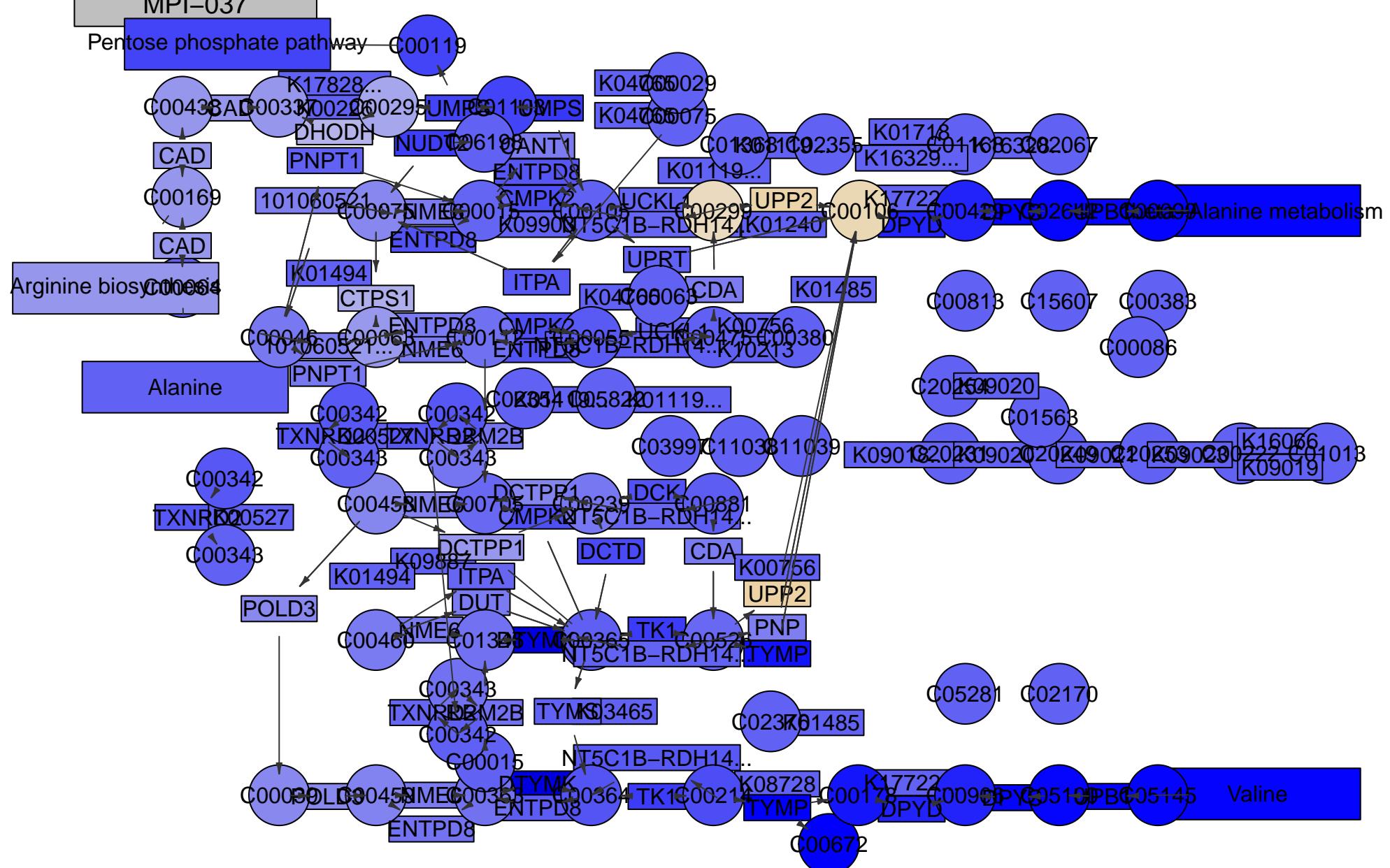


Pyrimidine metabolism

MPI-036

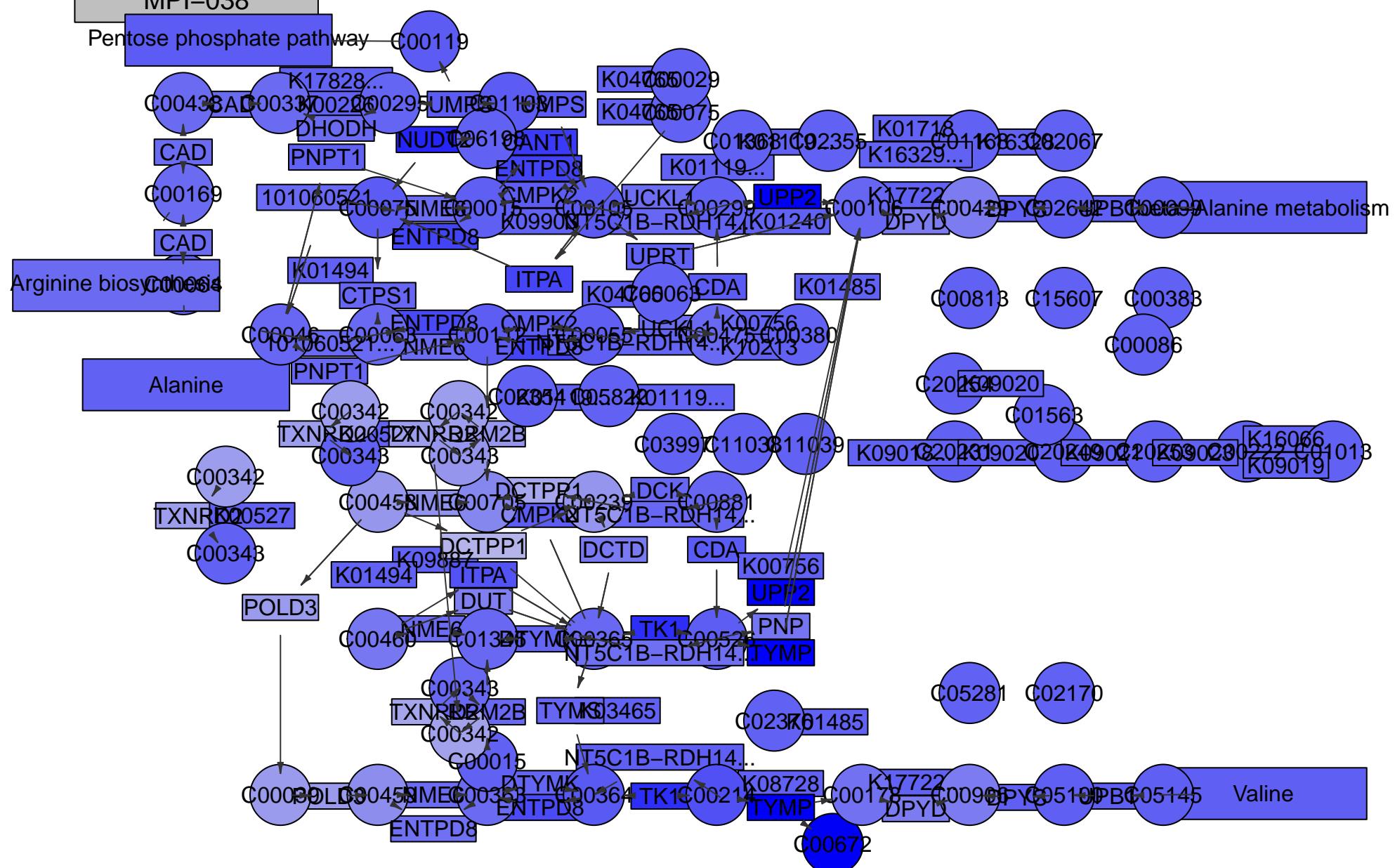


Pyrimidine metabolism
MPI-037

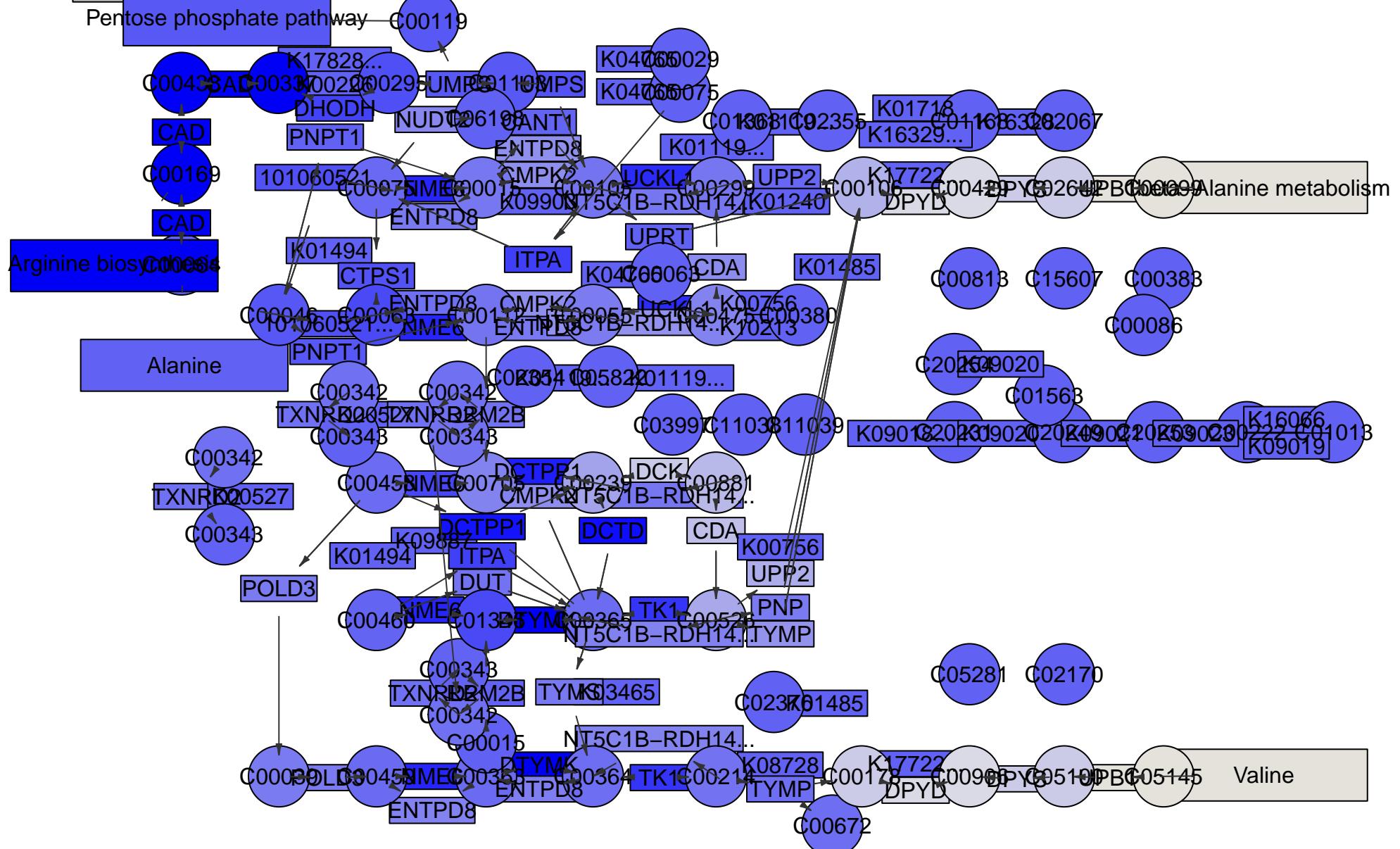


Pyrimidine metabolism

MPI-038

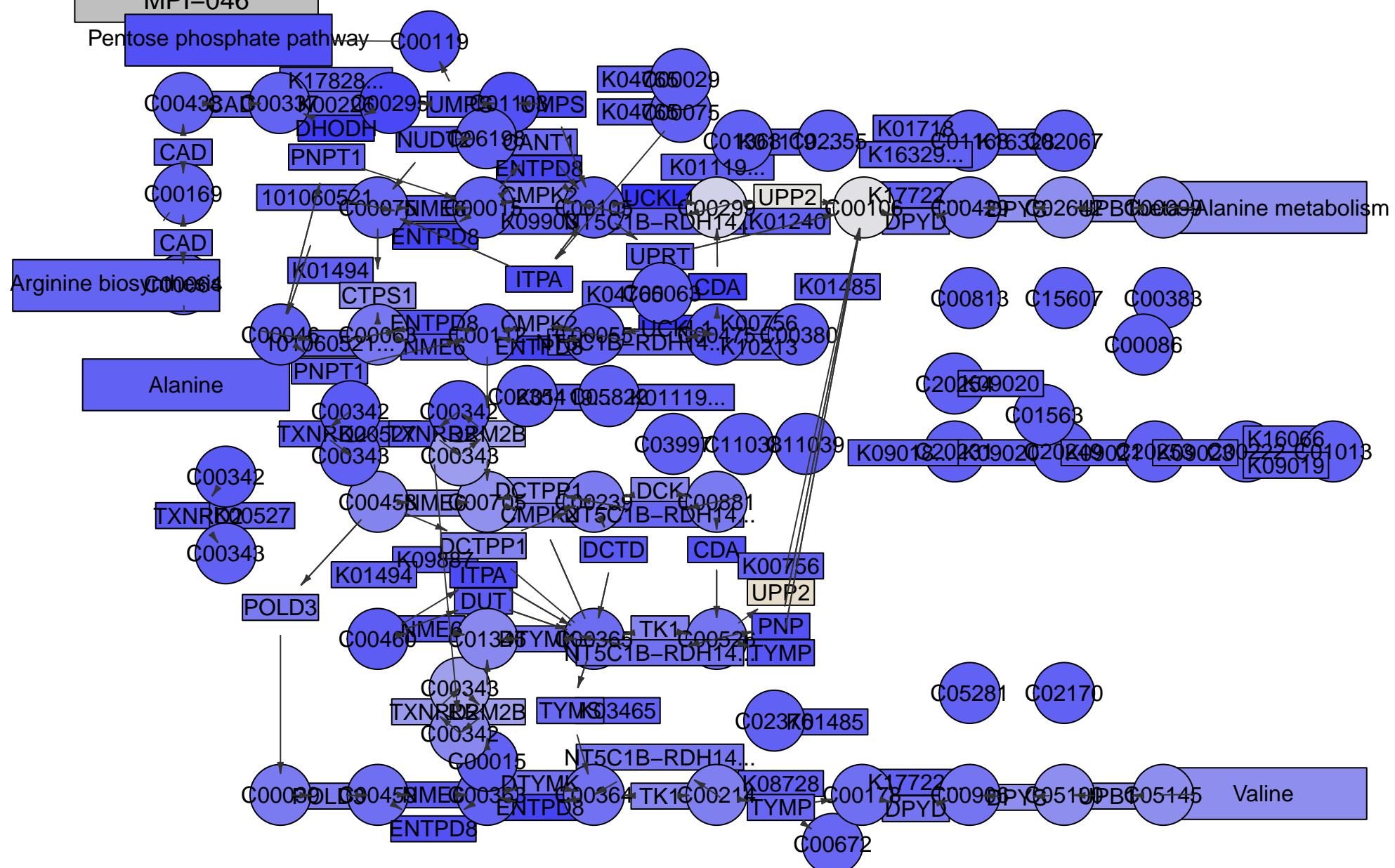


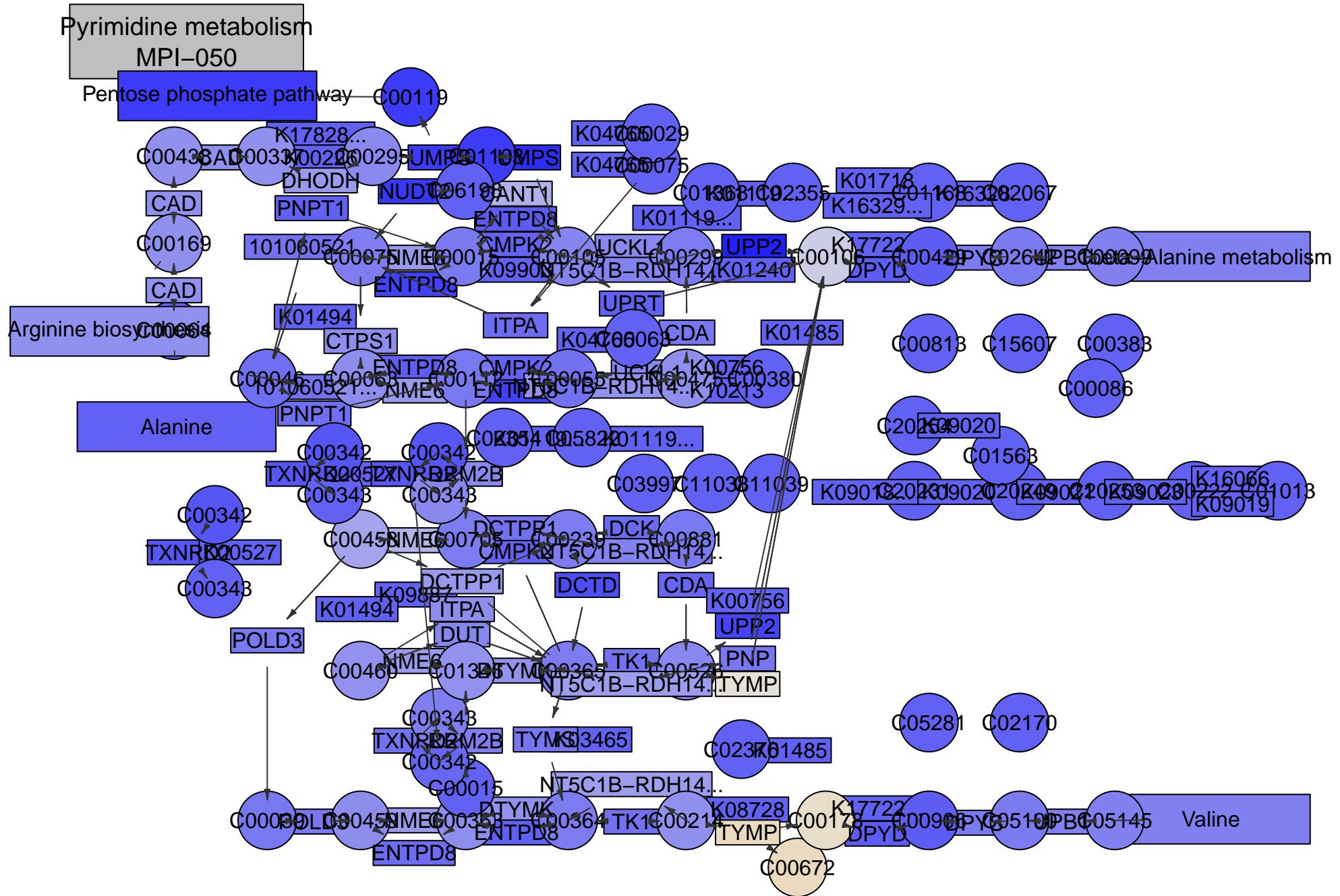
Pyrimidine metabolism
MPI-041



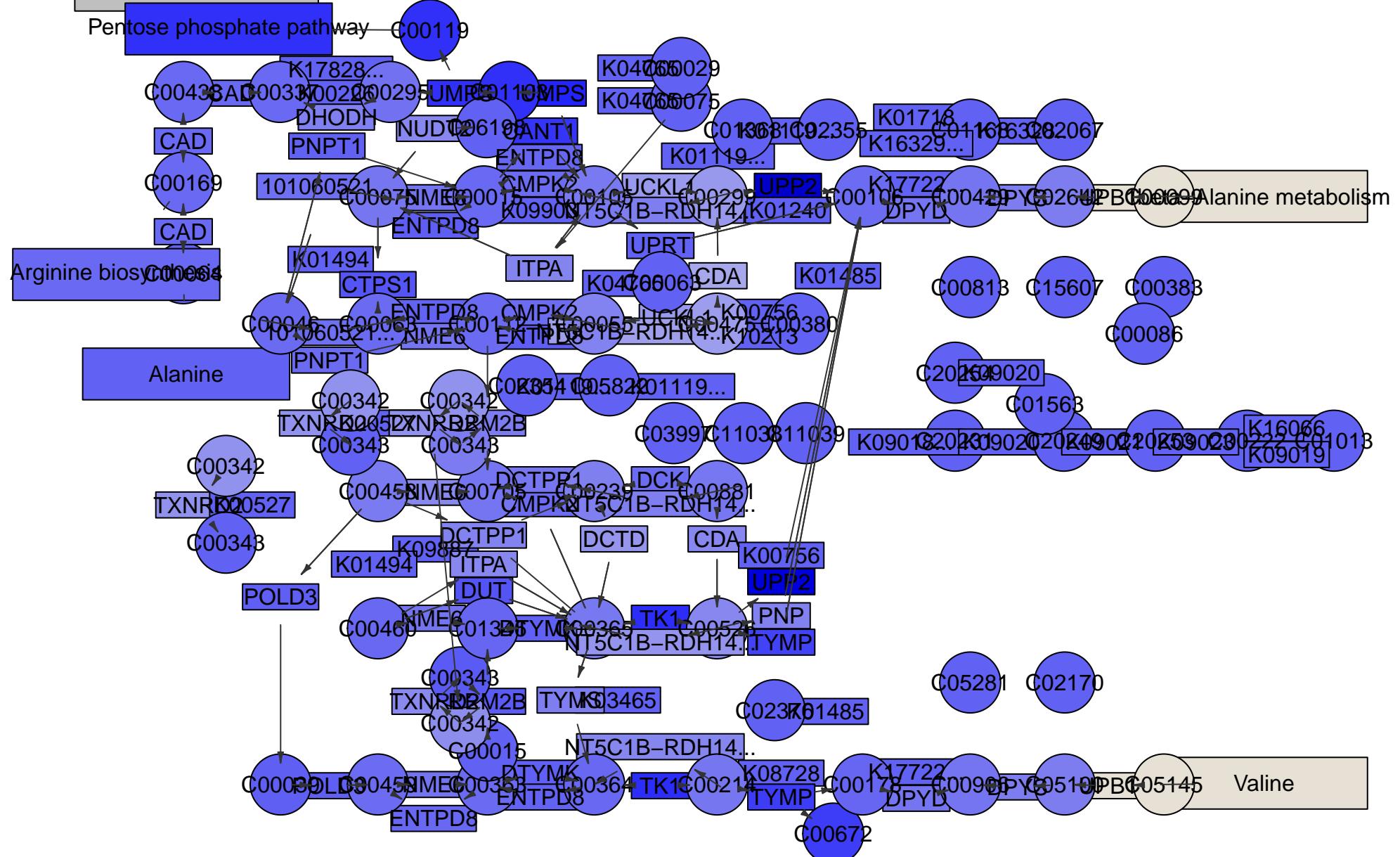
Pyrimidine metabolism

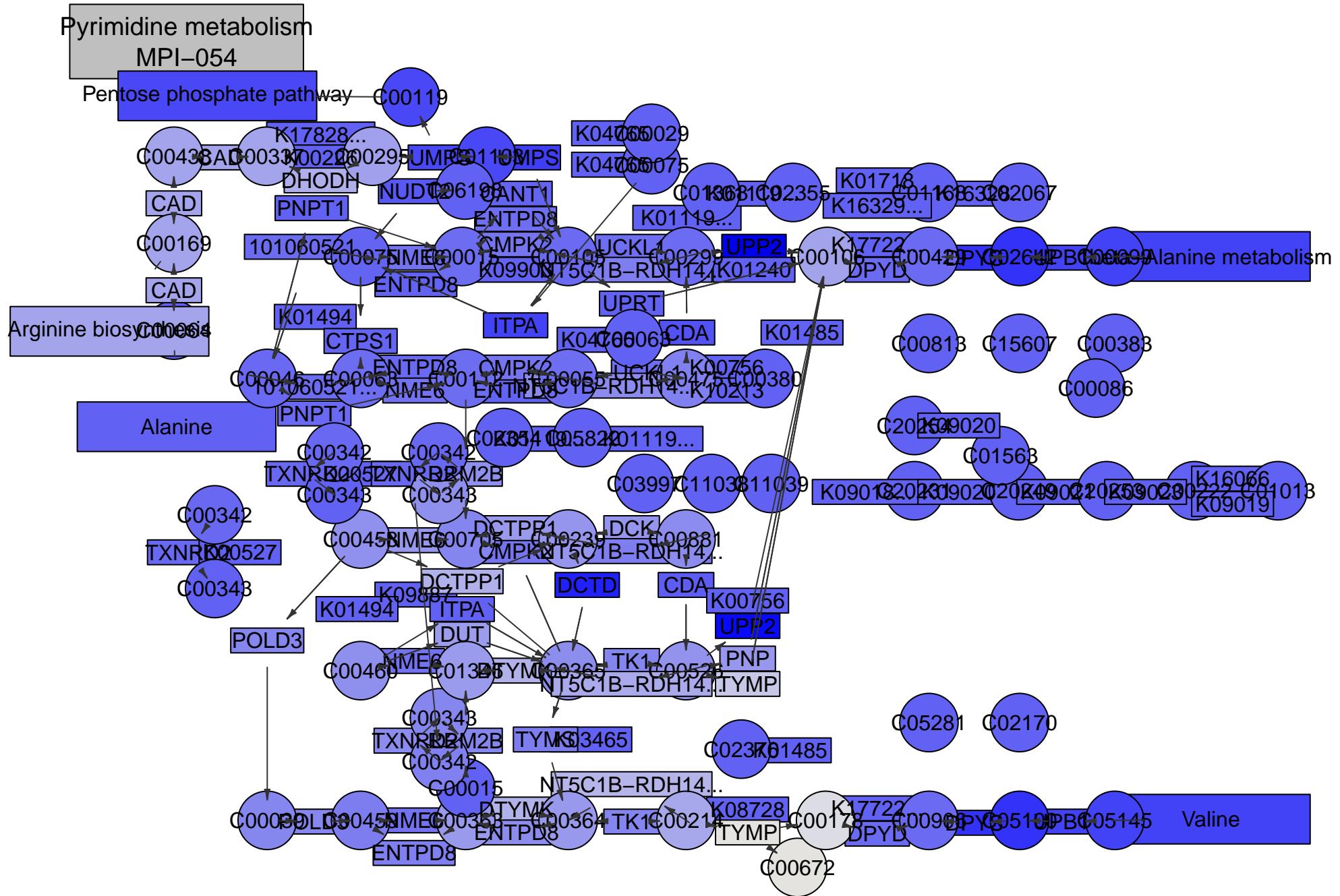
MPI-046





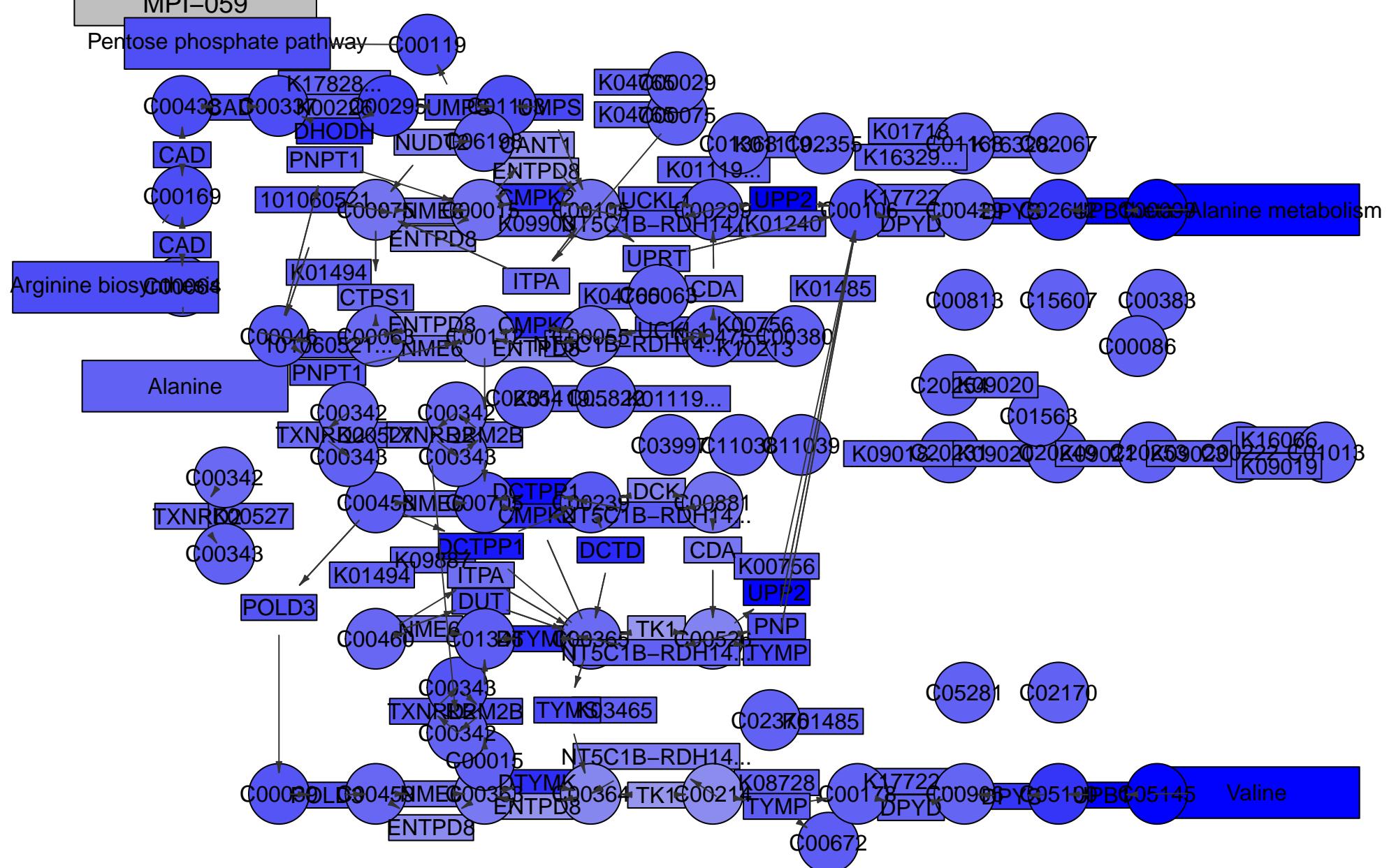
Pyrimidine metabolism
MPI-051



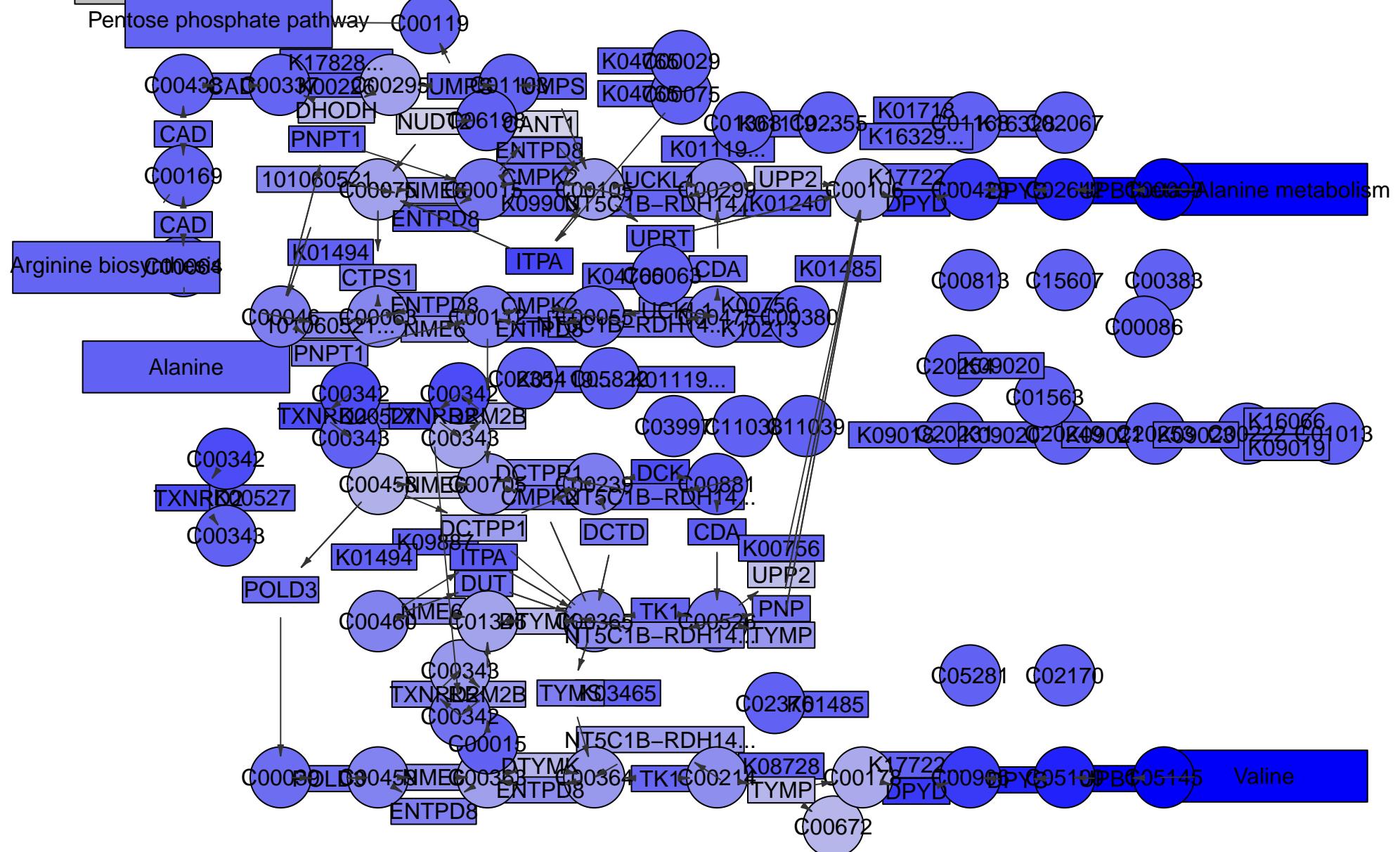


Pyrimidine metabolism

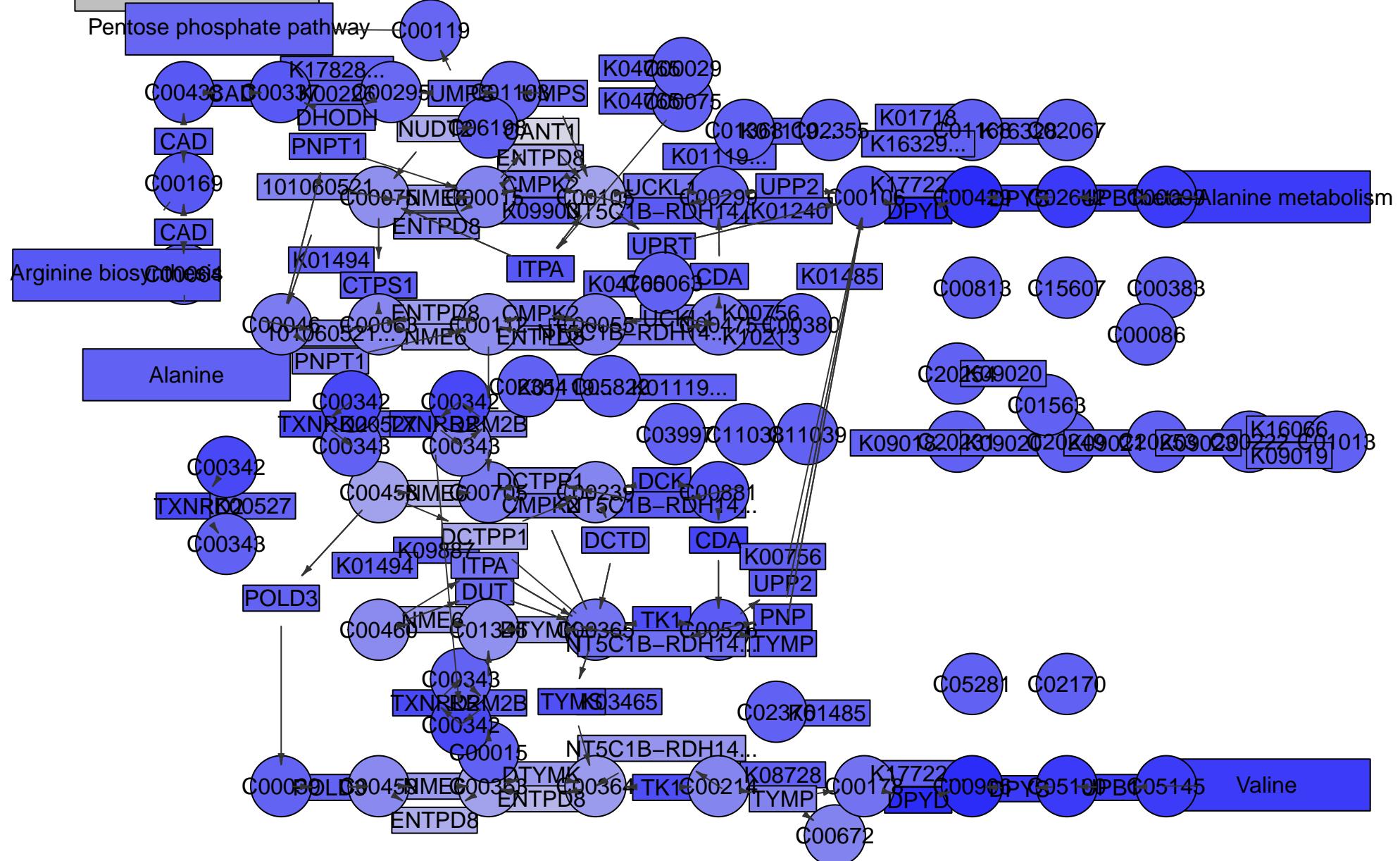
MPI-059



Pyrimidine metabolism
MPI-060

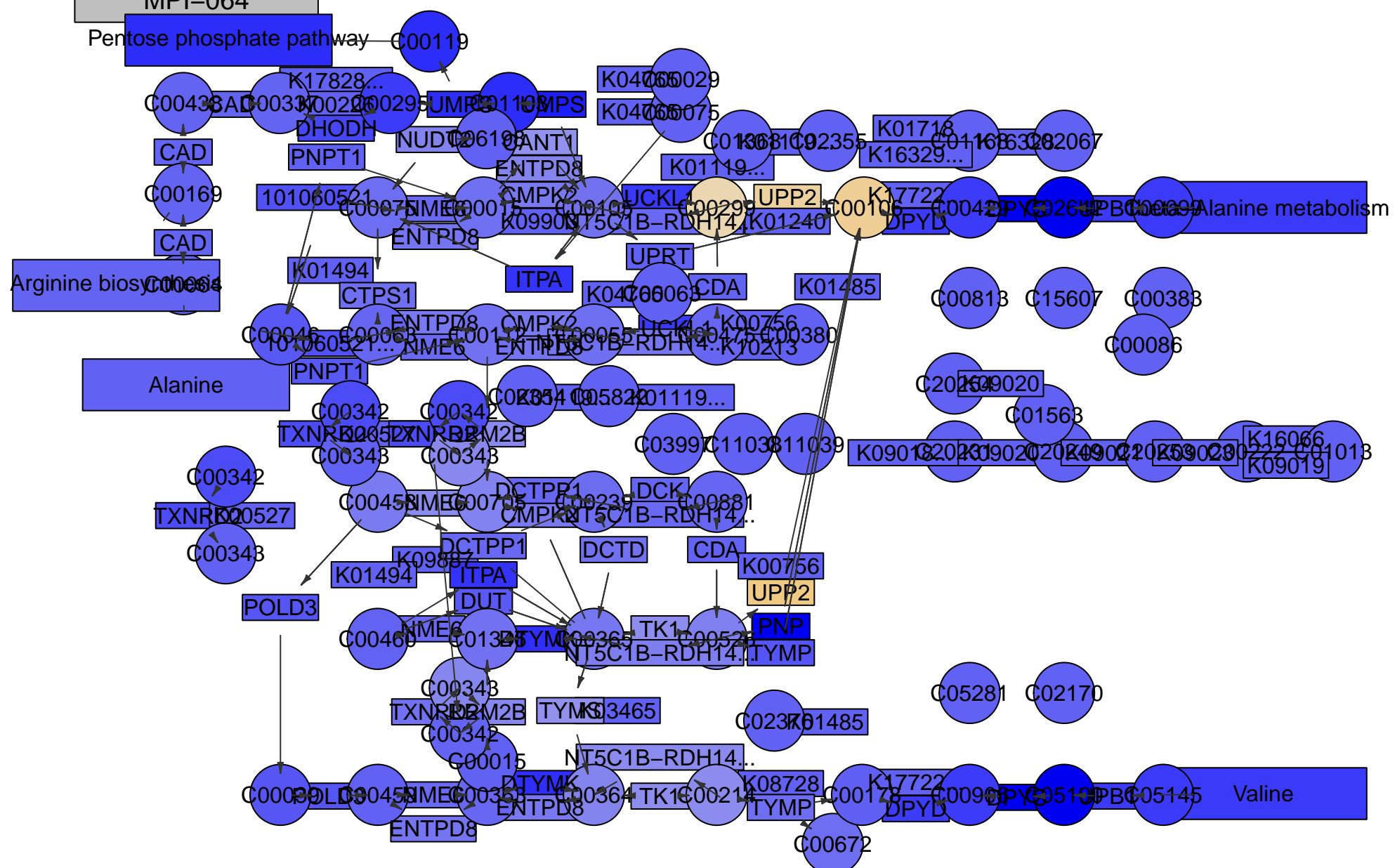


Pyrimidine metabolism
MPI-061



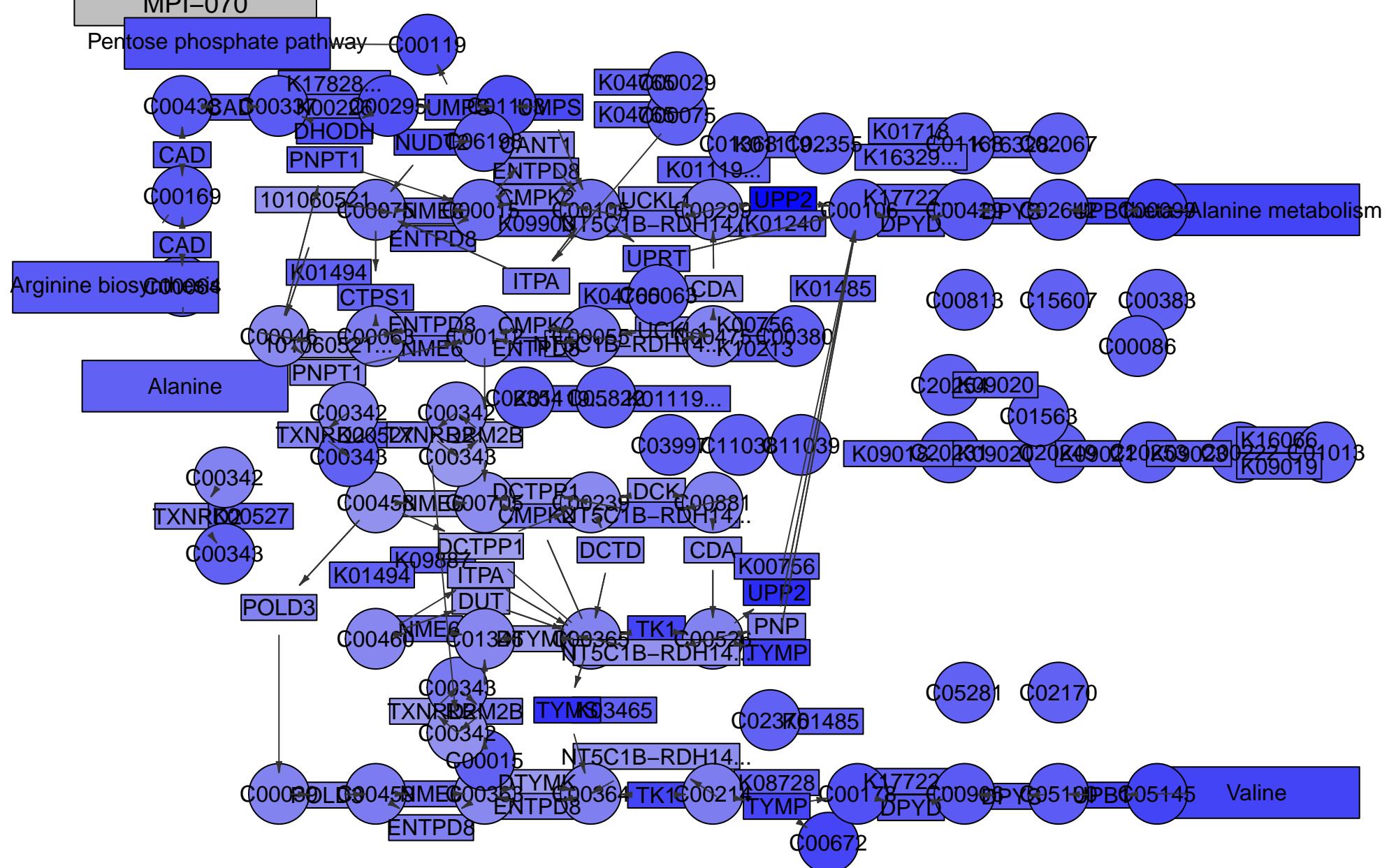
Pyrimidine metabolism

MPI-064



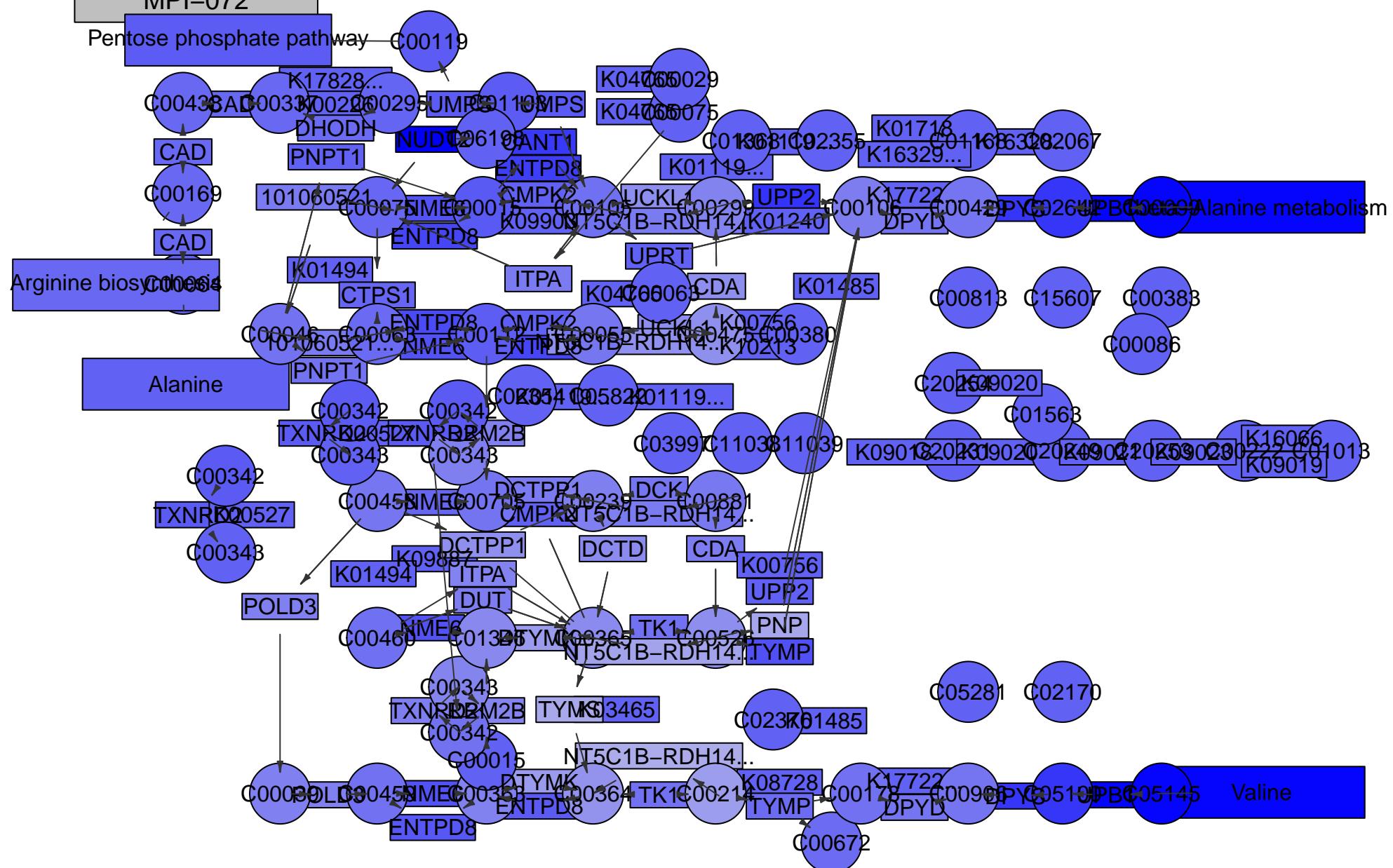
Pyrimidine metabolism

MPI-070



Pyrimidine metabolism

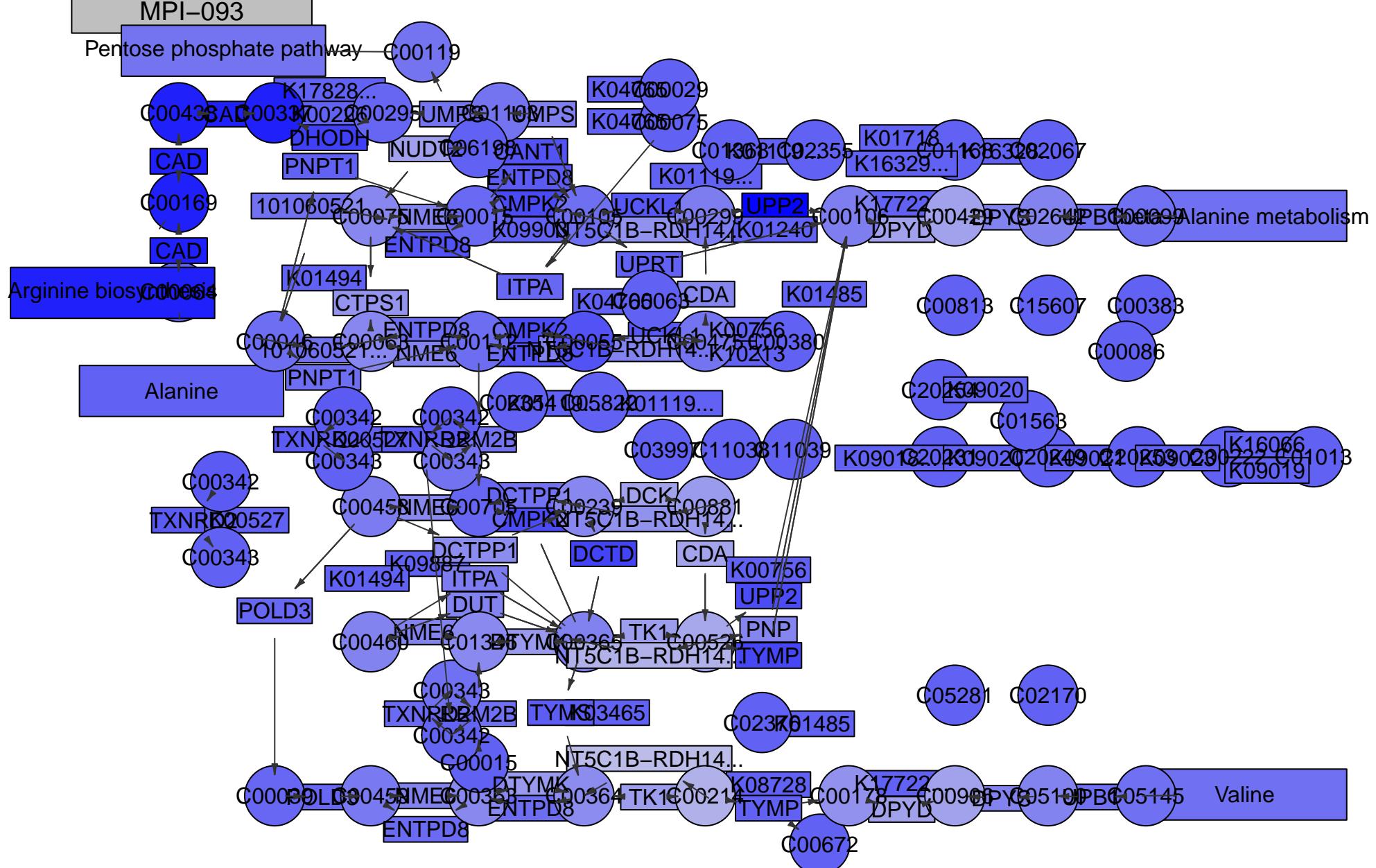
MPI-072

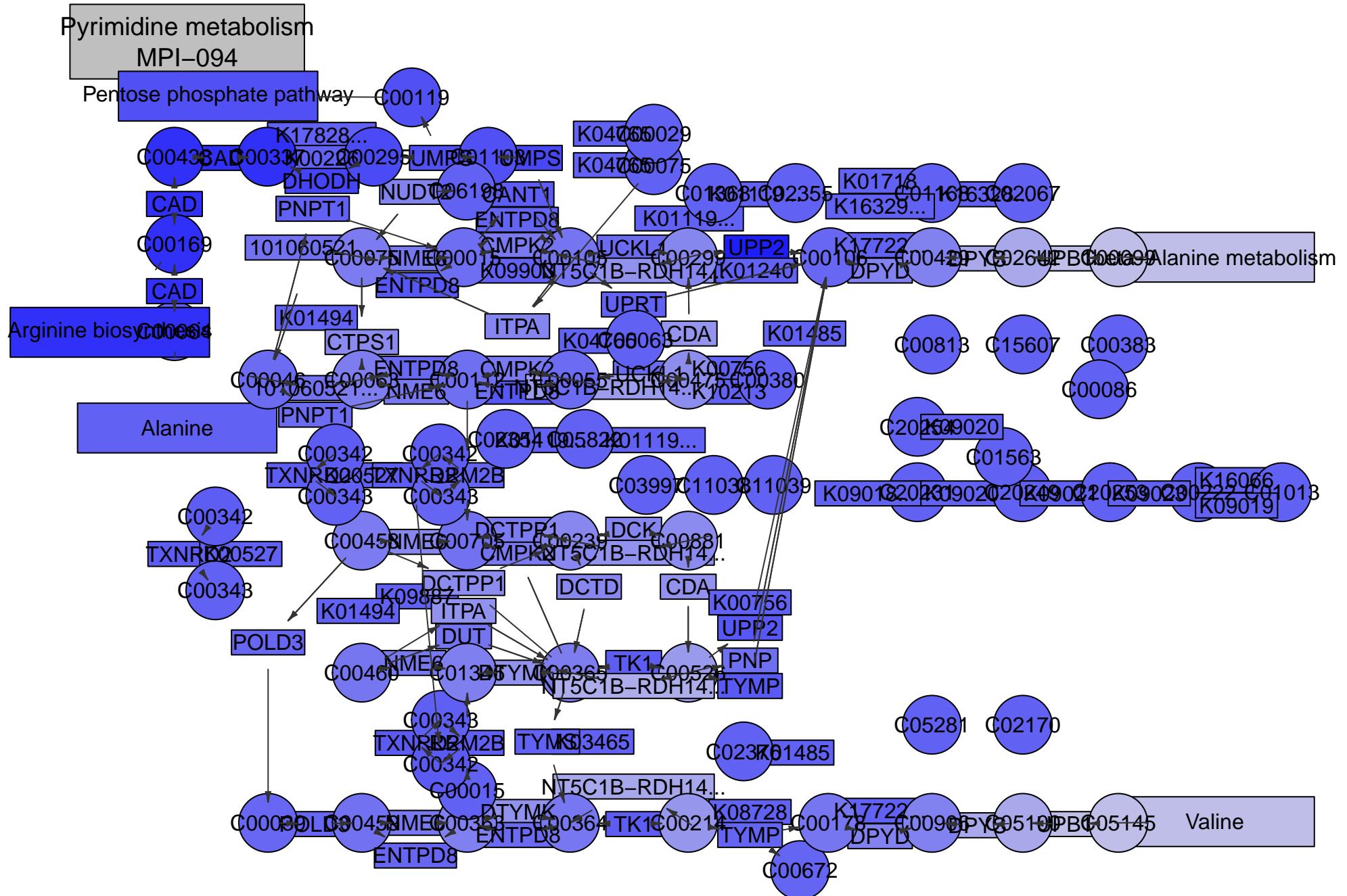


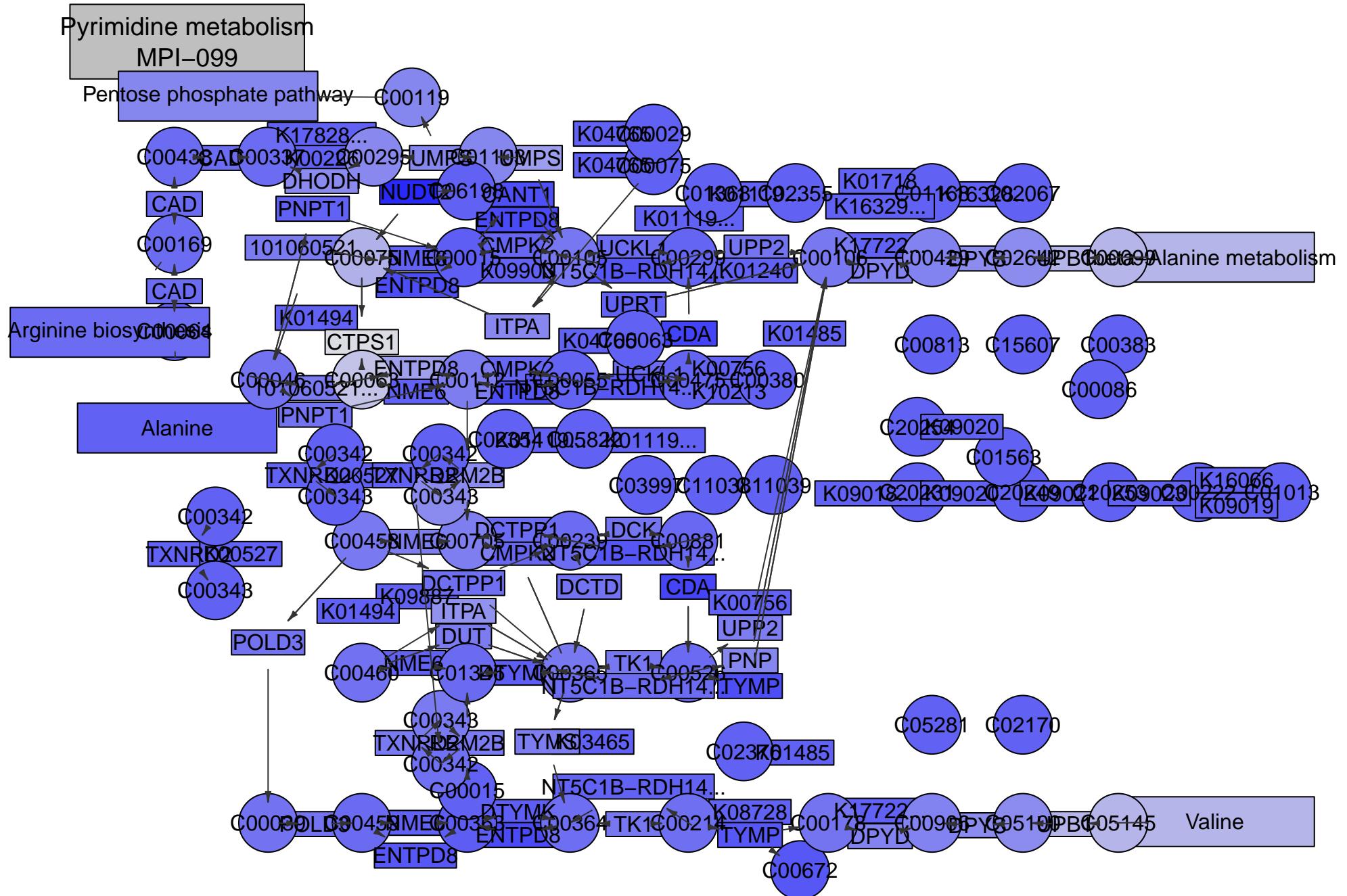
Pyrimidine metabolism

MPI-093

Pentose phosphate pathway C00119

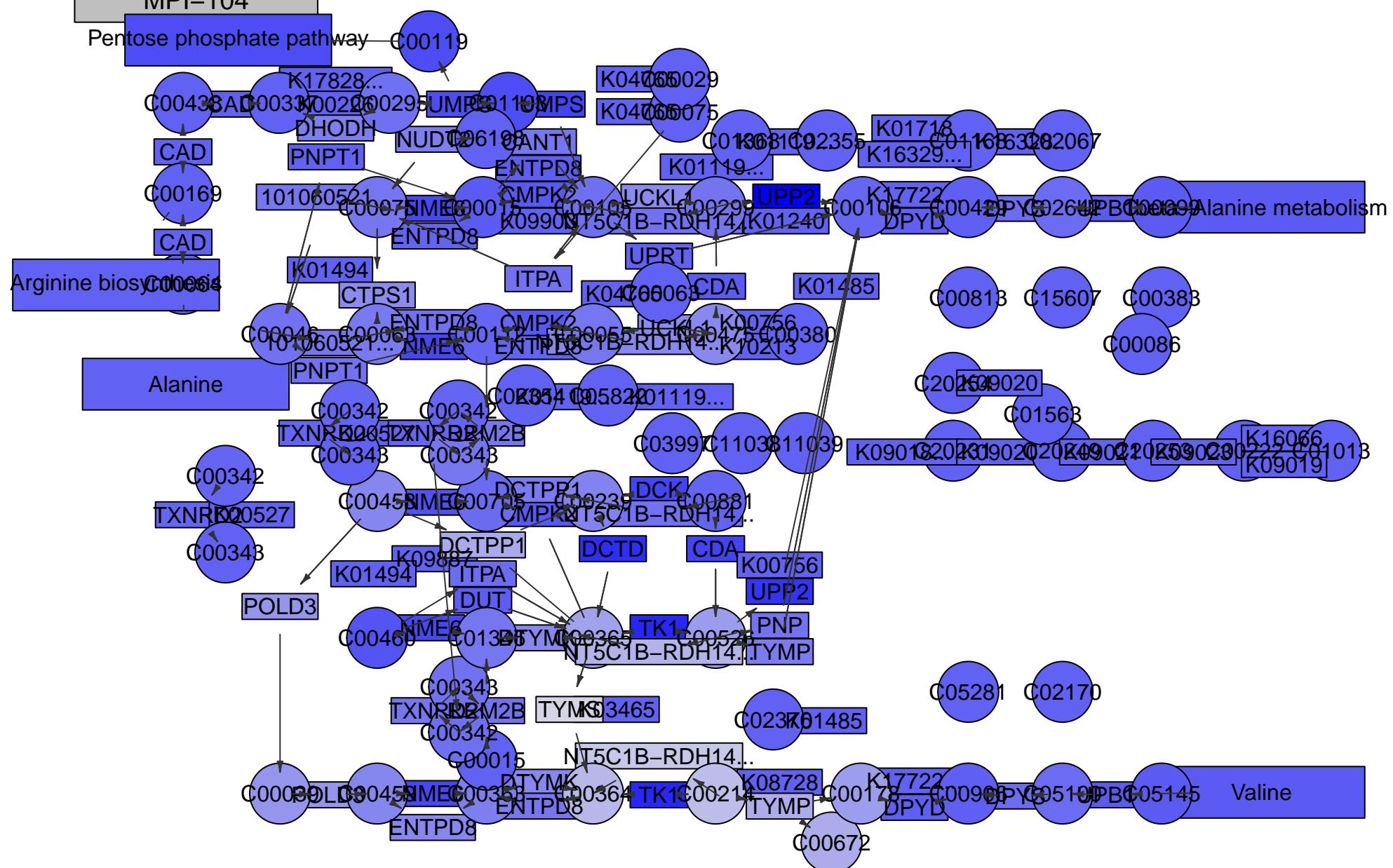


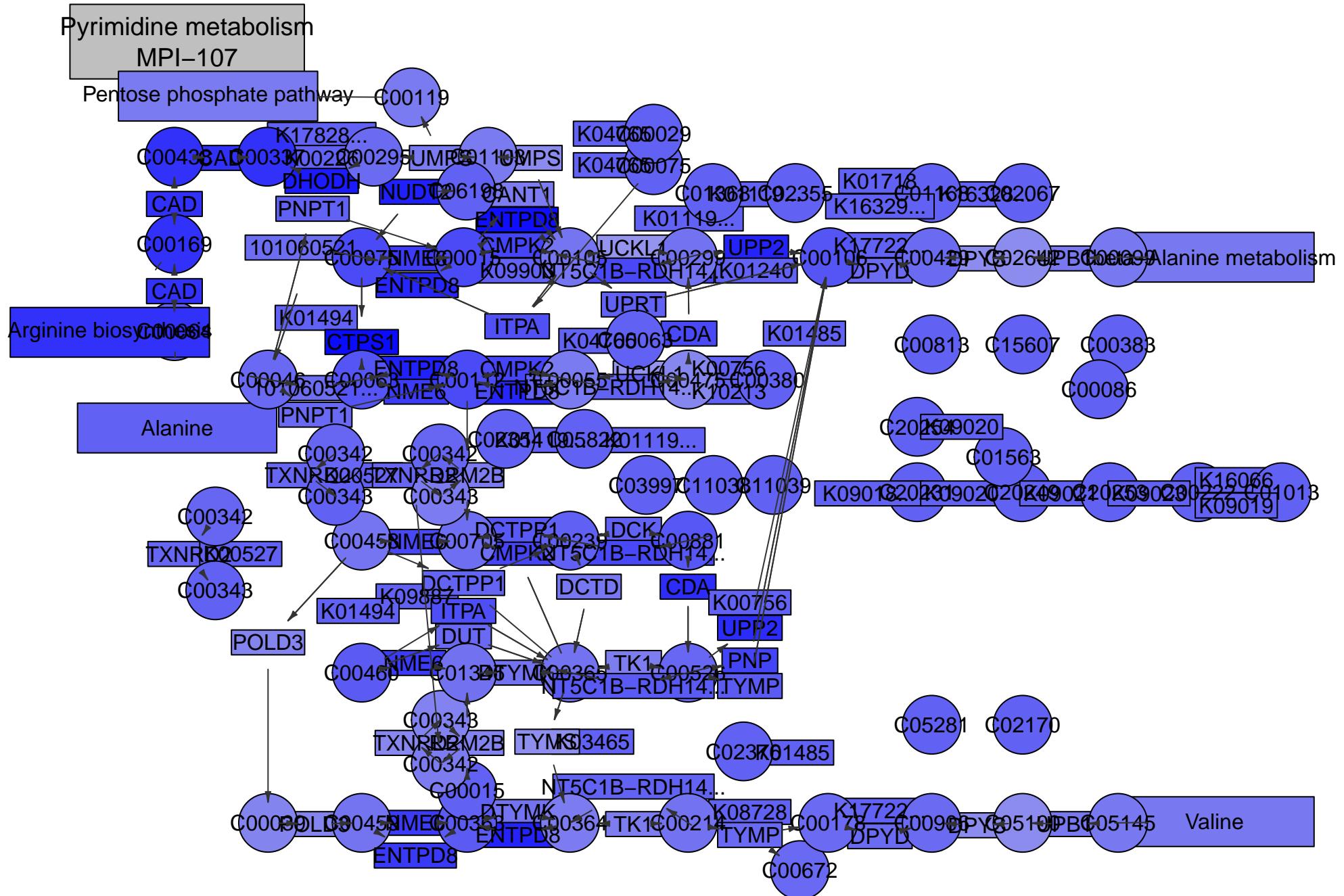




Pyrimidine metabolism

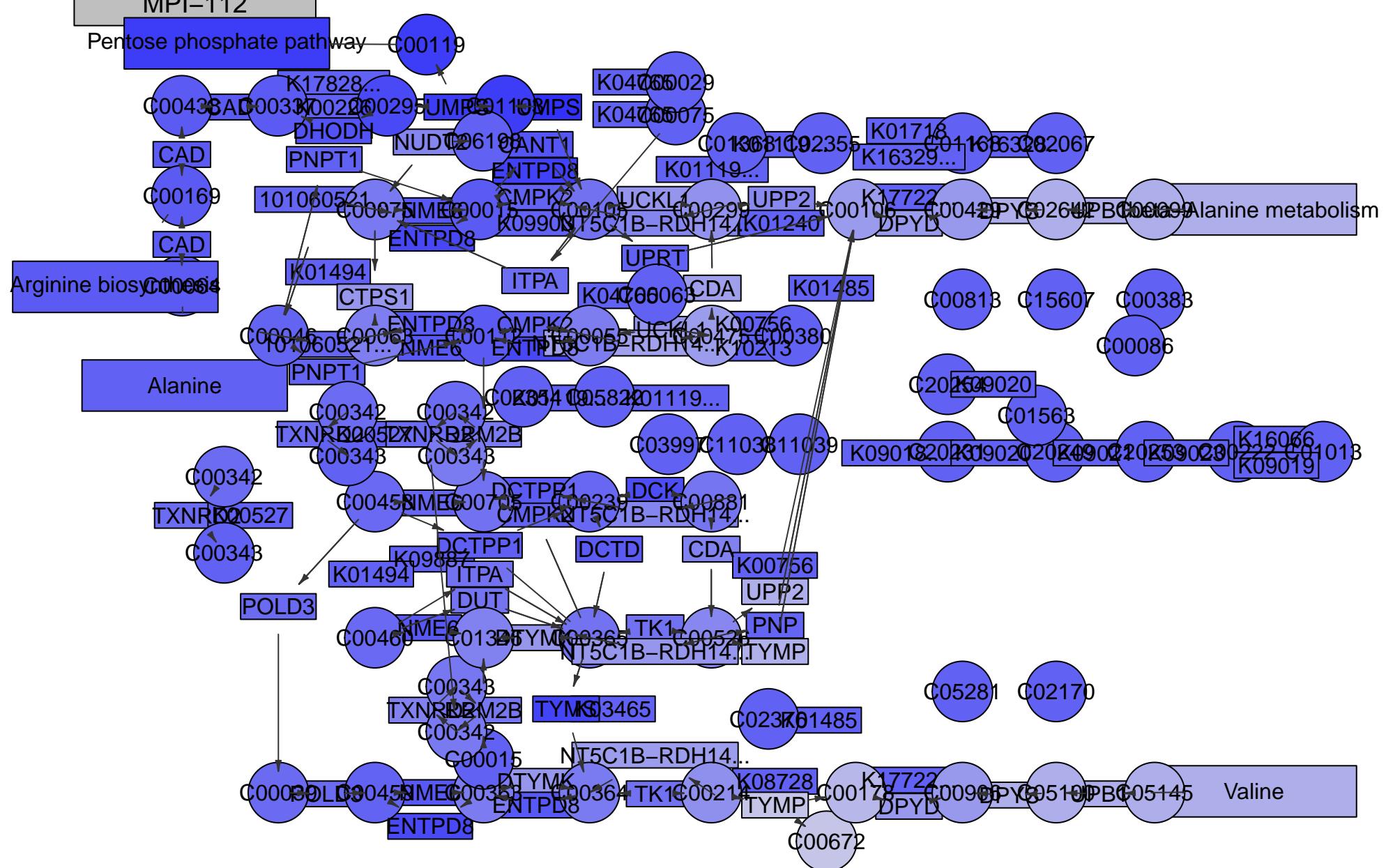
MPI-104





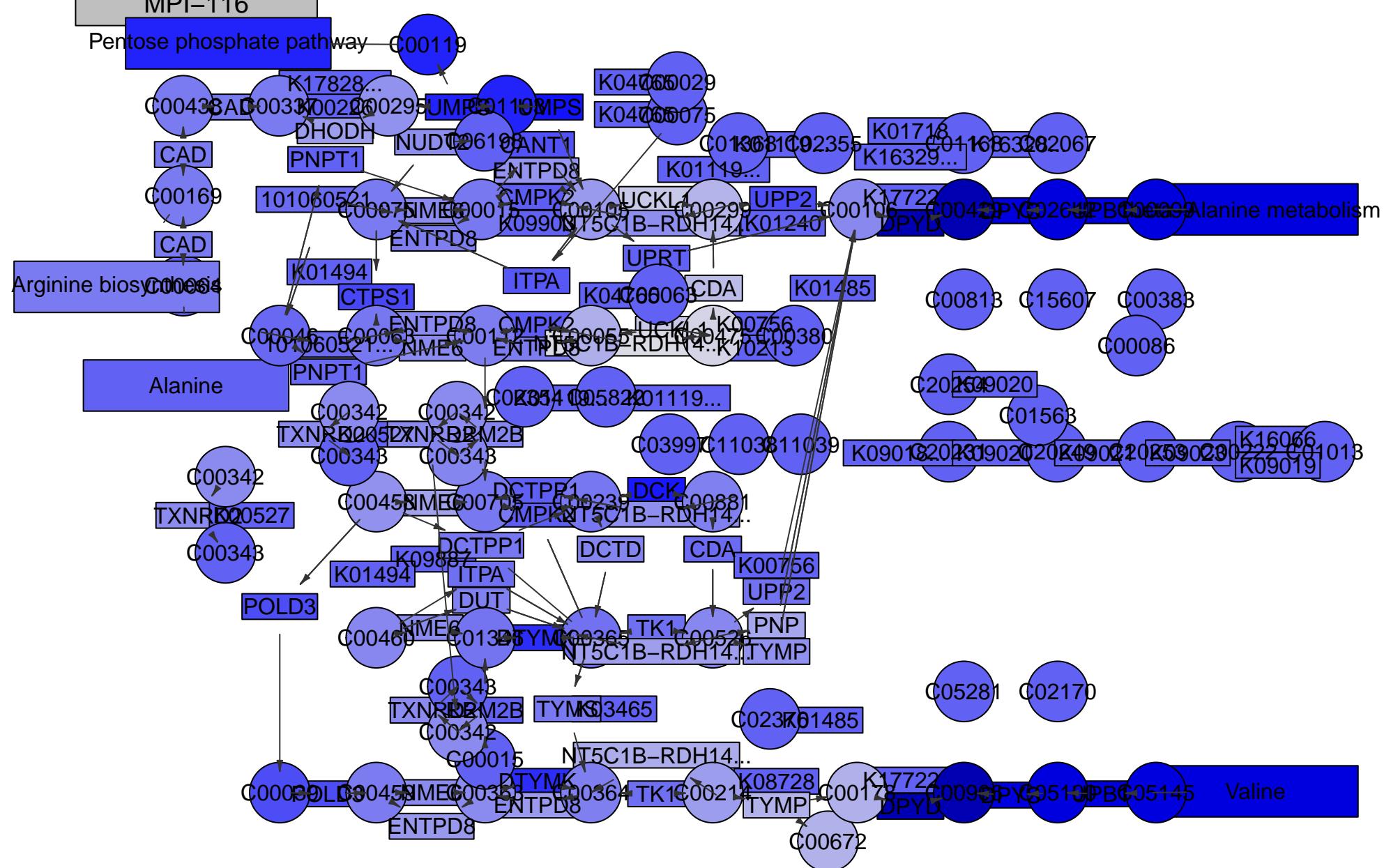
Pyrimidine metabolism

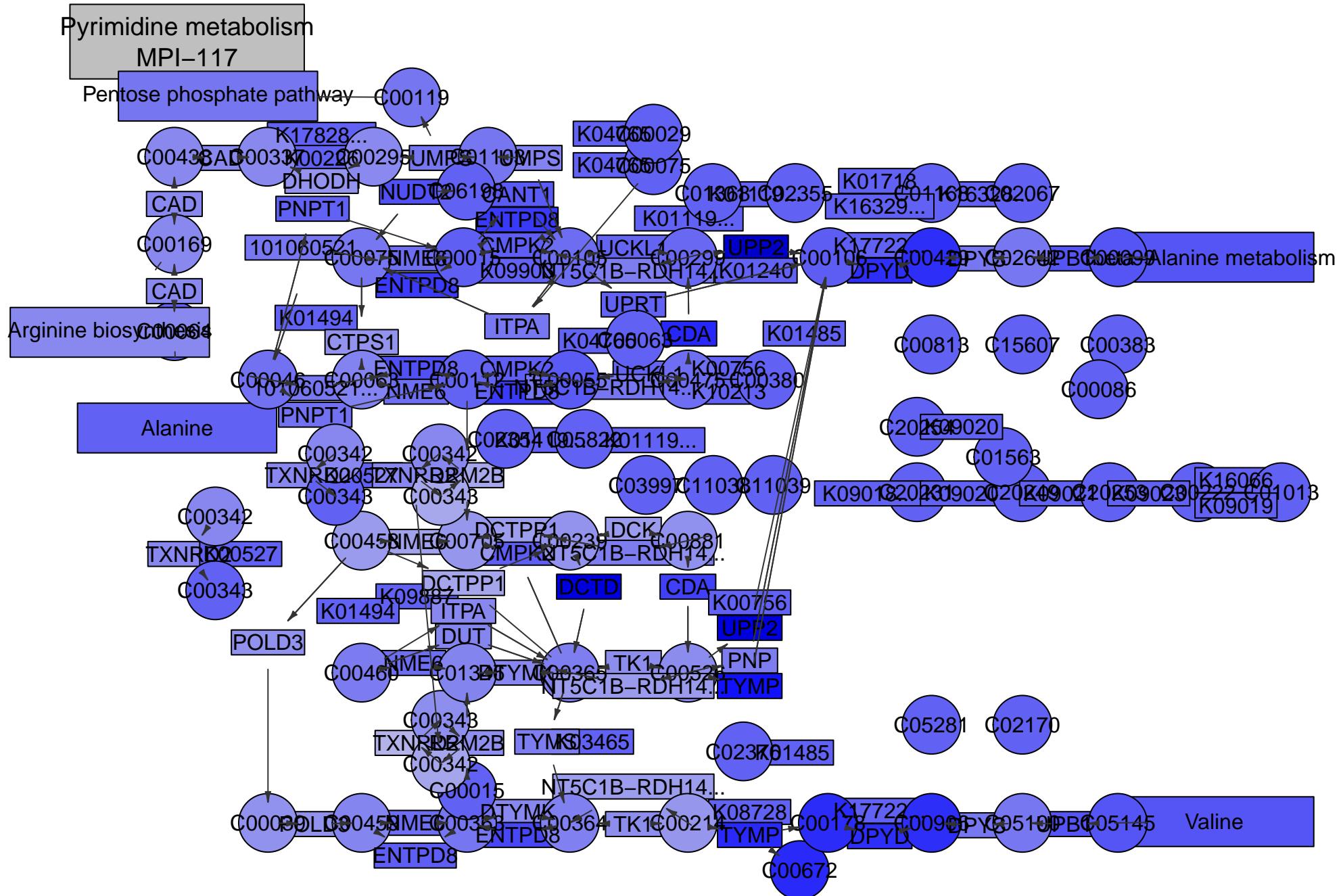
MPI-112



Pyrimidine metabolism

MPI-116





Pyrimidine metabolism
MPI-120

Pentose phosphate pathway

C00119

K17828...
C00438...
C00331...
C00220...
C00295...
UMP...
C01103...
MPS

DHODH

NUDTC06105...

CANT1

ENTPD8

CMPK2

UCKL1

C00106...

K0990N15C1B-RDH14...

K01240

UPP2

K17722

DPYD

C00421...

TPYMS...

C00264...

B00099...

Alanine metabolism

Arginine biosy

C00064

CAD

CAD

K01494

CTPS1

ENTPD8

NME6

CMPK2

ENTPD8

Uckl1

K00106...

K0990N15C1B-RDH14...

K01240

UPP2

K00756

DCK

C00342

TXNRD10052...

NME6

C00343

C00342

TXNRD100527

C00343

POLD3

K01494

DCTPP1

ITPA

DUT

C00458...

NME6

C000705...

C00235...

DCK

C00052...

TK1

C00052...

TYMP

C000365...

TYMP

C000364...

TK1

C000214...

TYMP

K08728

K17722

DPYD

C00901...

TPYMS...

C00510...

B005145...

Valine

C00813

C15607

C00383

C00086

C20156...

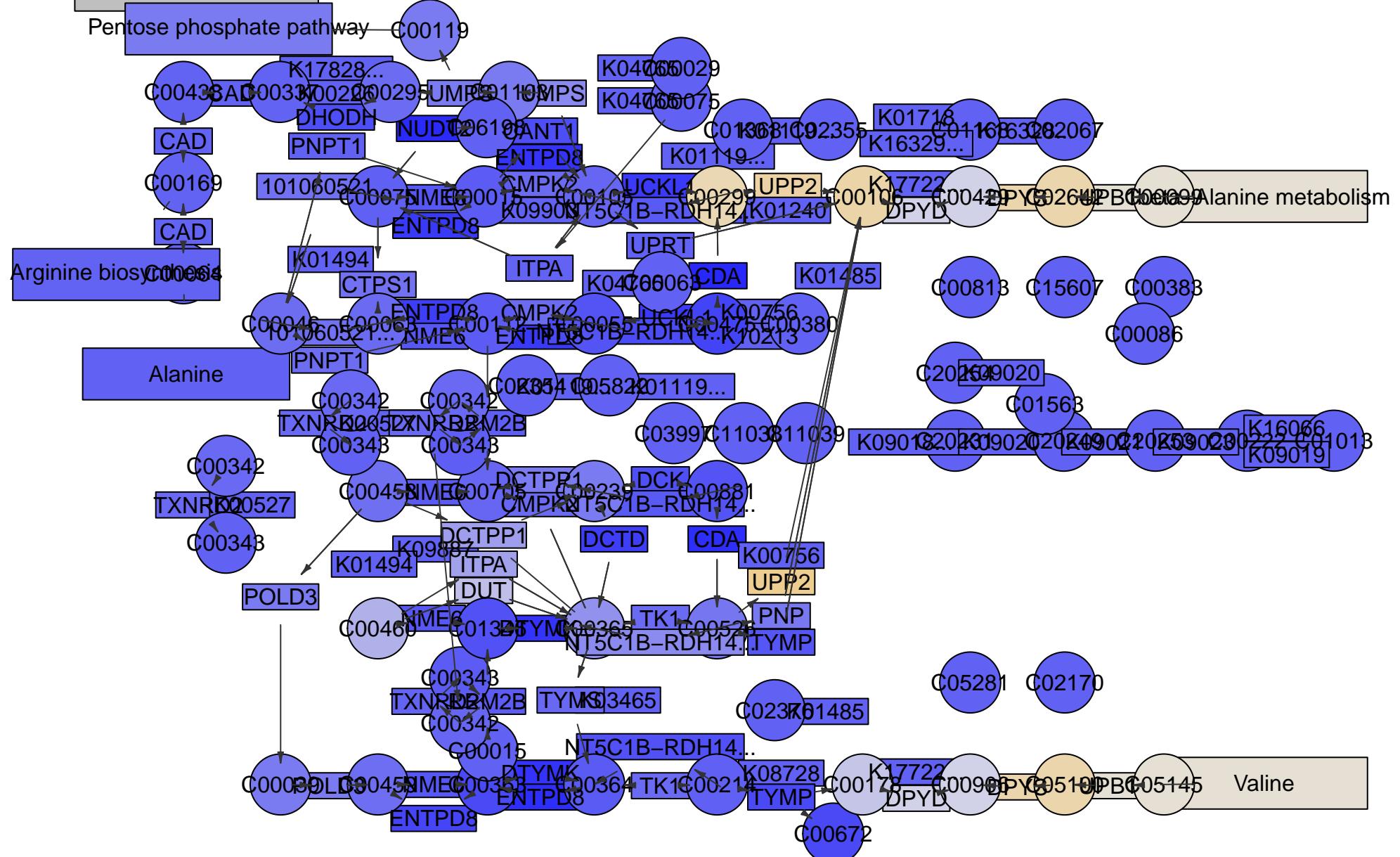
C01563

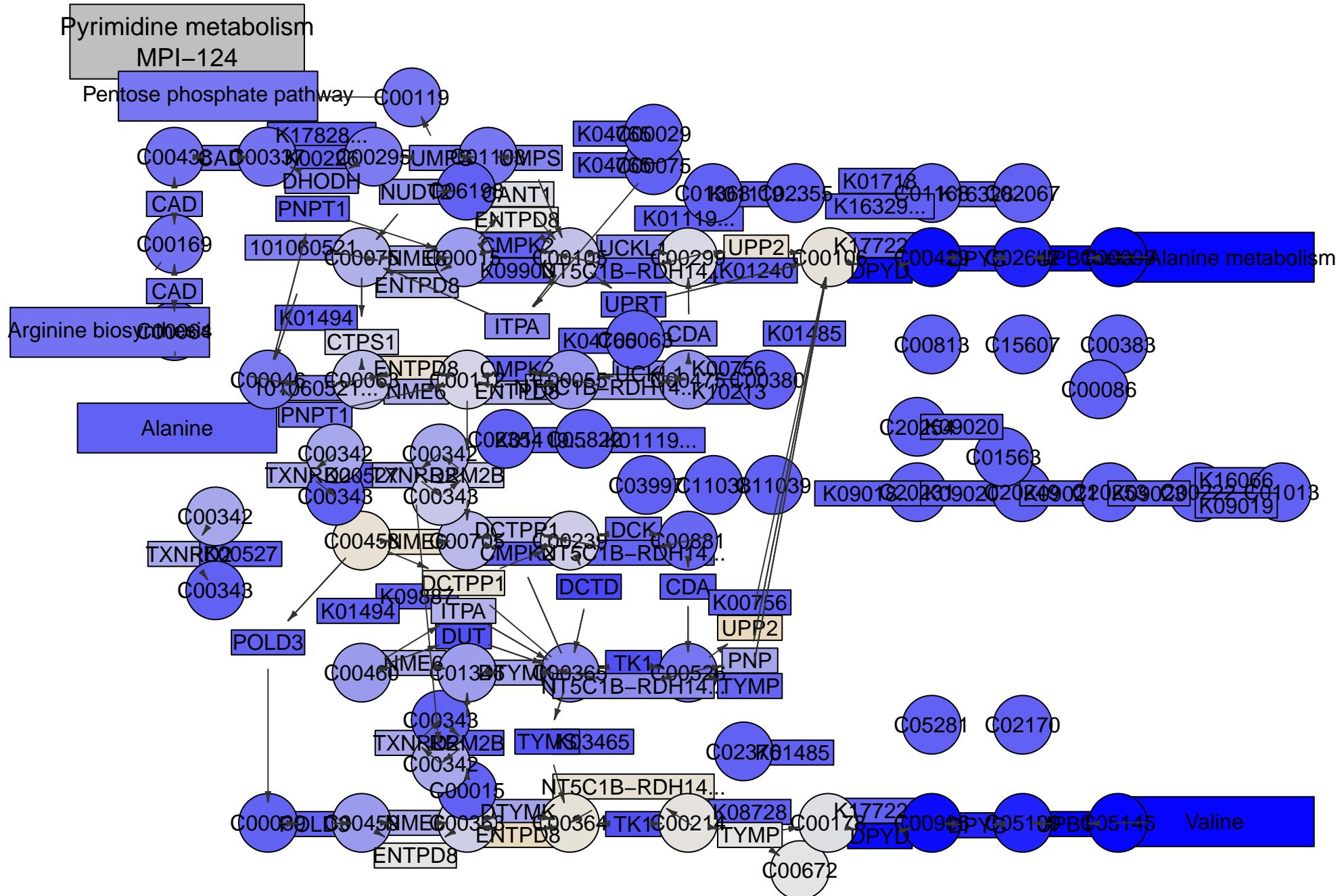
K16066

K09019...

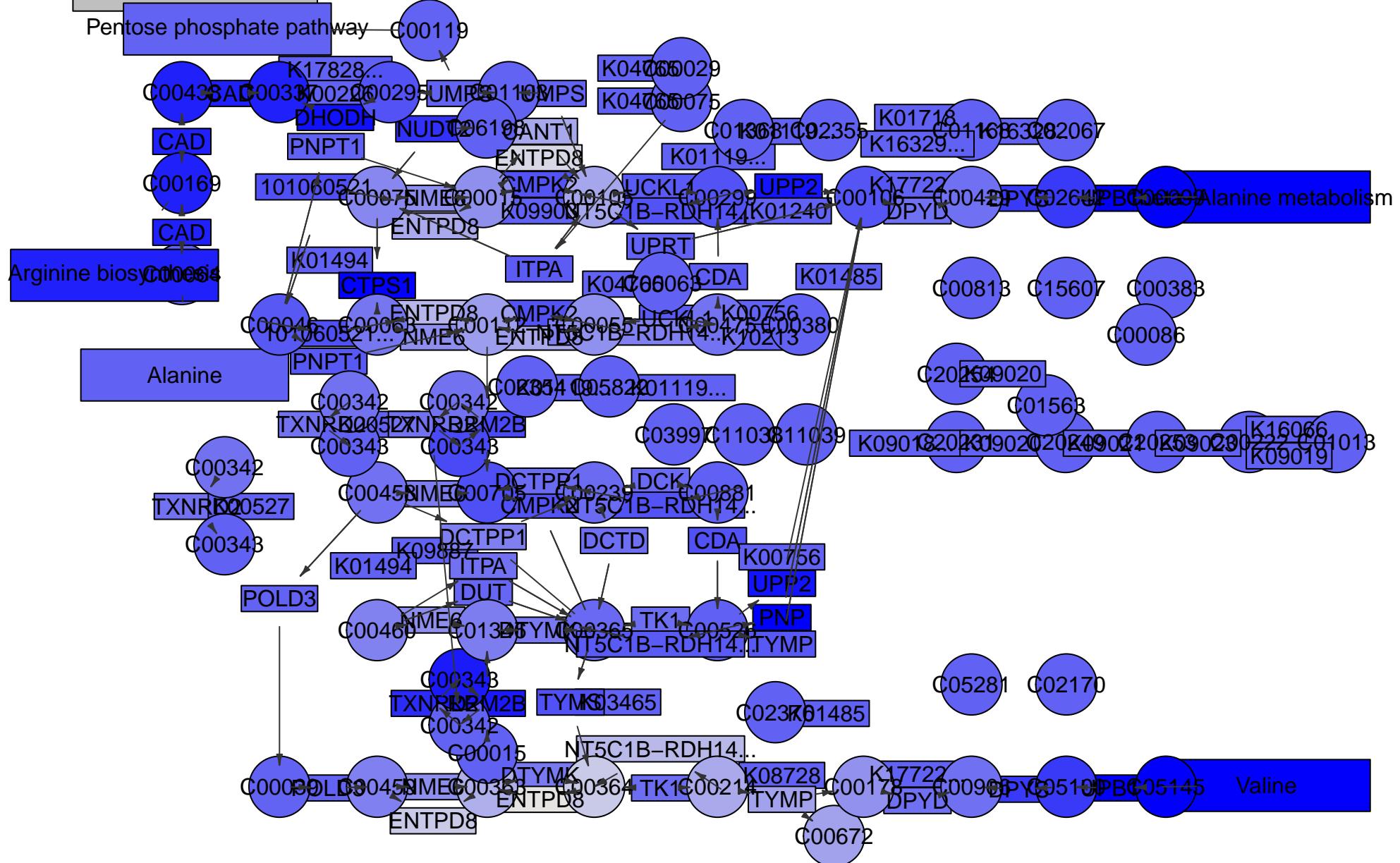
K1

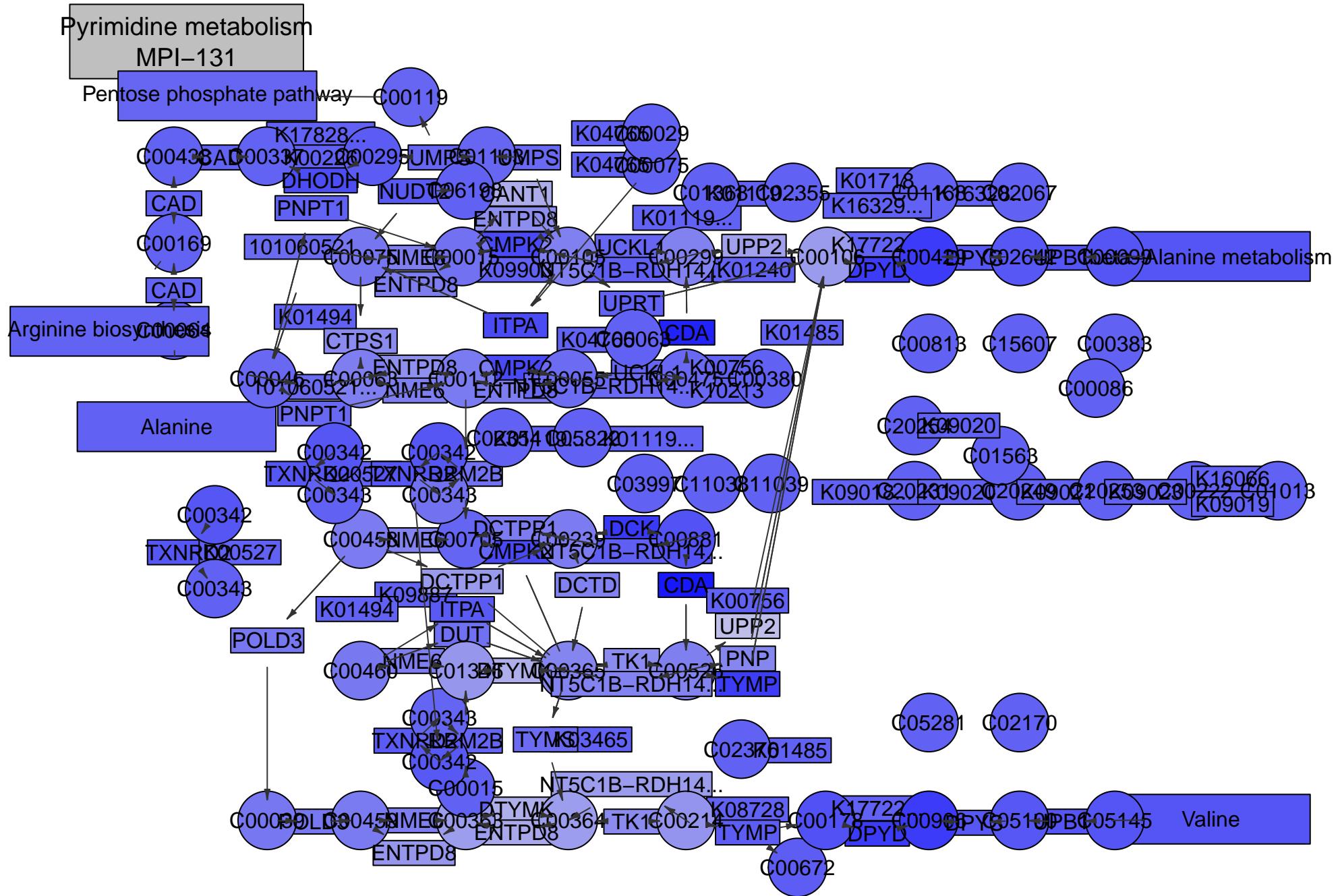
Pyrimidine metabolism
MPI-121

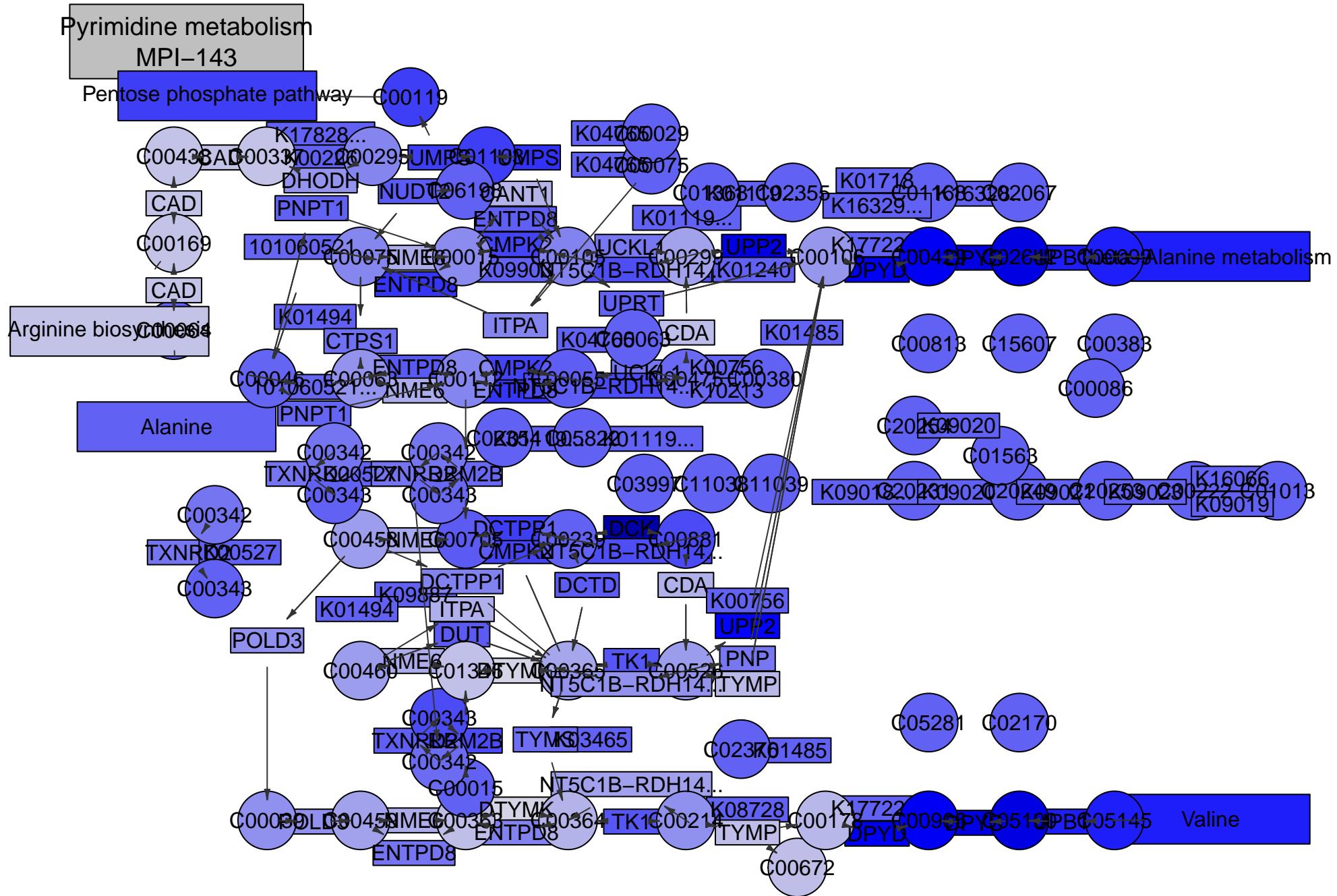


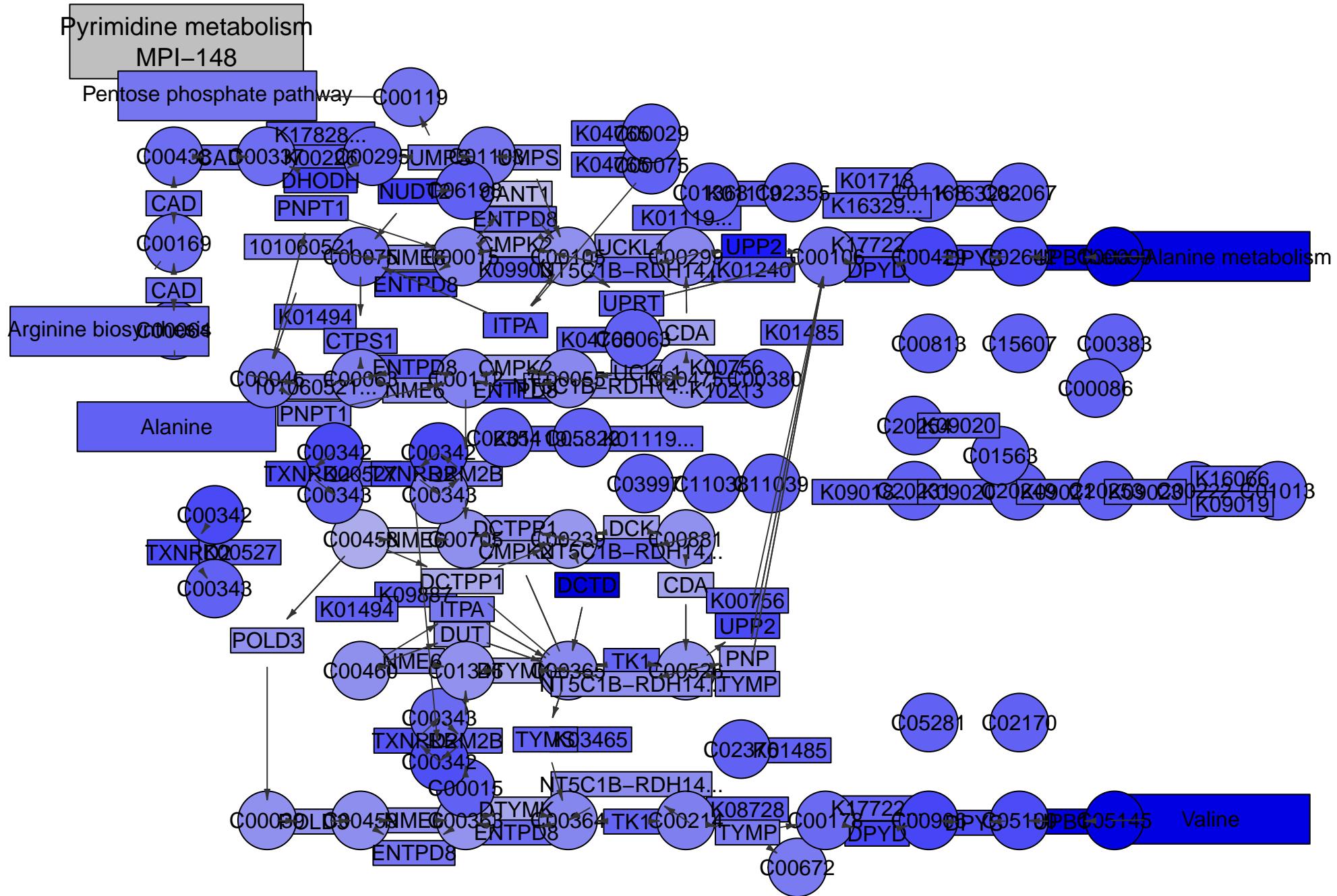


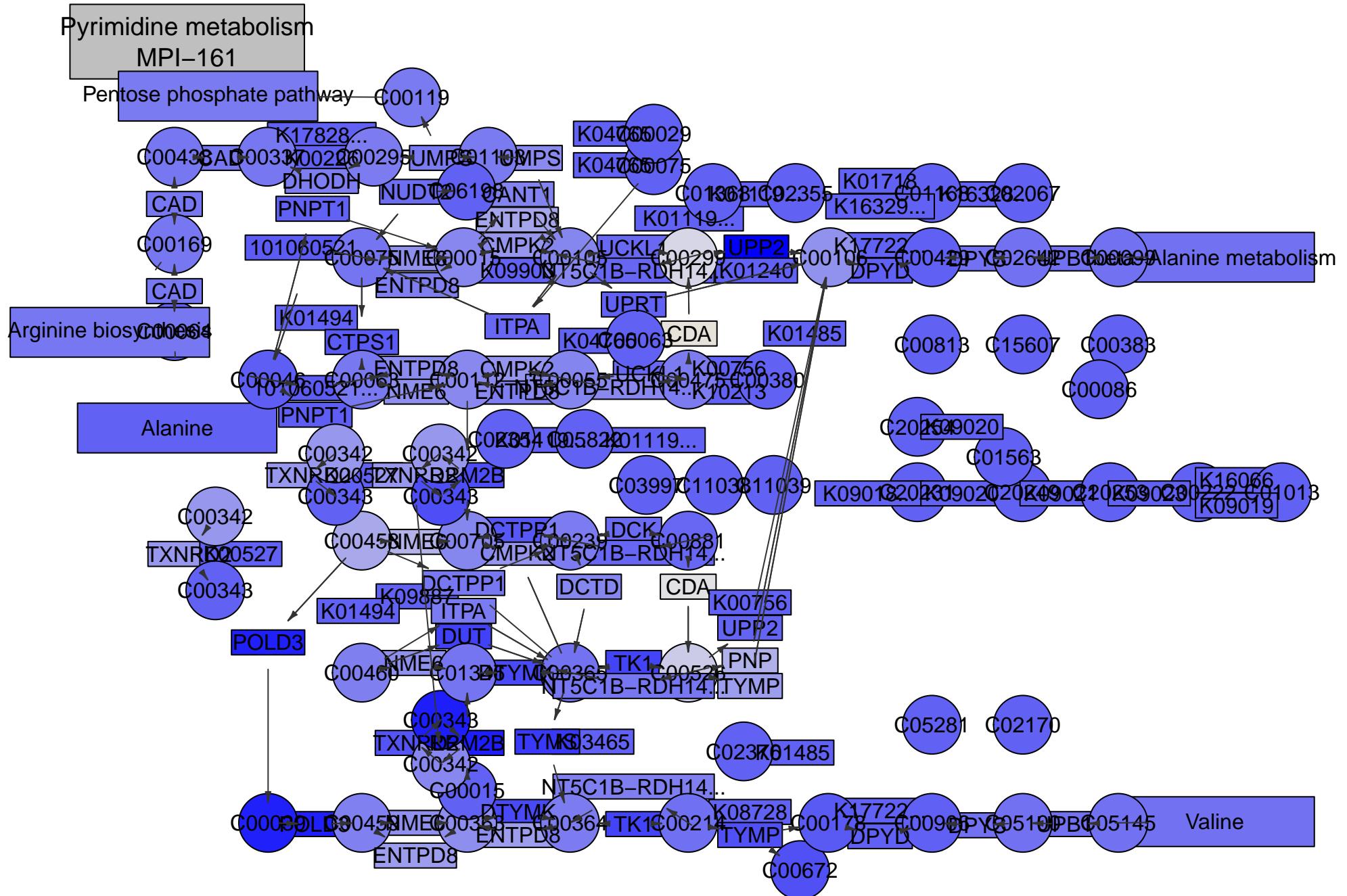
Pyrimidine metabolism
MPI-126

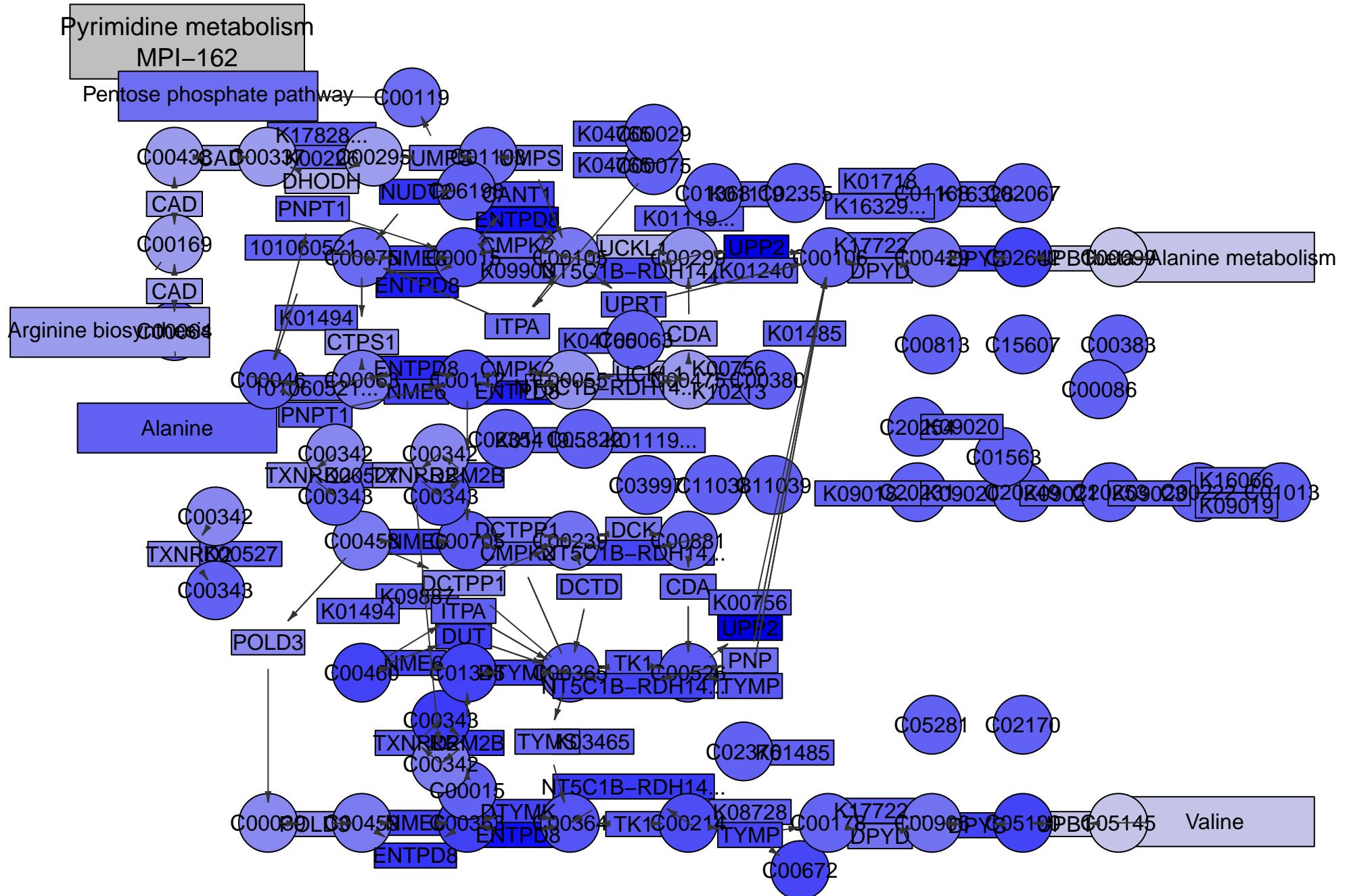


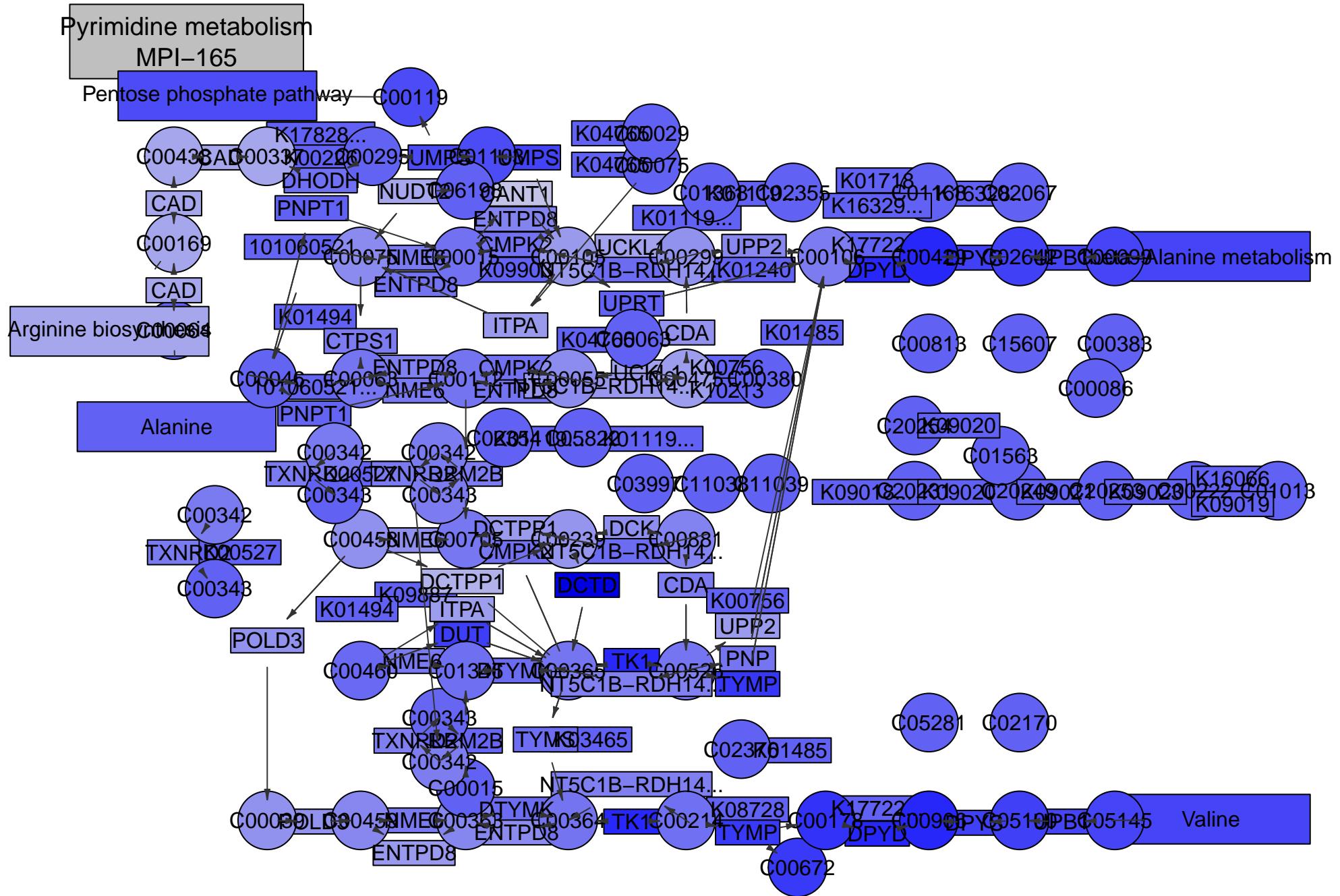


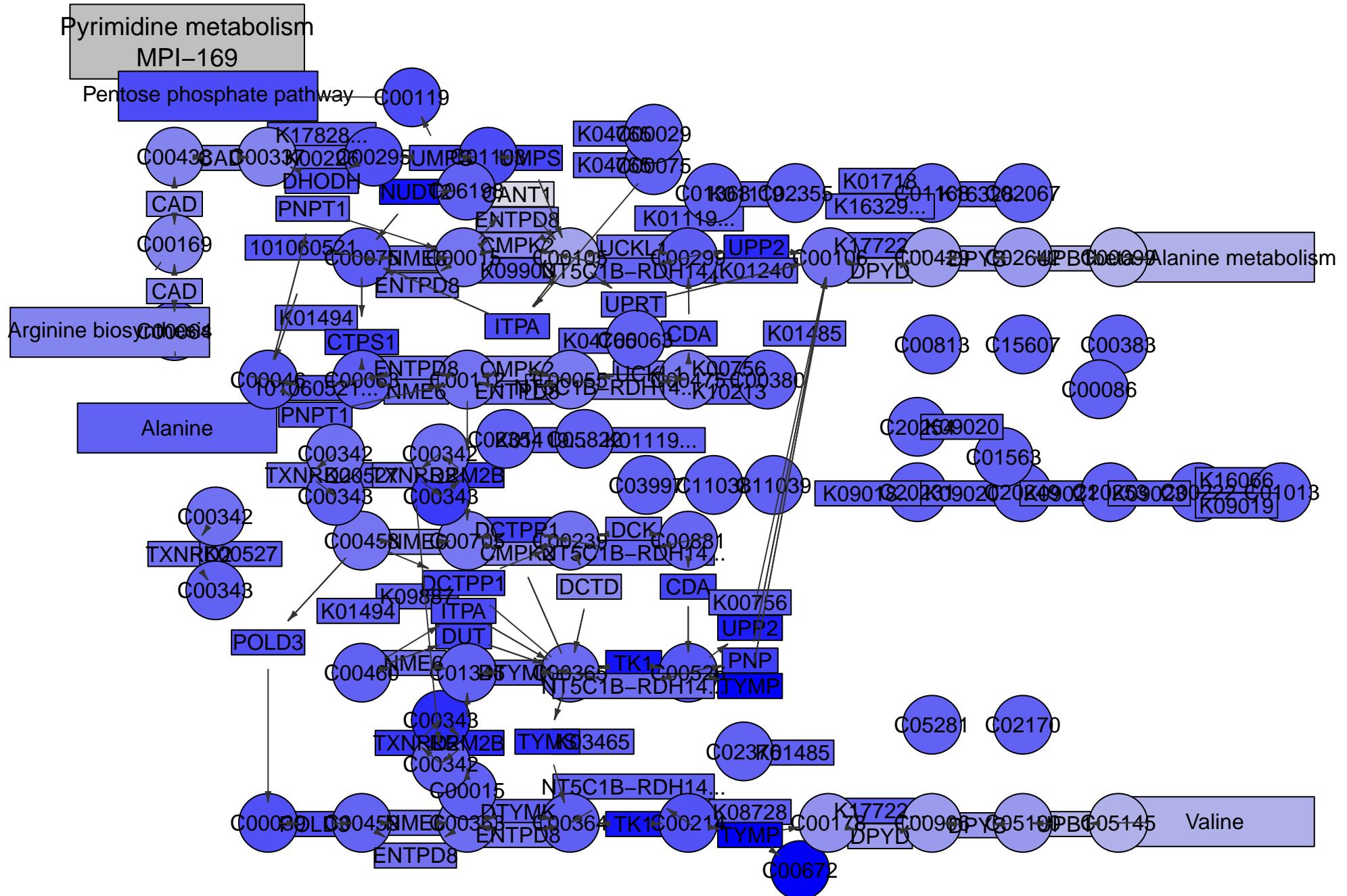












Pyrimidine metabolism
MPI-175

Pentose phosphate pathway C00119

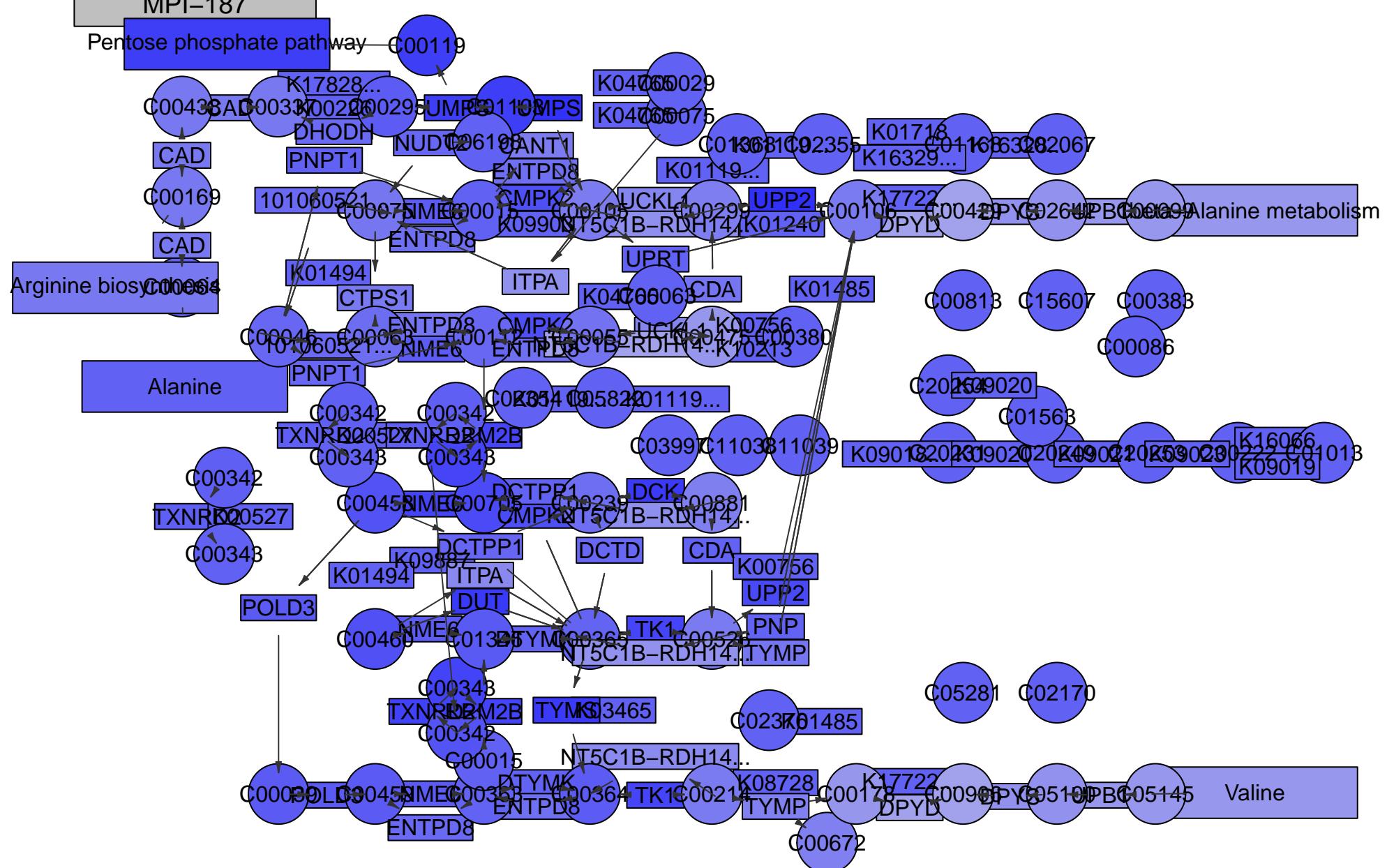
C00433 CAD C00331 C00220 C00295 UMPK2 C01103 MPS

DHODH NUDT206105

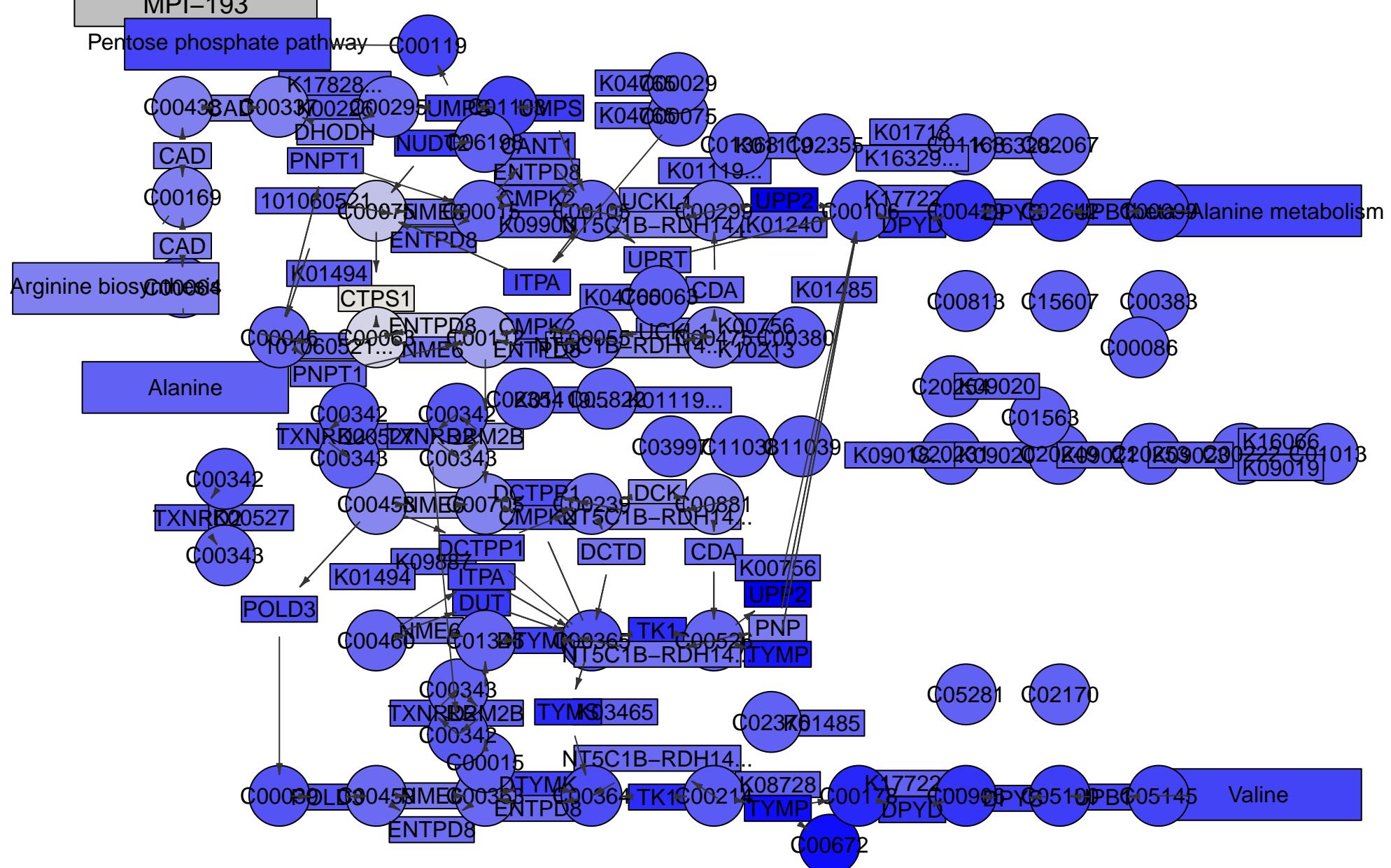
PNPT1 CANT1 ENTPD8

CAD

Pyrimidine metabolism
MPI-187

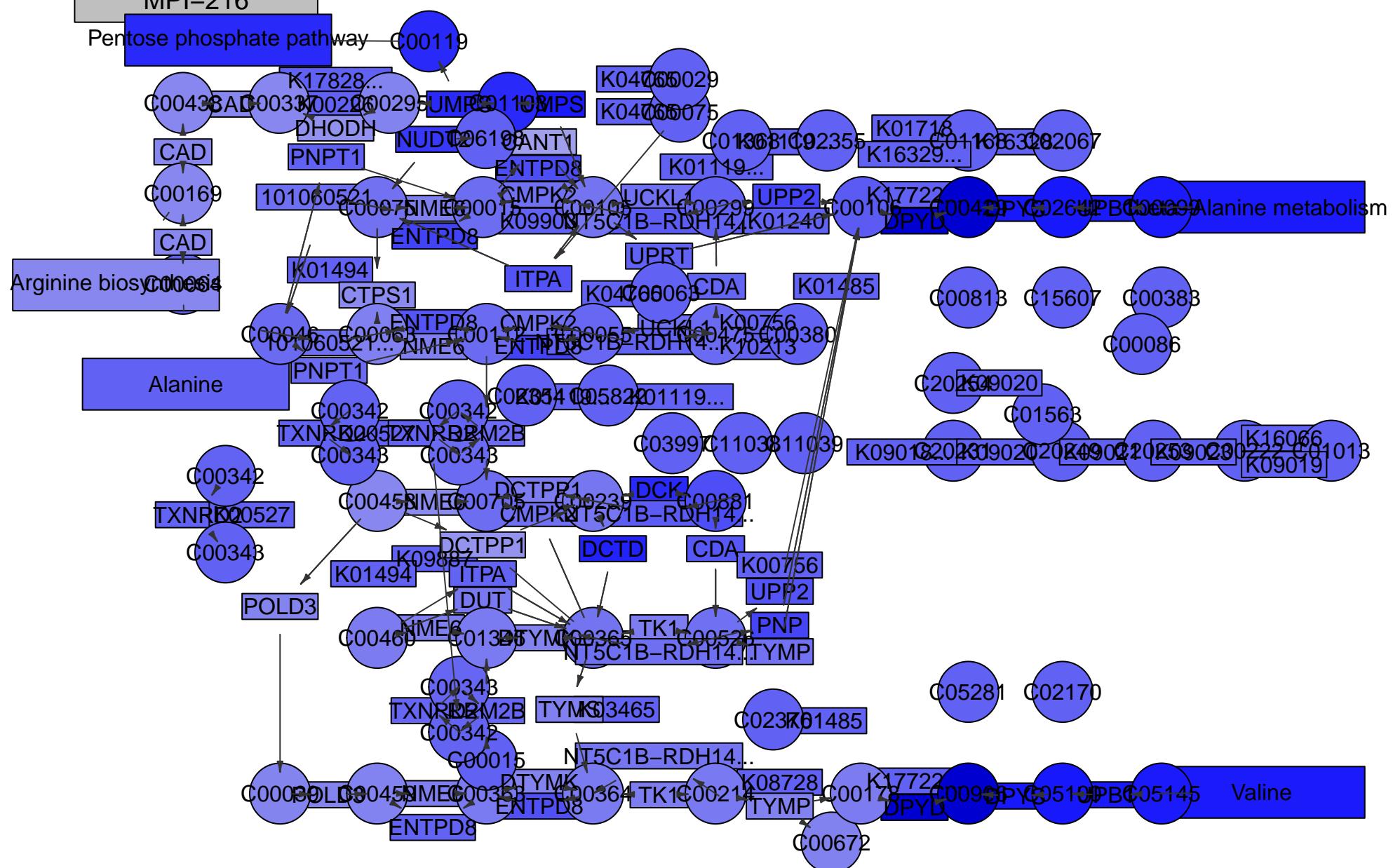


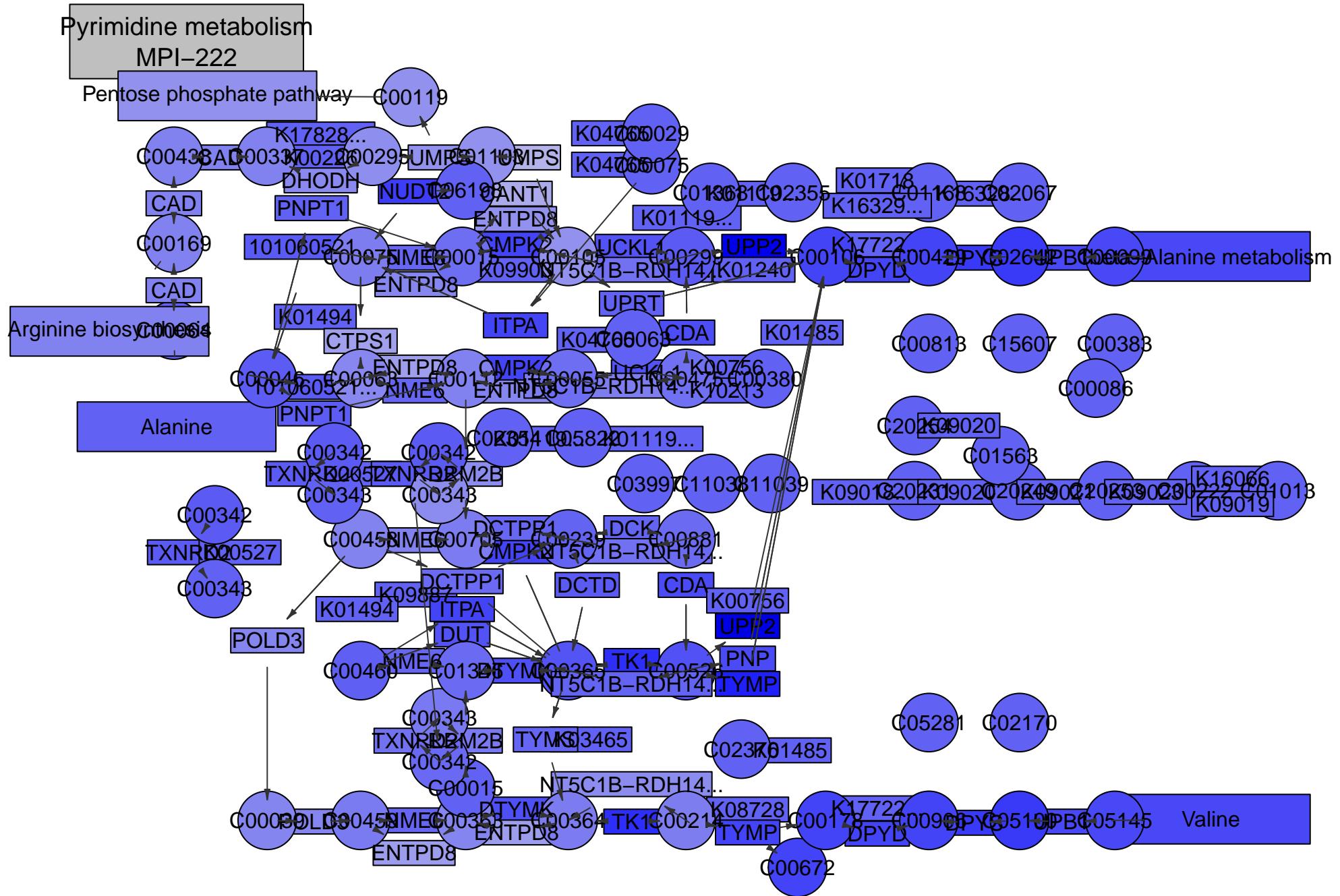
Pyrimidine metabolism
MPI-193



Pyrimidine metabolism

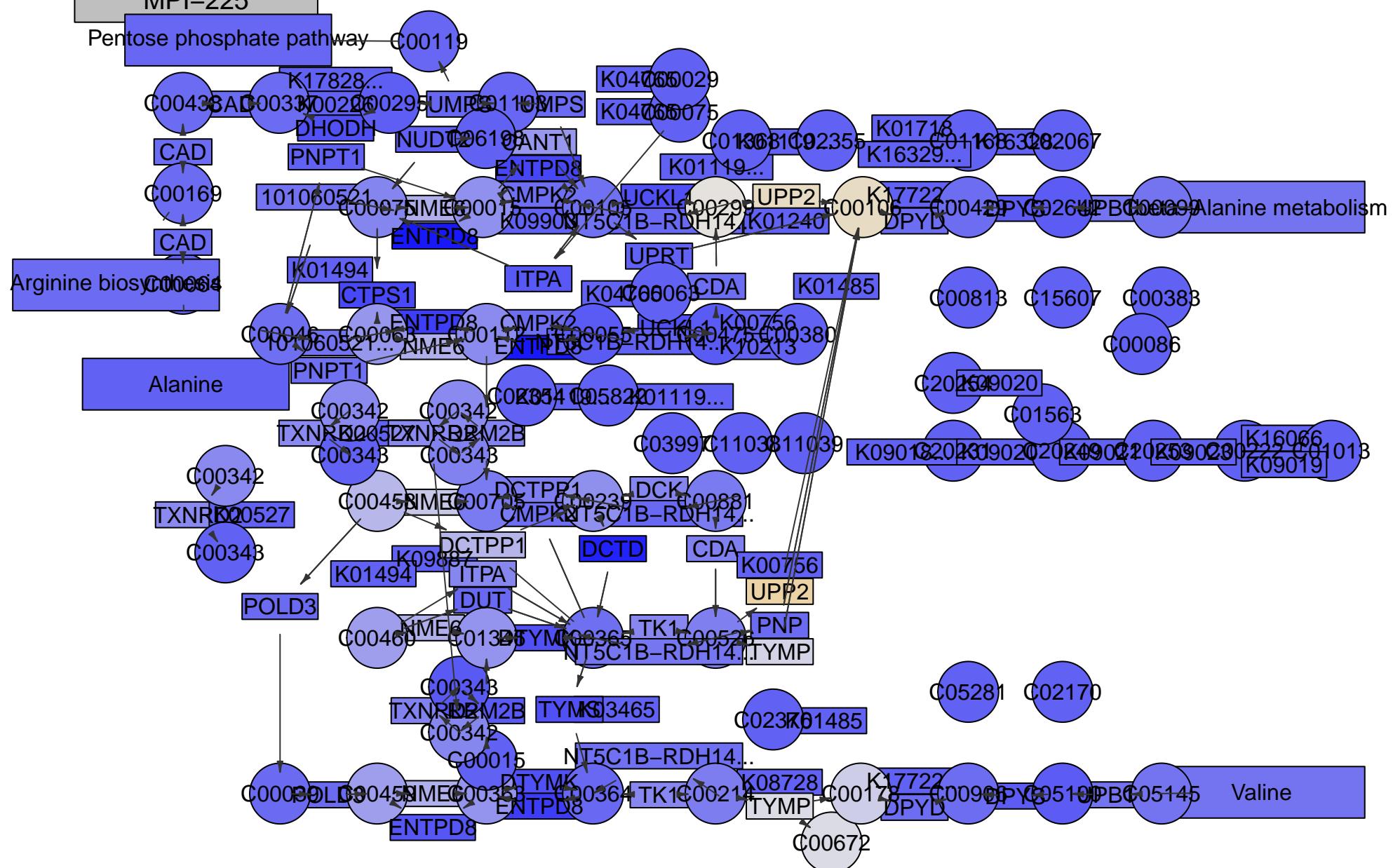
MPI-216



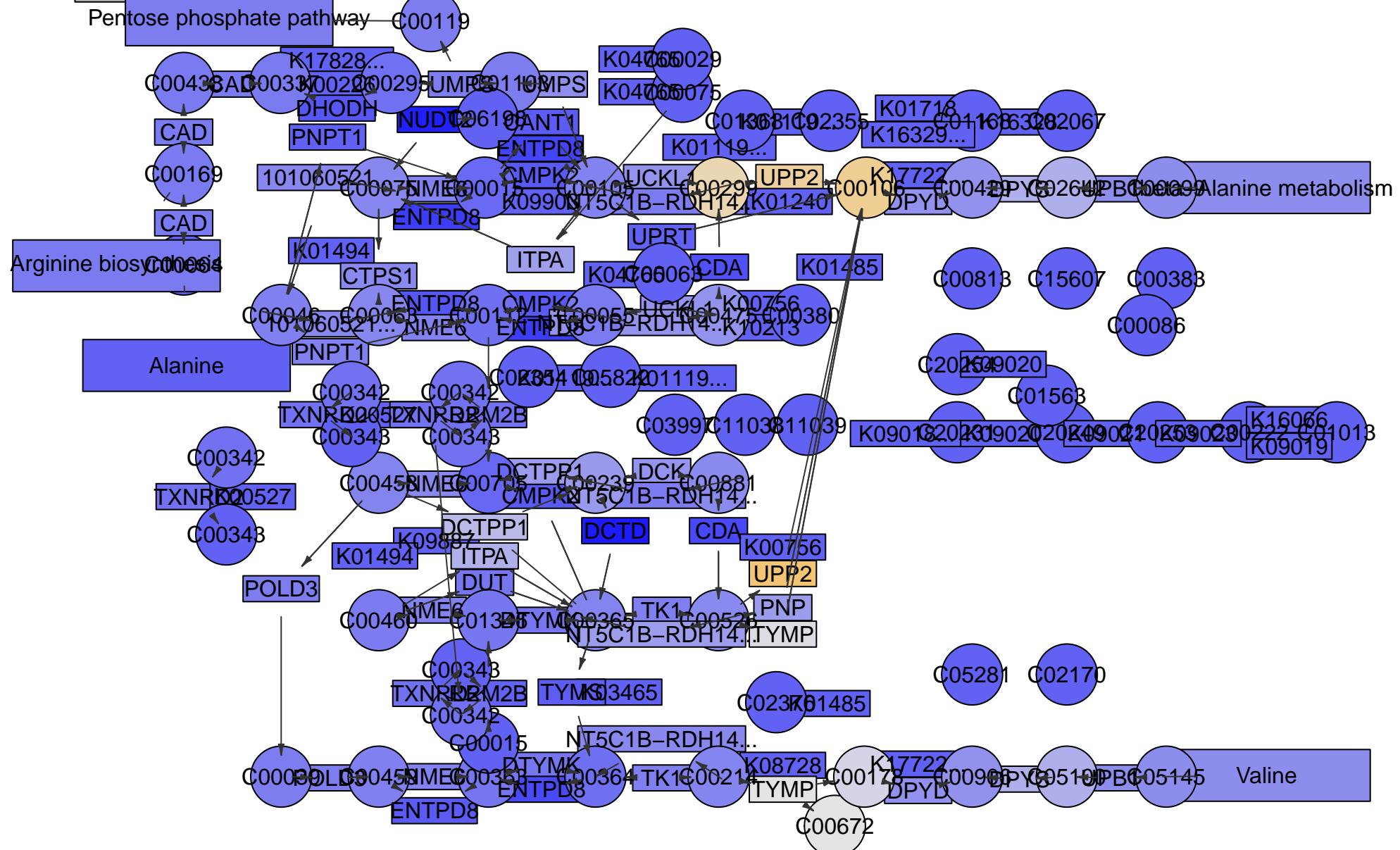


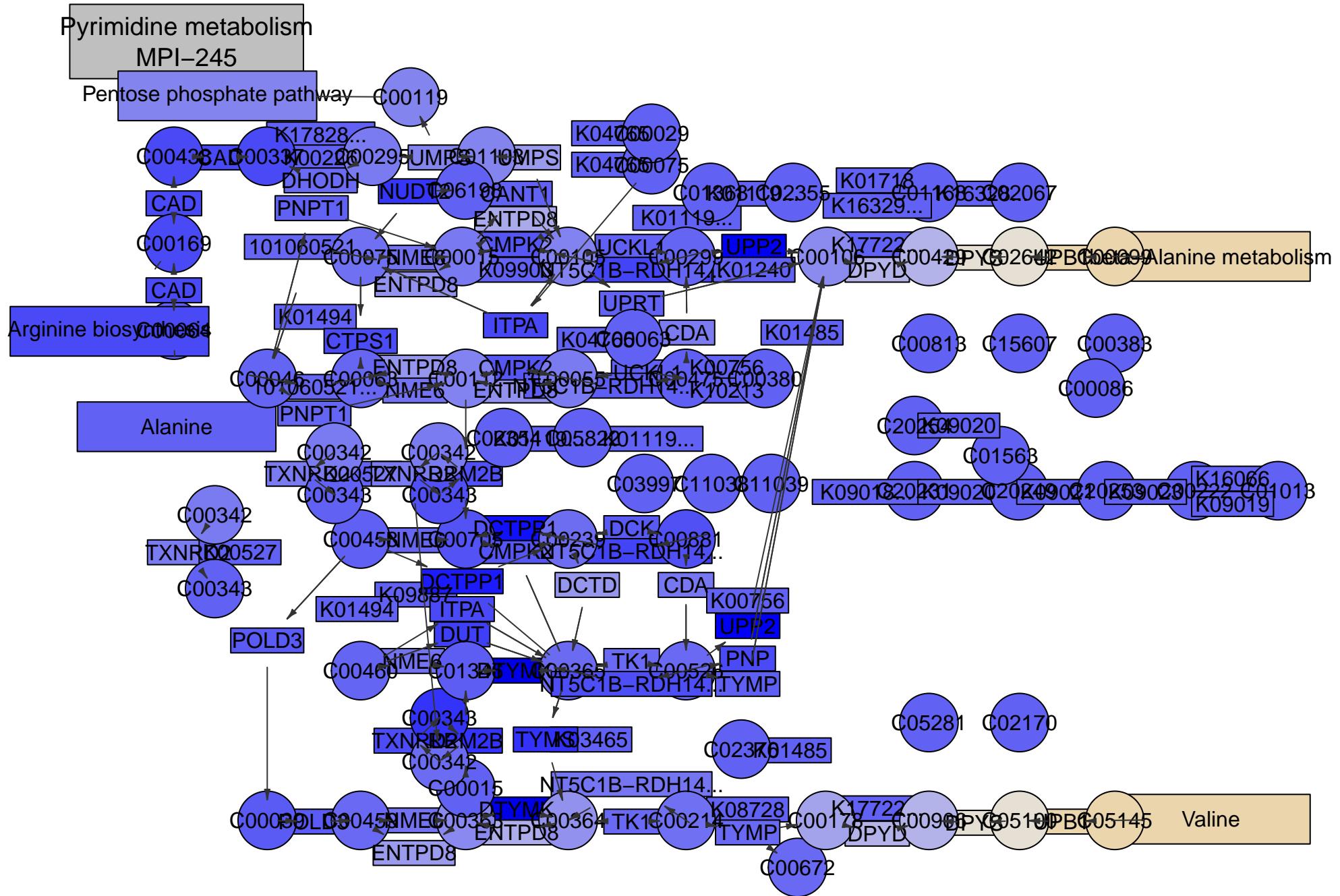
Pyrimidine metabolism

MPI-225



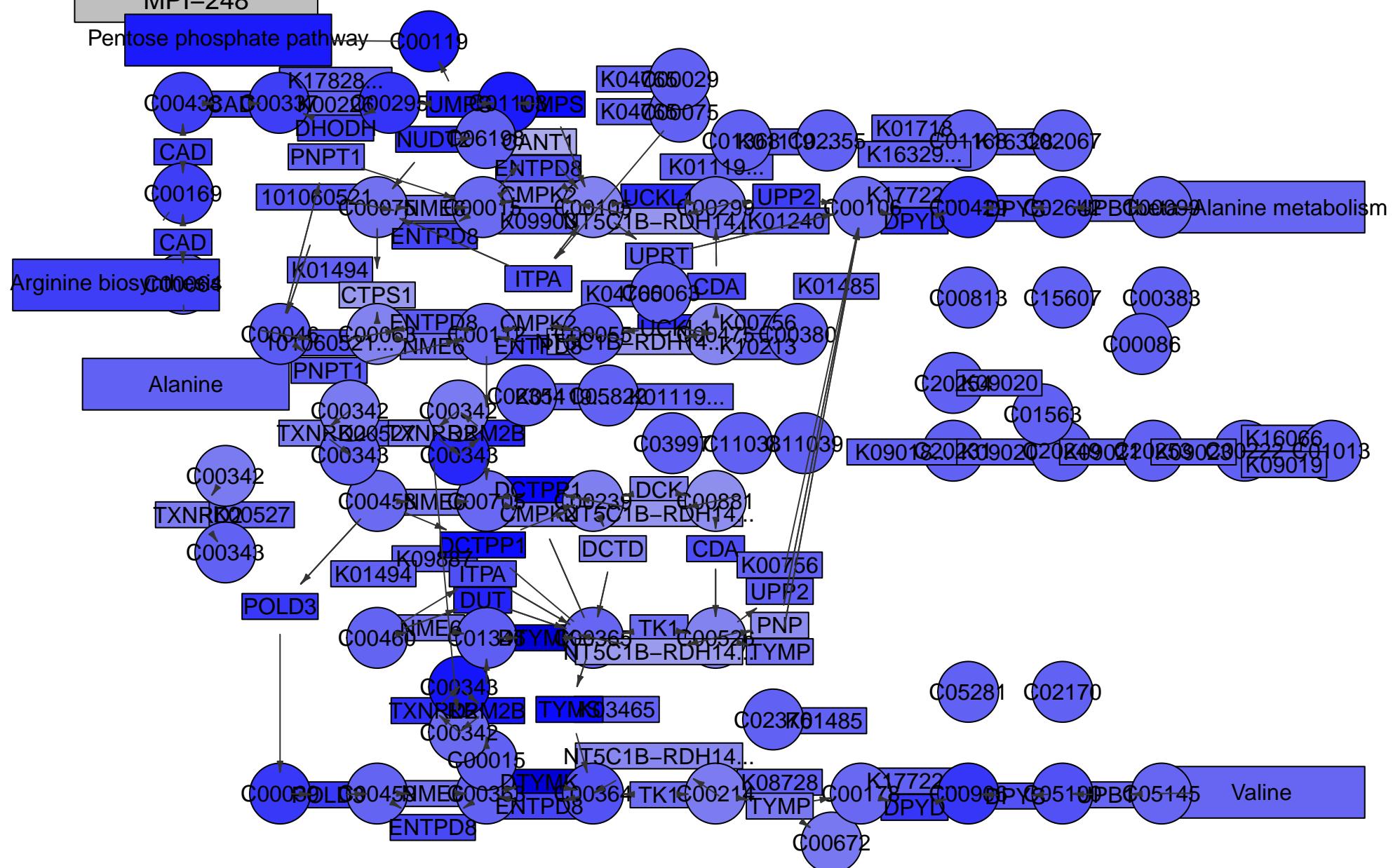
Pyrimidine metabolism
MPI-242





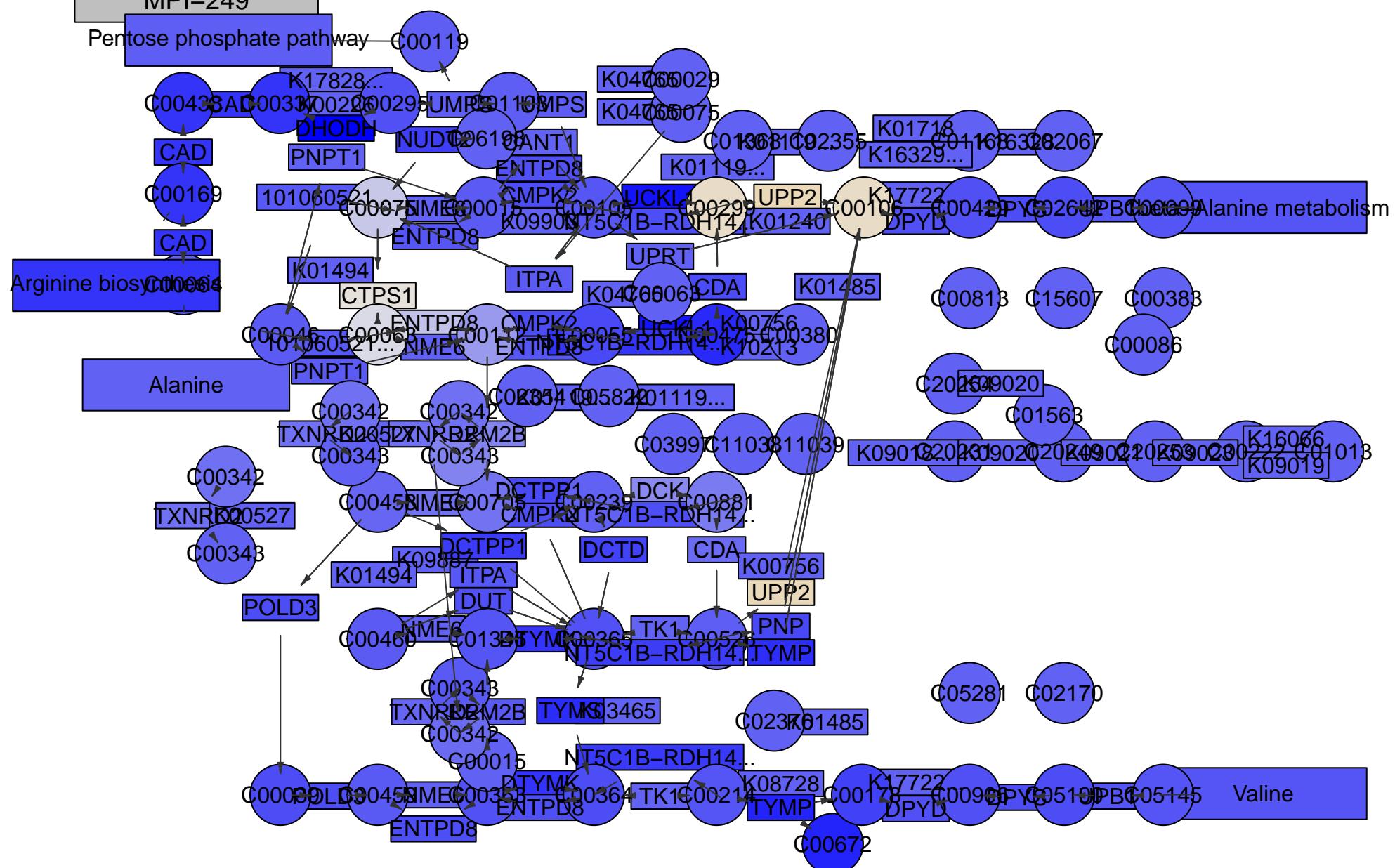
Pyrimidine metabolism

MPI-248



Pyrimidine metabolism

MPI-249



Pyrimidine metabolism
MPI-250

Pentose phosphate pathway C00119

C00438 CAD C00330 C00220 C00295 UMPK2 C01103 MPS

DHODH

NUDT26105

CANT1

ENTPD8

K17828...

K04765029

K04765075

C013681092355

K01119...

K01718

K16329...

C011683202067

K17722

C00422 PVP C02642 PBC00099

Alanine metabolism

Arginine biosy C00064

C00169

CAD

C00169

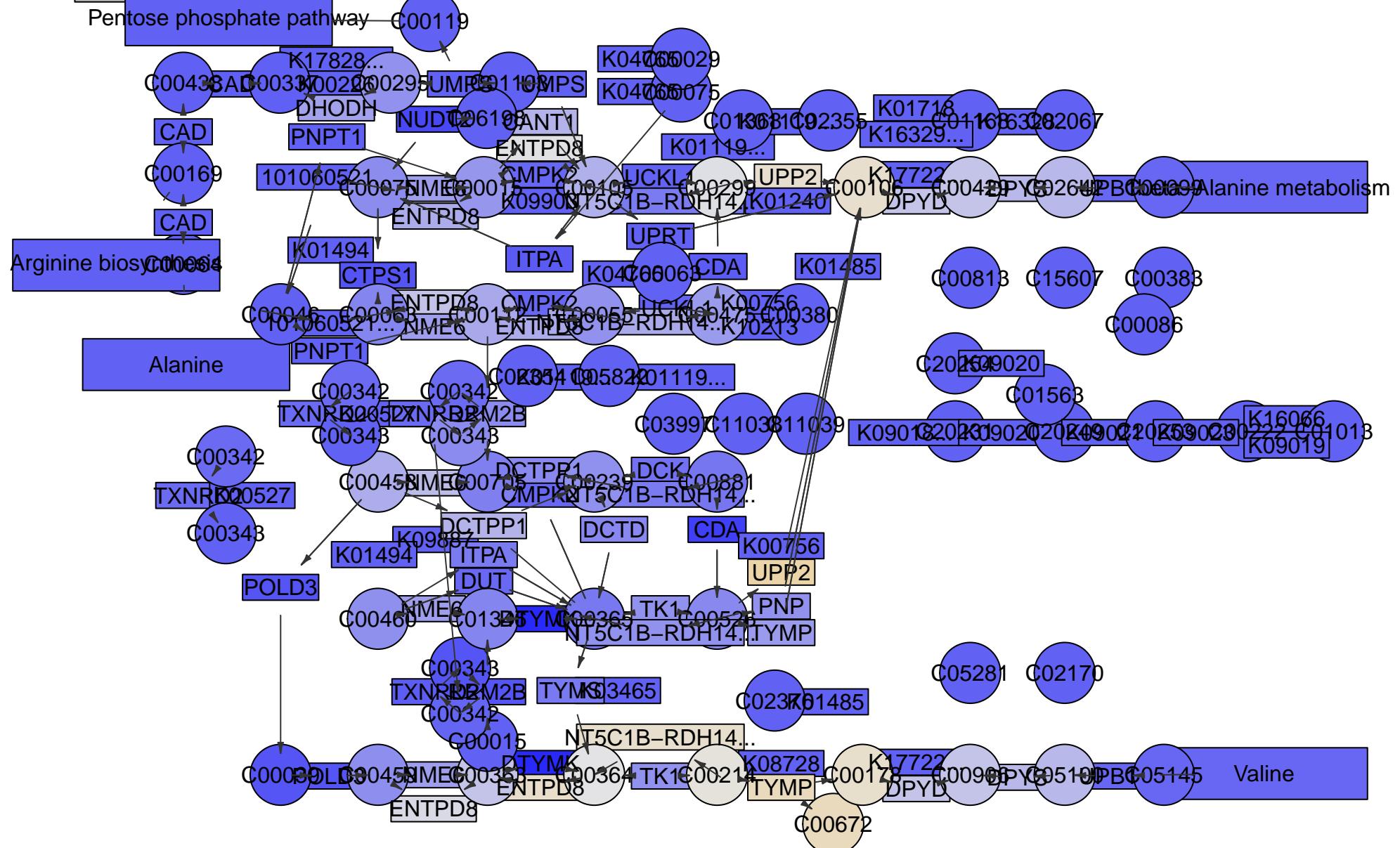
CAD

C00169

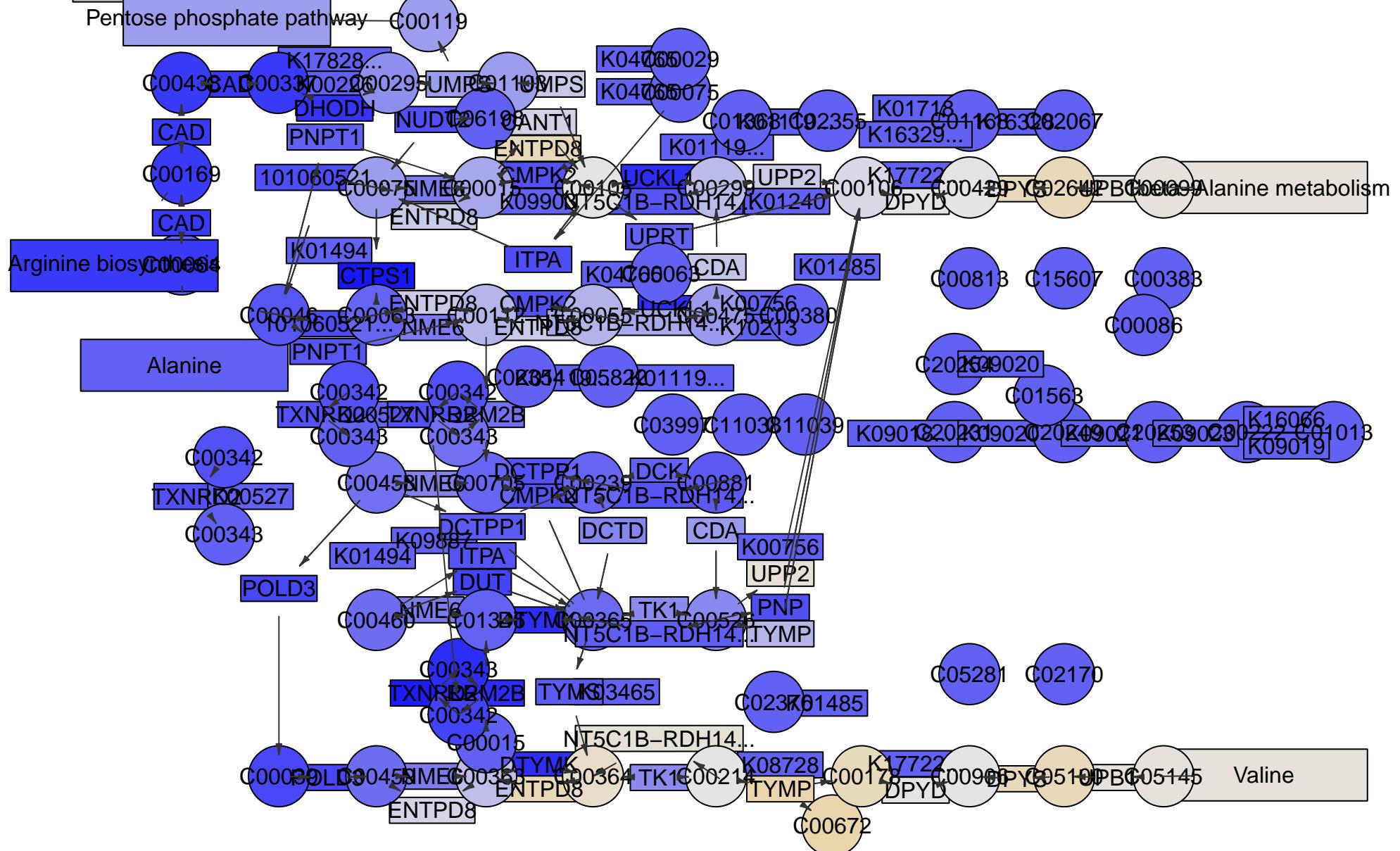
C00064

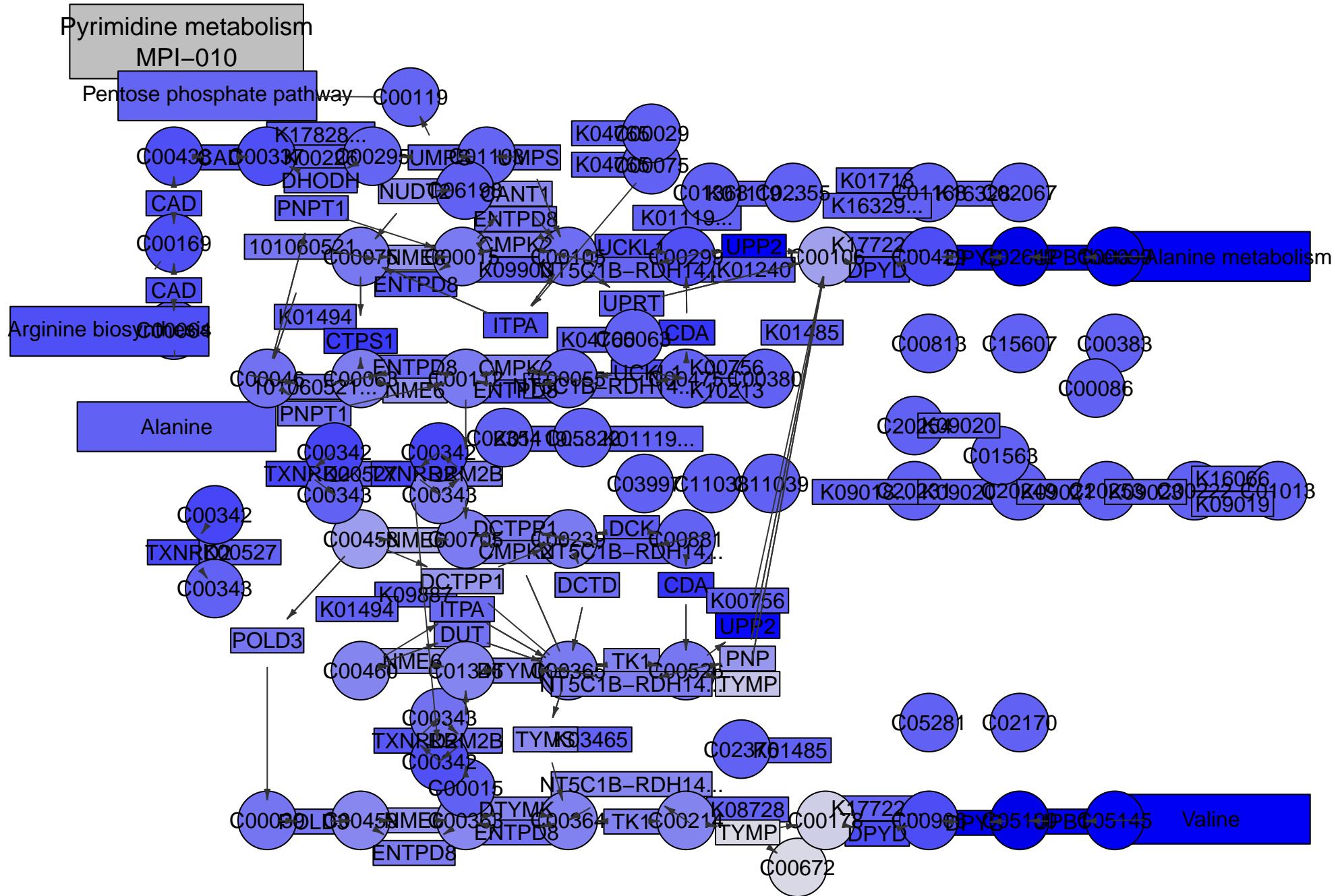
C0

Pyrimidine metabolism
MPI-008



Pyrimidine metabolism
MPI-009

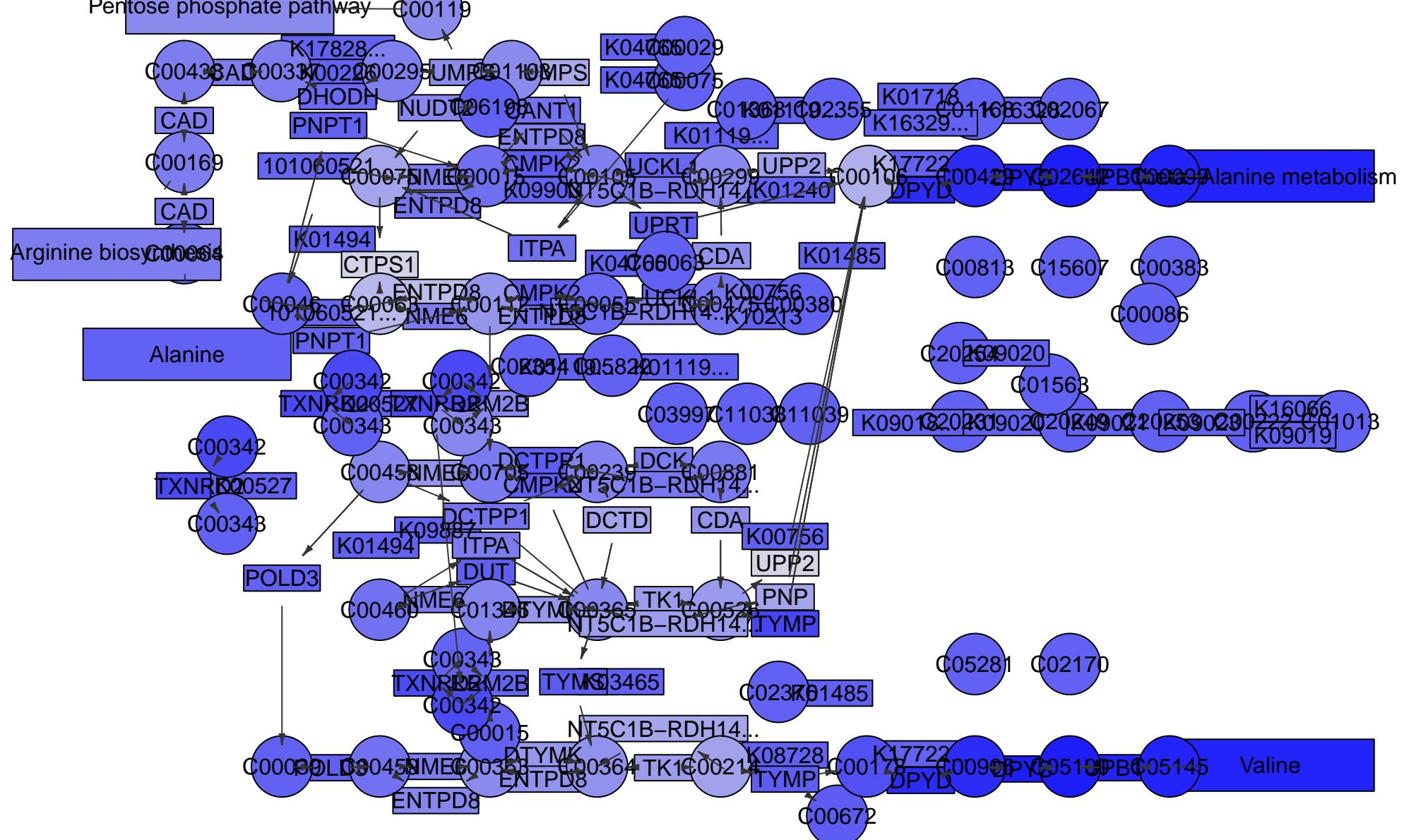


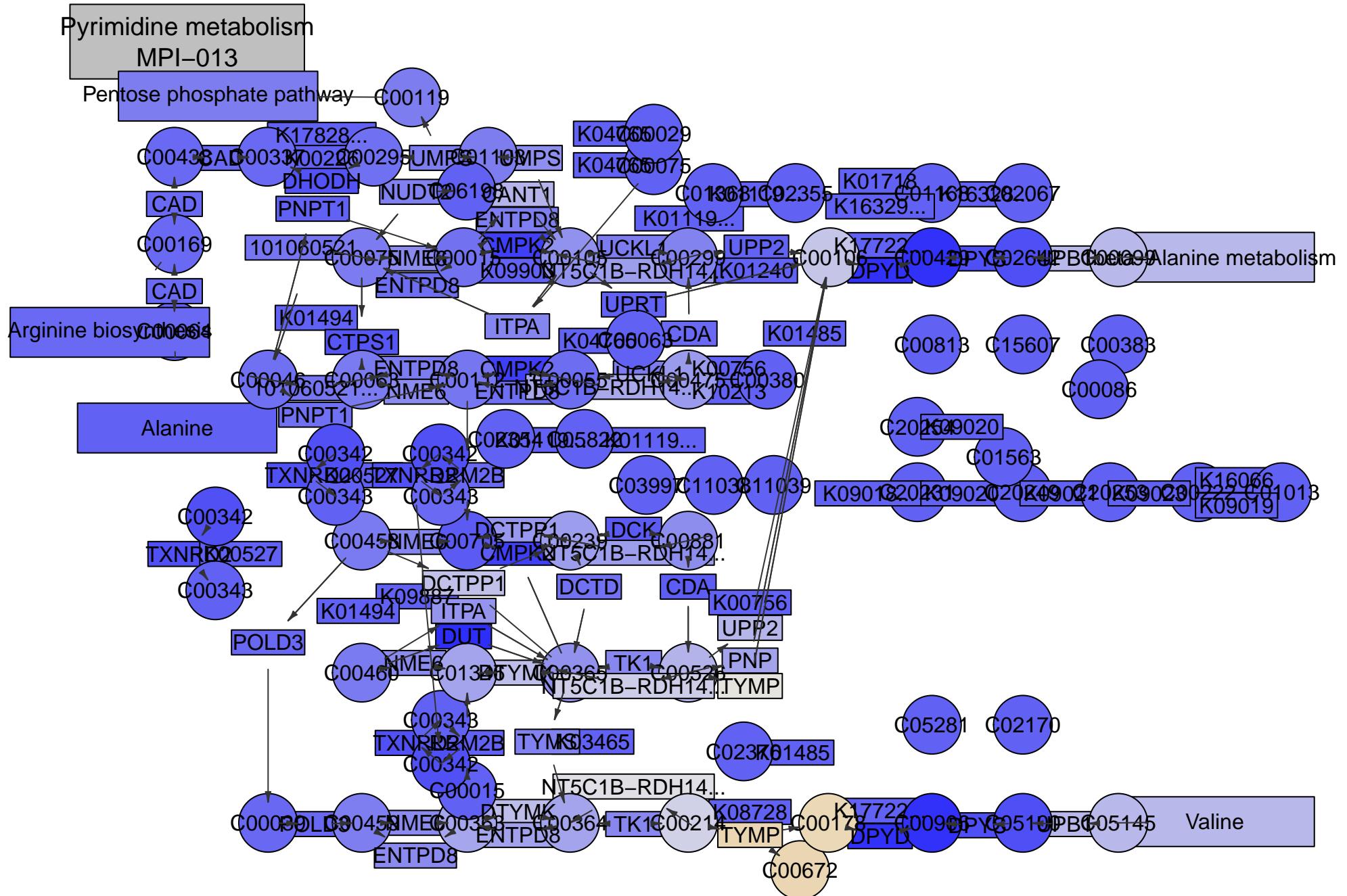


Pyrimidine metabolism

MPI-012

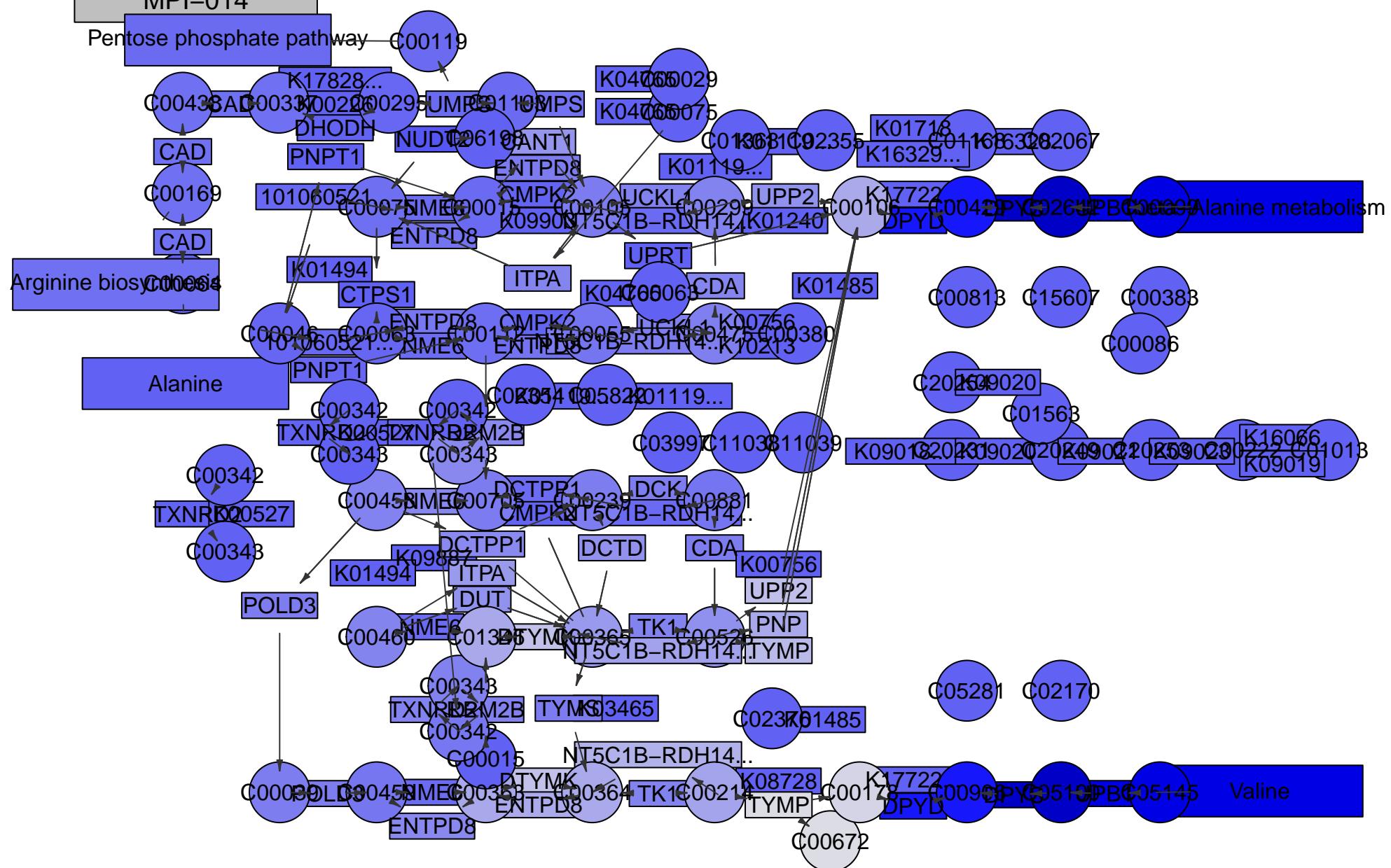
Pentose phosphate pathway C00119



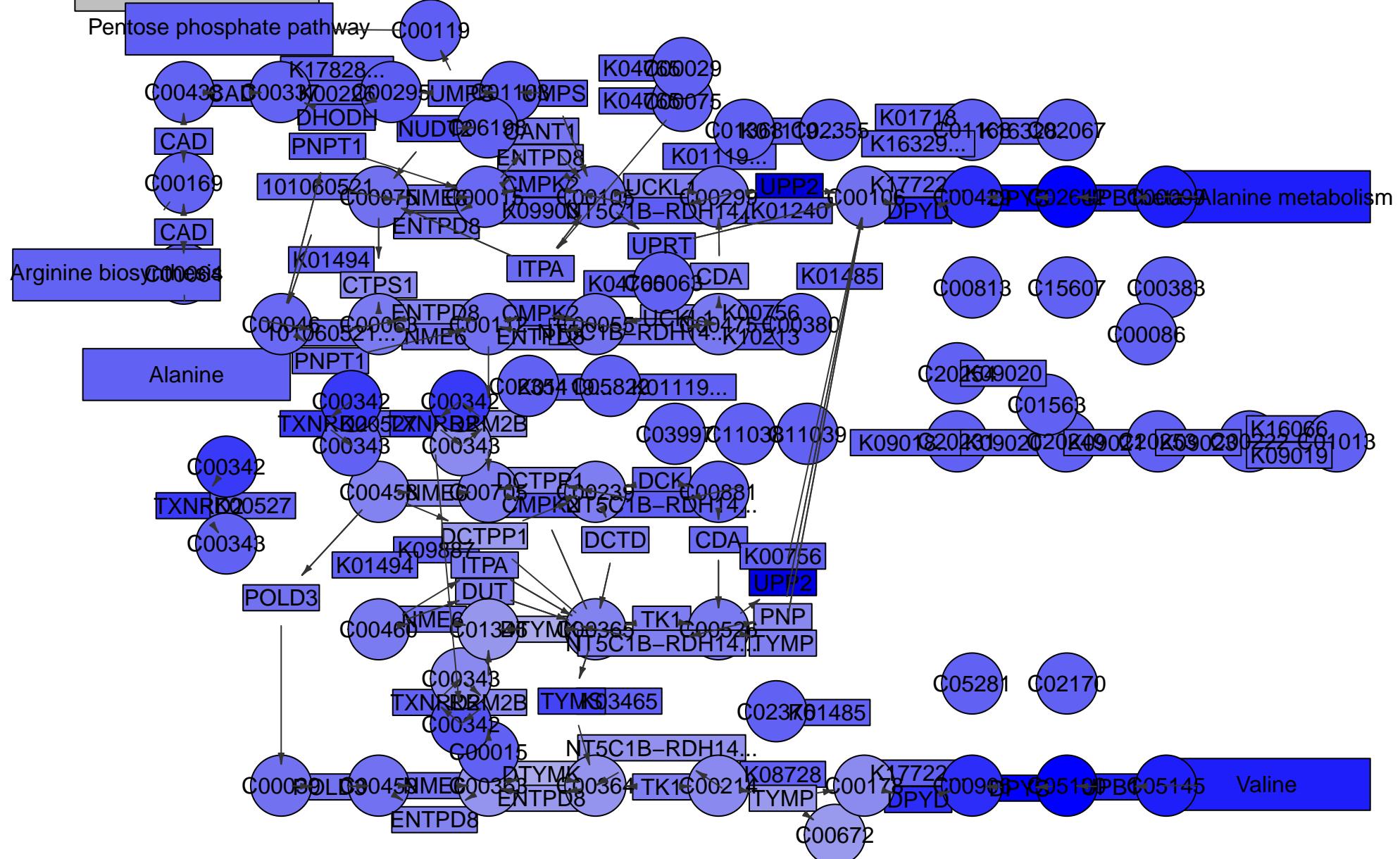


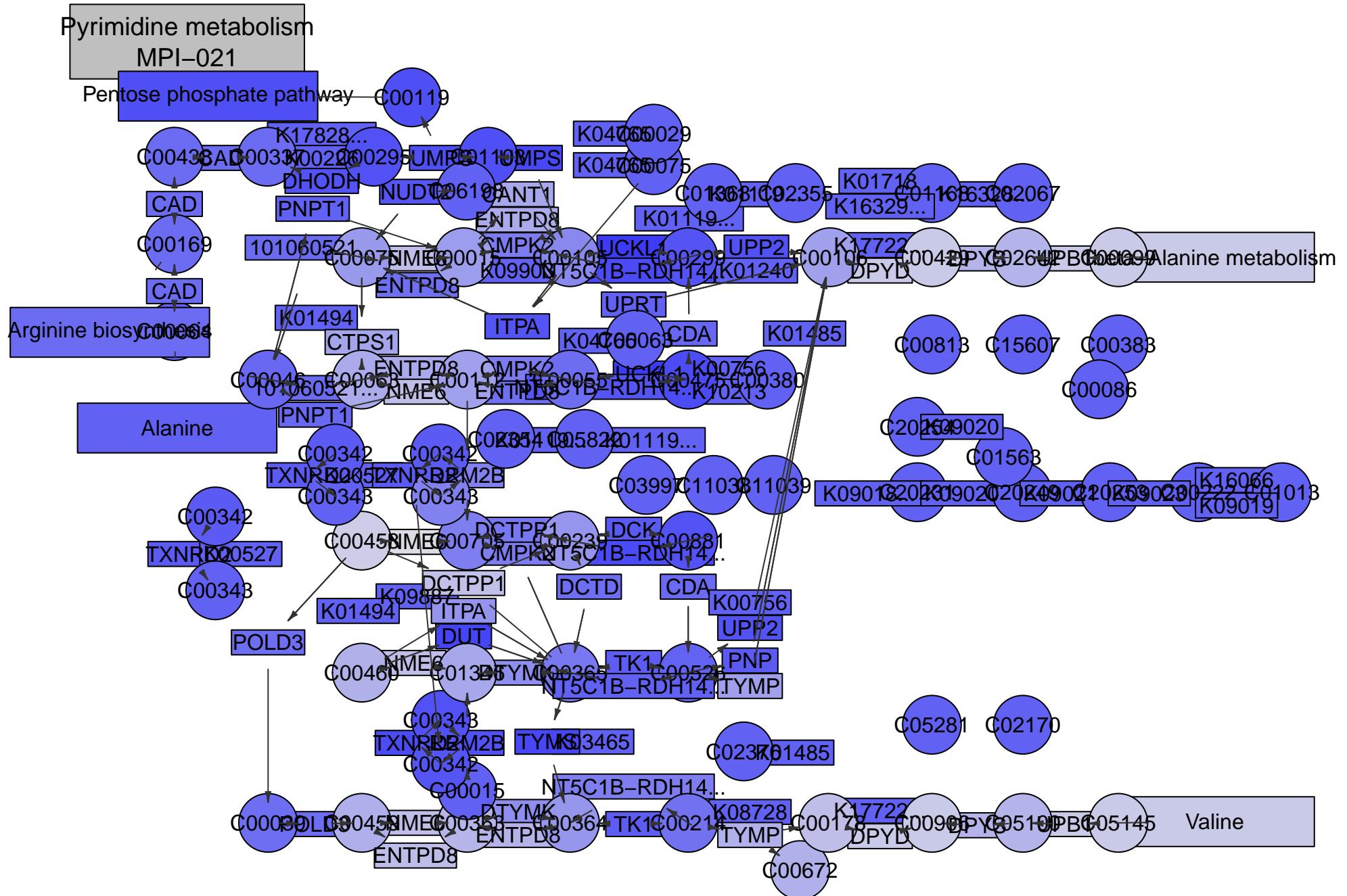
Pyrimidine metabolism

MPI-014

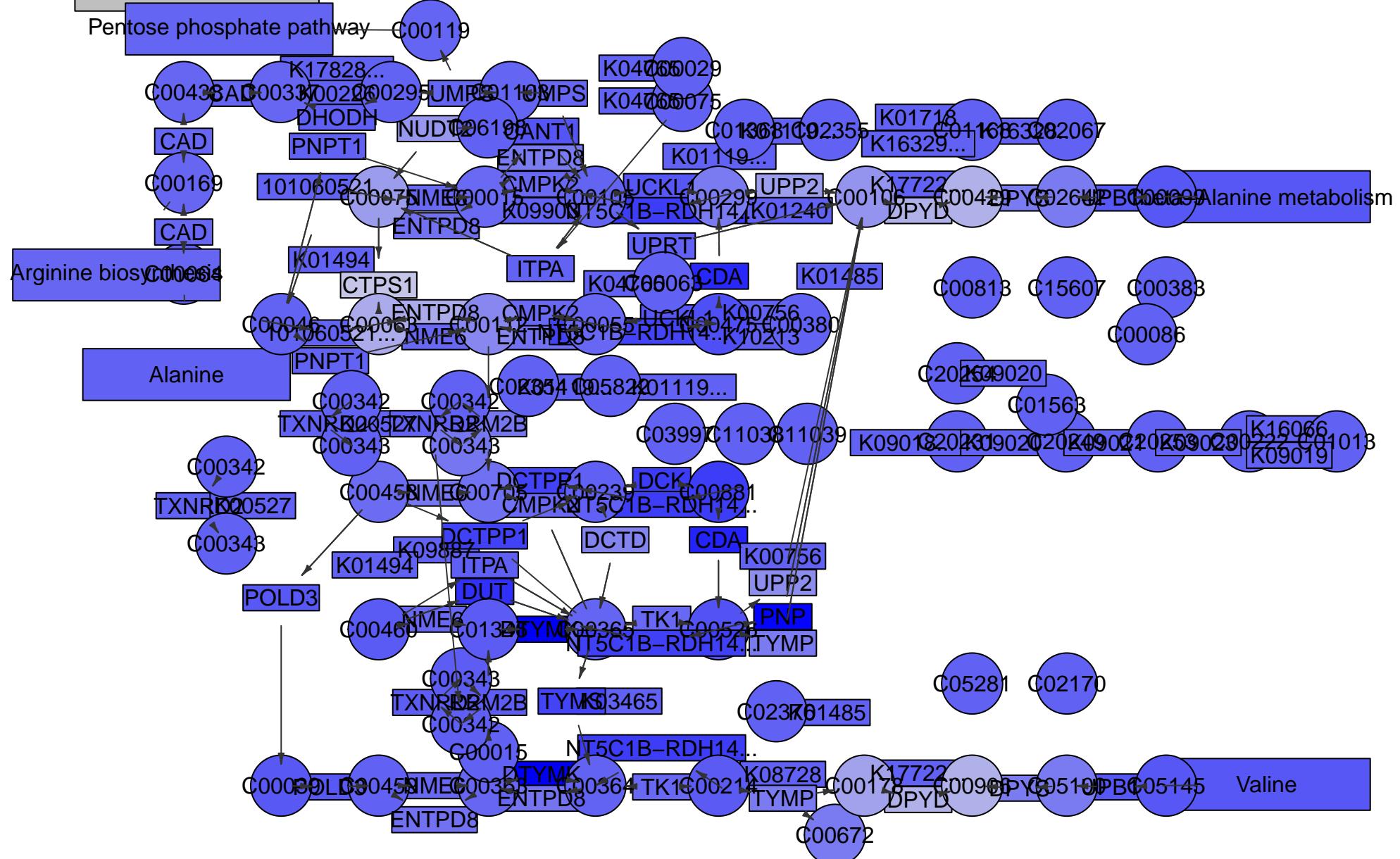


Pyrimidine metabolism
MPI-015



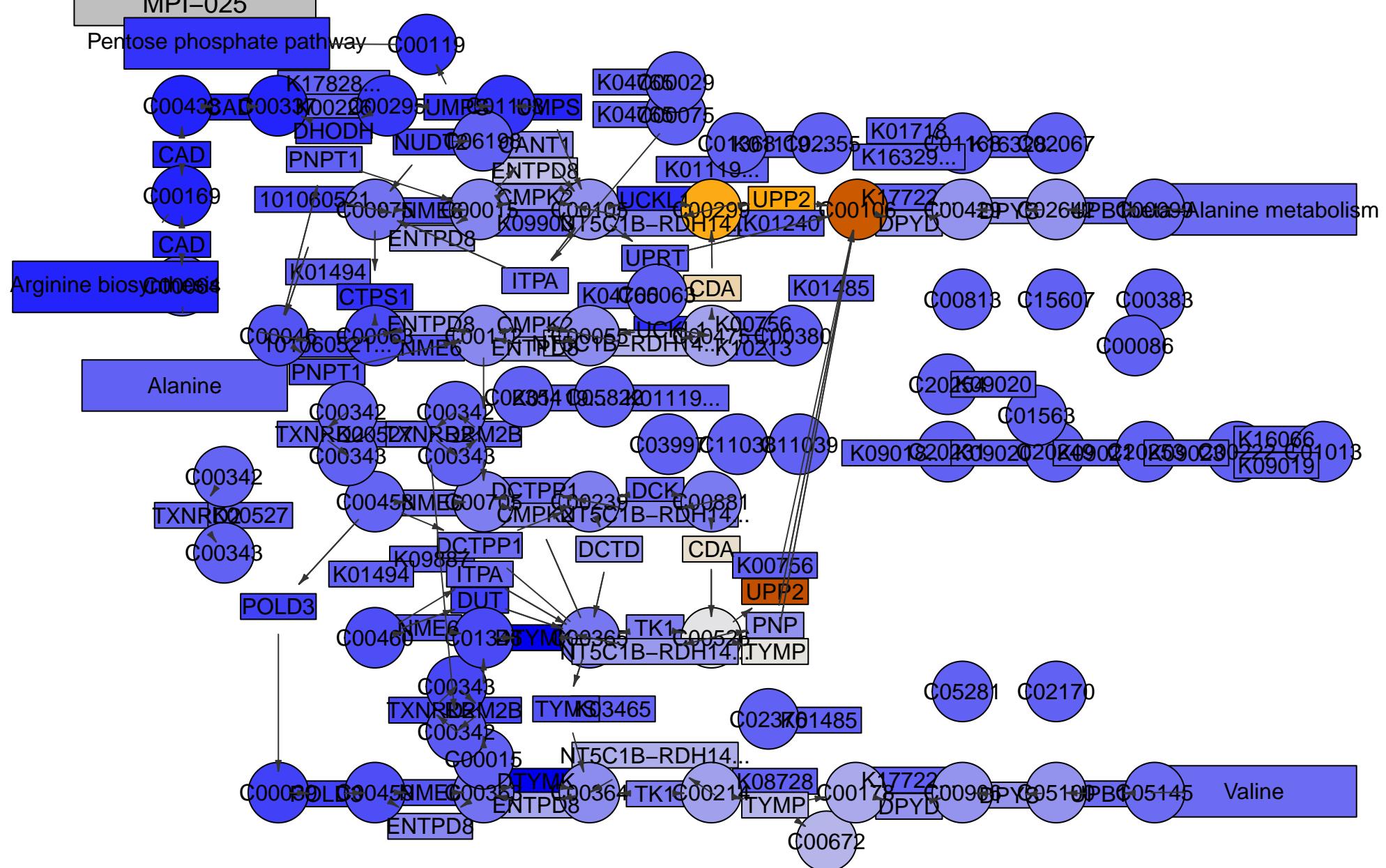


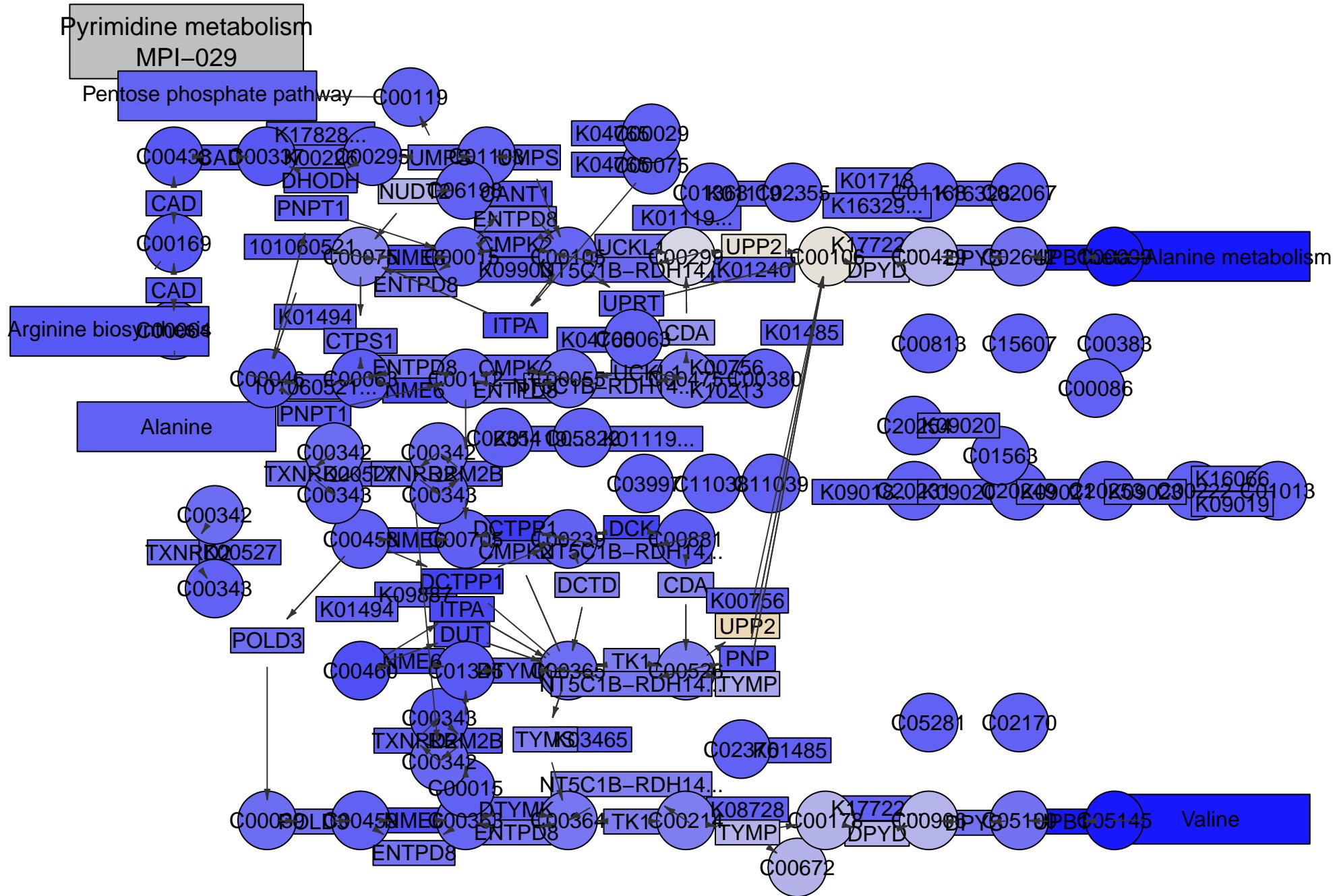
Pyrimidine metabolism
MPI-022



Pyrimidine metabolism

MPI-025

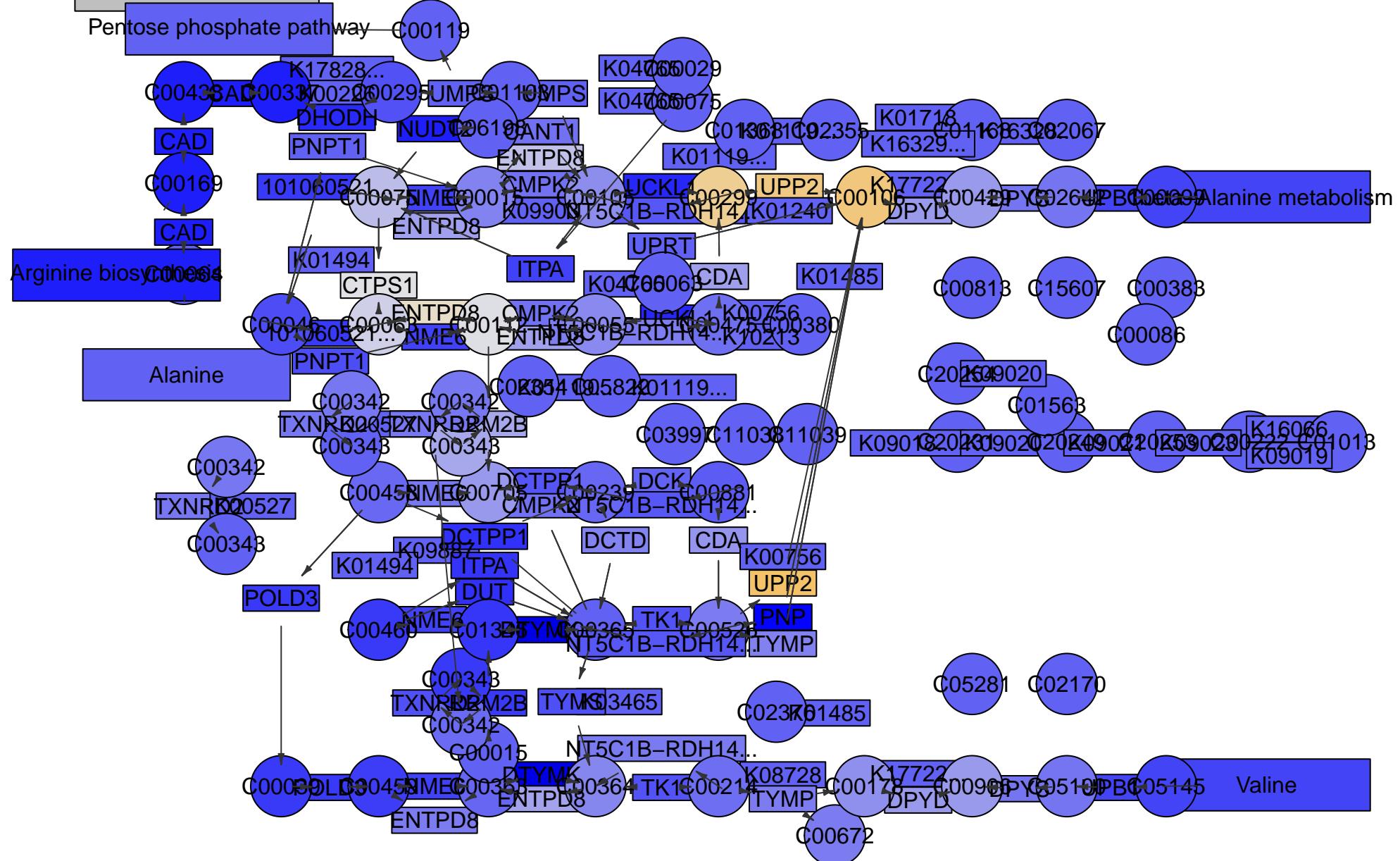




Pyrimidine metabolism

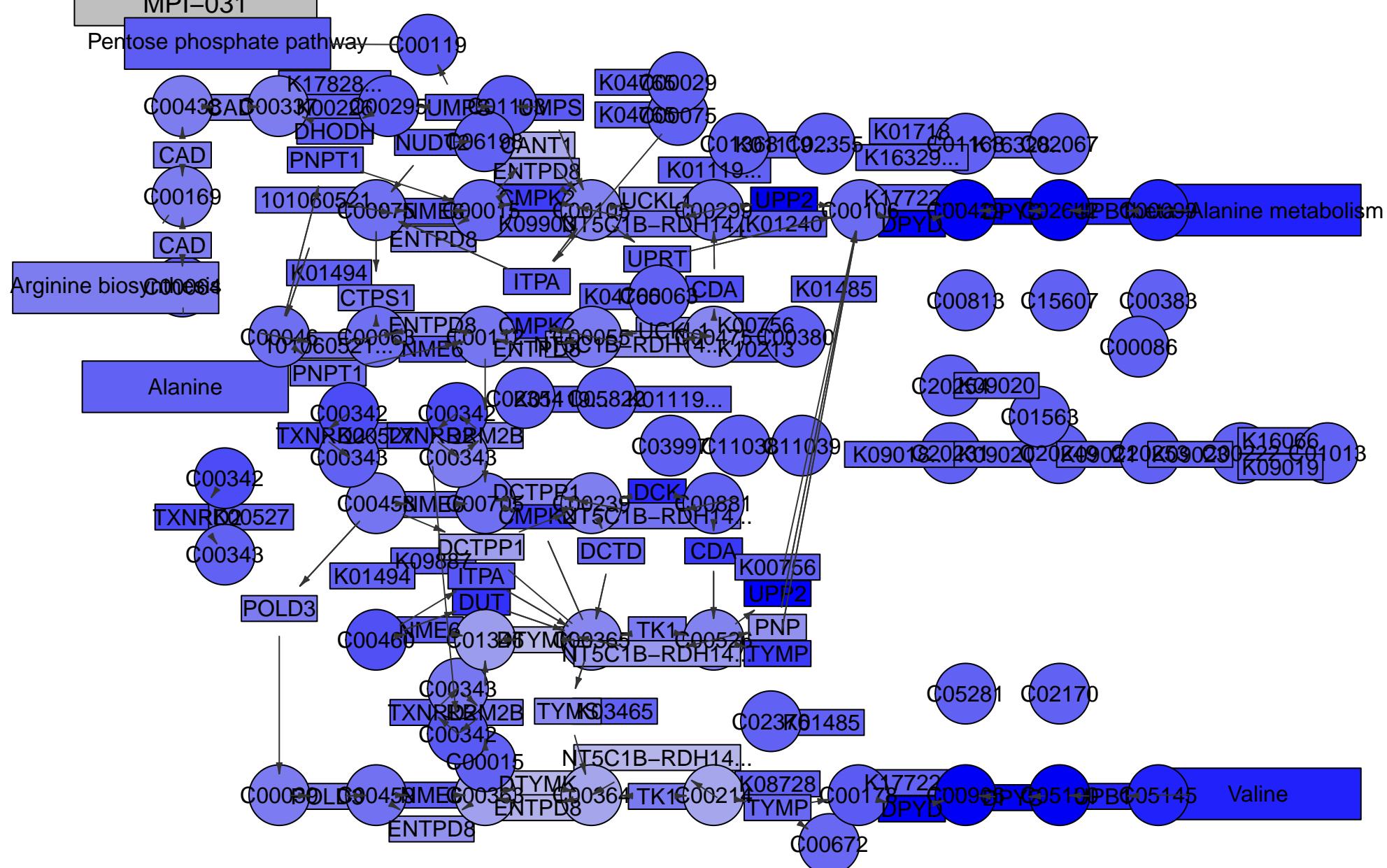
MPI-030

Pentose phosphate pathway C00119

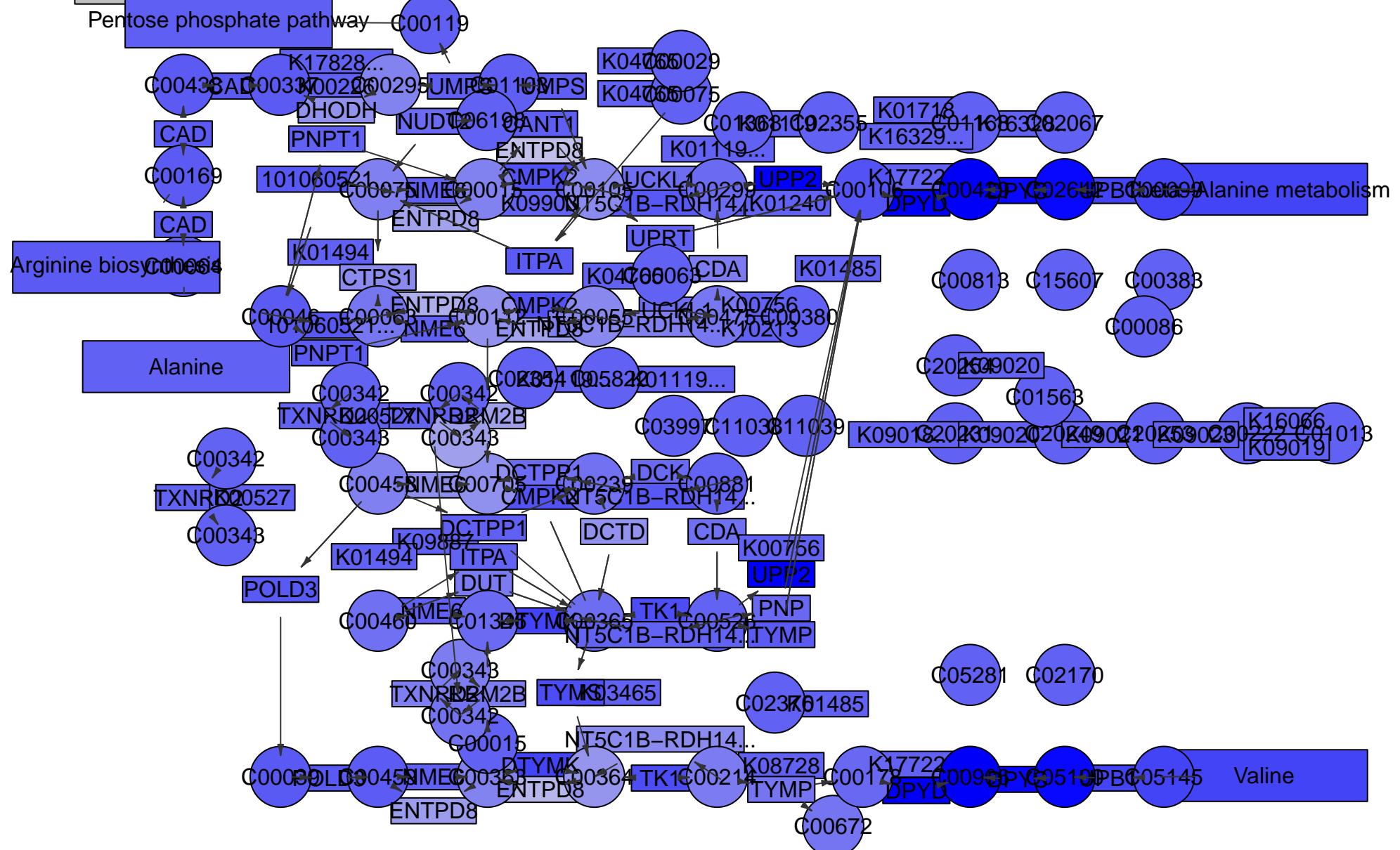


Pyrimidine metabolism

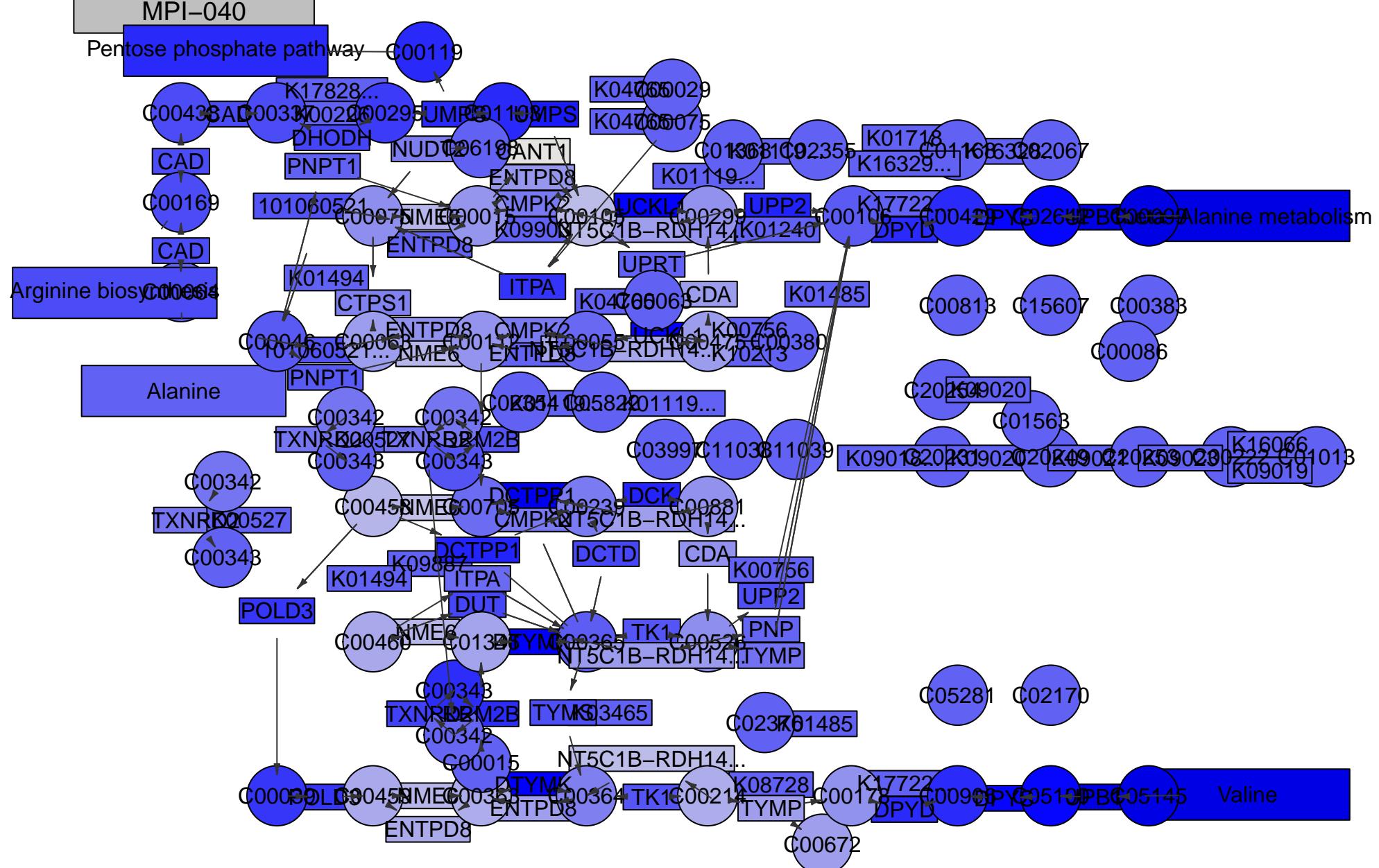
MPI-031



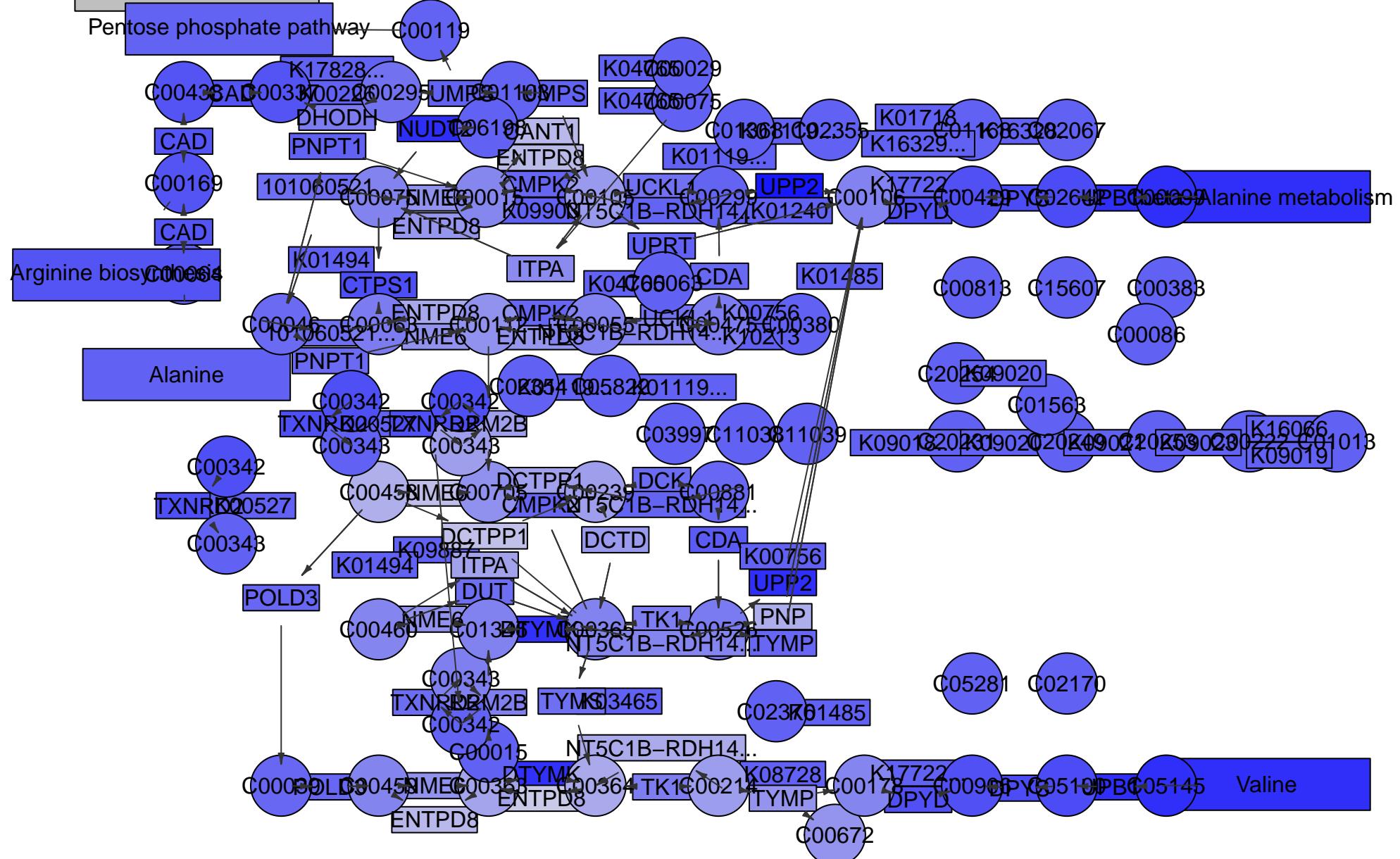
Pyrimidine metabolism
MPI-039



Pyrimidine metabolism
MPI-040

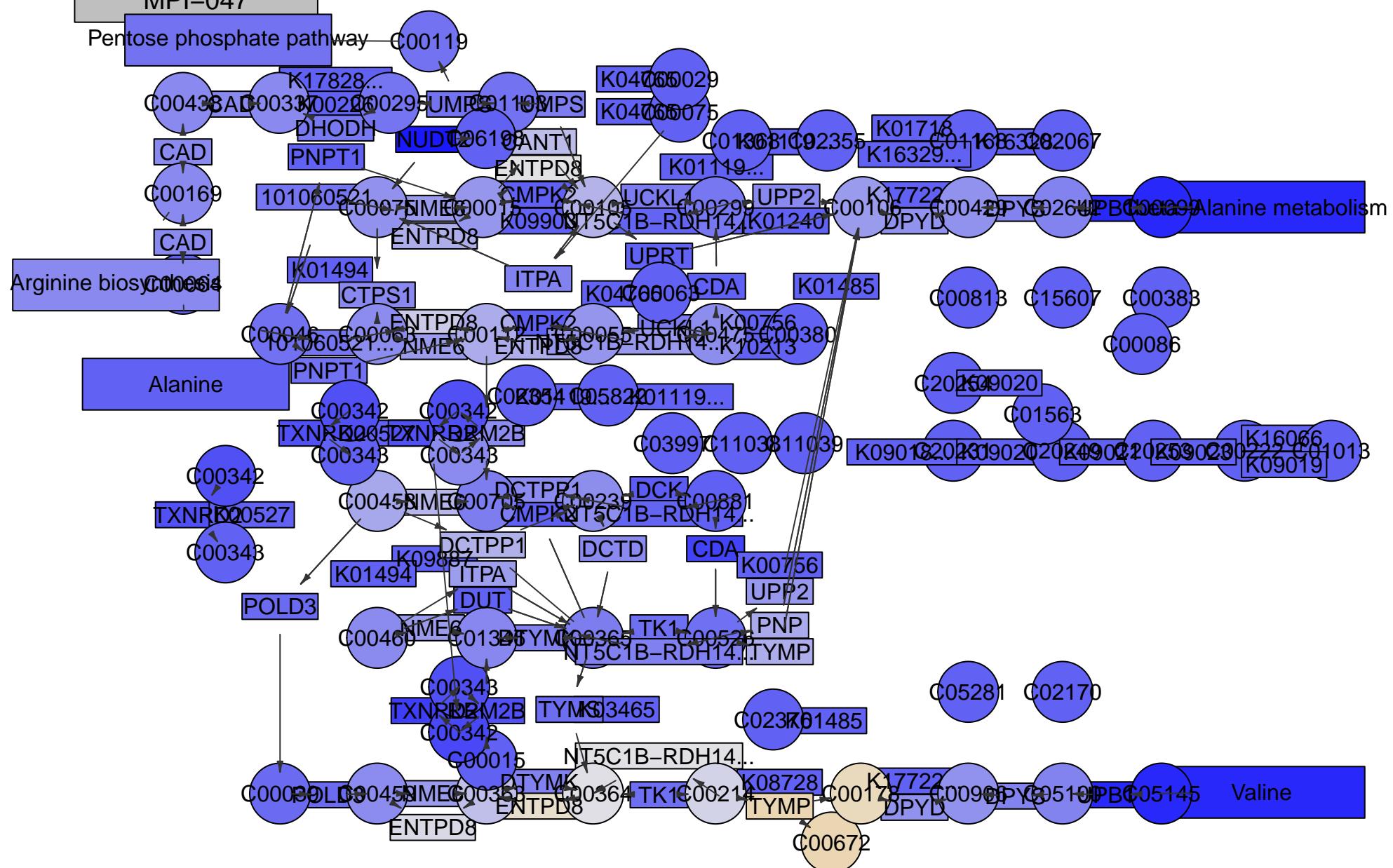


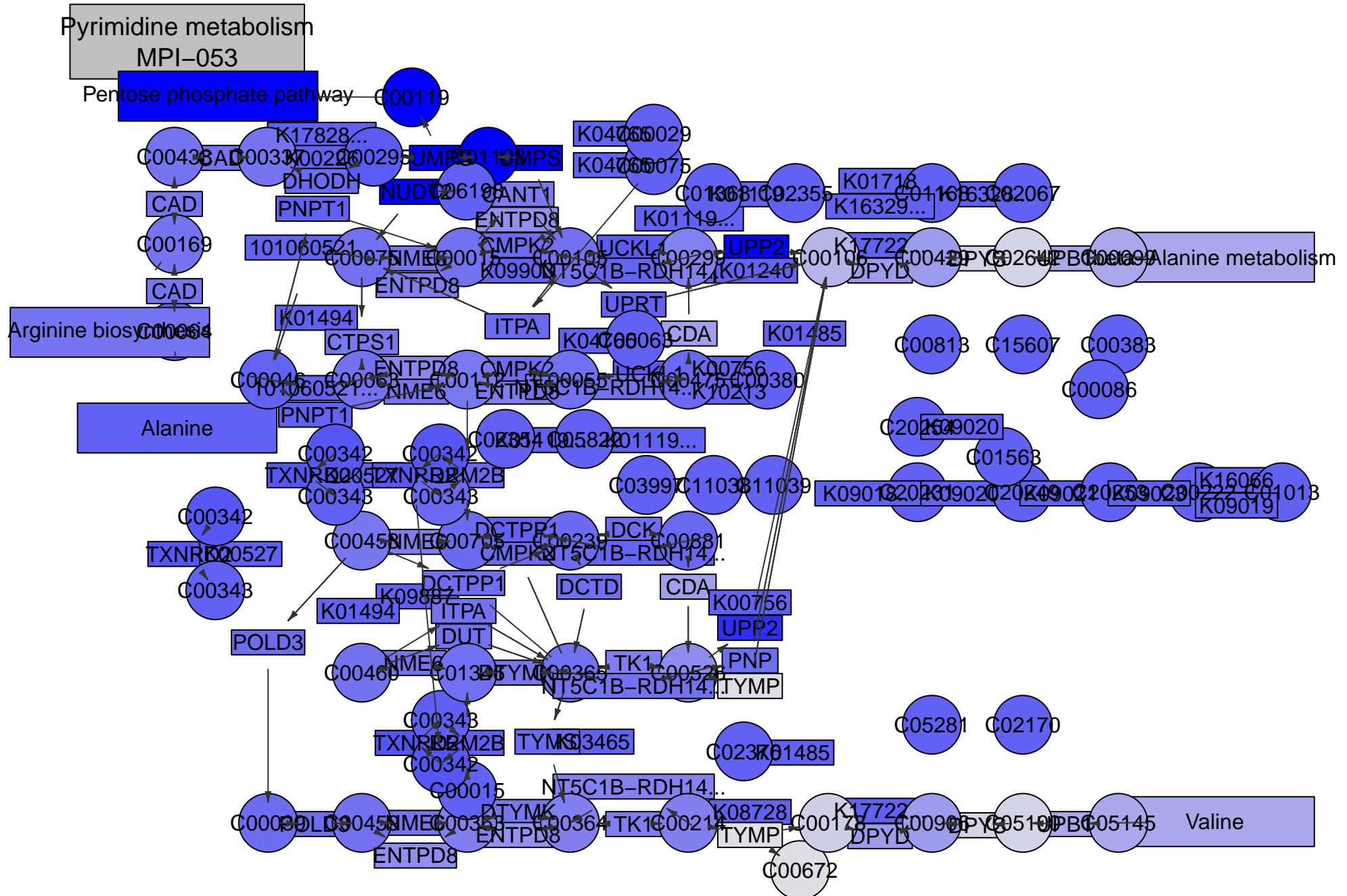
Pyrimidine metabolism
MPI-045



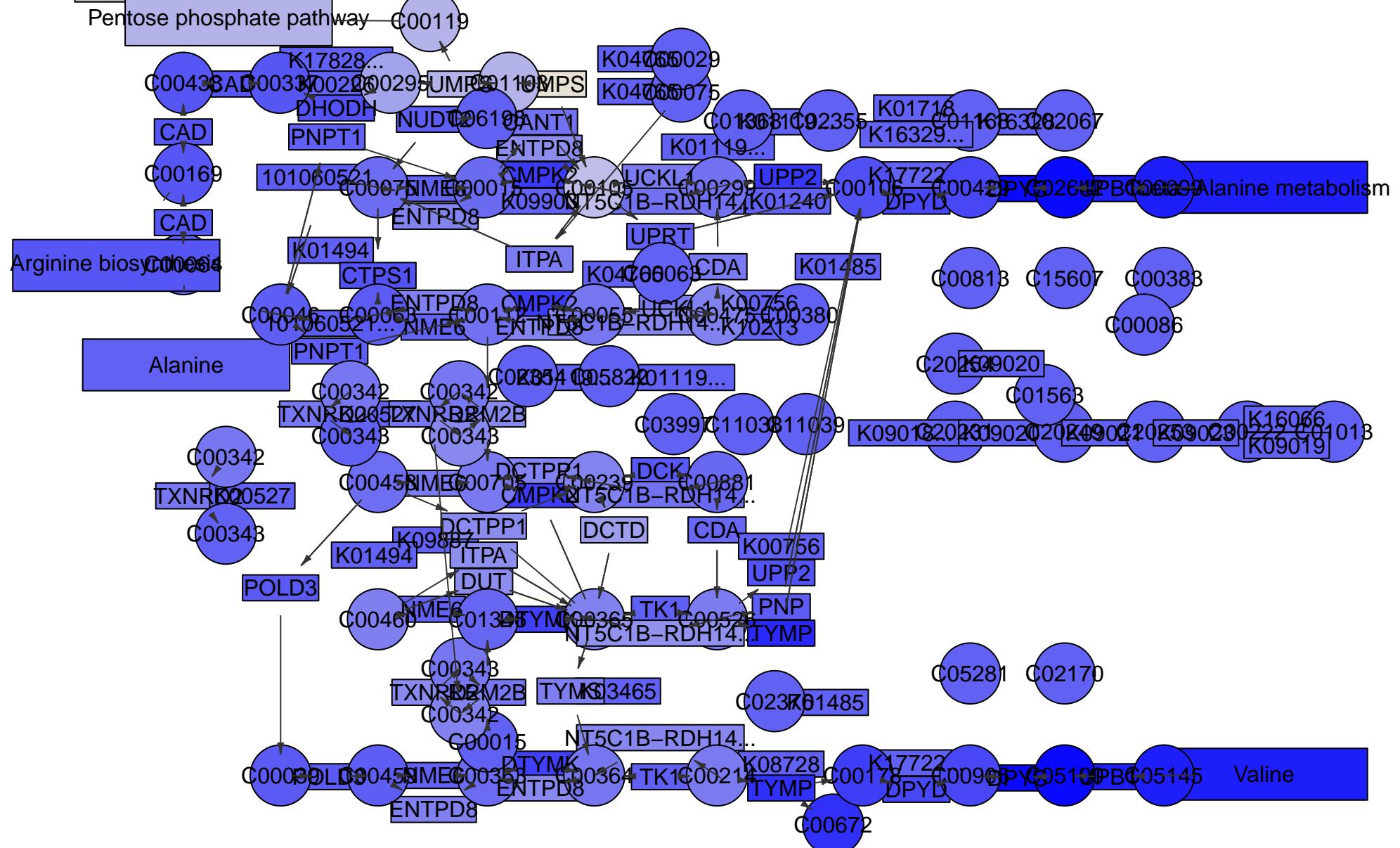
Pyrimidine metabolism

MPI-047





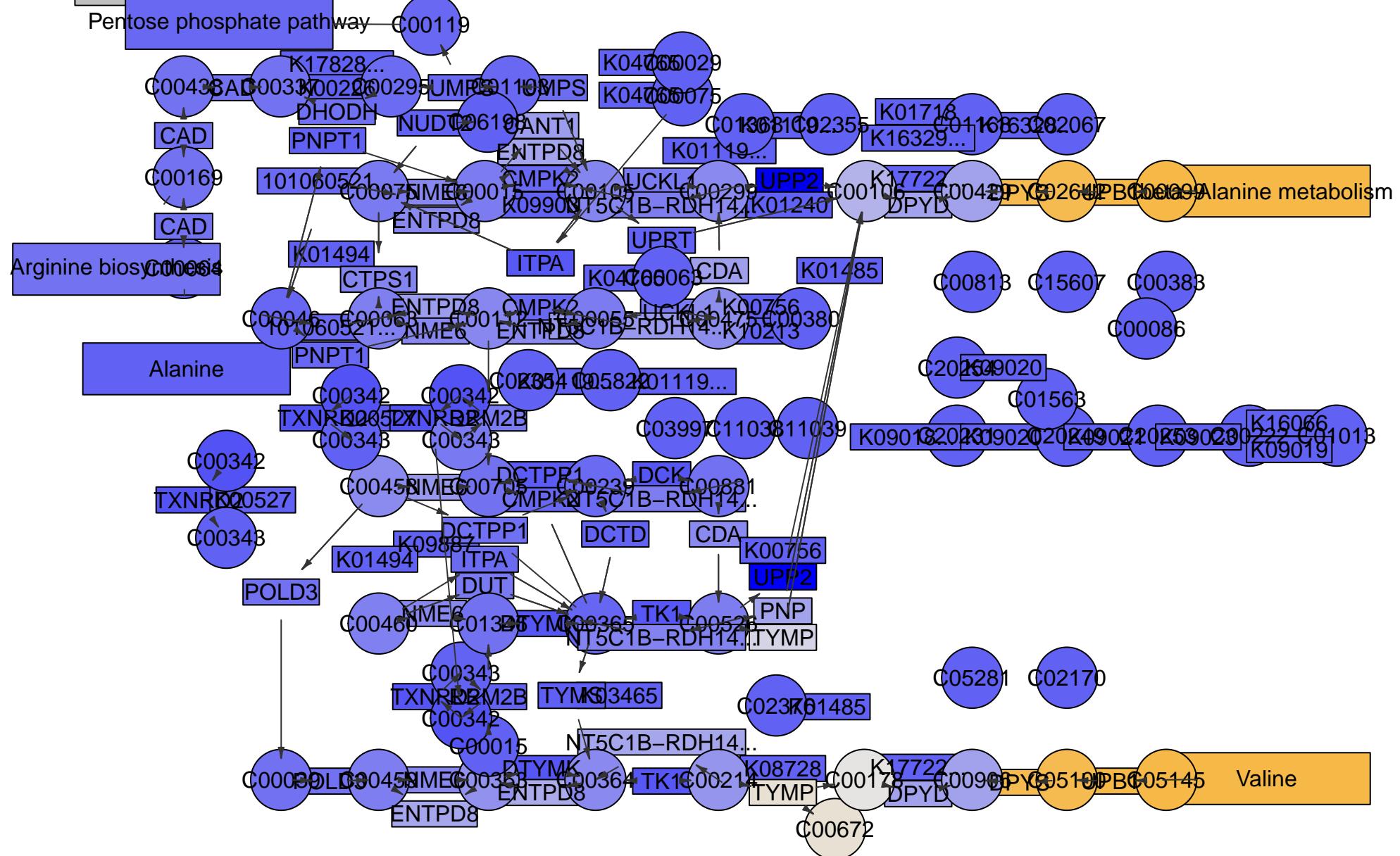
Pyrimidine metabolism
MPI-062

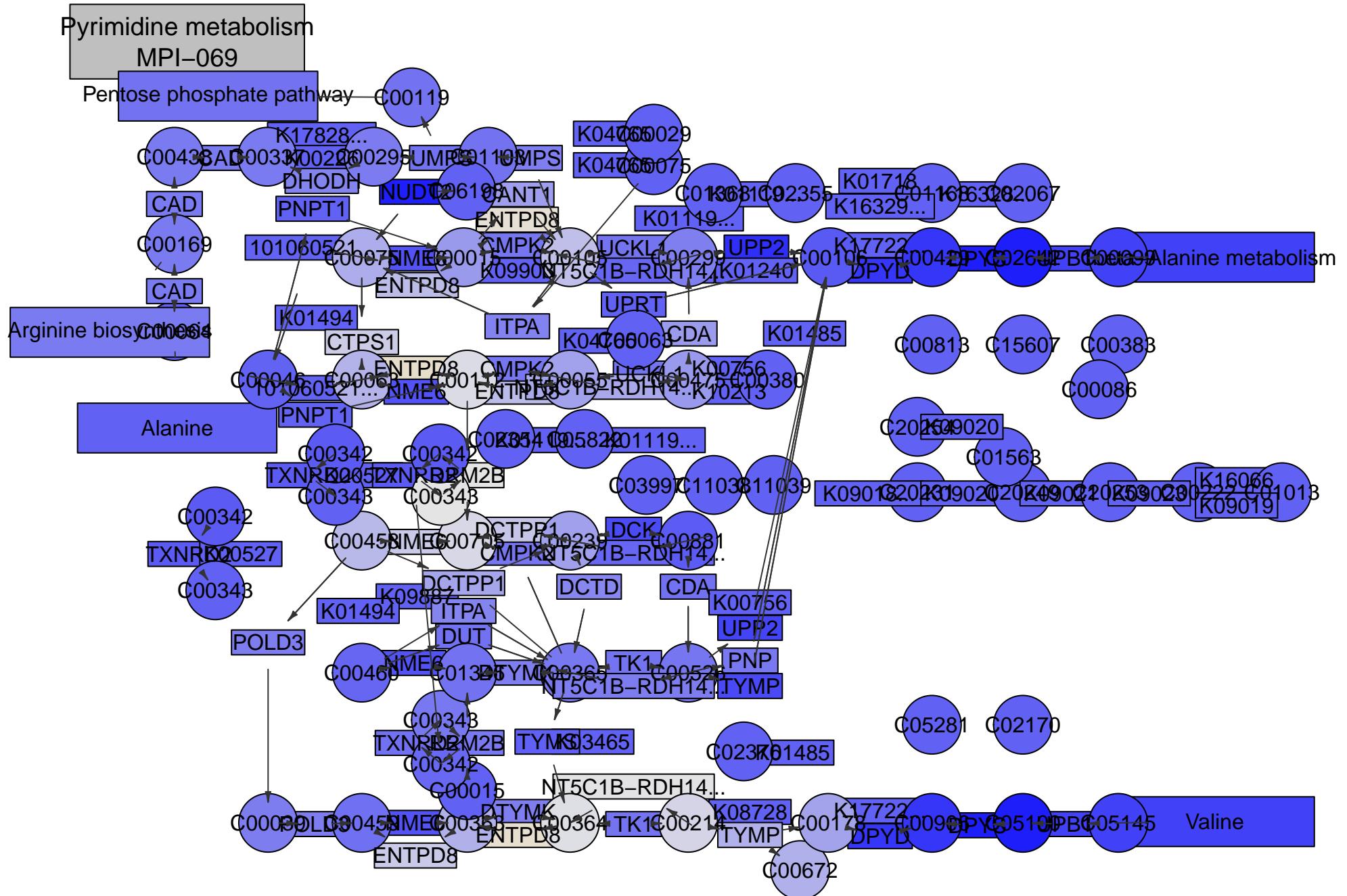


Pyrimidine metabolism

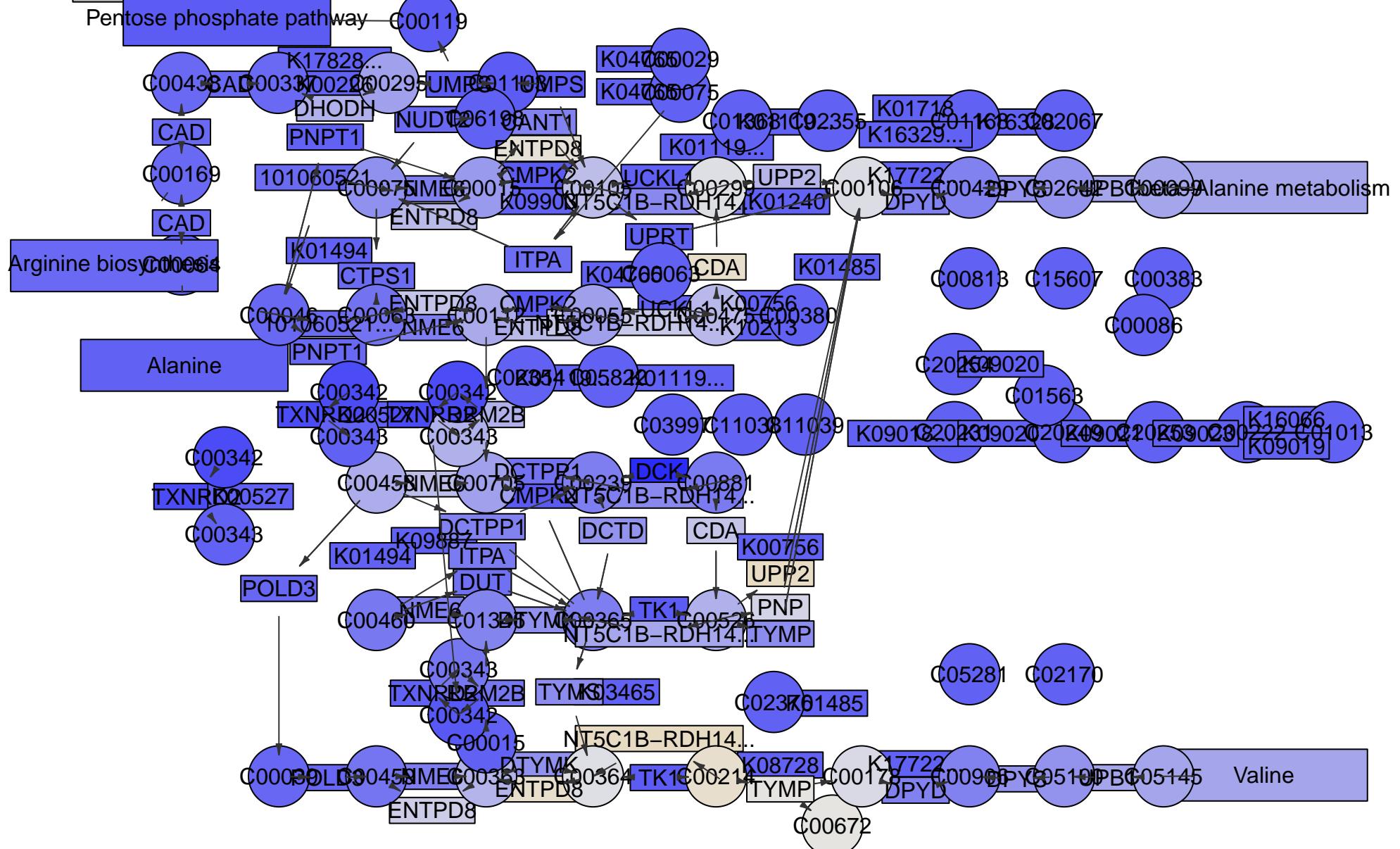
MPI-063

Pentose phosphate pathway C00119



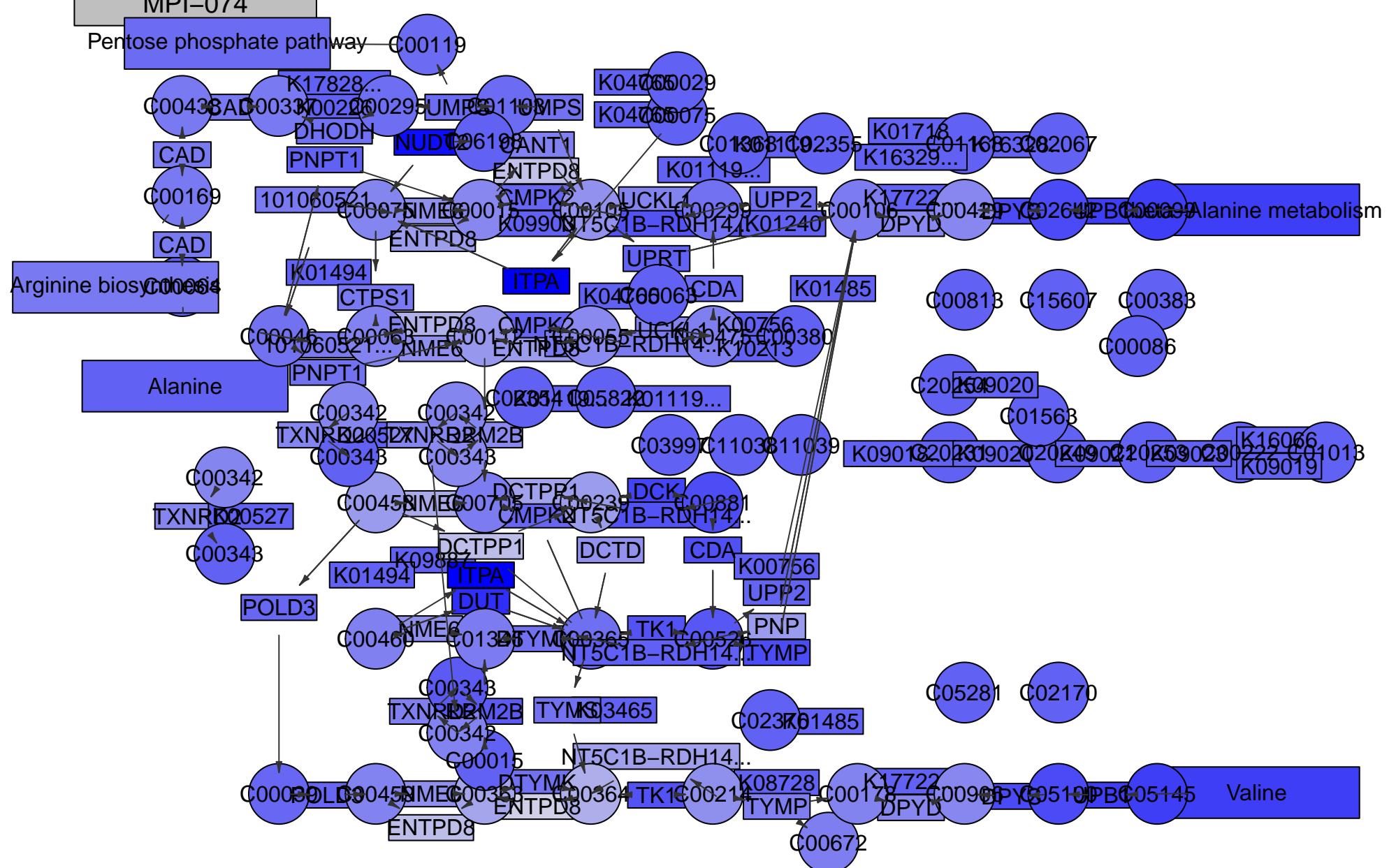


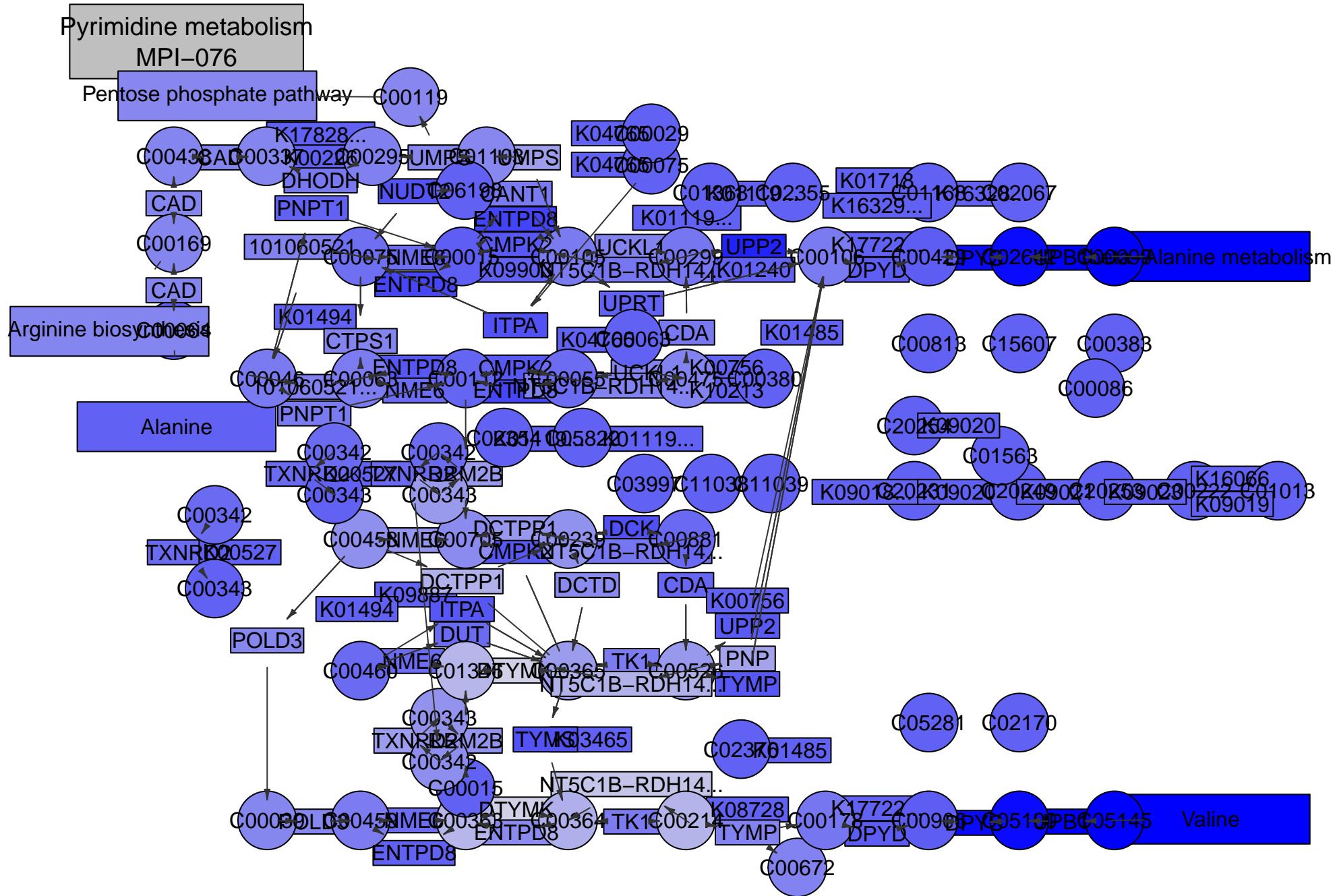
Pyrimidine metabolism
MPI-073



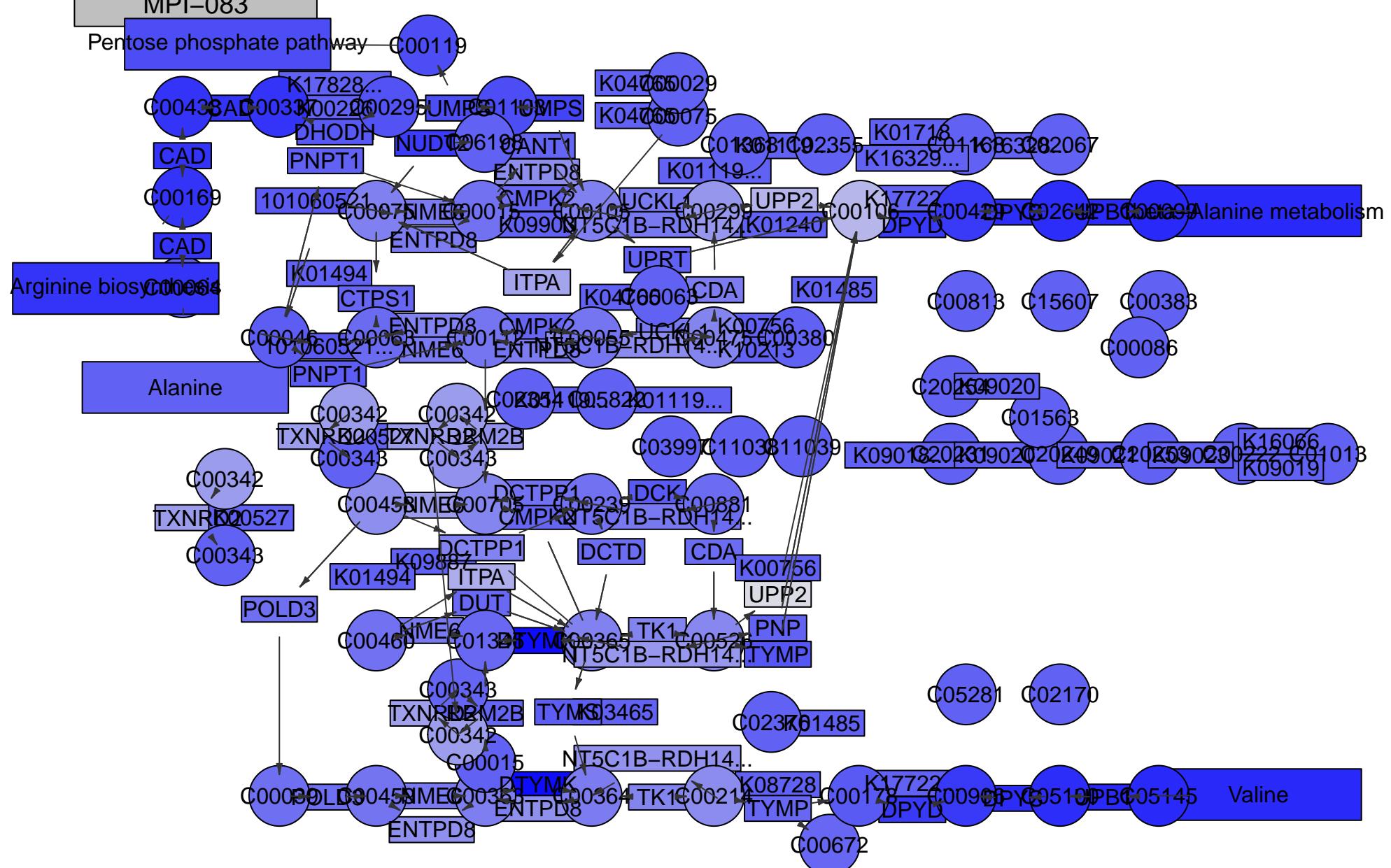
Pyrimidine metabolism

MPI-074





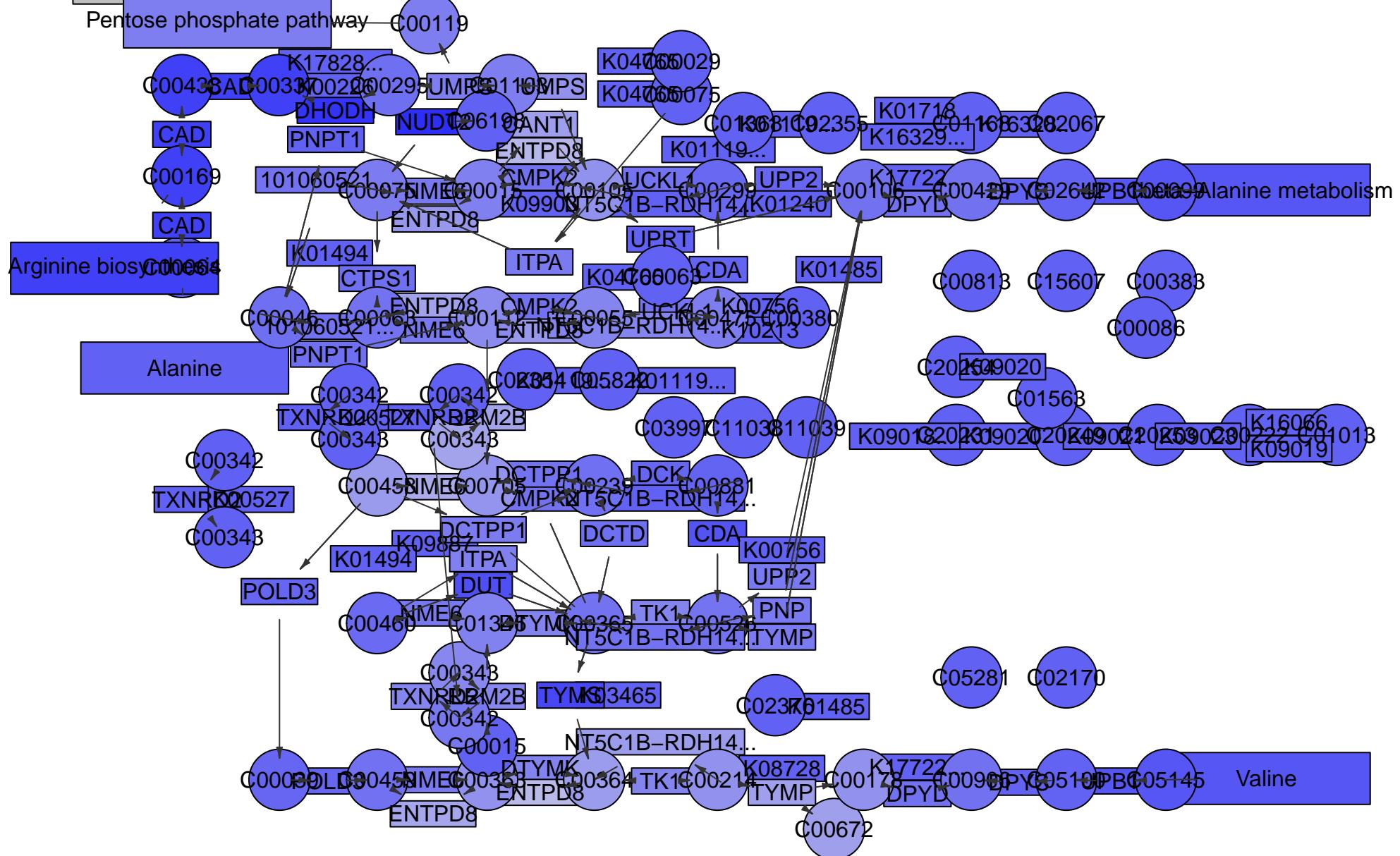
Pyrimidine metabolism
MPI-083



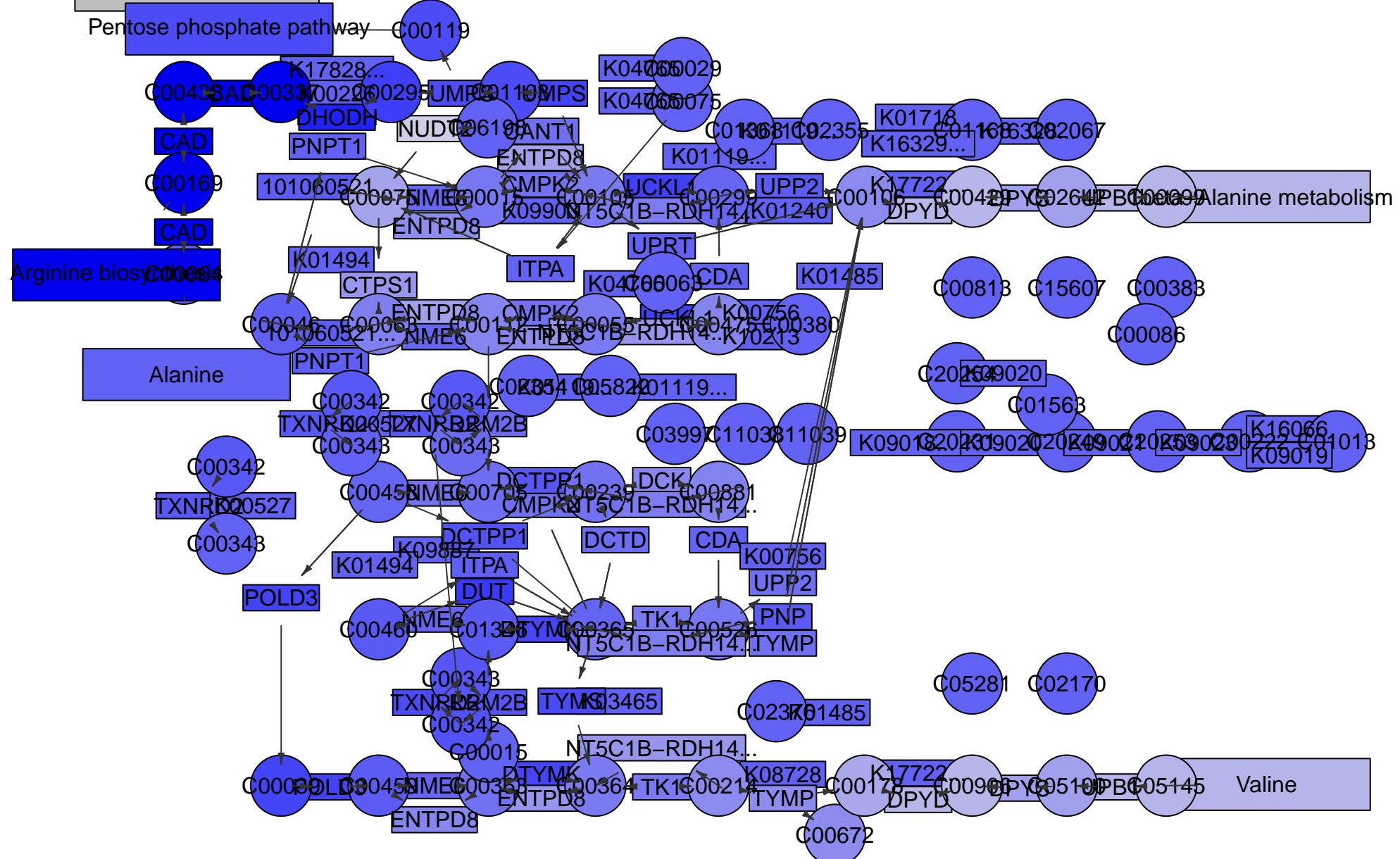
Pyrimidine metabolism

MPI-088

Pentose phosphate pathway C00119

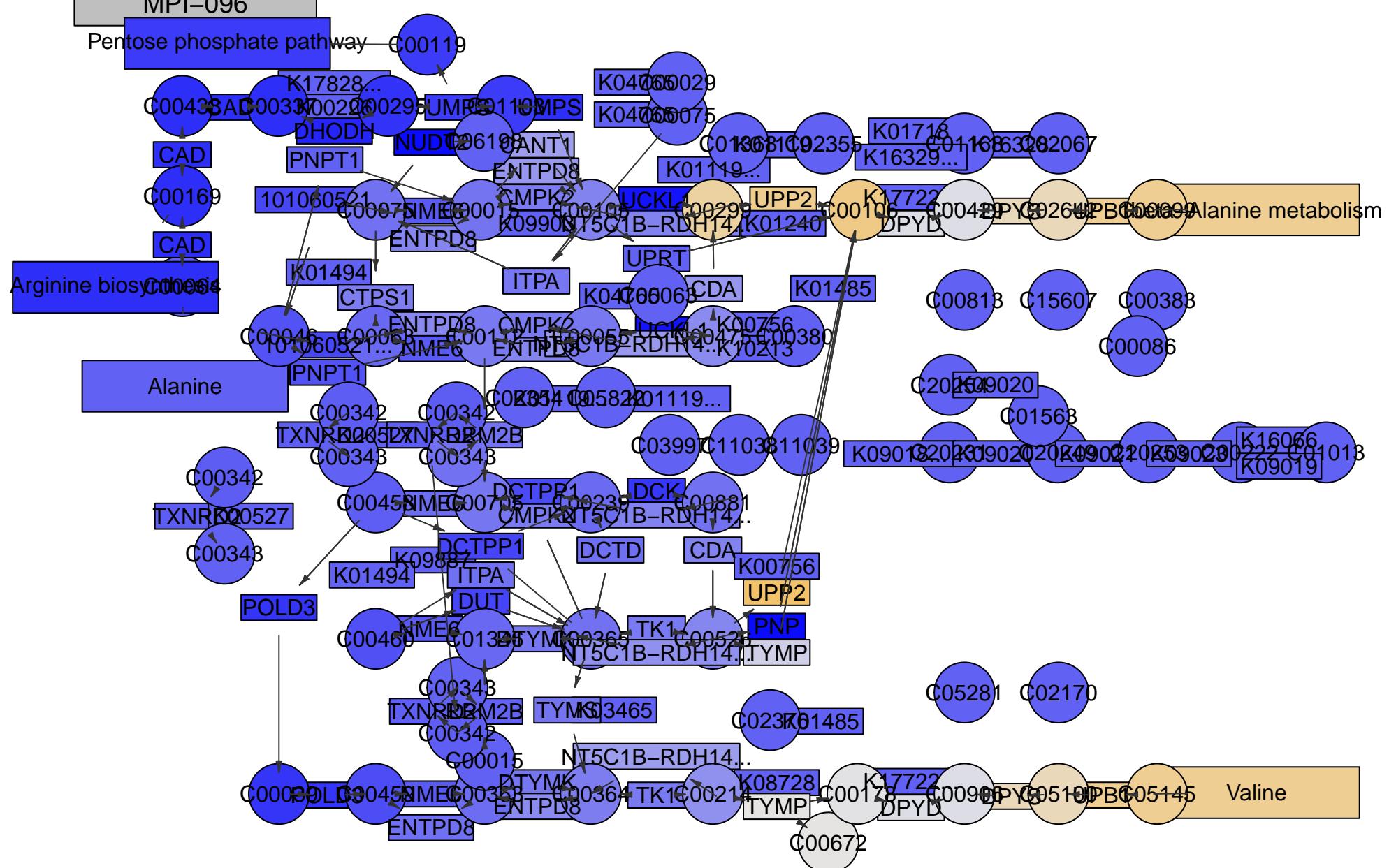


Pyrimidine metabolism
MPI-092

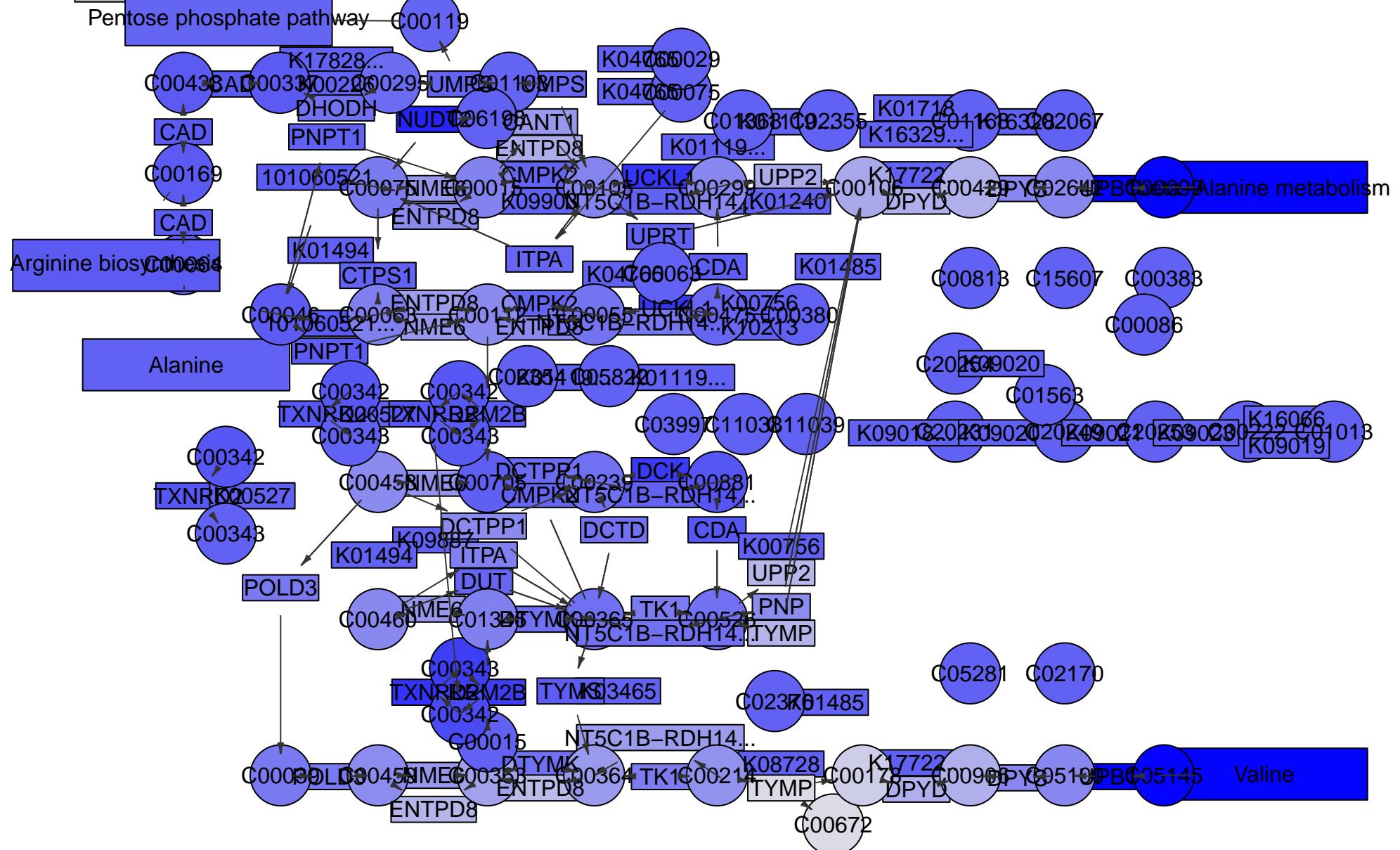


Pyrimidine metabolism

MPI-096

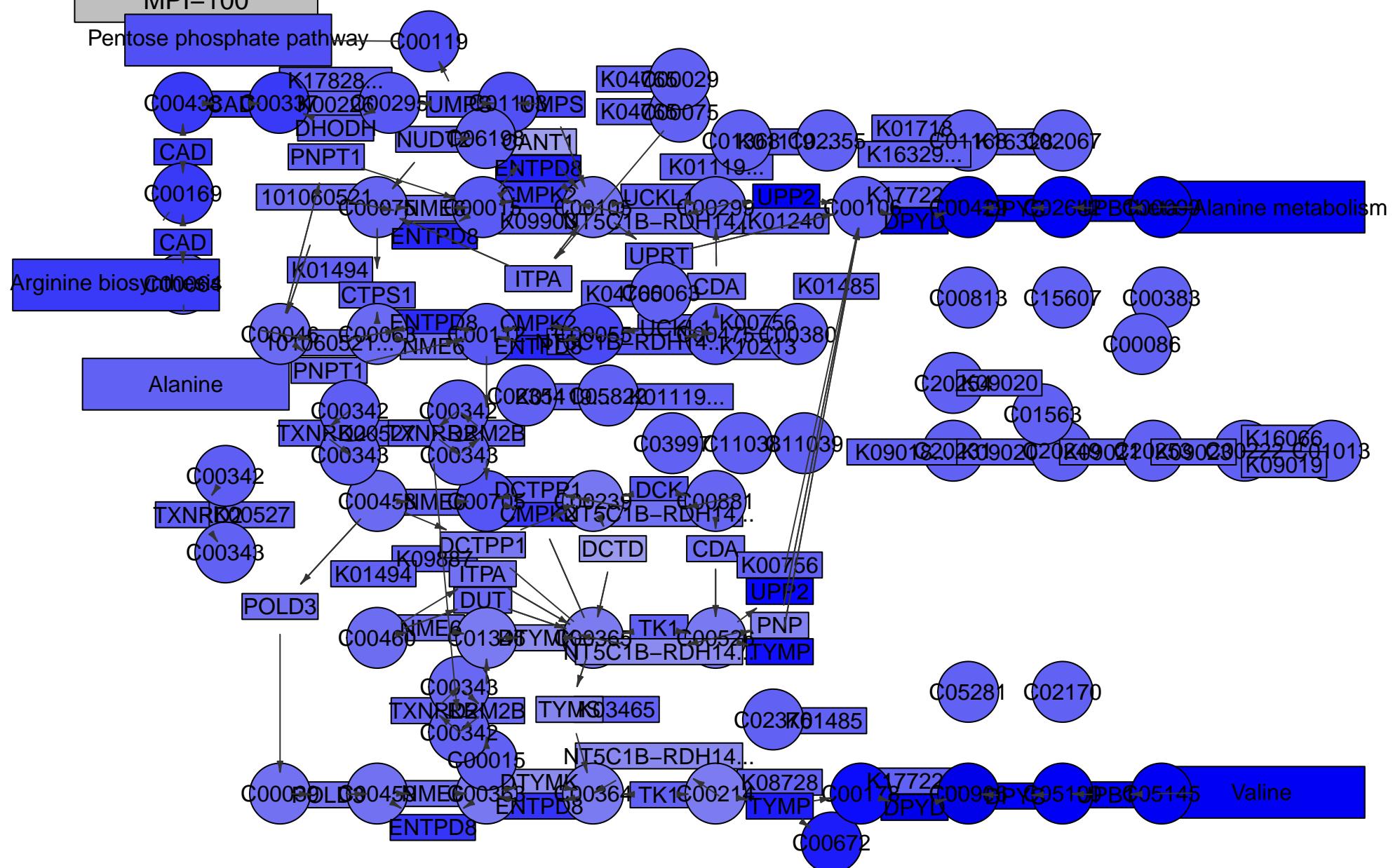


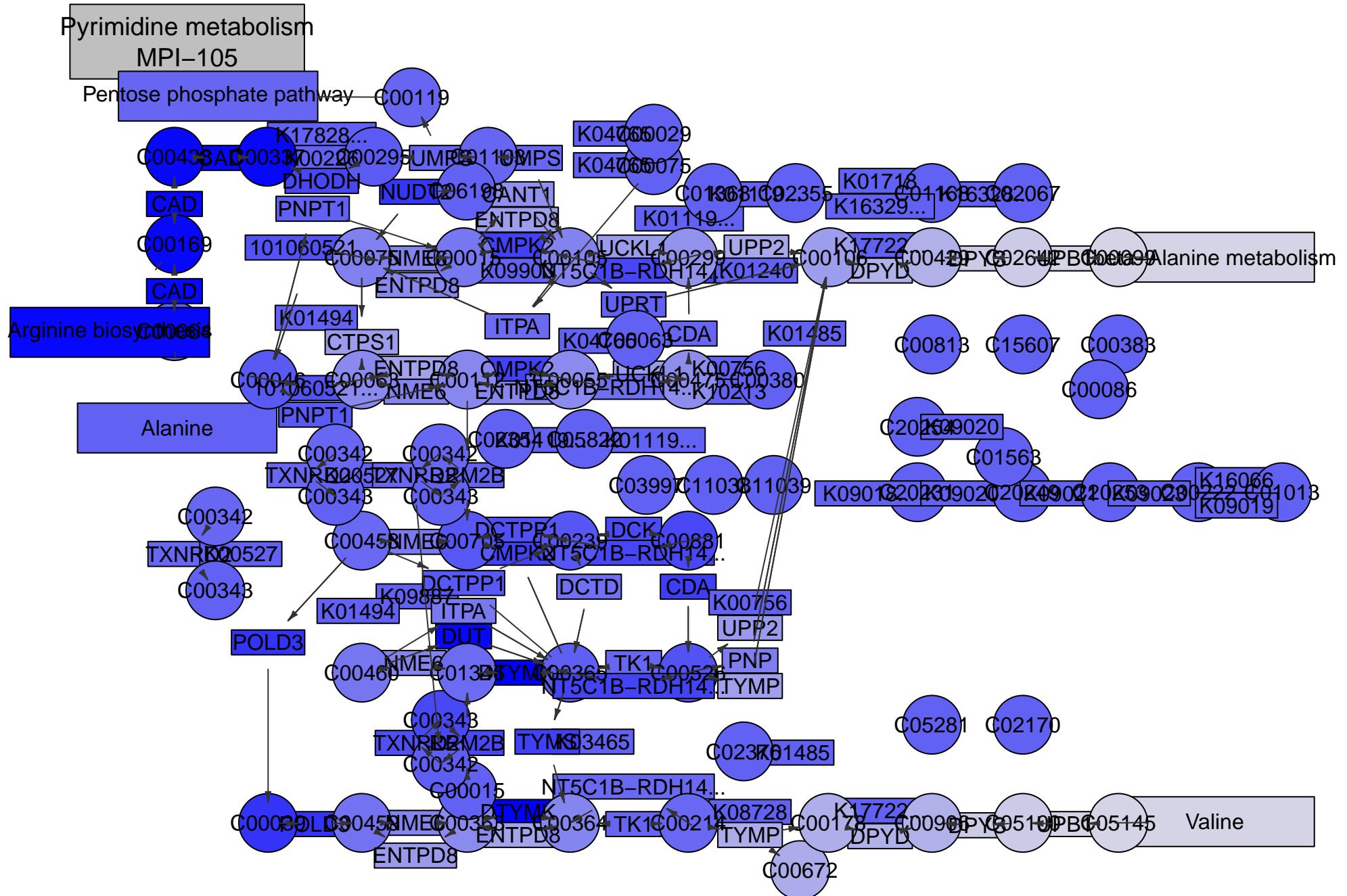
Pyrimidine metabolism
MPI-098

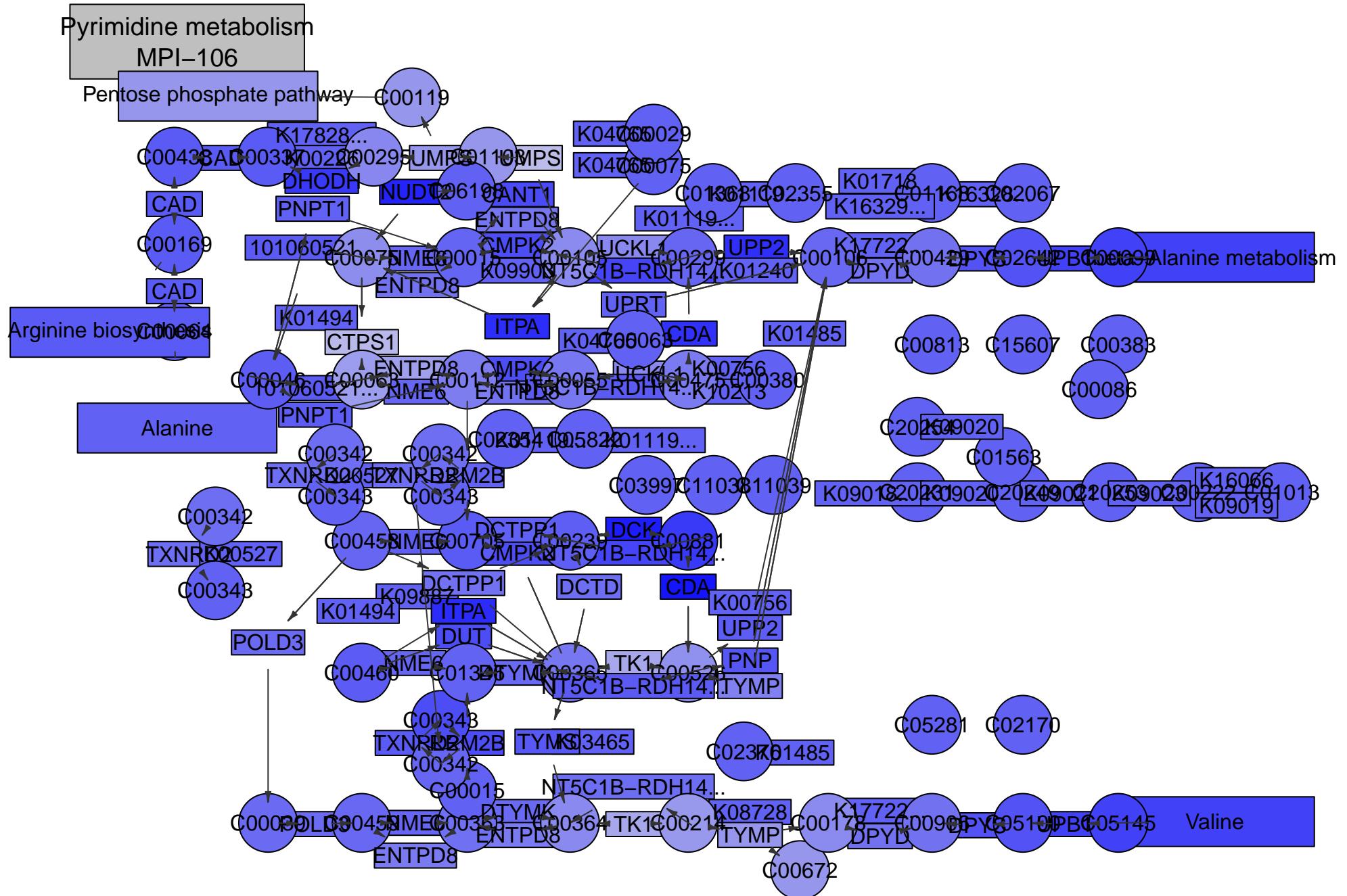


Pyrimidine metabolism

MPI-100

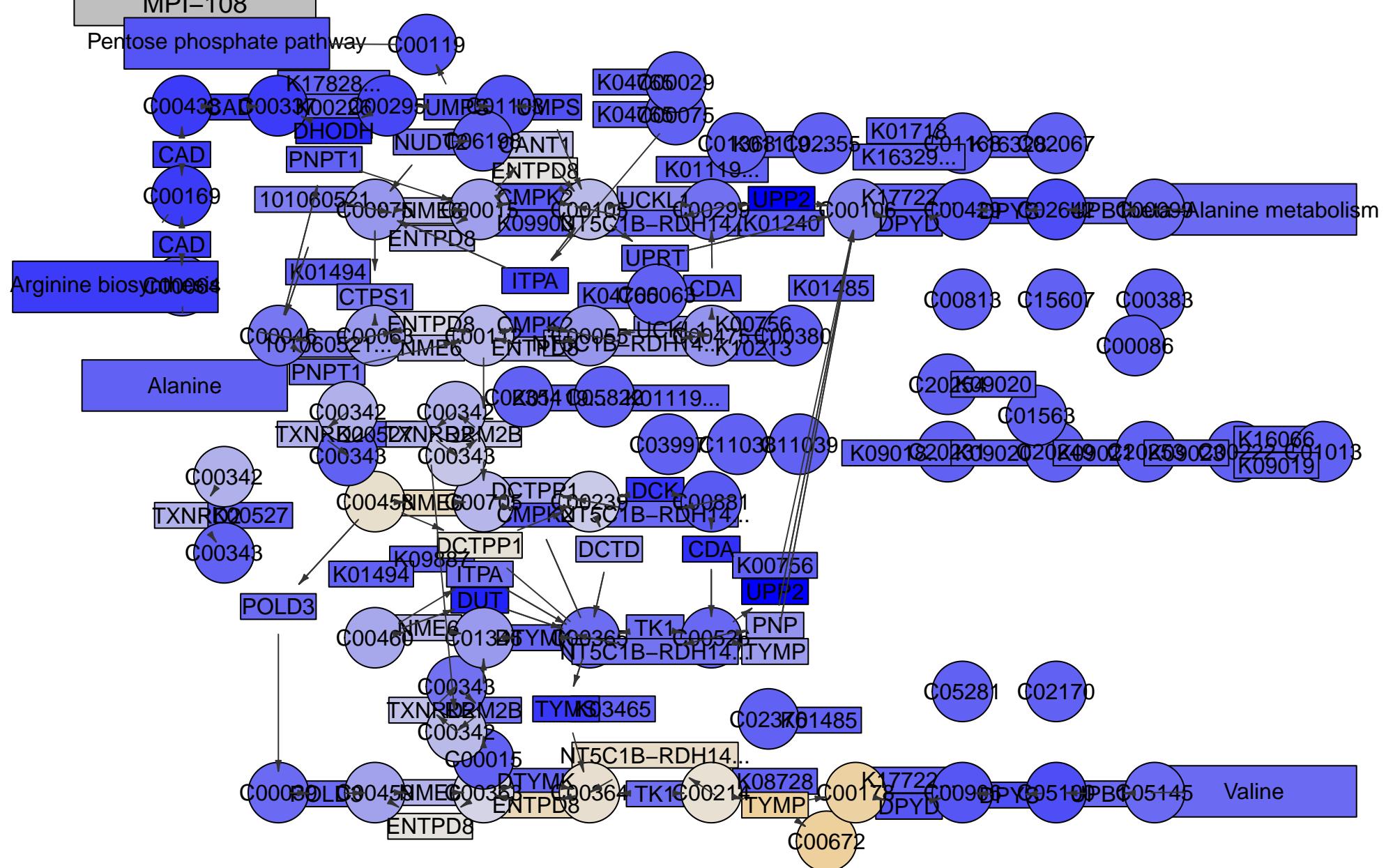




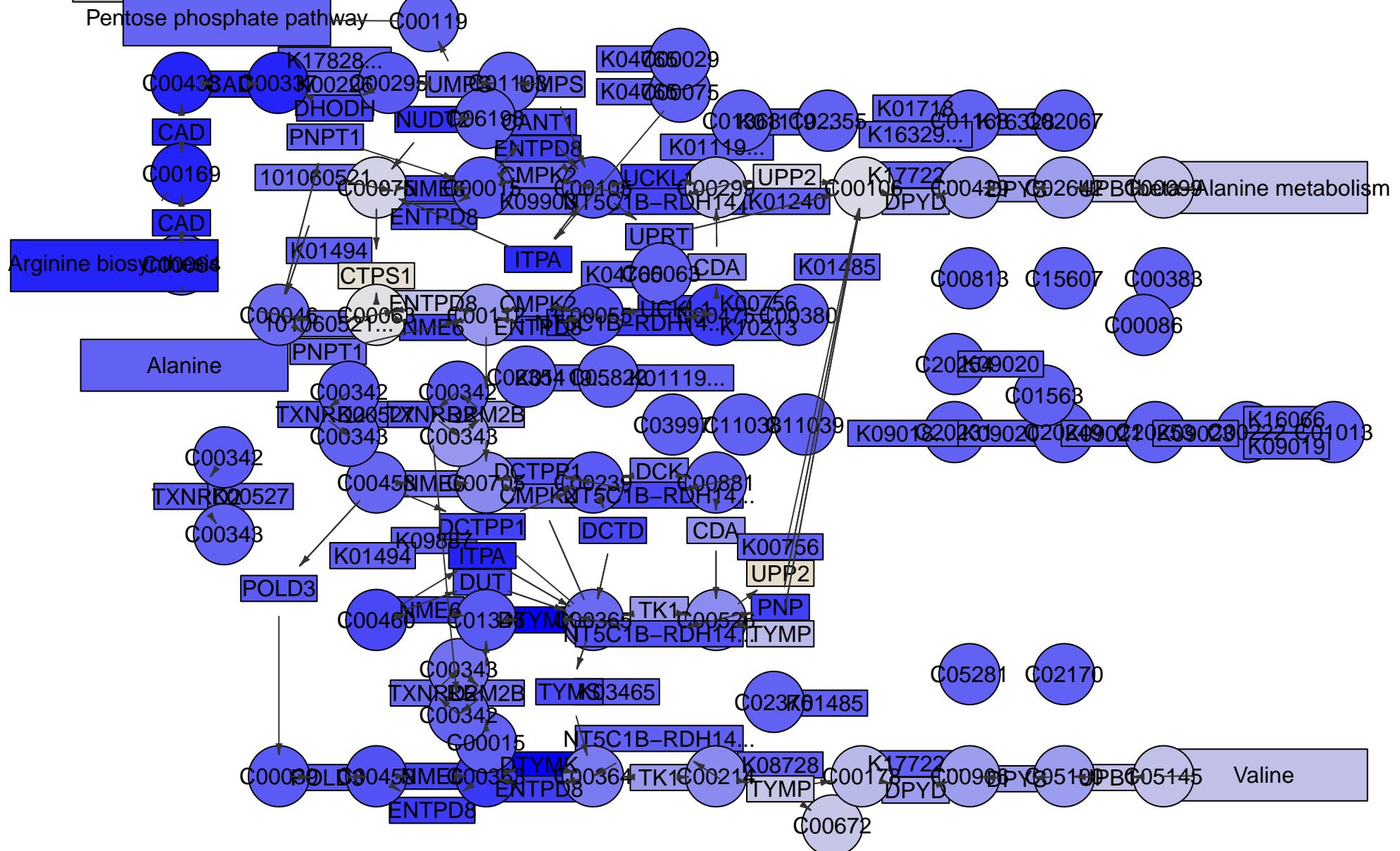


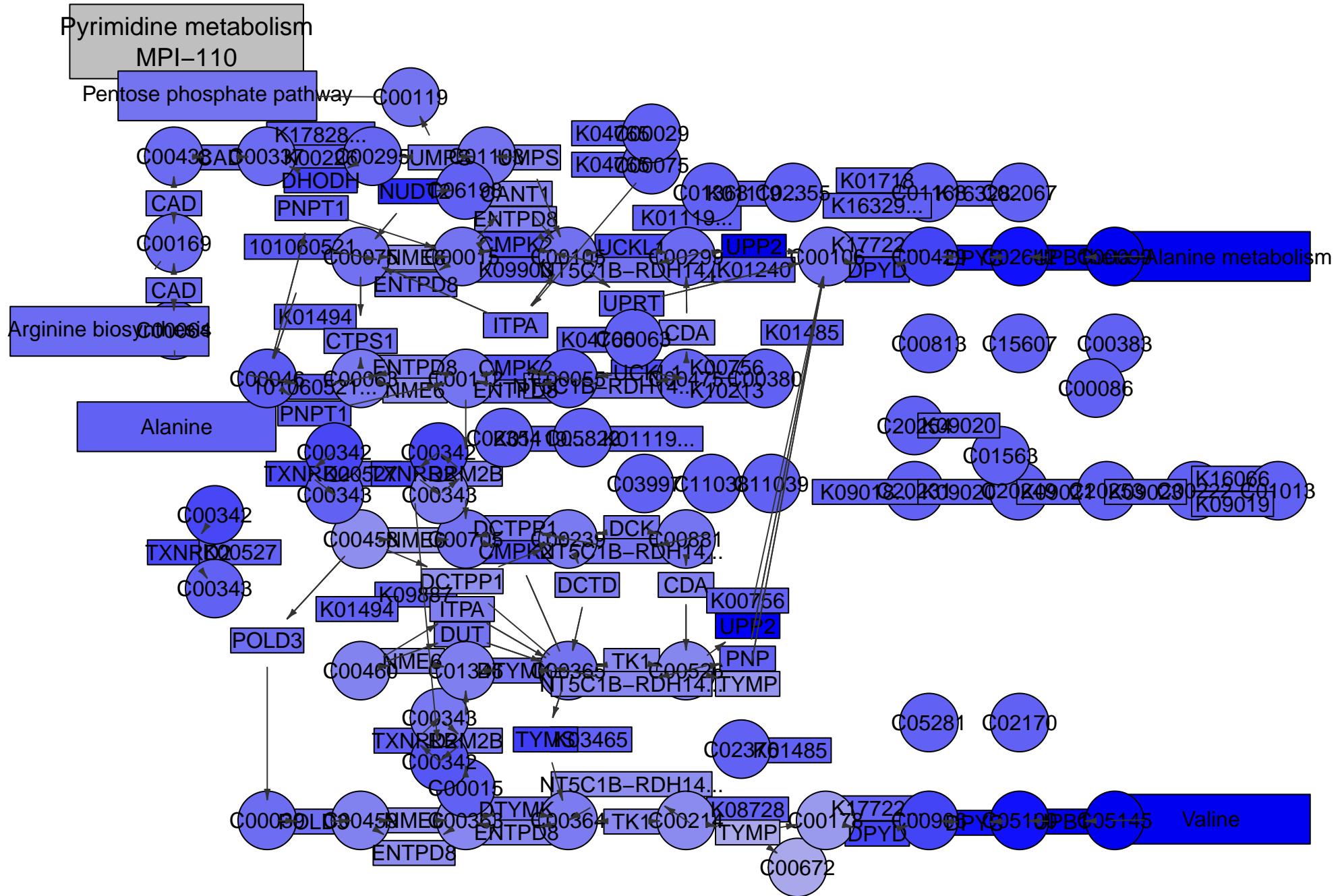
Pyrimidine metabolism

MPI-108

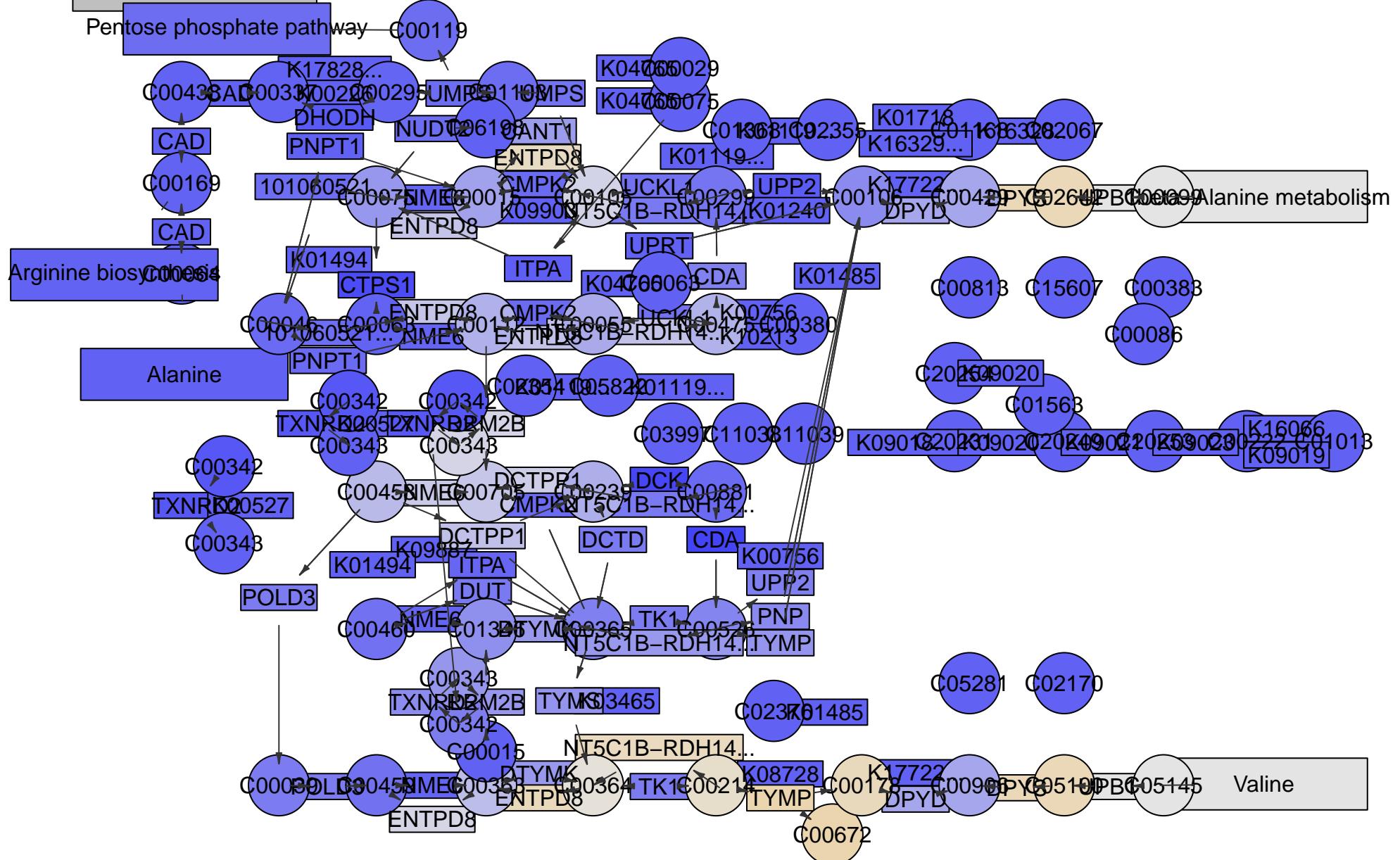


Pyrimidine metabolism
MPI-109

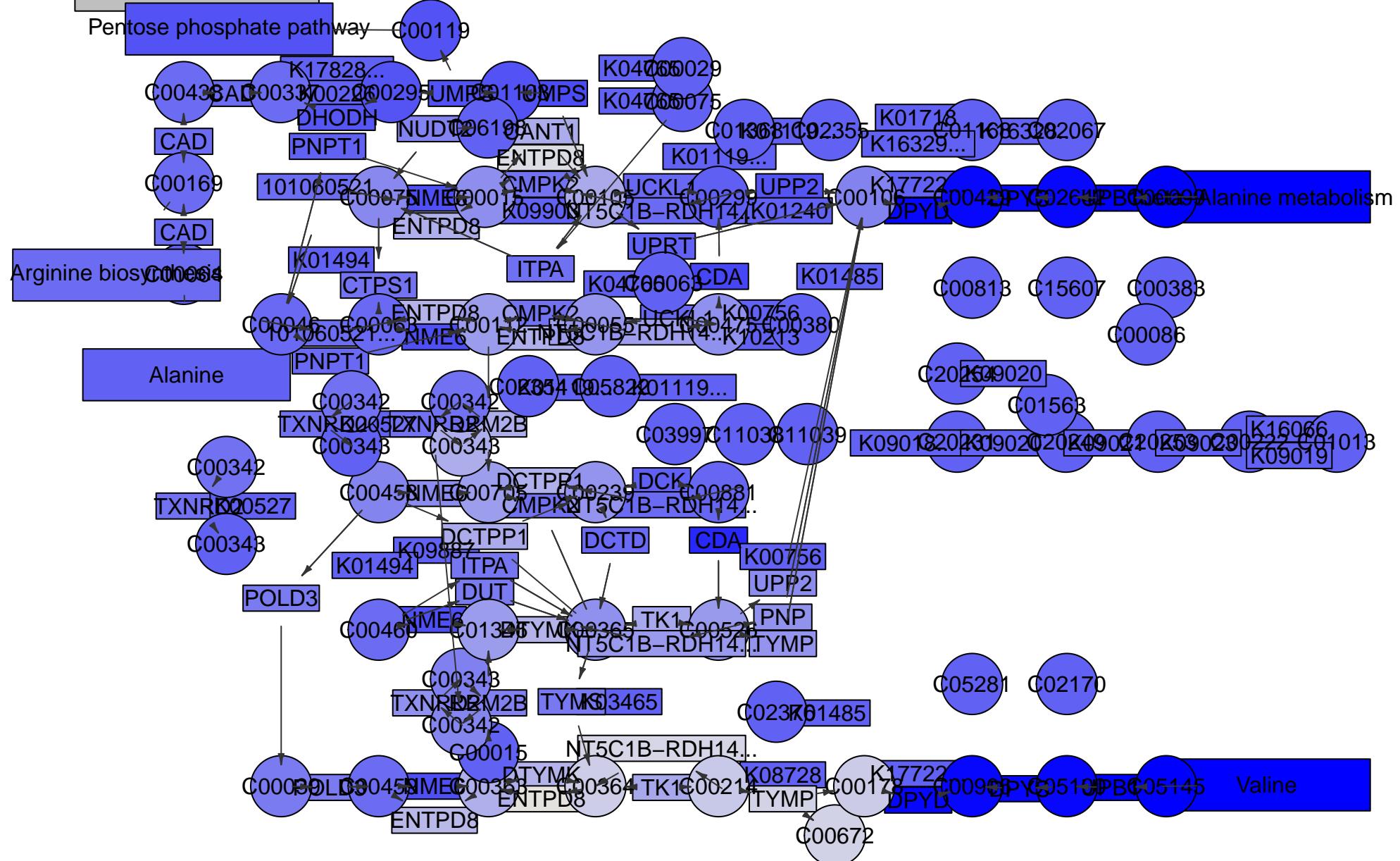


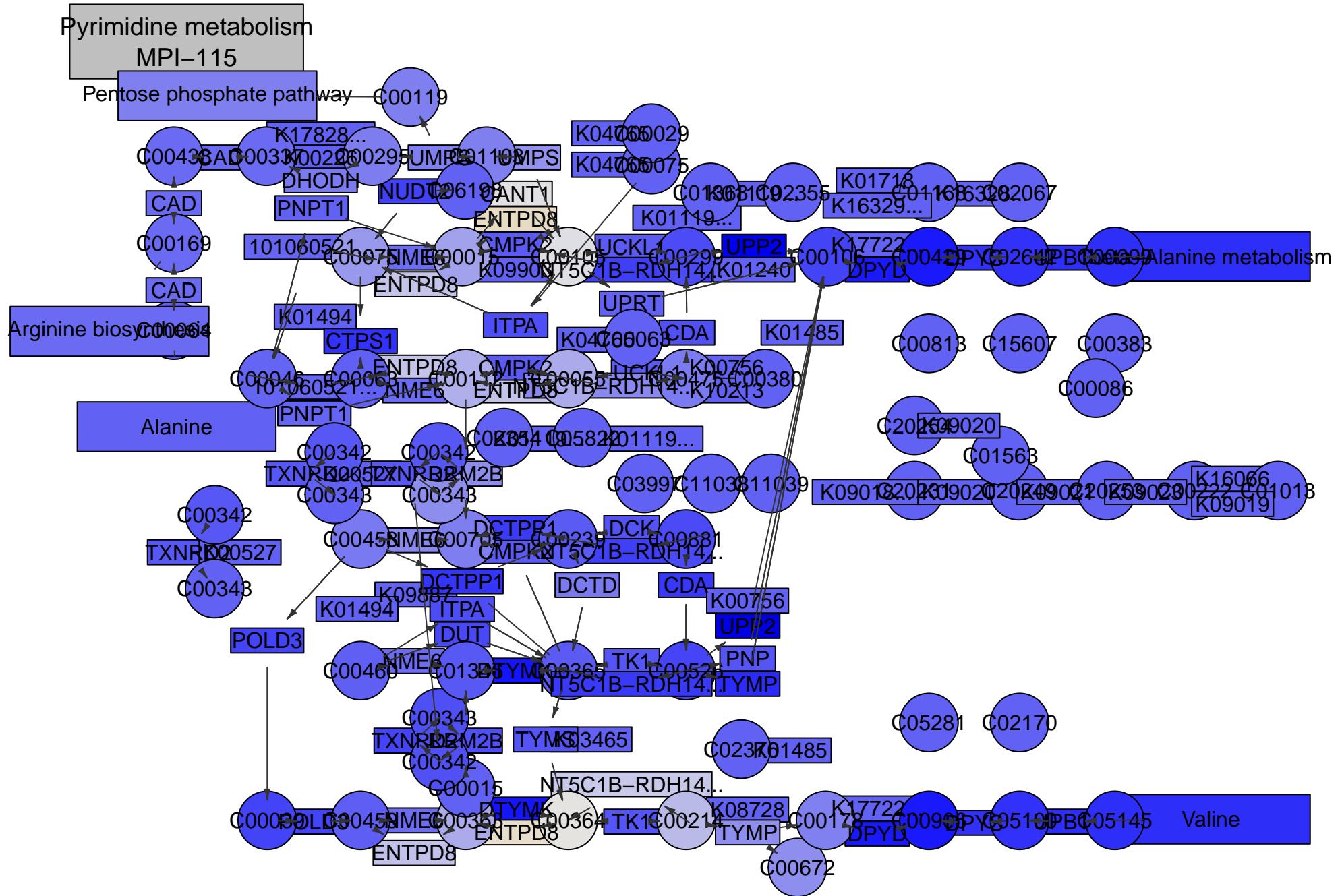


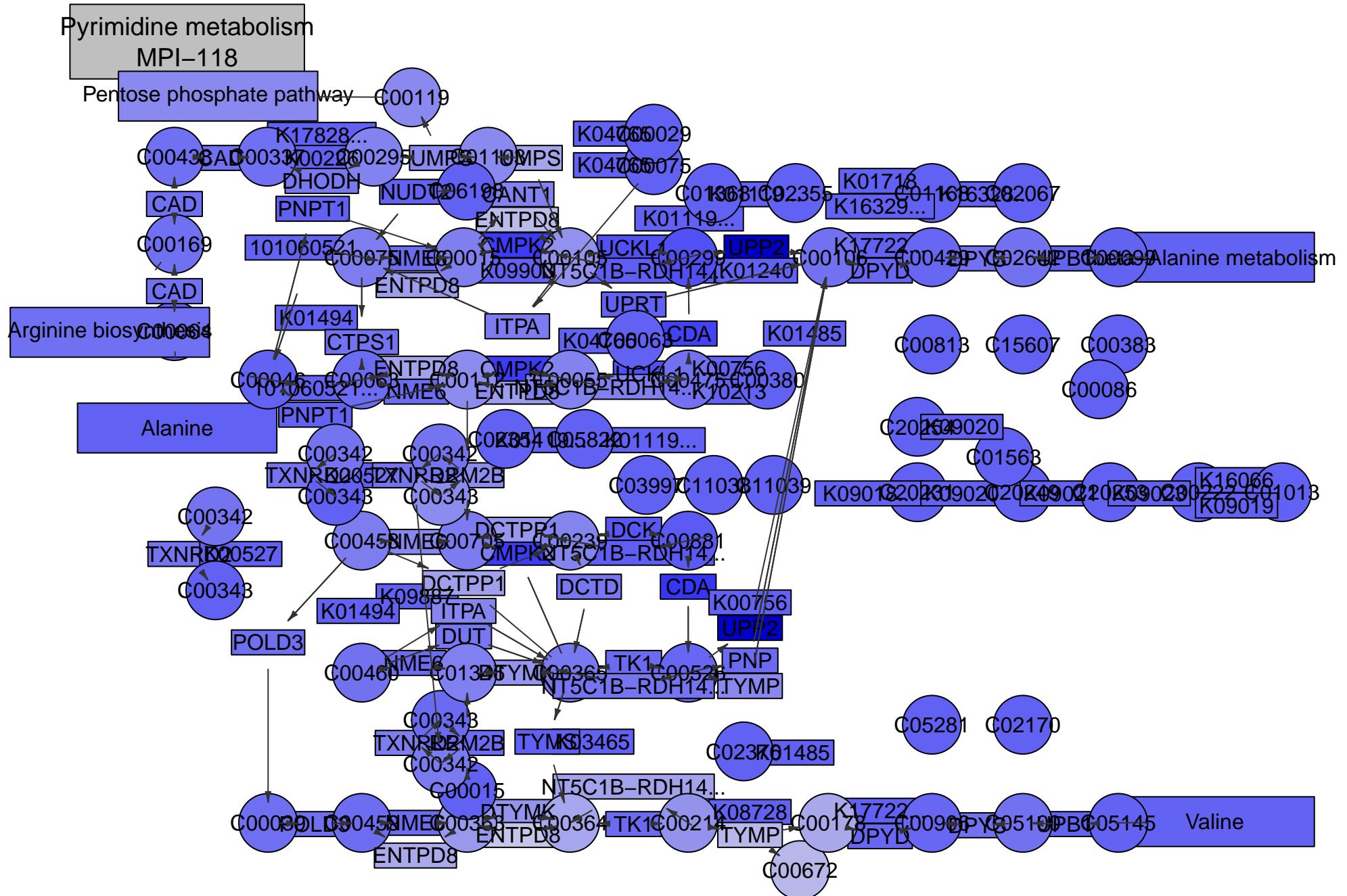
Pyrimidine metabolism
MPI-111

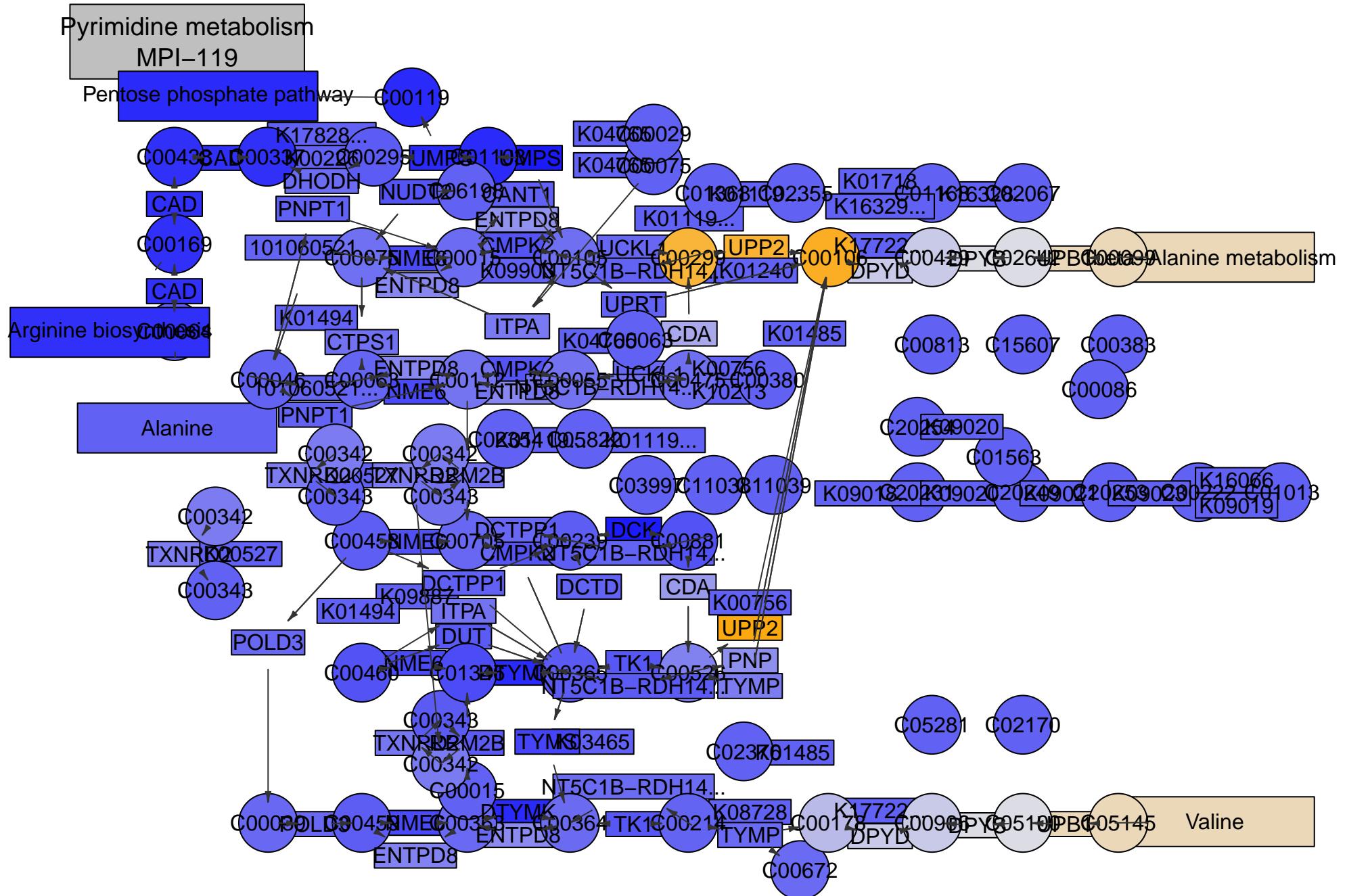


Pyrimidine metabolism
MPI-113

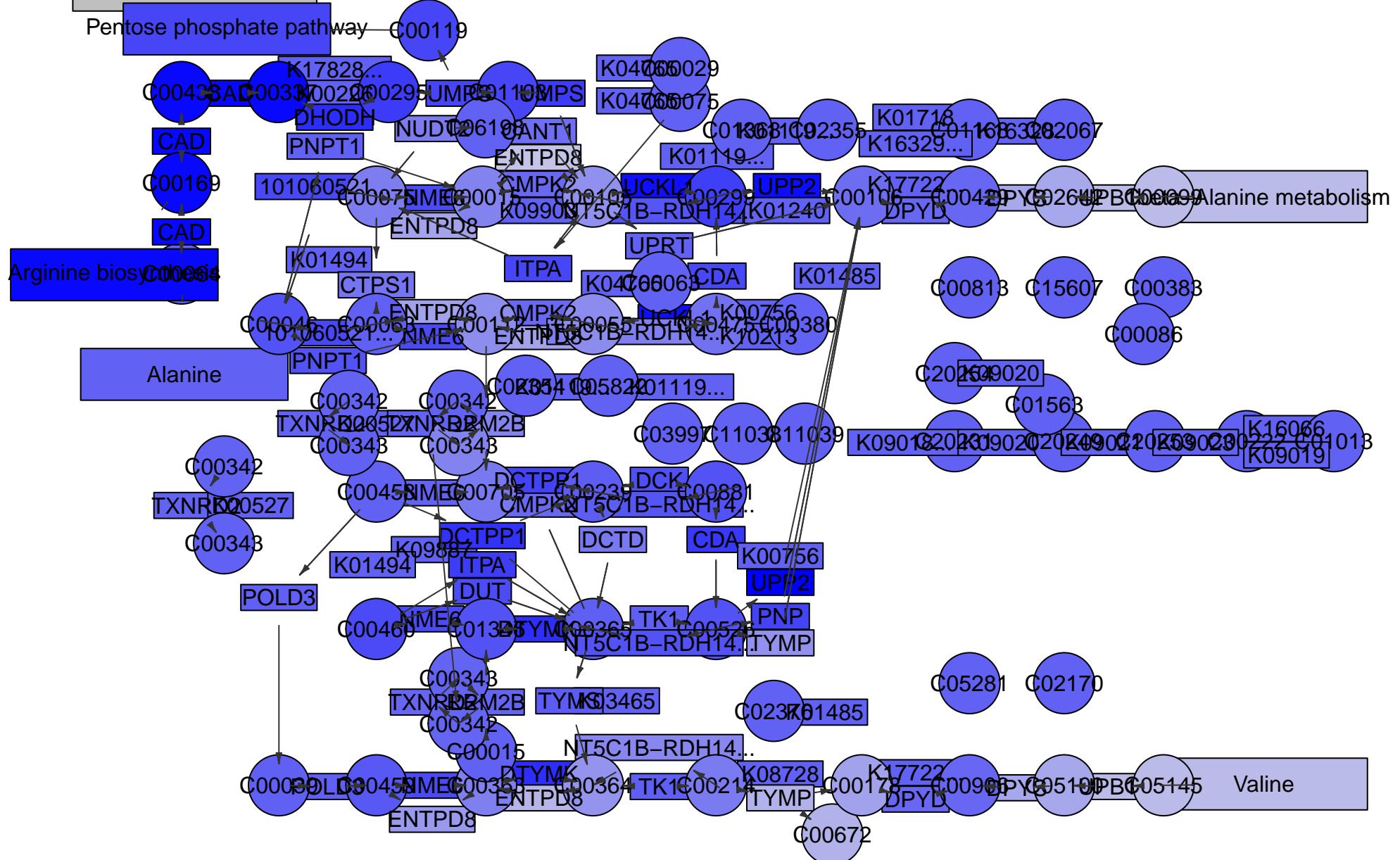






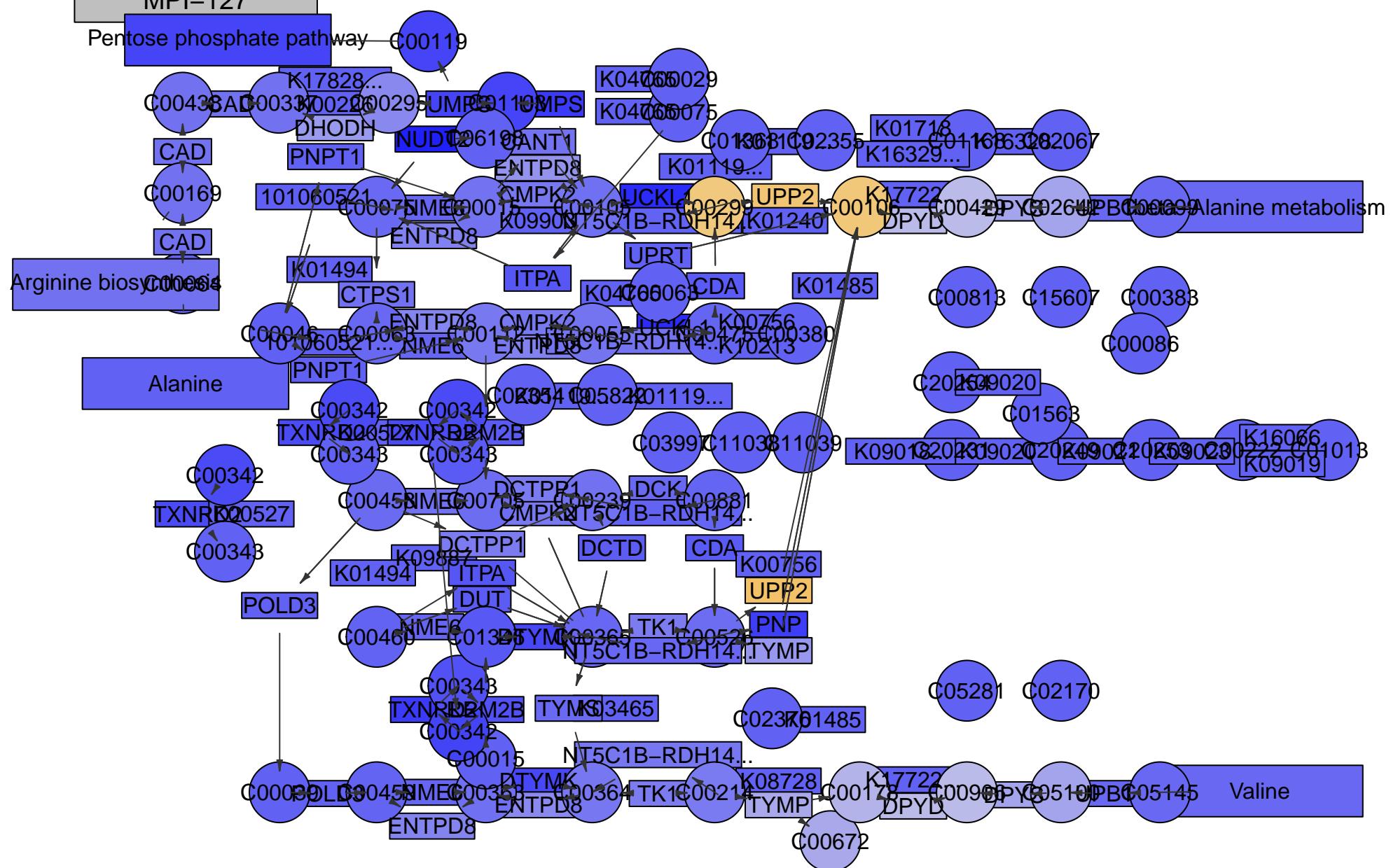


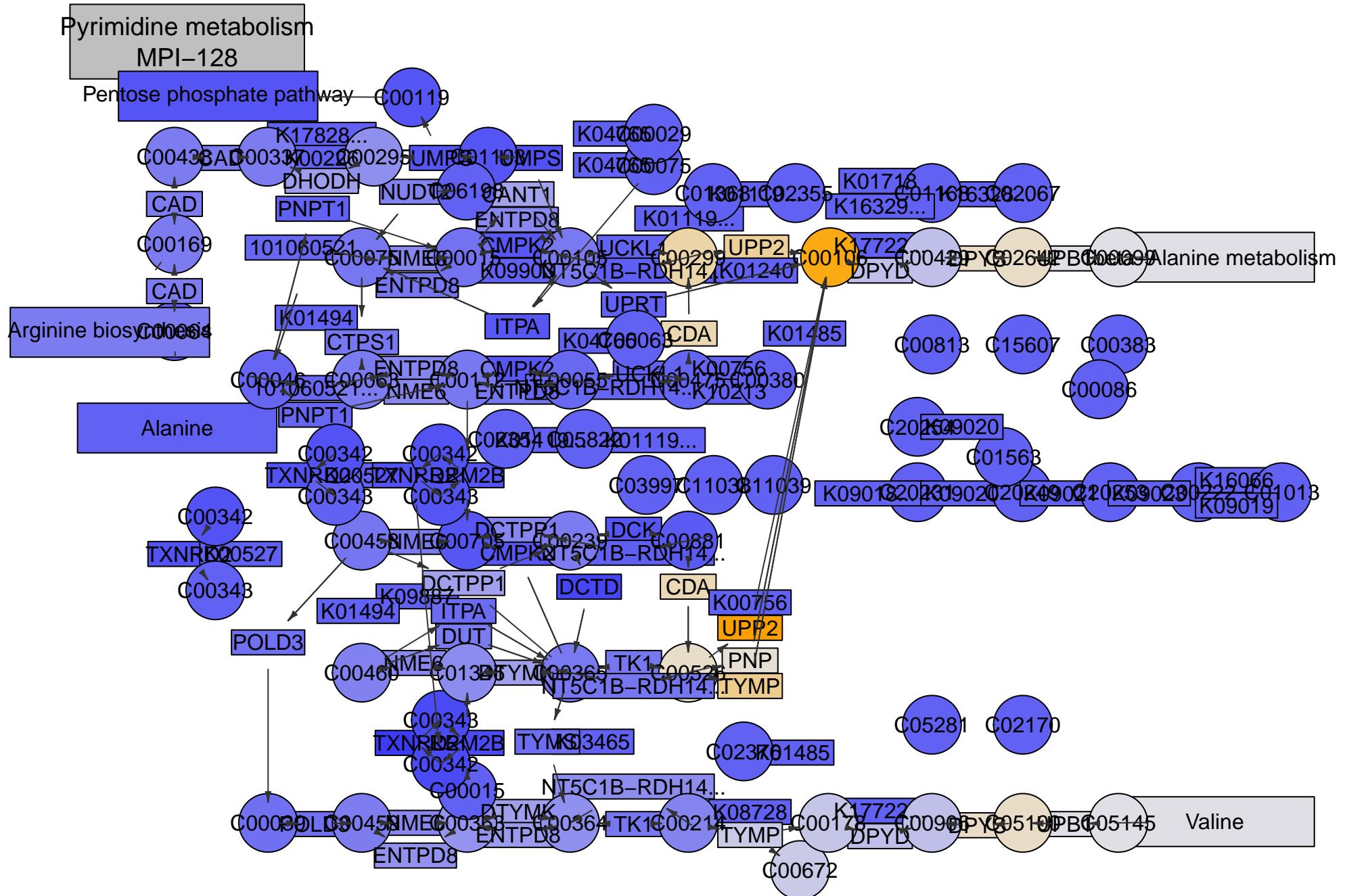
Pyrimidine metabolism
MPI-122

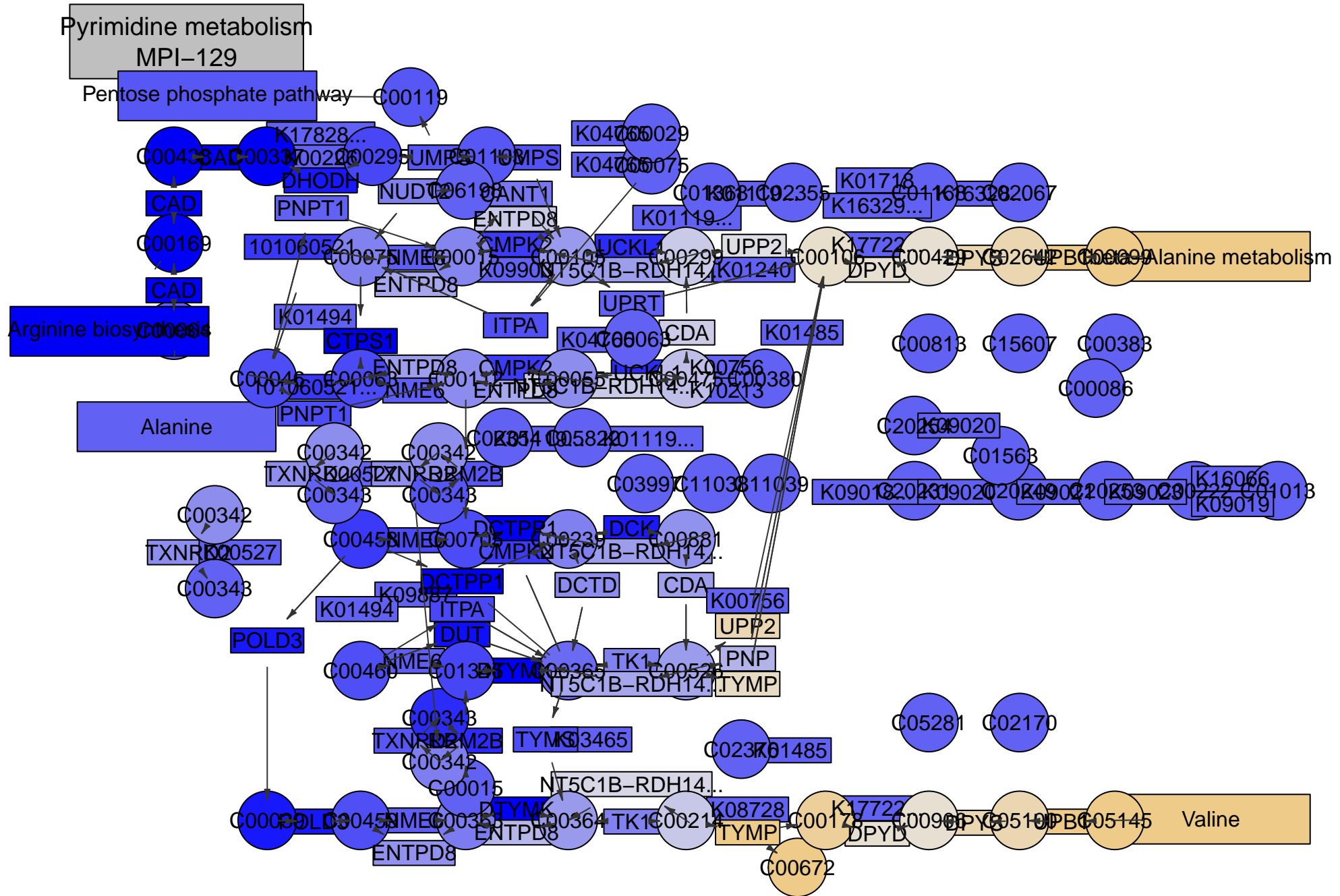


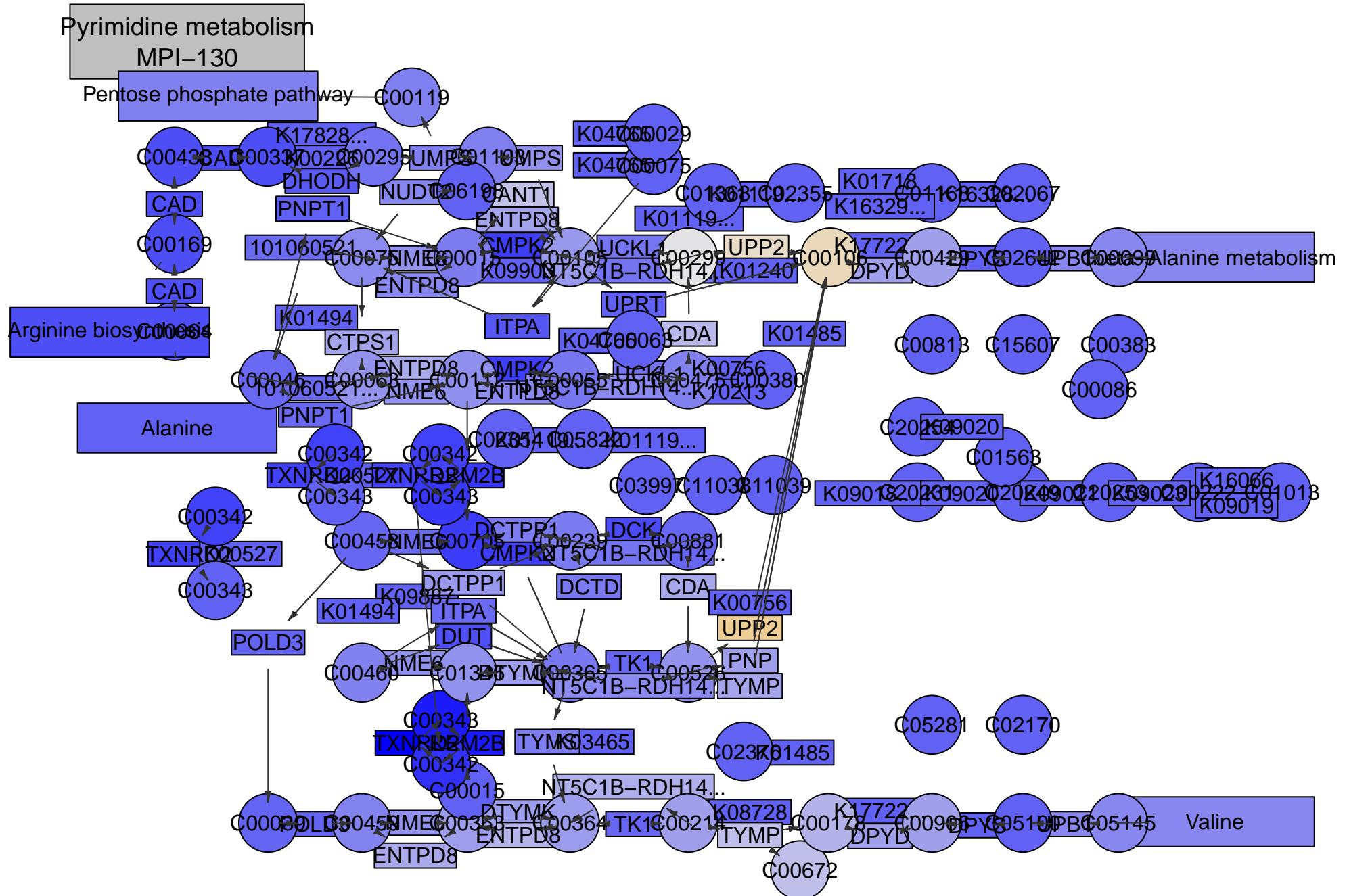
Pyrimidine metabolism

MPI-127

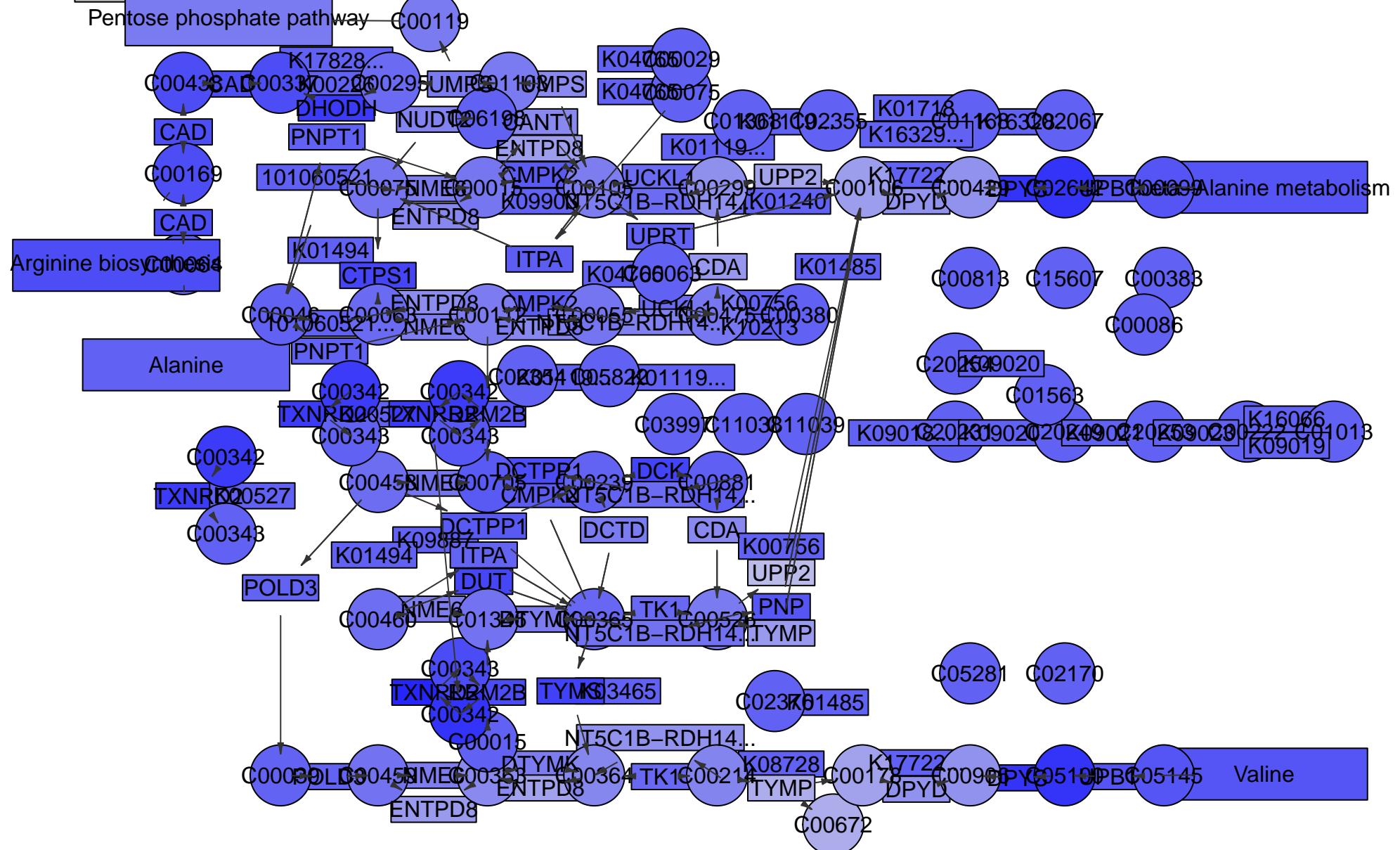




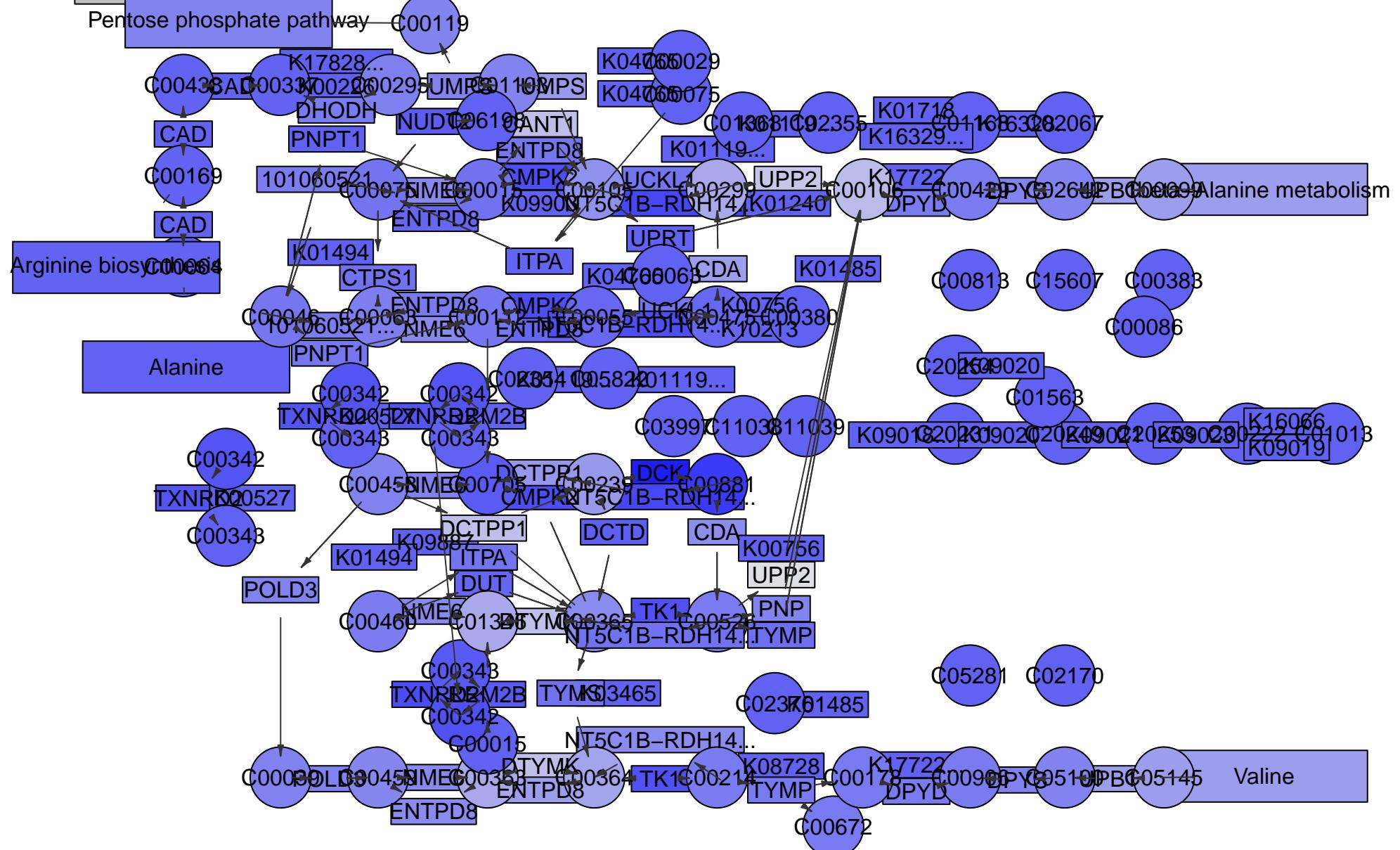




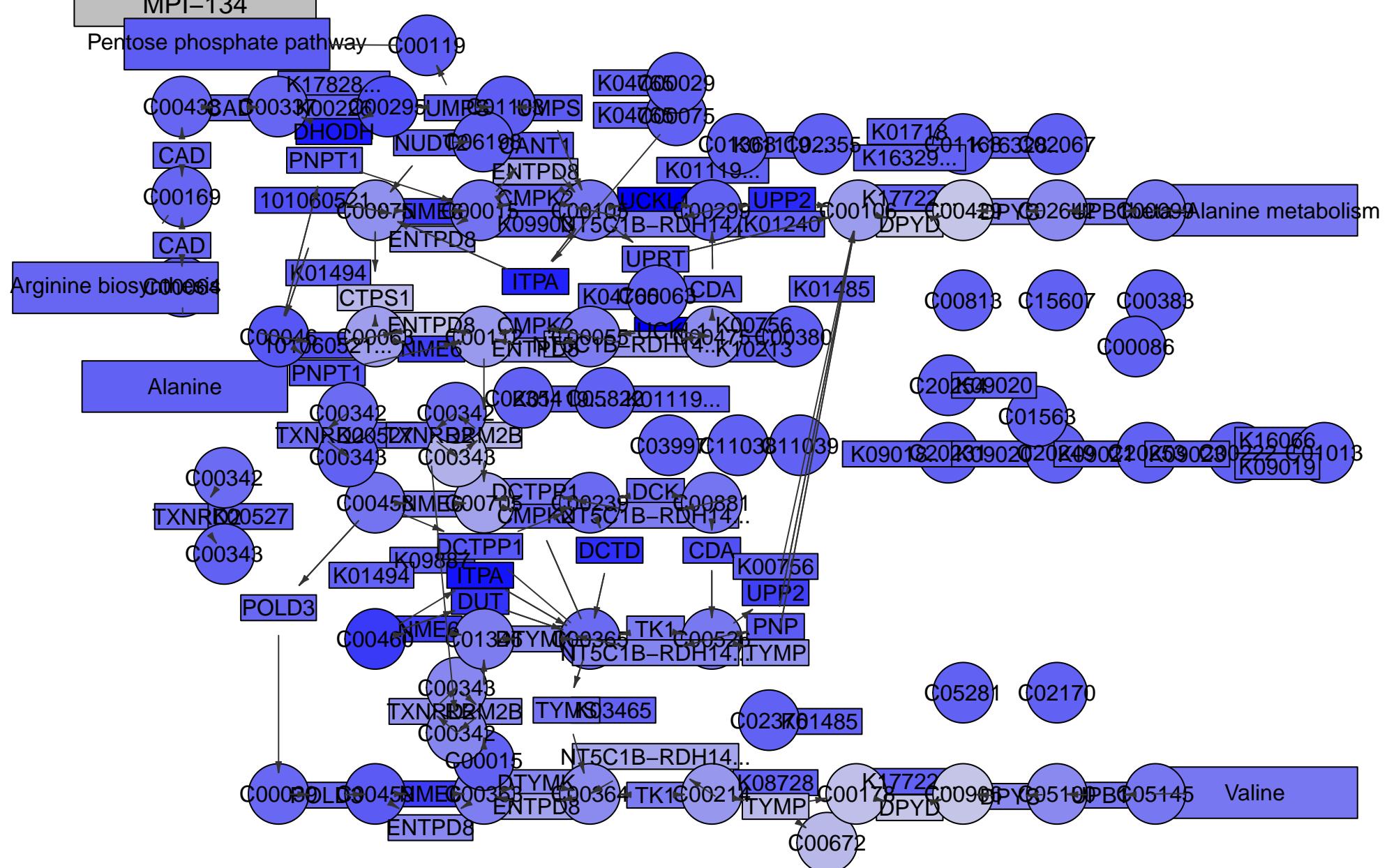
Pyrimidine metabolism
MPI-132

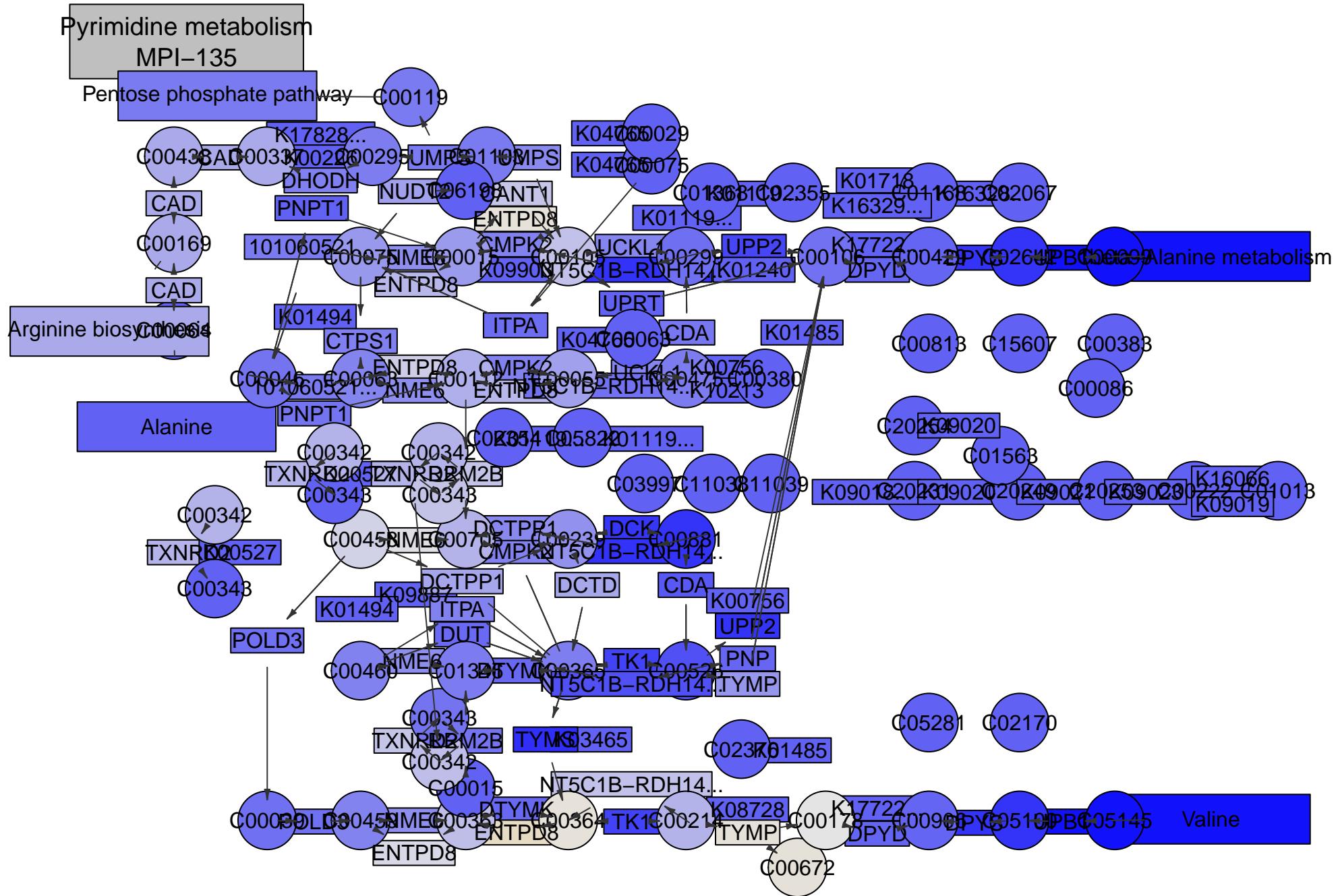


Pyrimidine metabolism
MPI-133



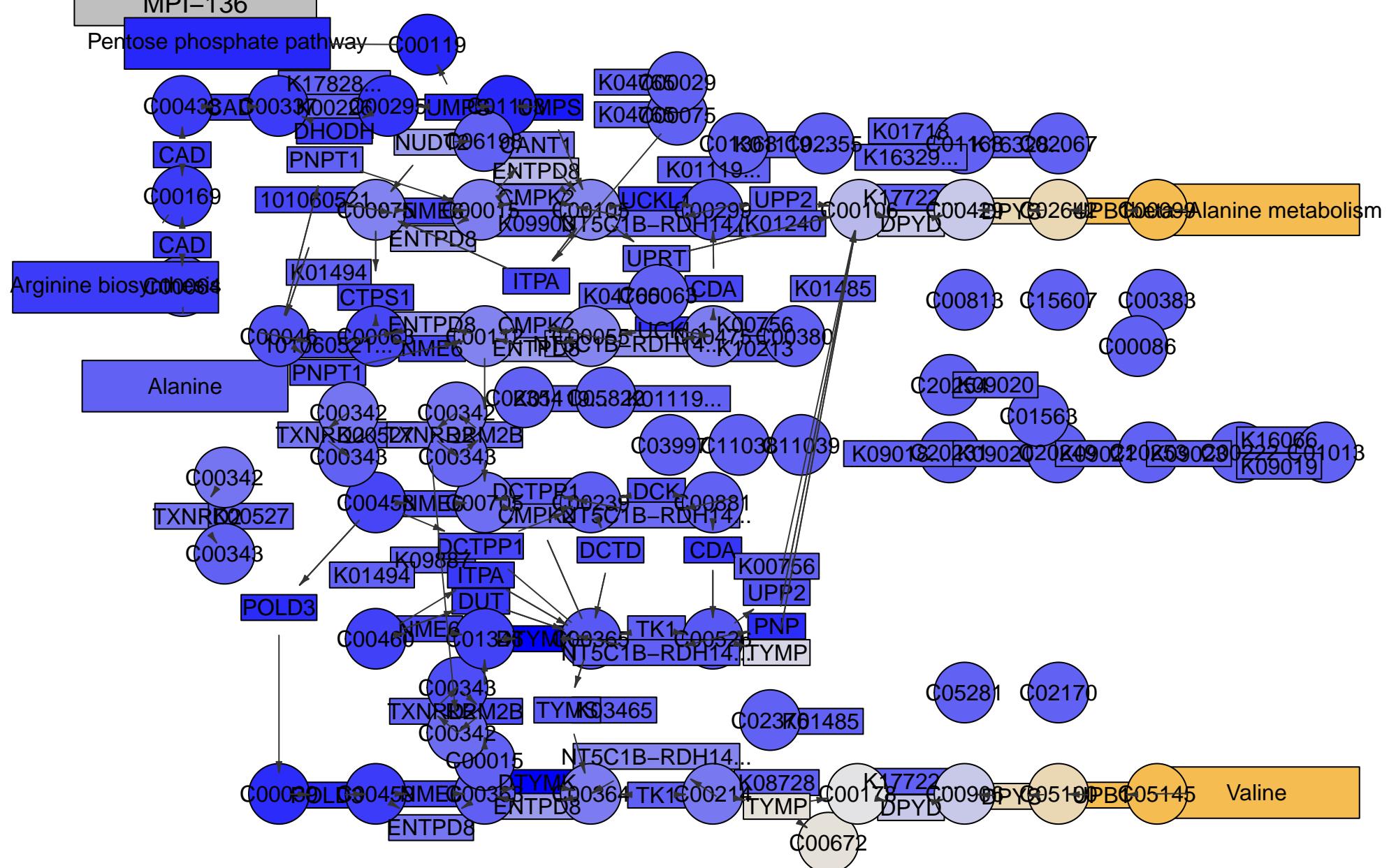
Pyrimidine metabolism
MPI-134

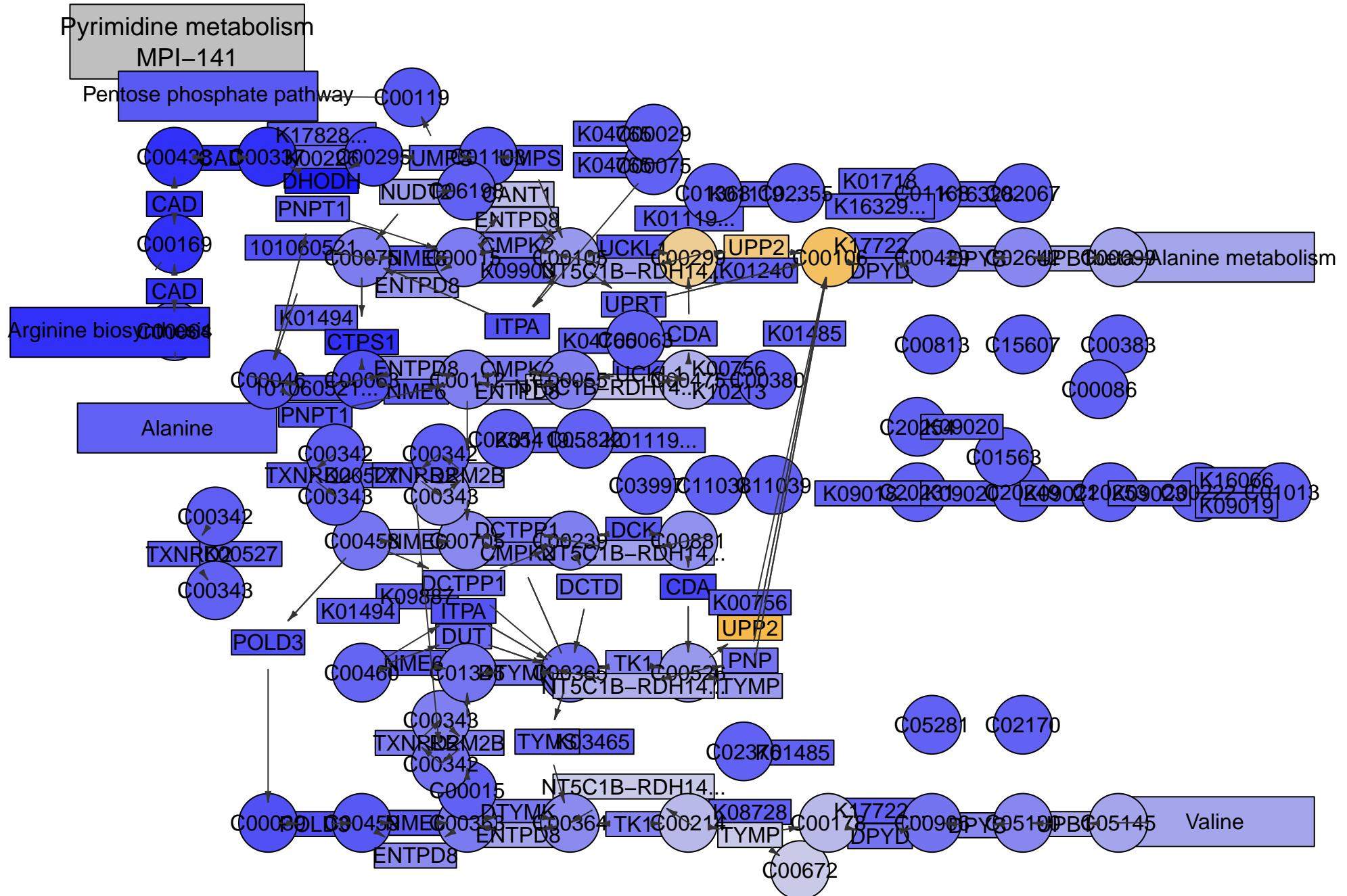


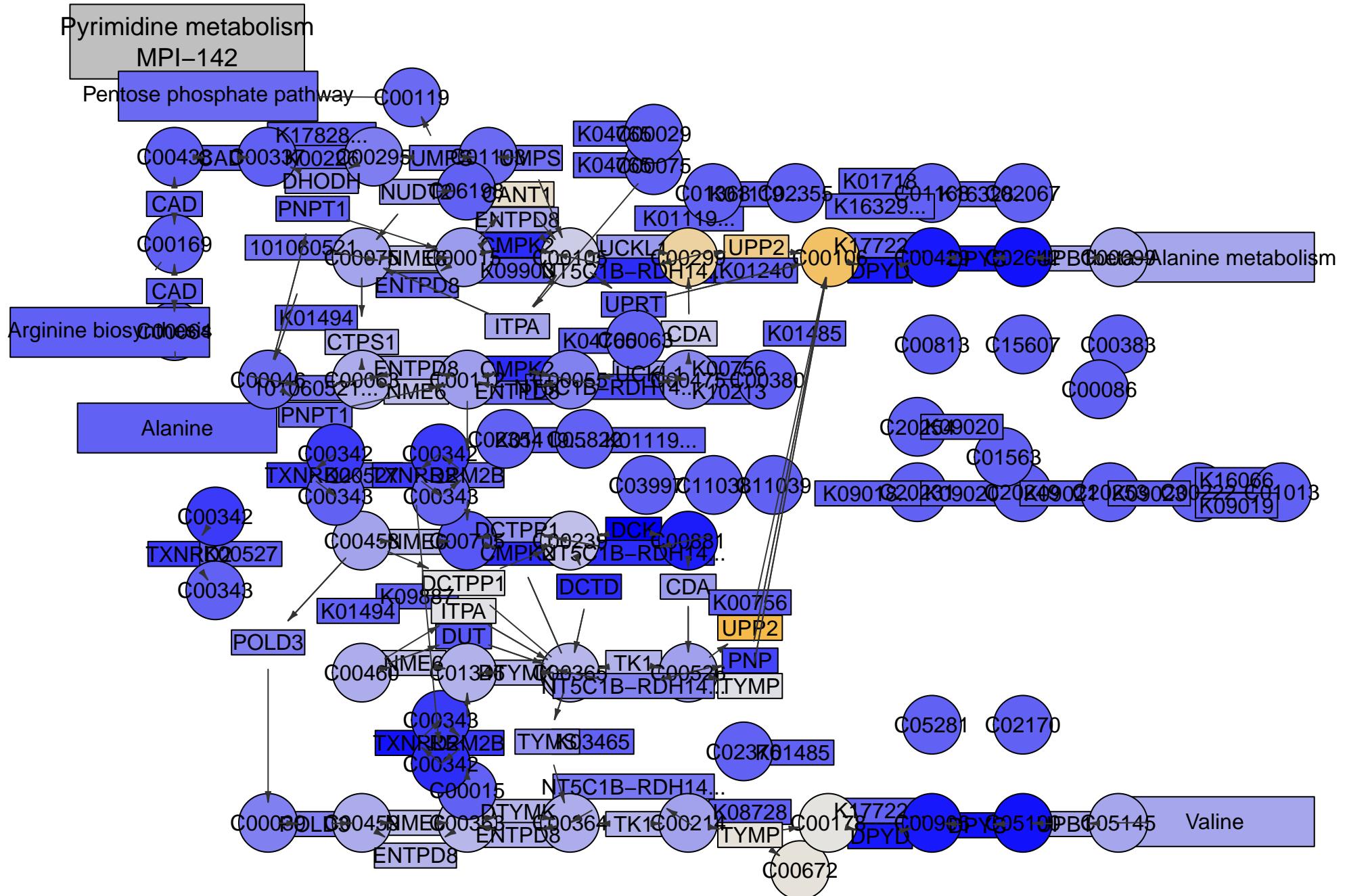


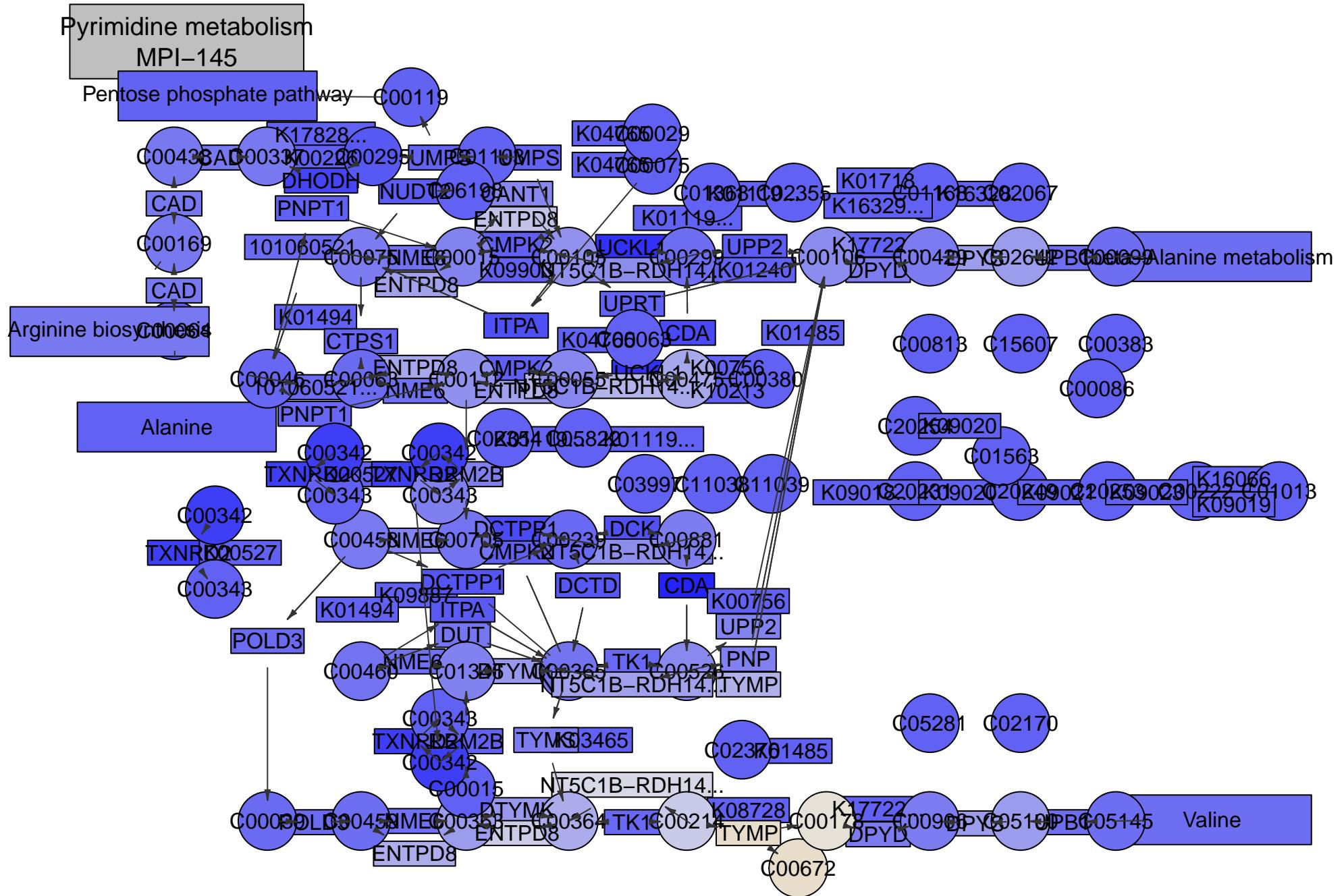
Pyrimidine metabolism

MPI-136

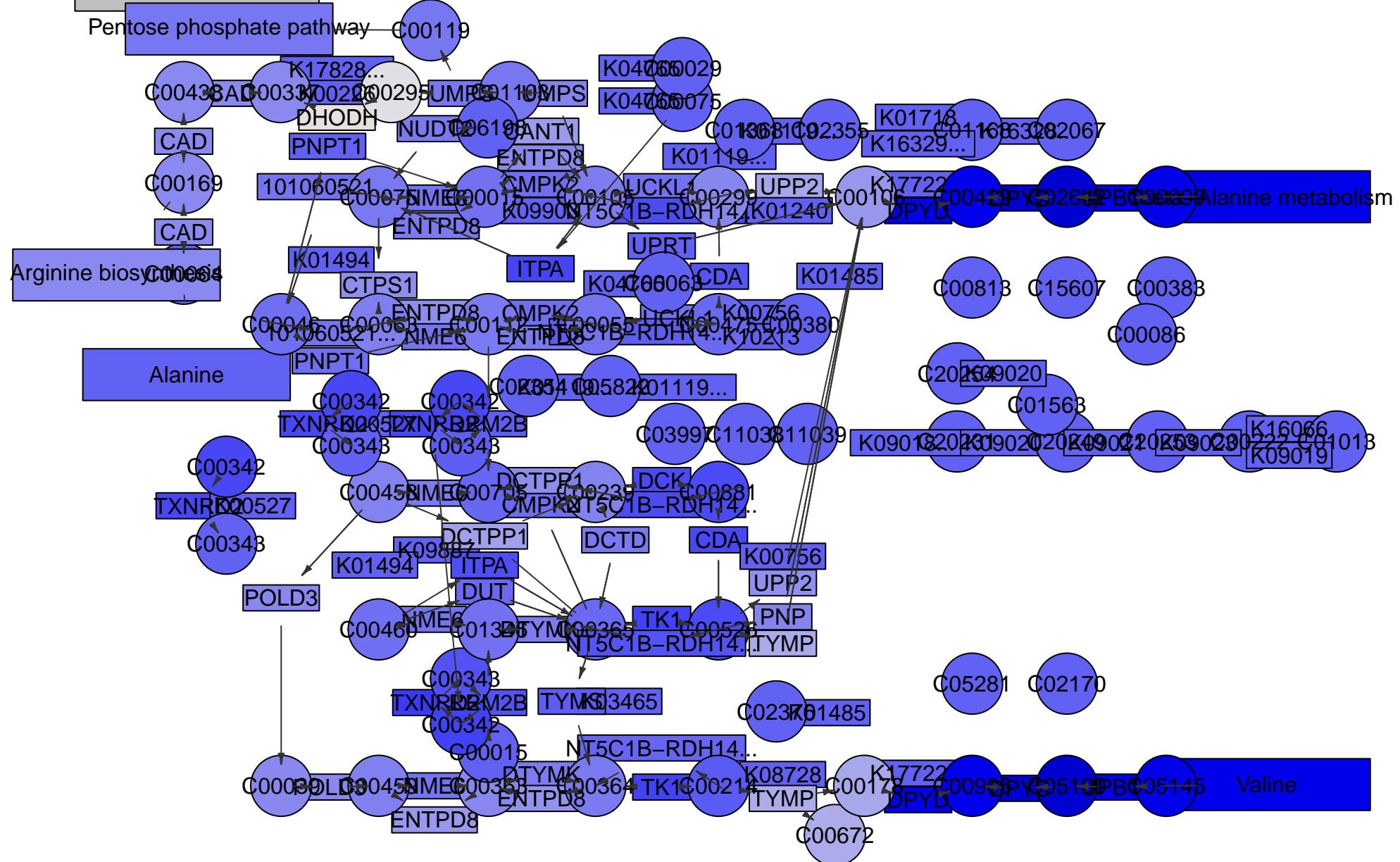




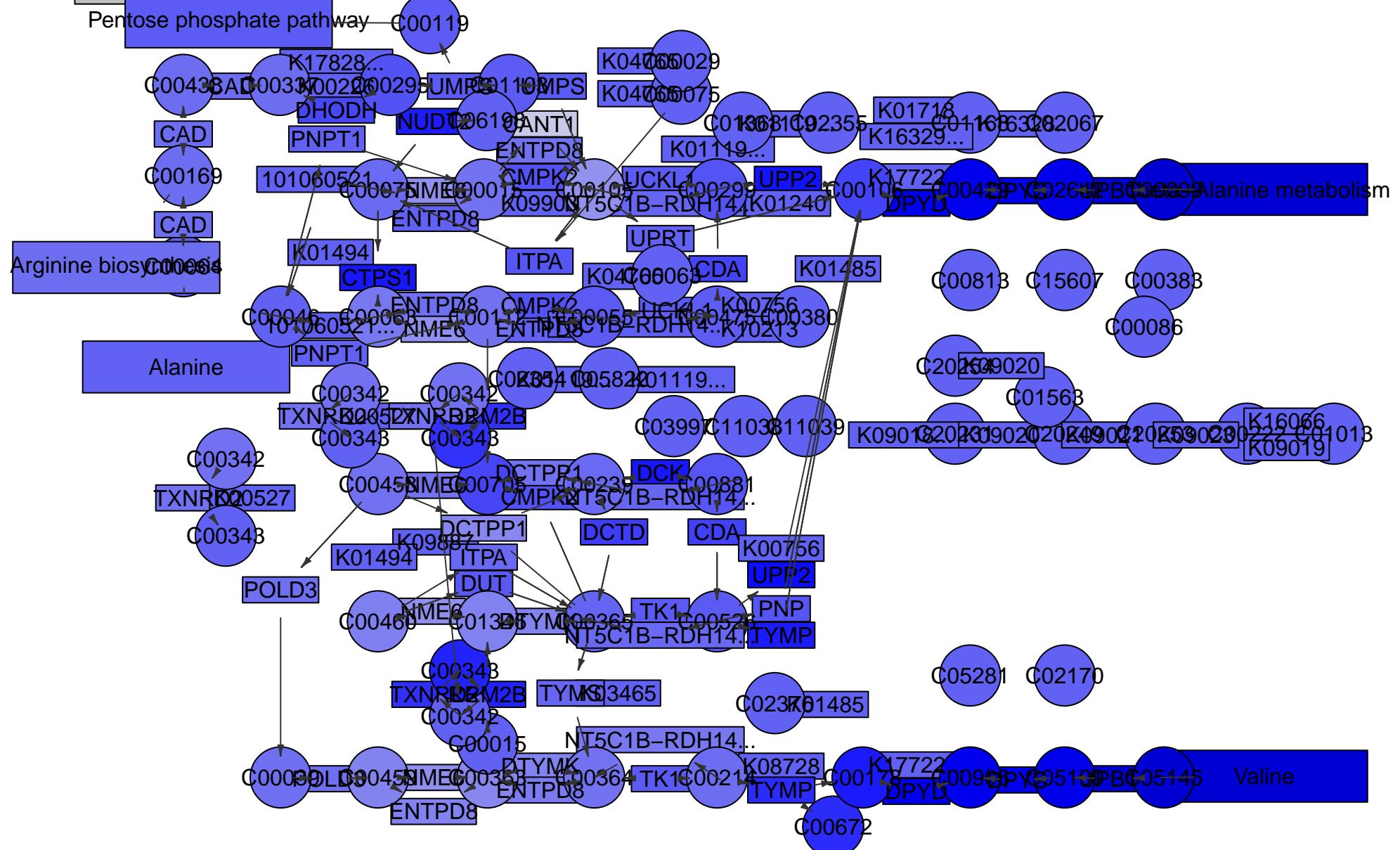


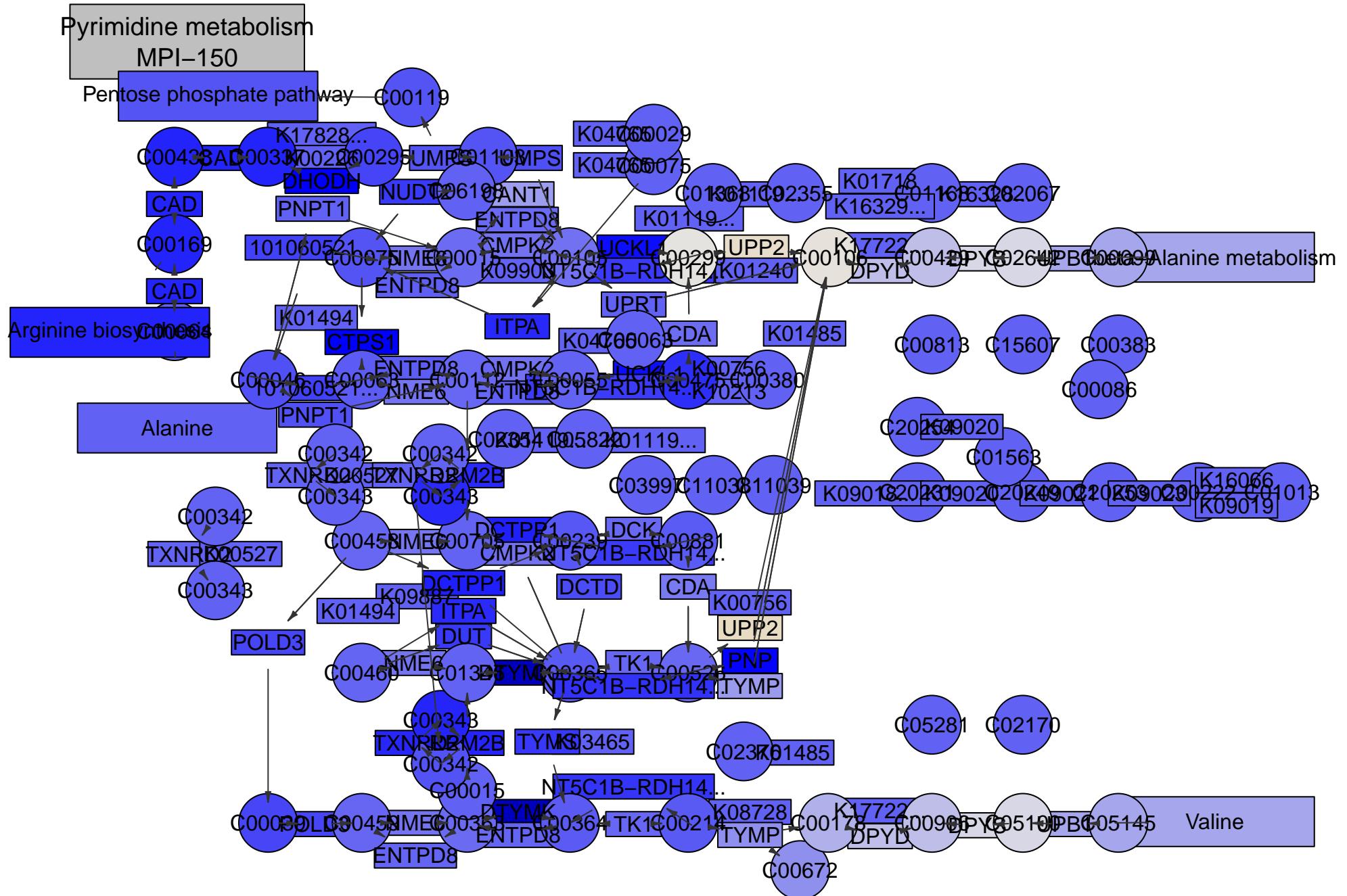


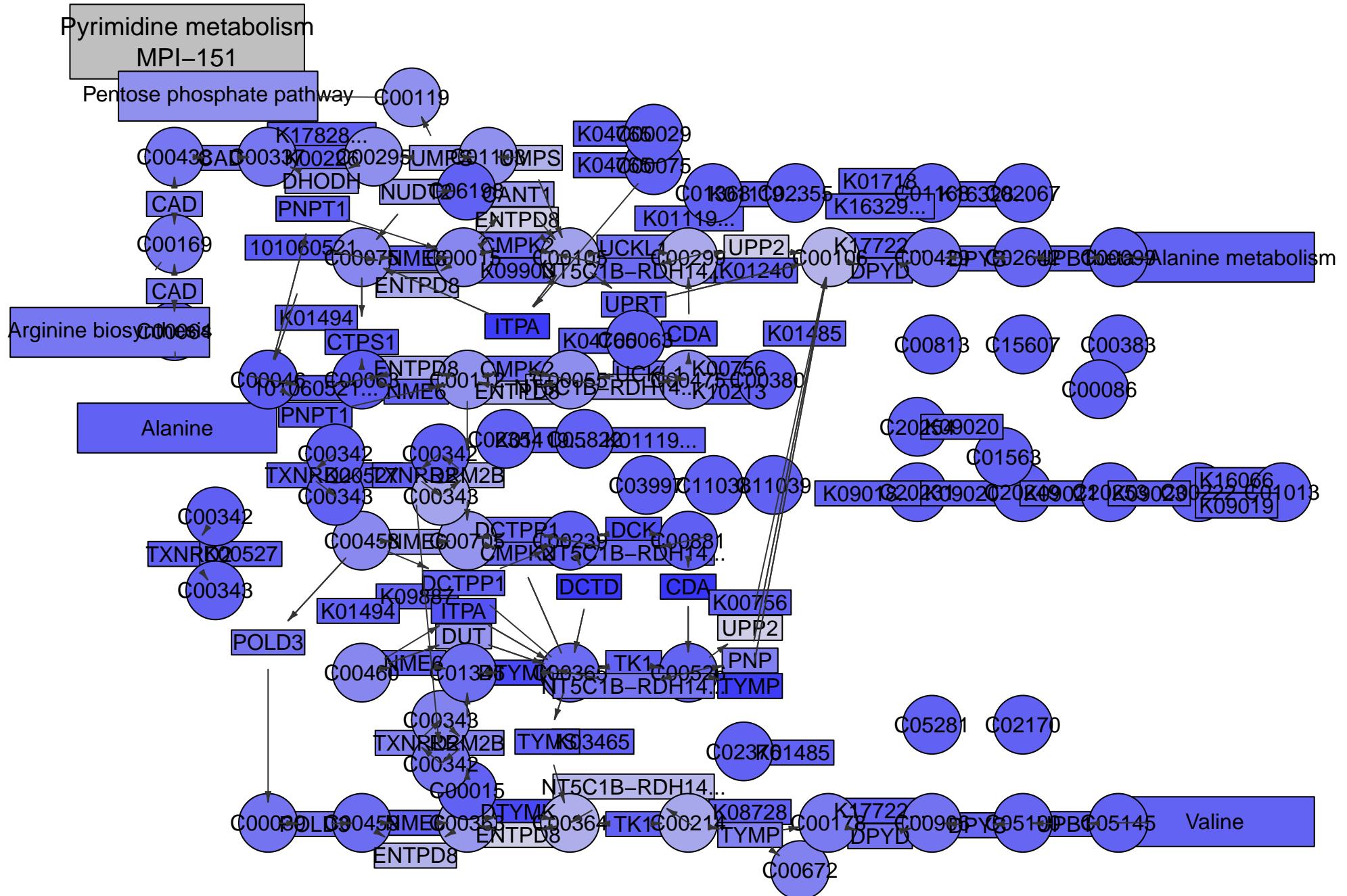
Pyrimidine metabolism
MPI-146



Pyrimidine metabolism
MPI-149

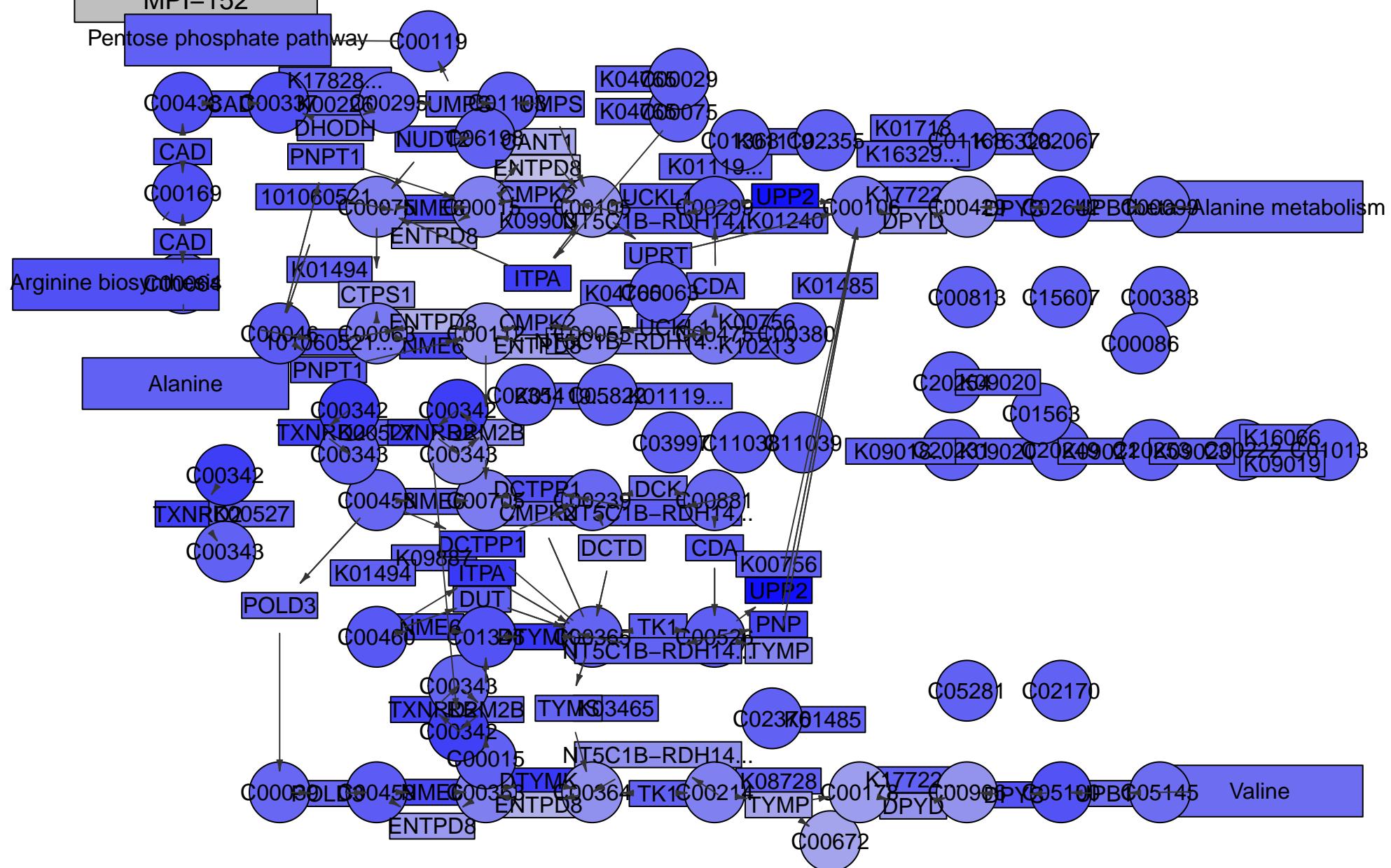


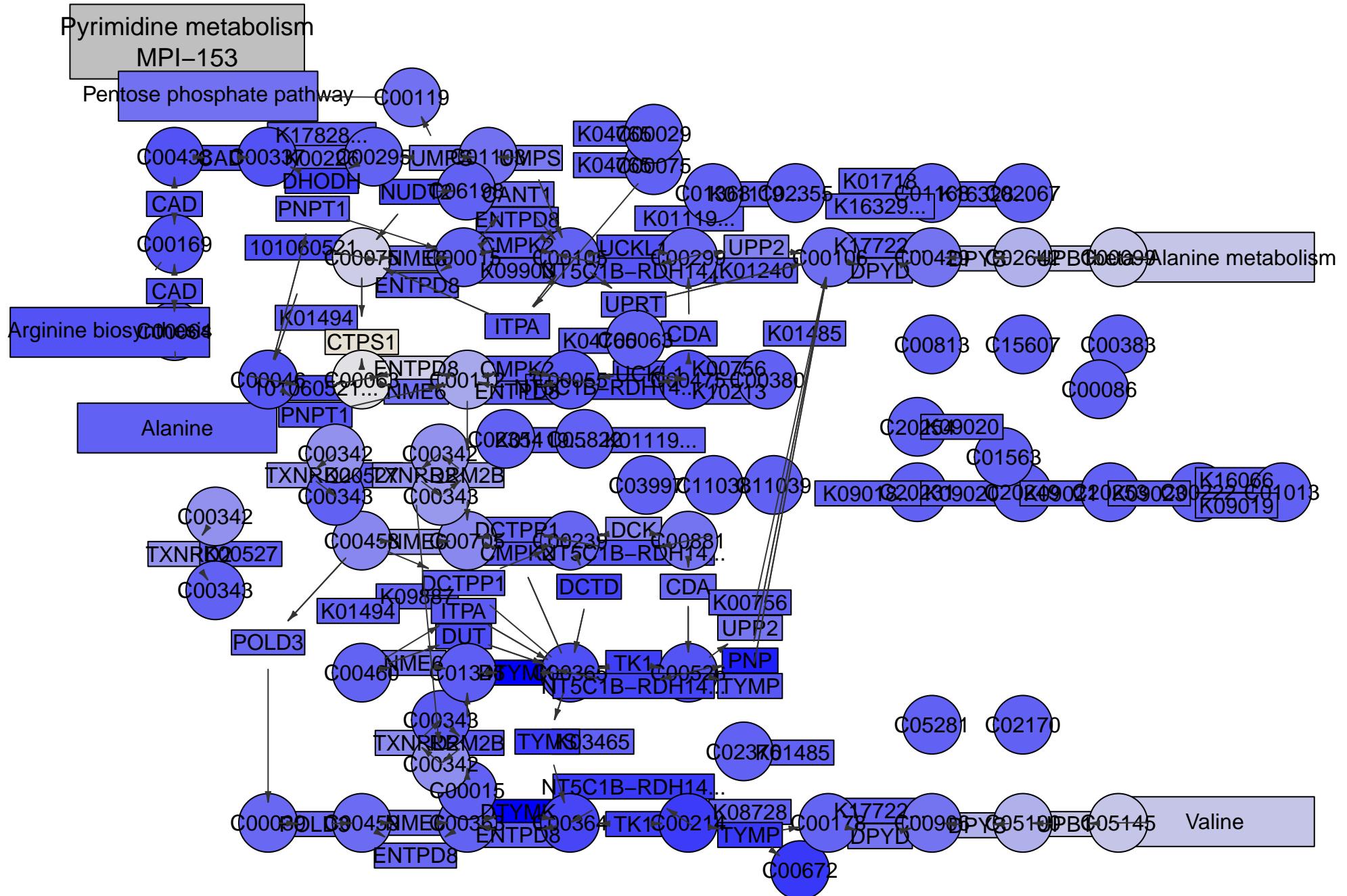


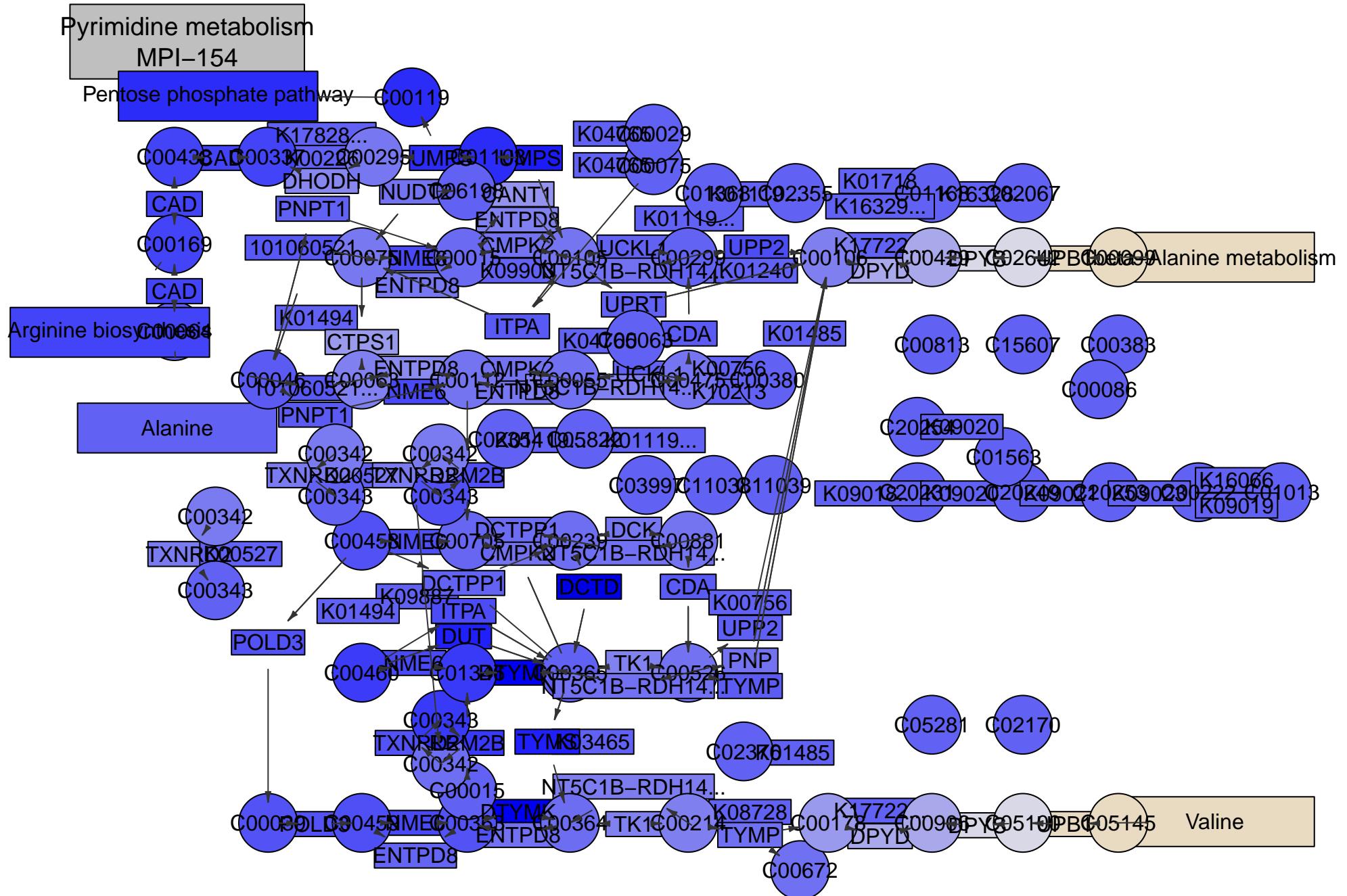


Pyrimidine metabolism

MPI-152

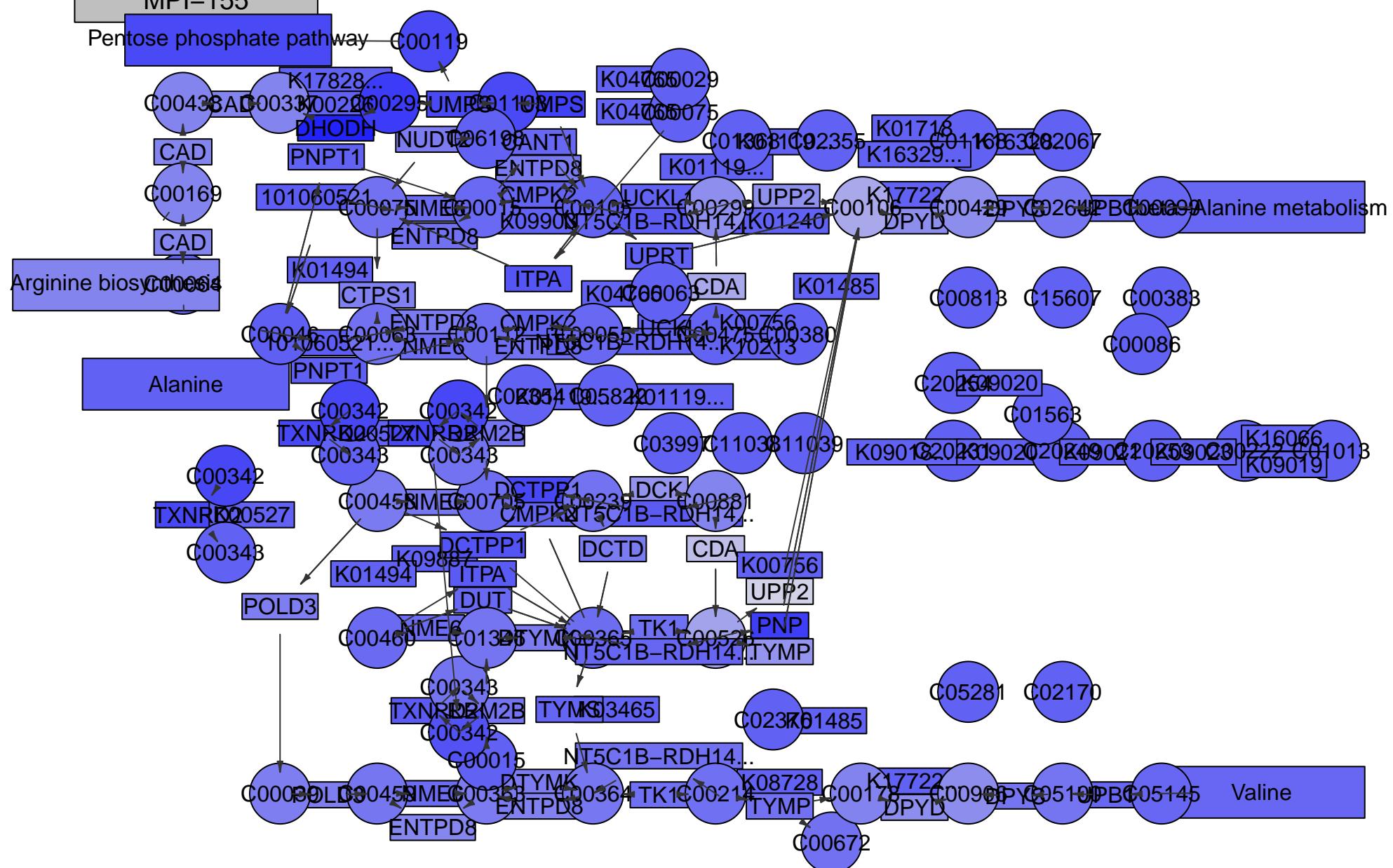


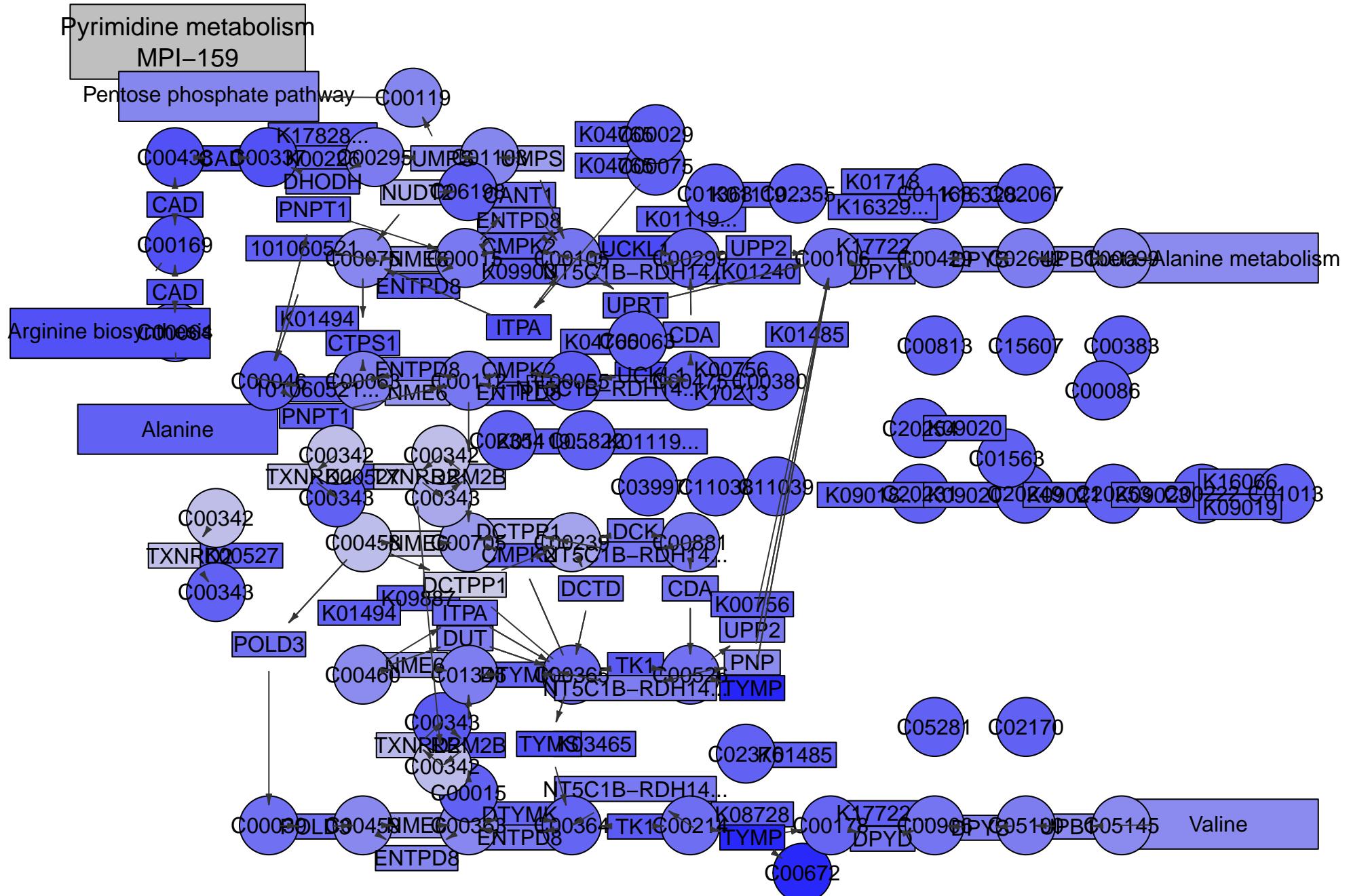




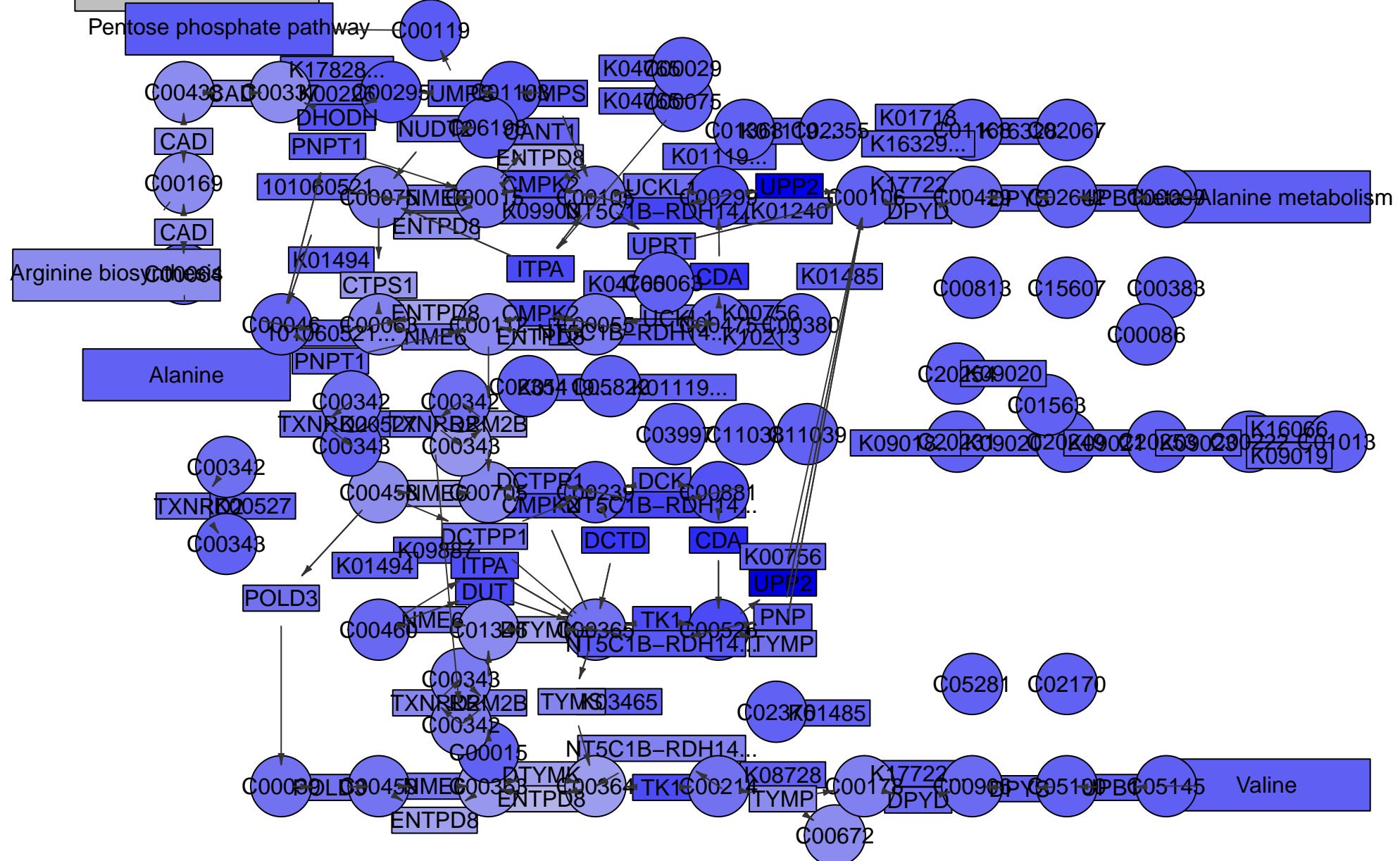
Pyrimidine metabolism

MPI-155



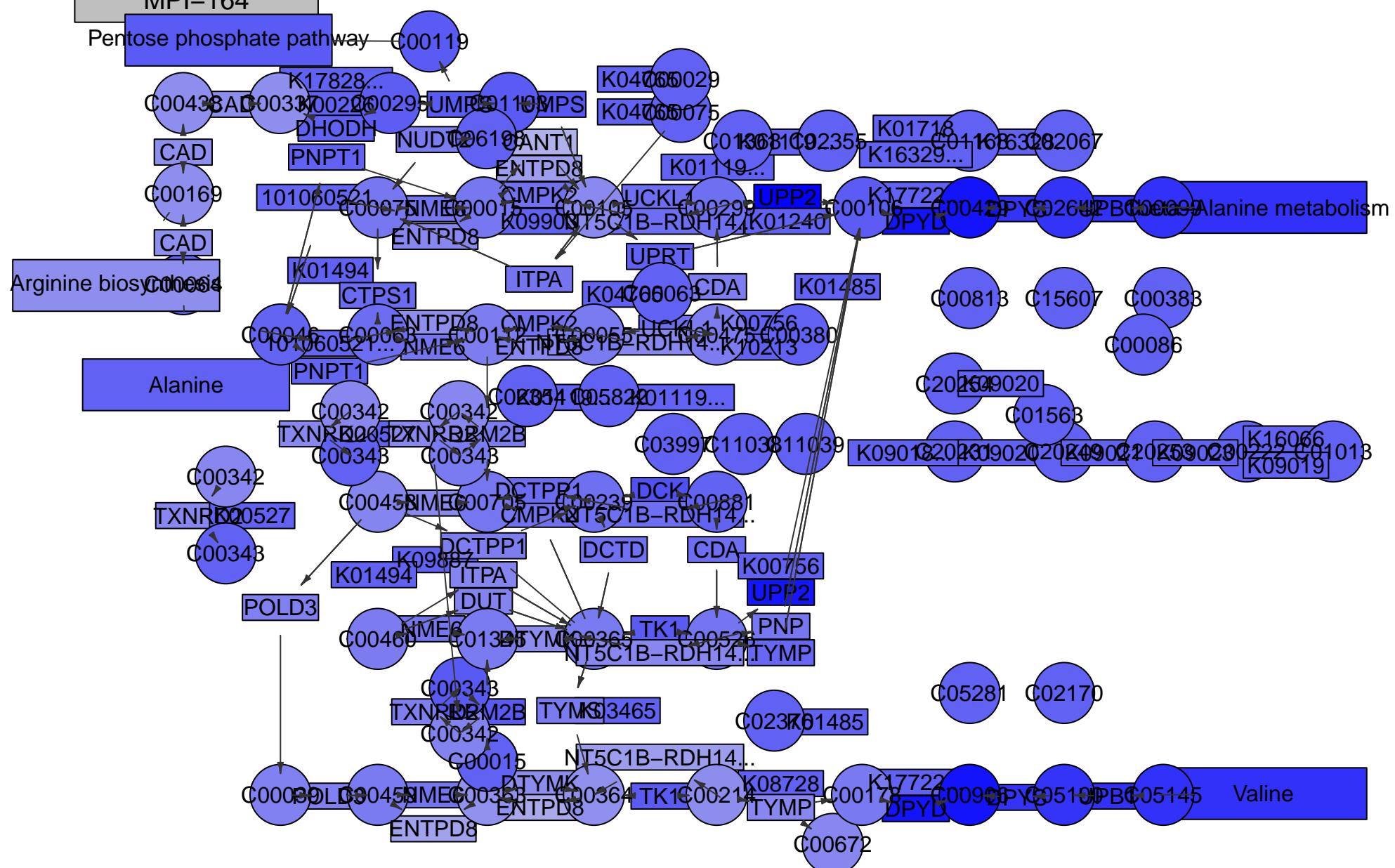


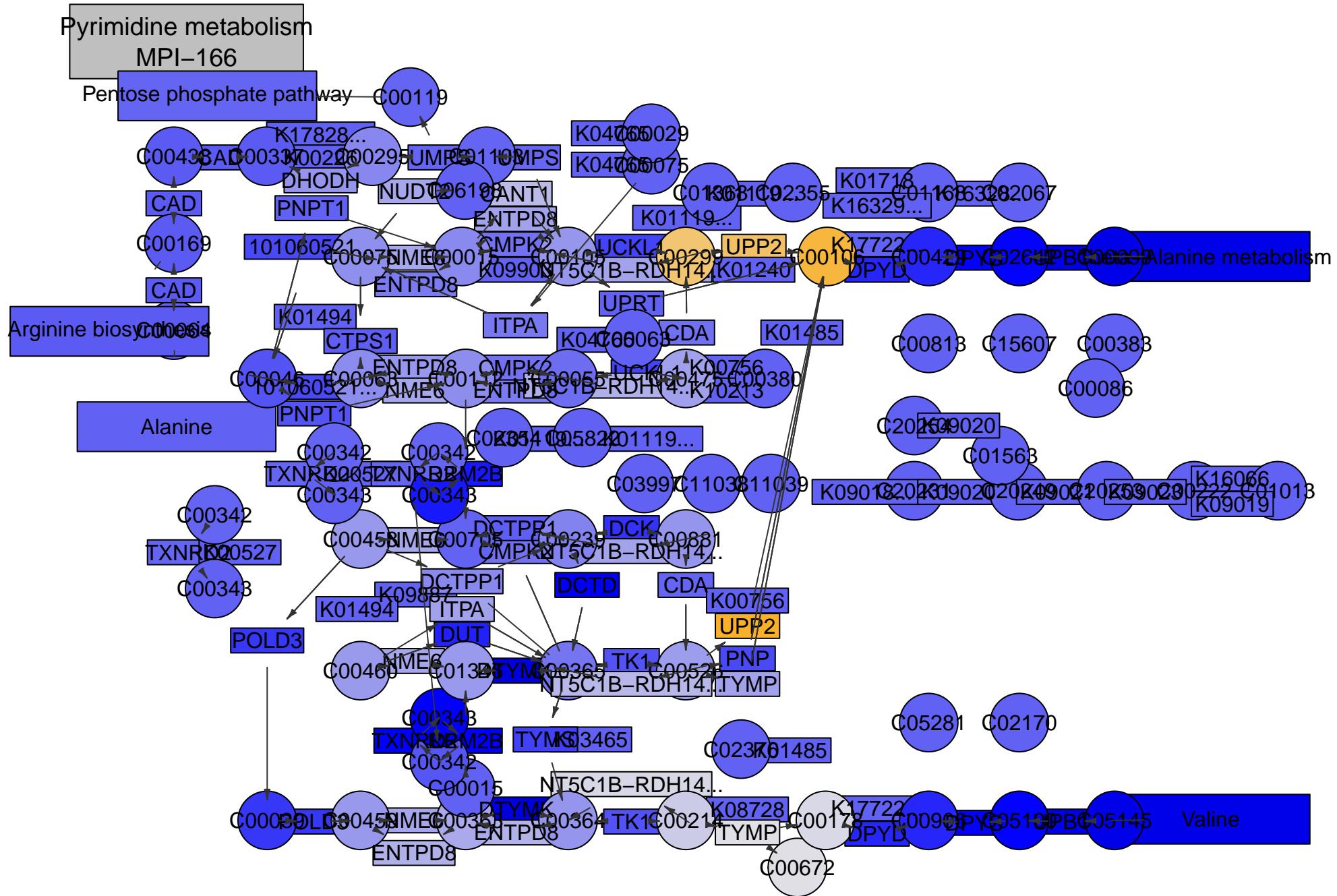
Pyrimidine metabolism
MPI-163

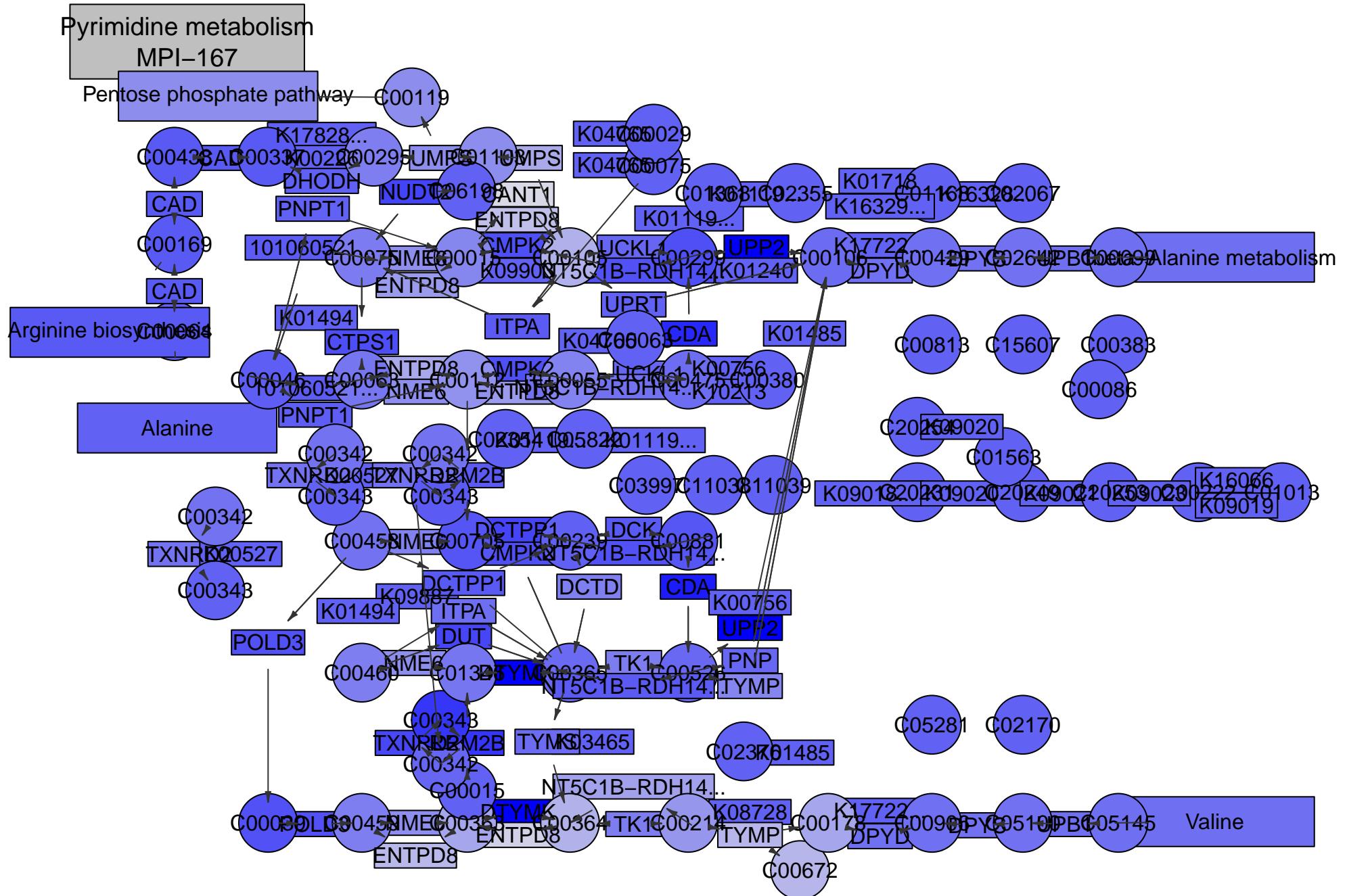


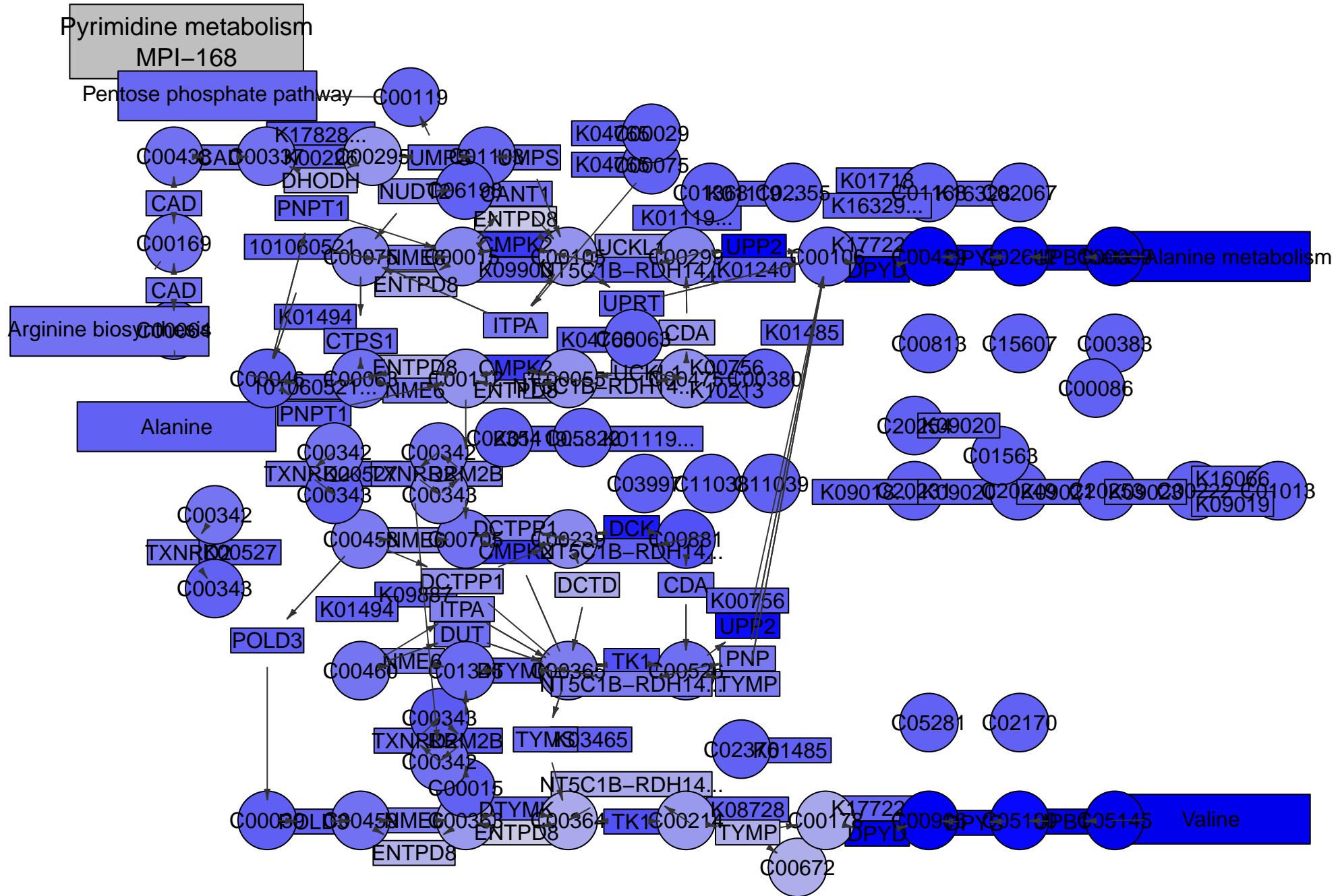
Pyrimidine metabolism

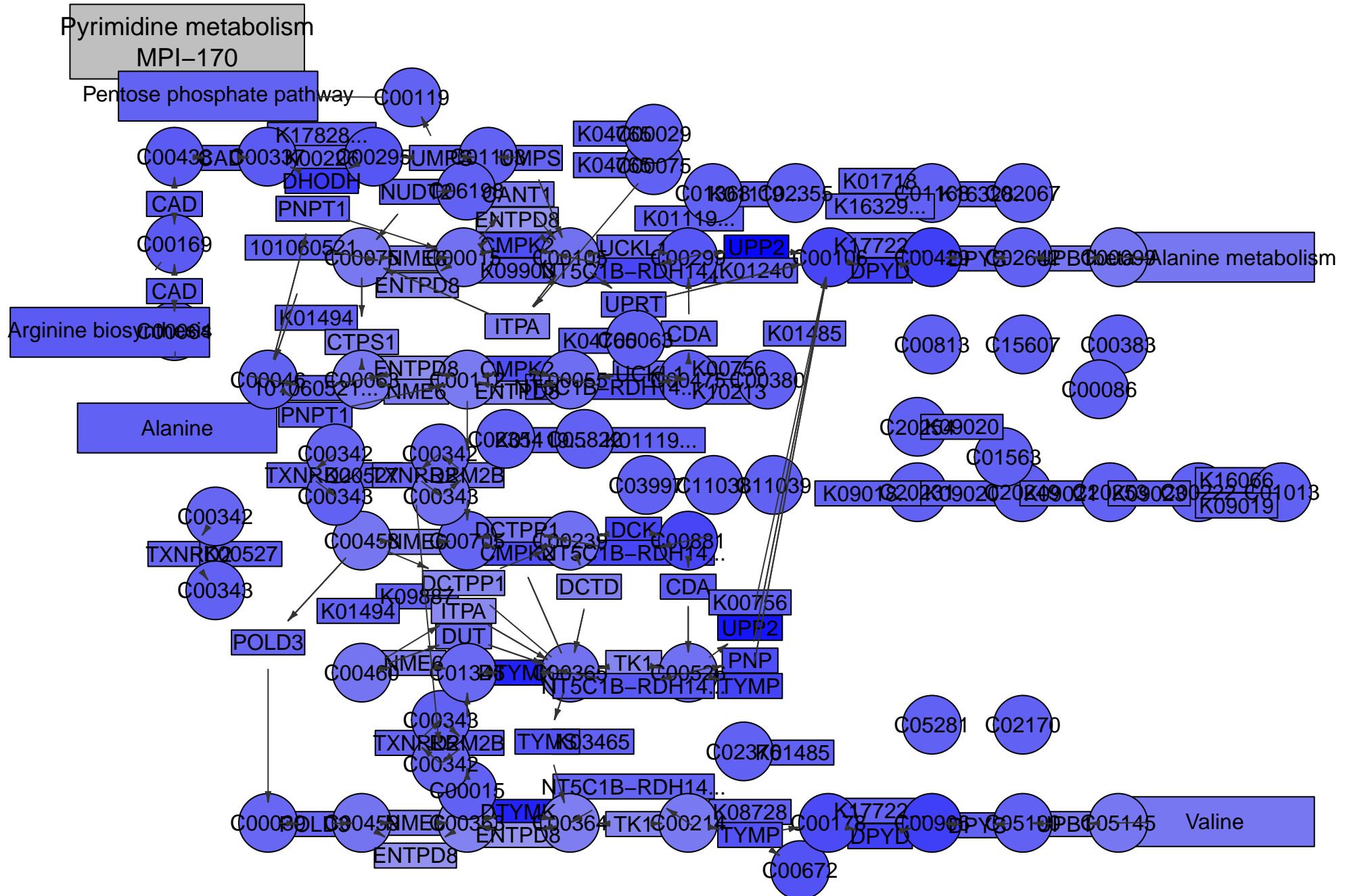
MPI-164











Pyrimidine metabolism
MPI-173

Pentose phosphate pathway

C00119

K17828...
C00438A00331002000295UMP001103
DHODH
NUDTC06105
PNPT1

C00169
CAD

C00169
CAD

Arginine biosy

C00064

Alanine

C00342

TXNRK00527

C00343

POLD3

C00342

TXNRK00527

C00343

C000393

D30458NME00368

ENTPD8

C00015

PTYMK

ENTPD8

C00342

C00015

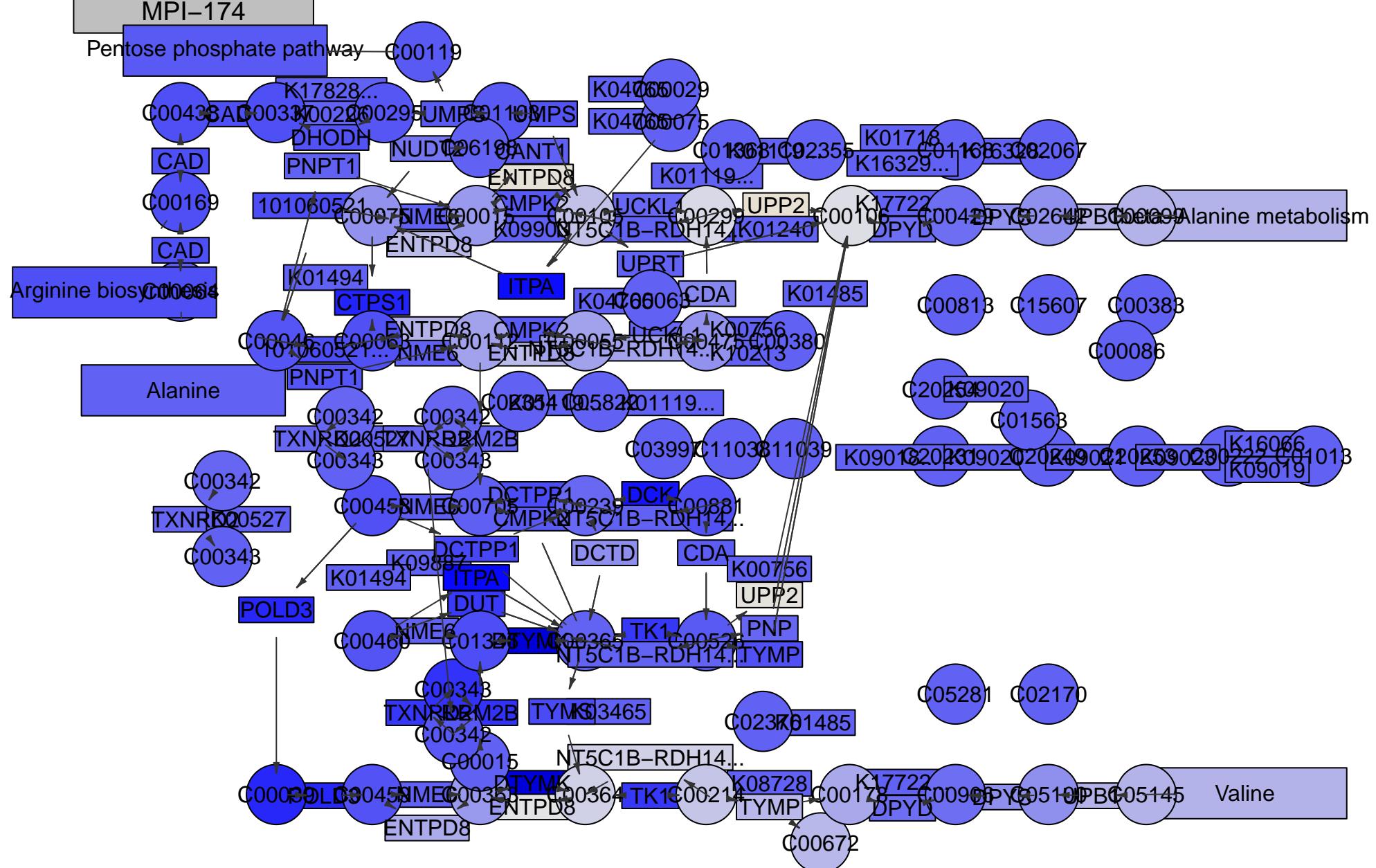
PTYMK

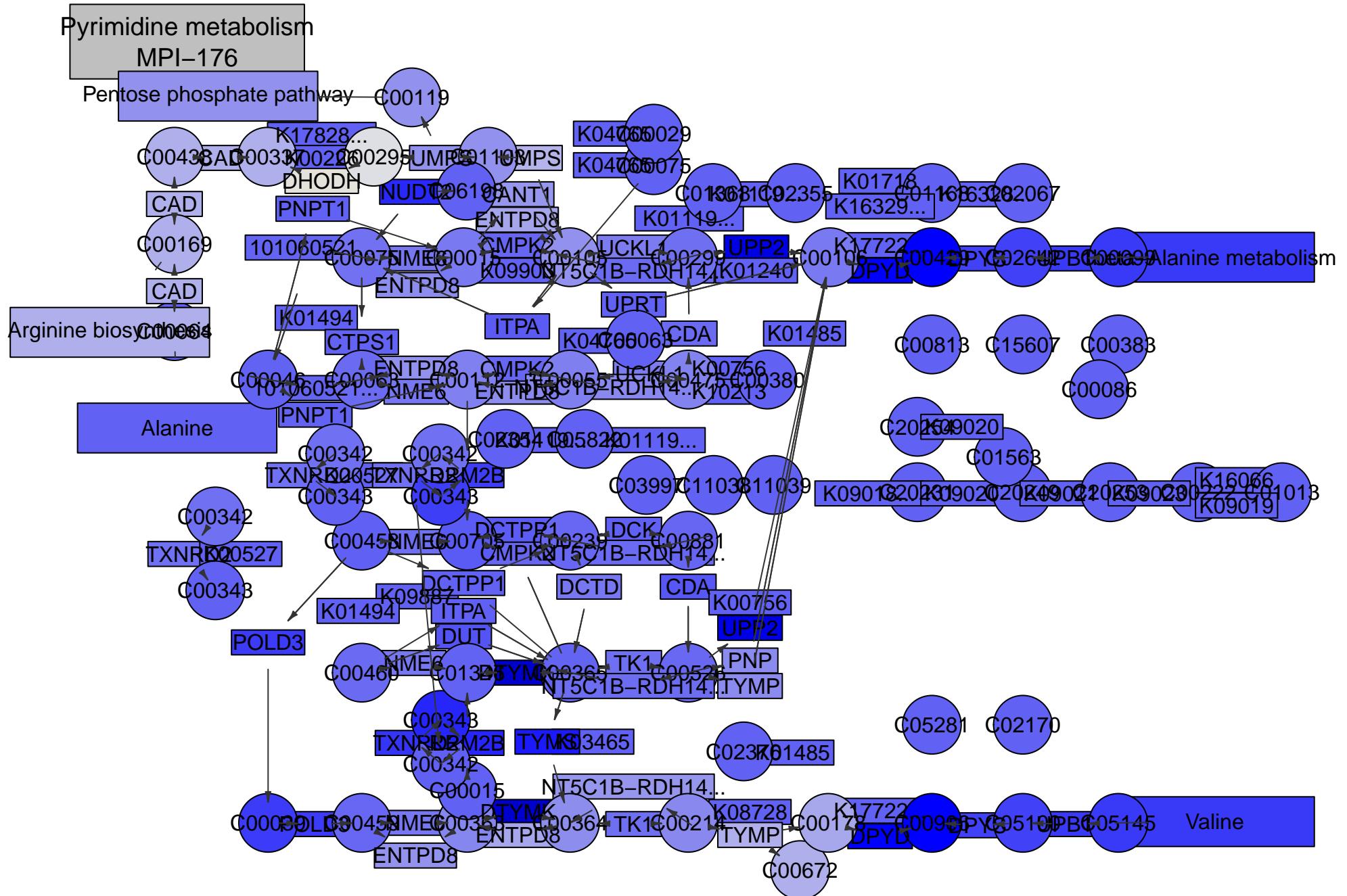
ENTPD8

C00015

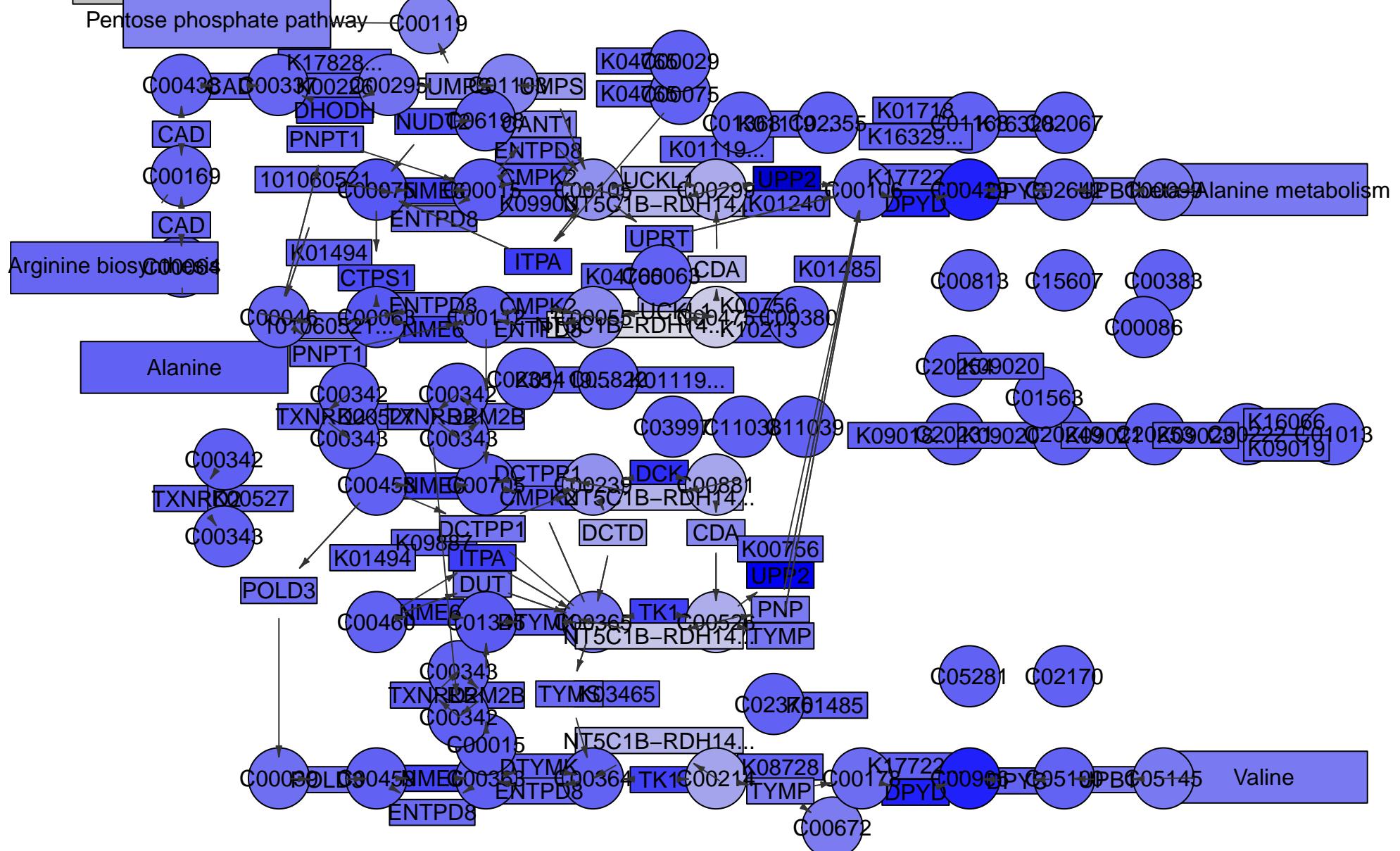
PTYMK

Pyrimidine metabolism
MPI-174

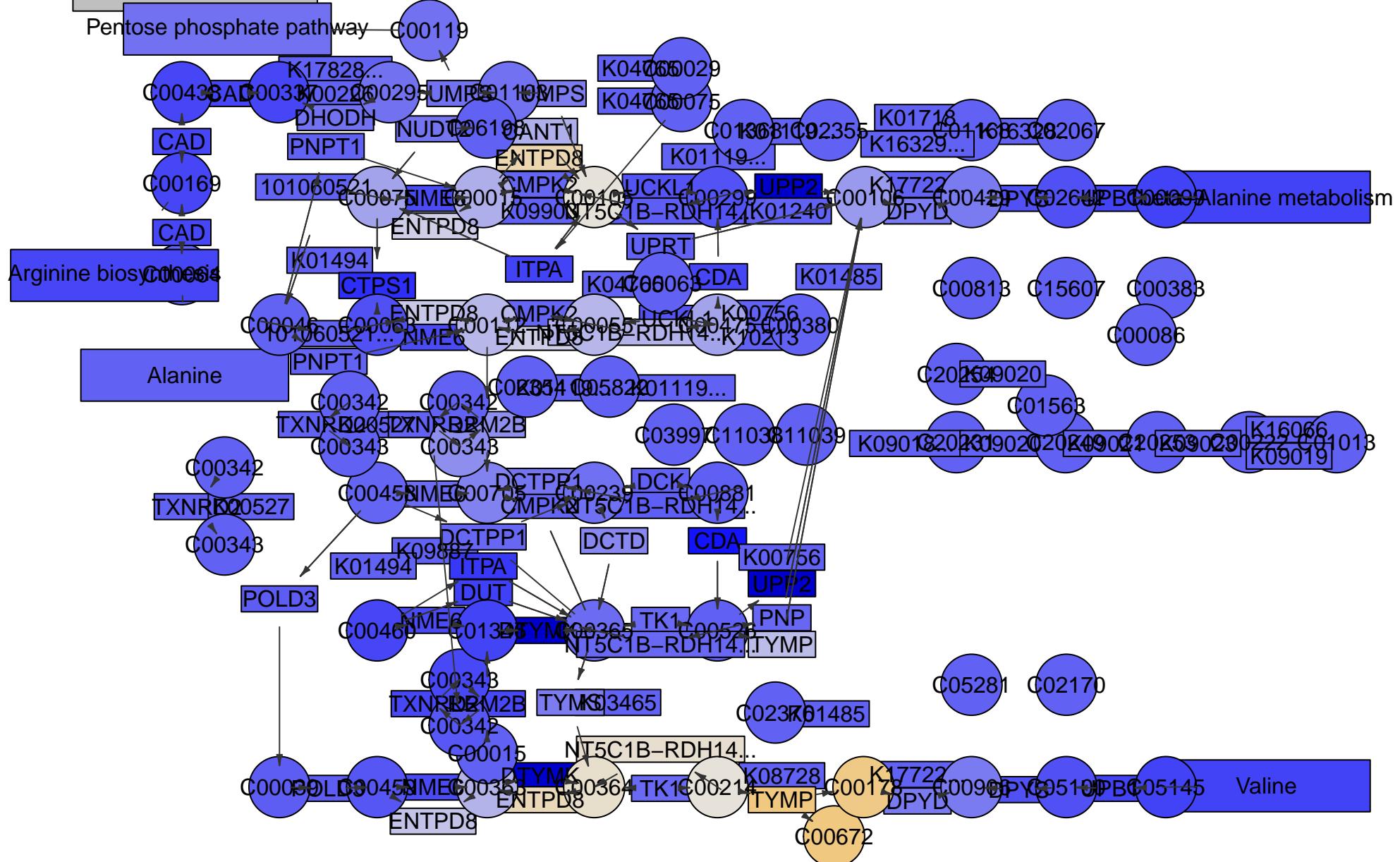


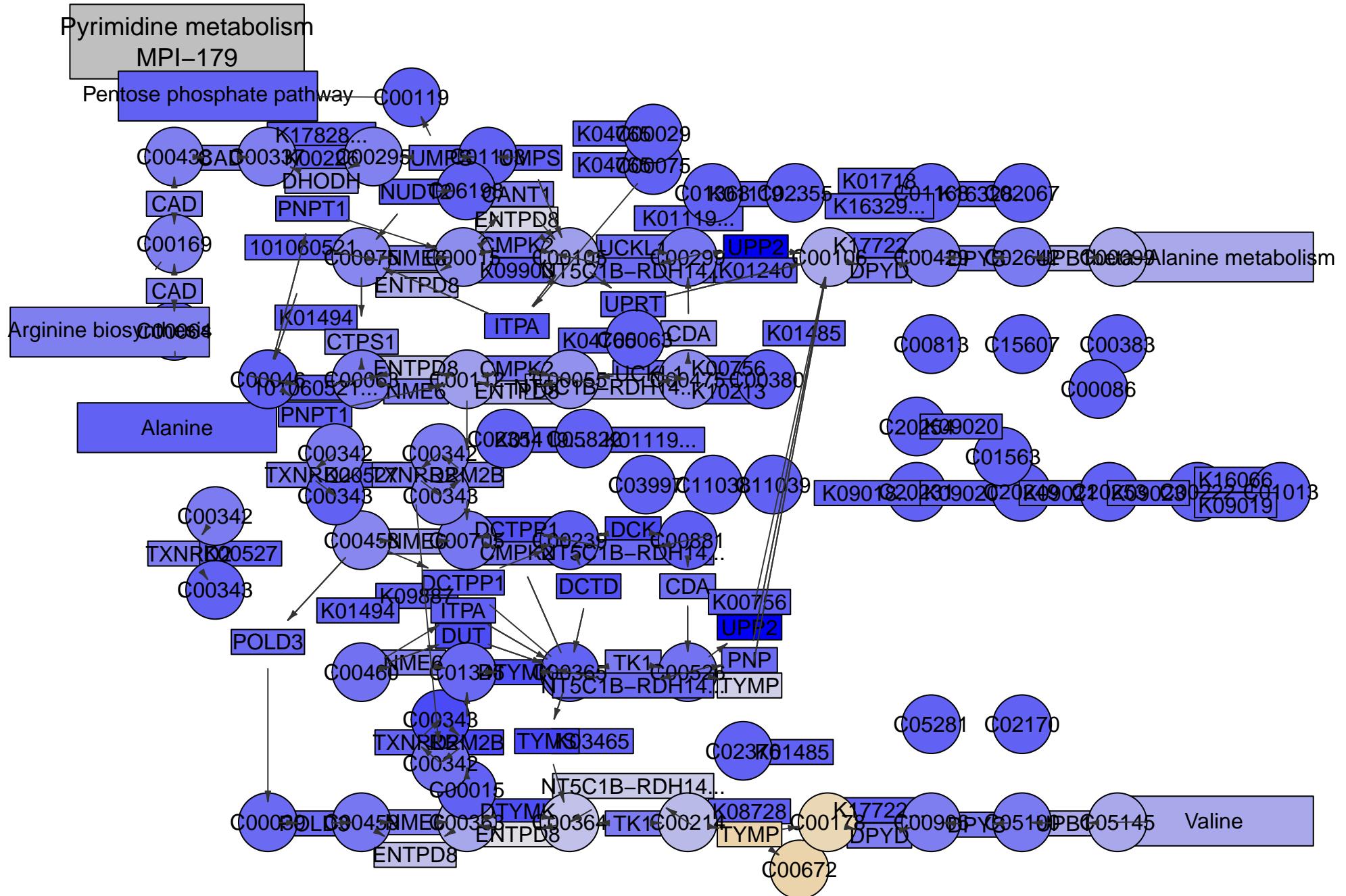


Pyrimidine metabolism
MPI-177

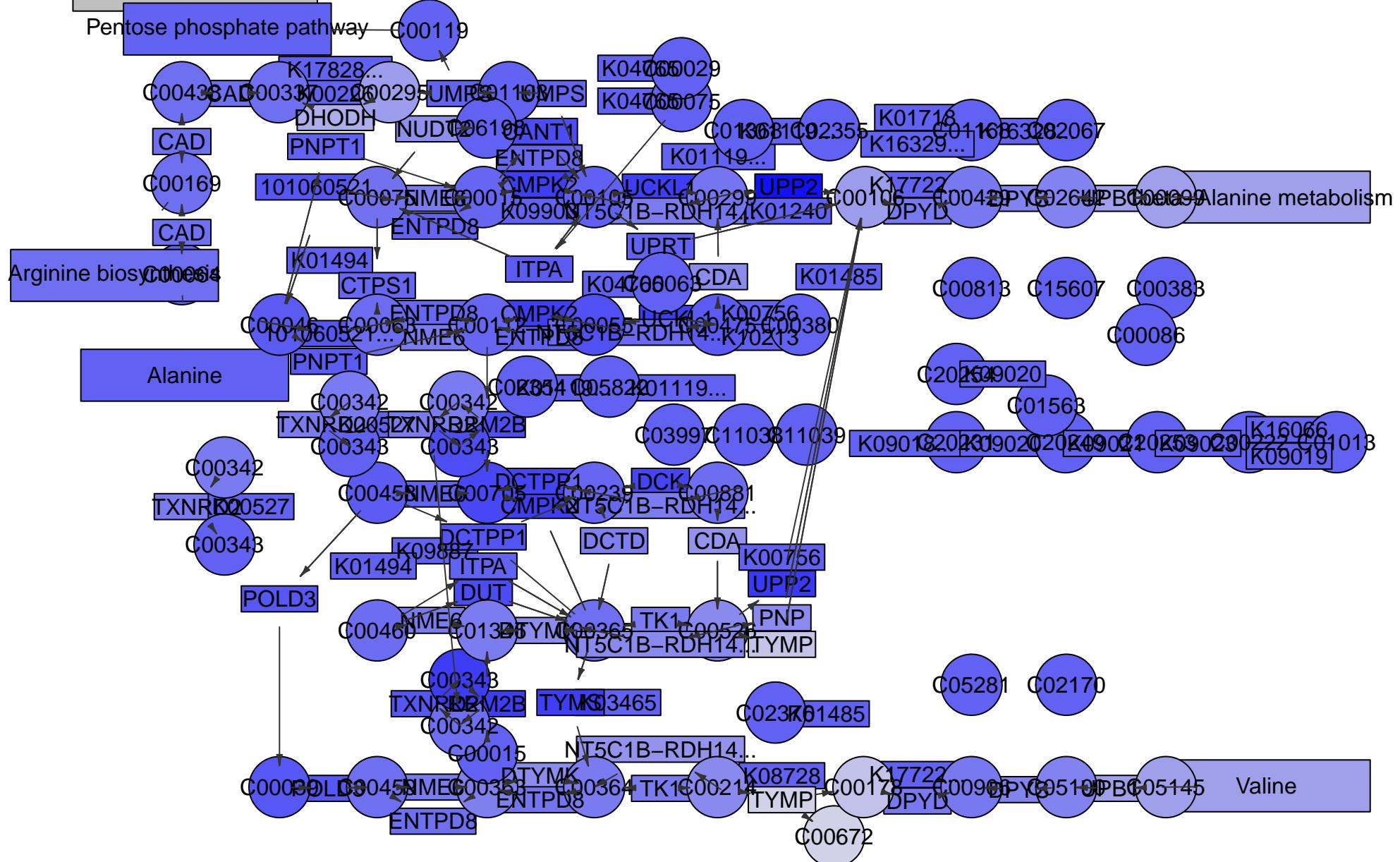


Pyrimidine metabolism
MPI-178

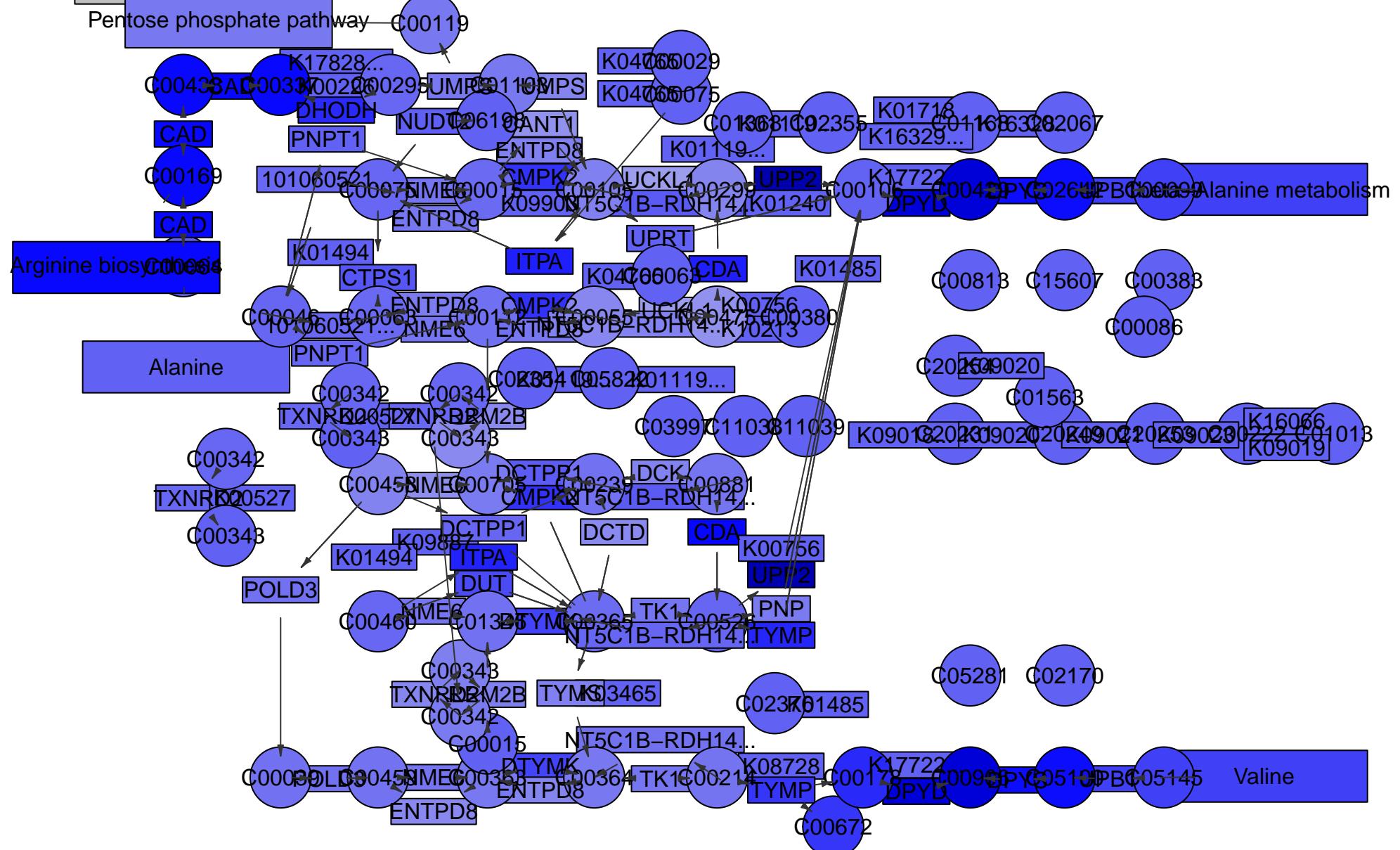




Pyrimidine metabolism
MPI-180



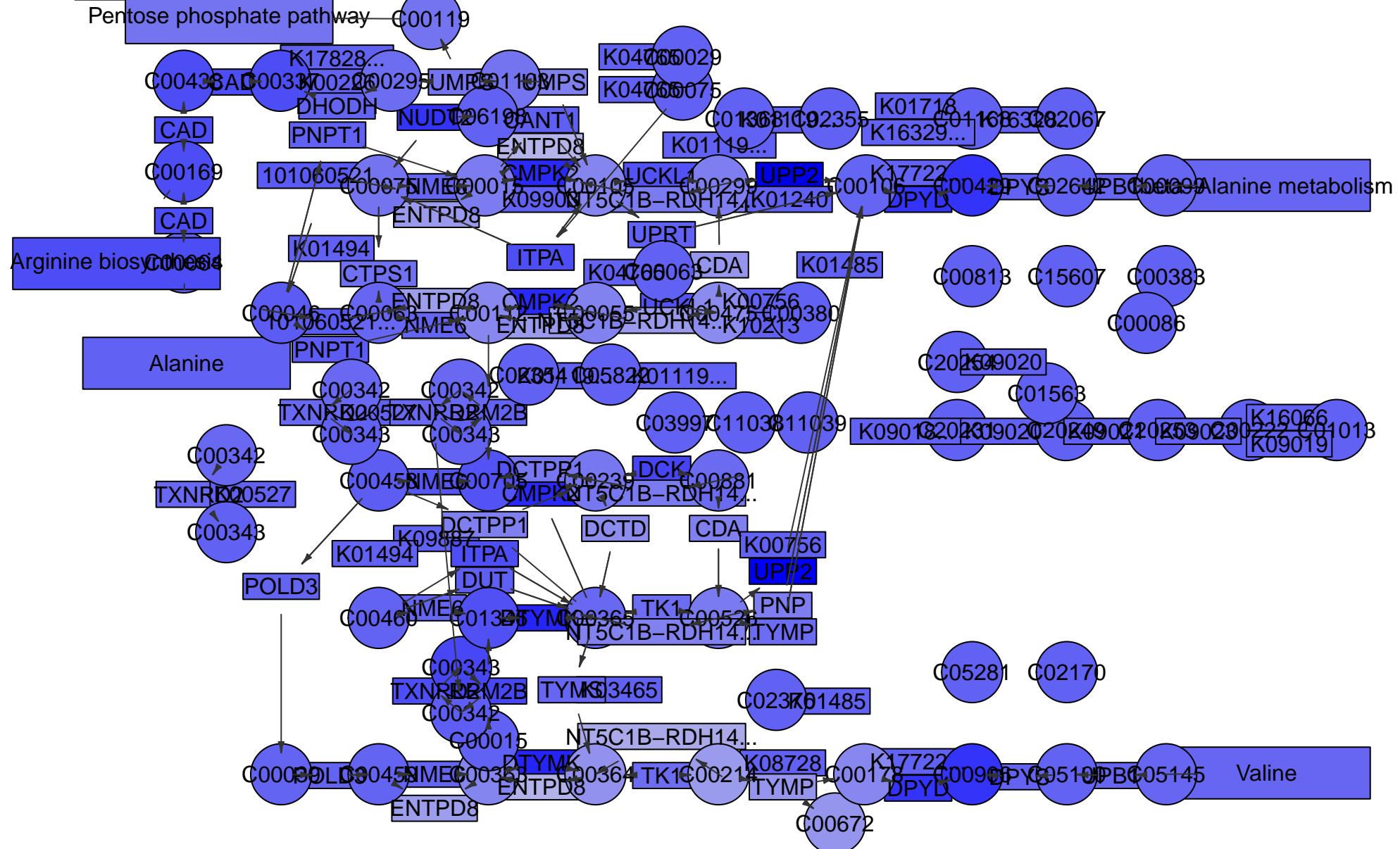
Pyrimidine metabolism
MPI-182

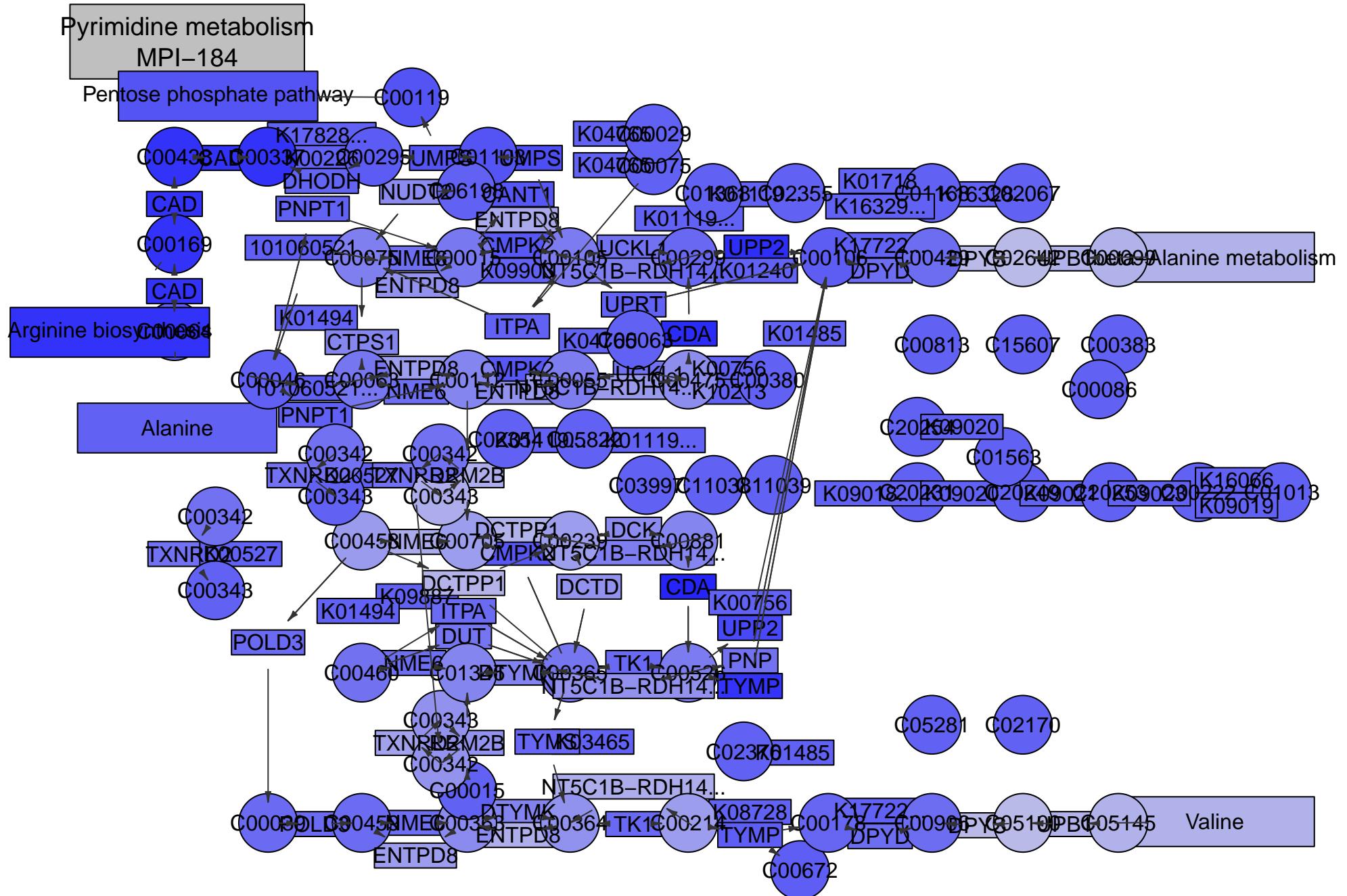


Pyrimidine metabolism

MPI-183

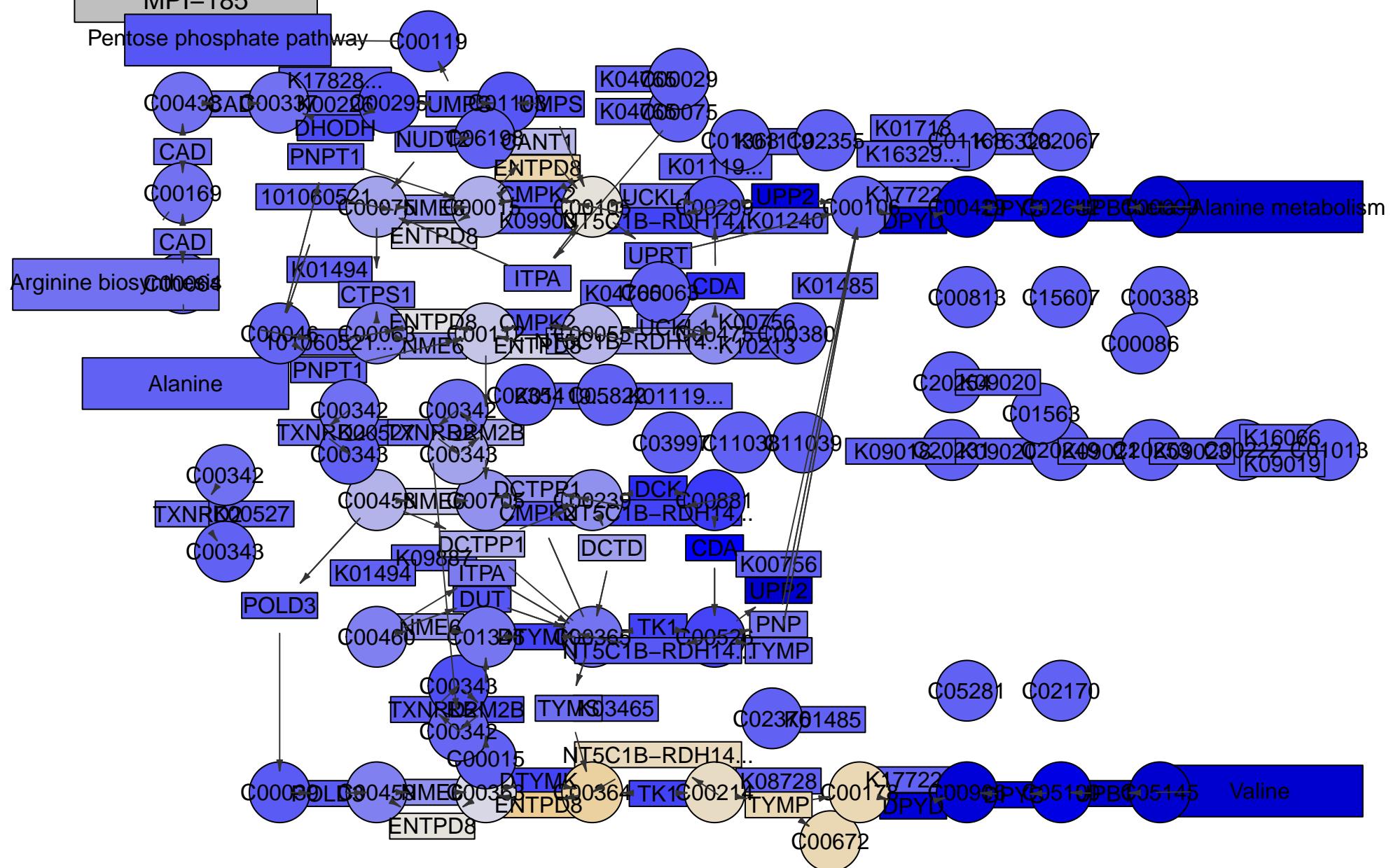
Pentose phosphate pathway C00119





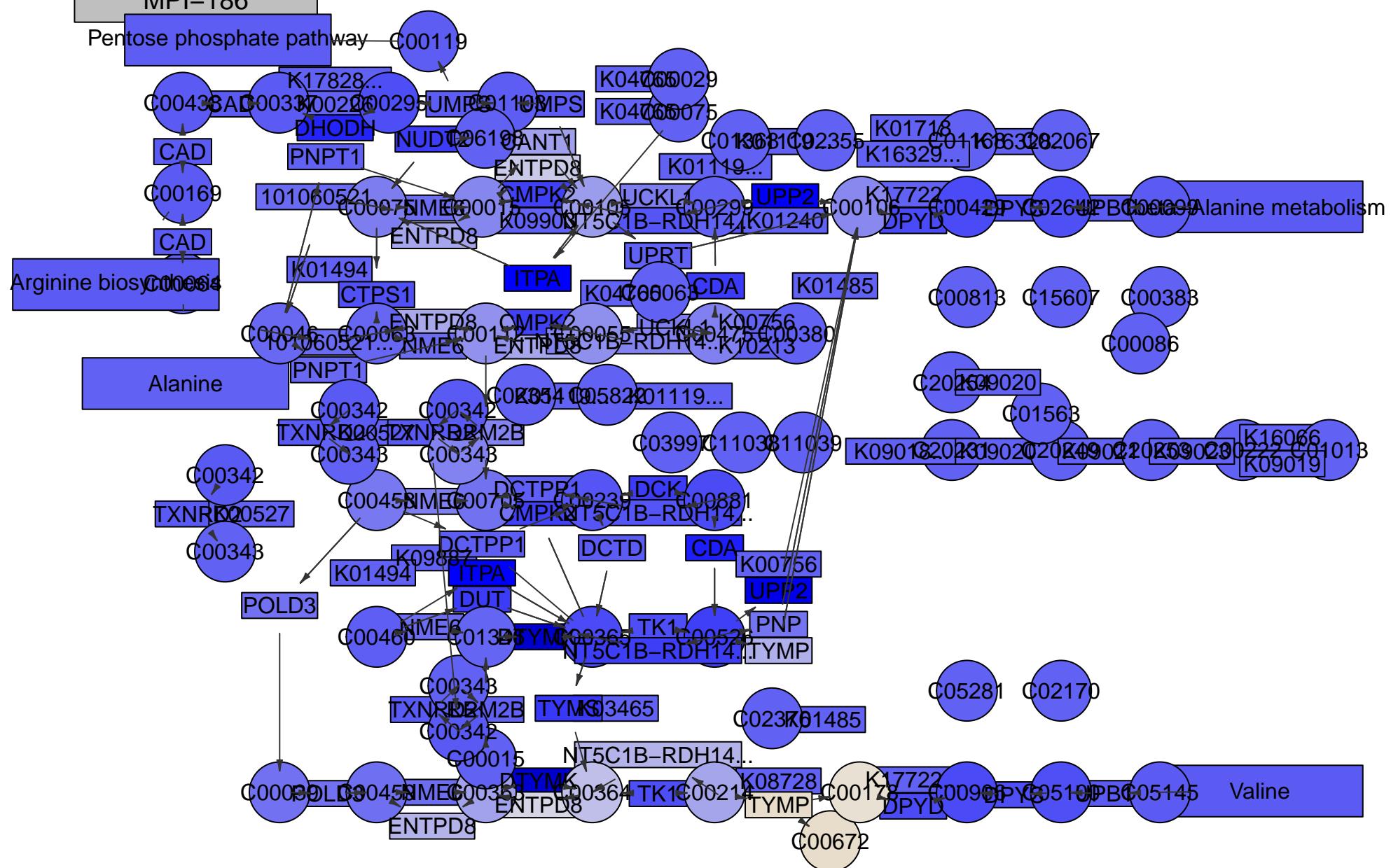
Pyrimidine metabolism

MPI-185



Pyrimidine metabolism

MPI-186



Pyrimidine metabolism
MPI-188

Pentose phosphate pathway

C00119

K17828...
C00438...
C00330...
C00220...
C00295...
UMP...
C01103...
MPS...

DHODH

NUDTC06105...

CANT1

ENTPD8

CMPK2

UCLK1

C00106...

K0990N15C1B-RDH14...

K01240

UPP2

K17722

C00429...

DPYD

C00429...

C02604...

C00620...

Alanine metabolism

Arginine biosy

C00064...

K01494

CTPS1

ENTPD8

NME6

CMPK2

ENTPD8

UCLK1

K00175...

K00175...

K00380

K00756

K01485

C00813

C15607

C00383

C00086

C20150...

C01563

K16066

K09019...

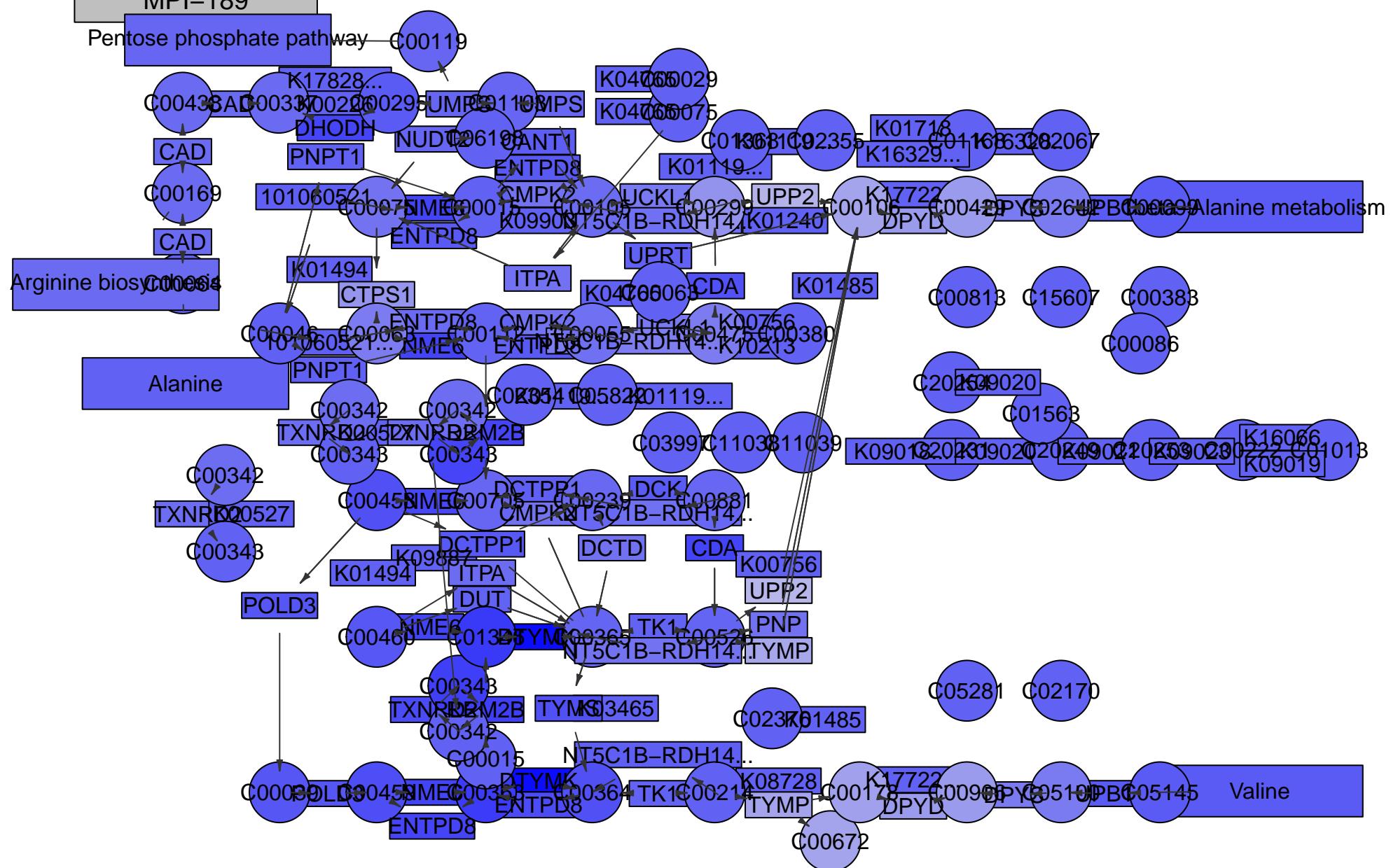
K16066...

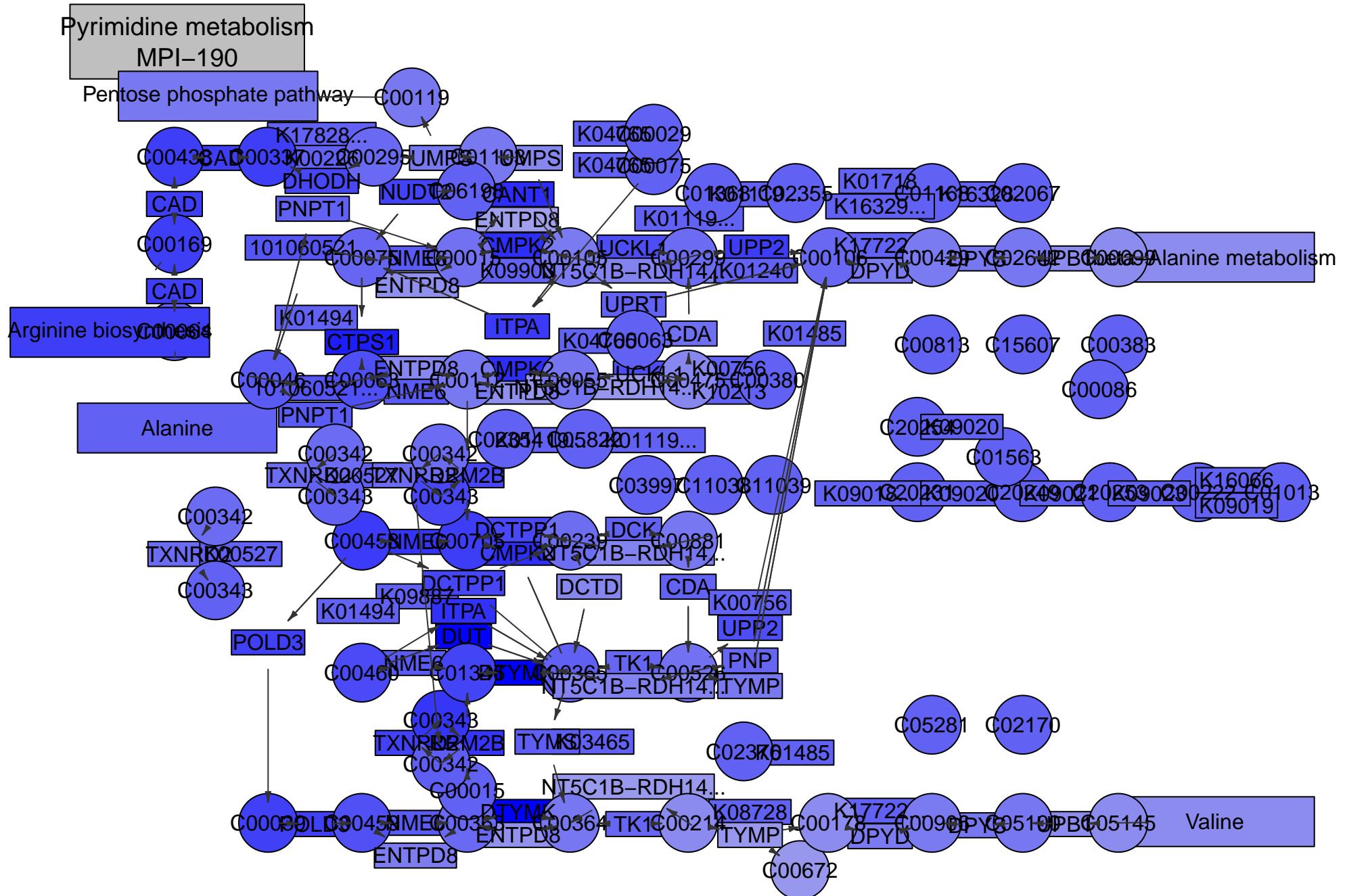
K09019...

C00086...

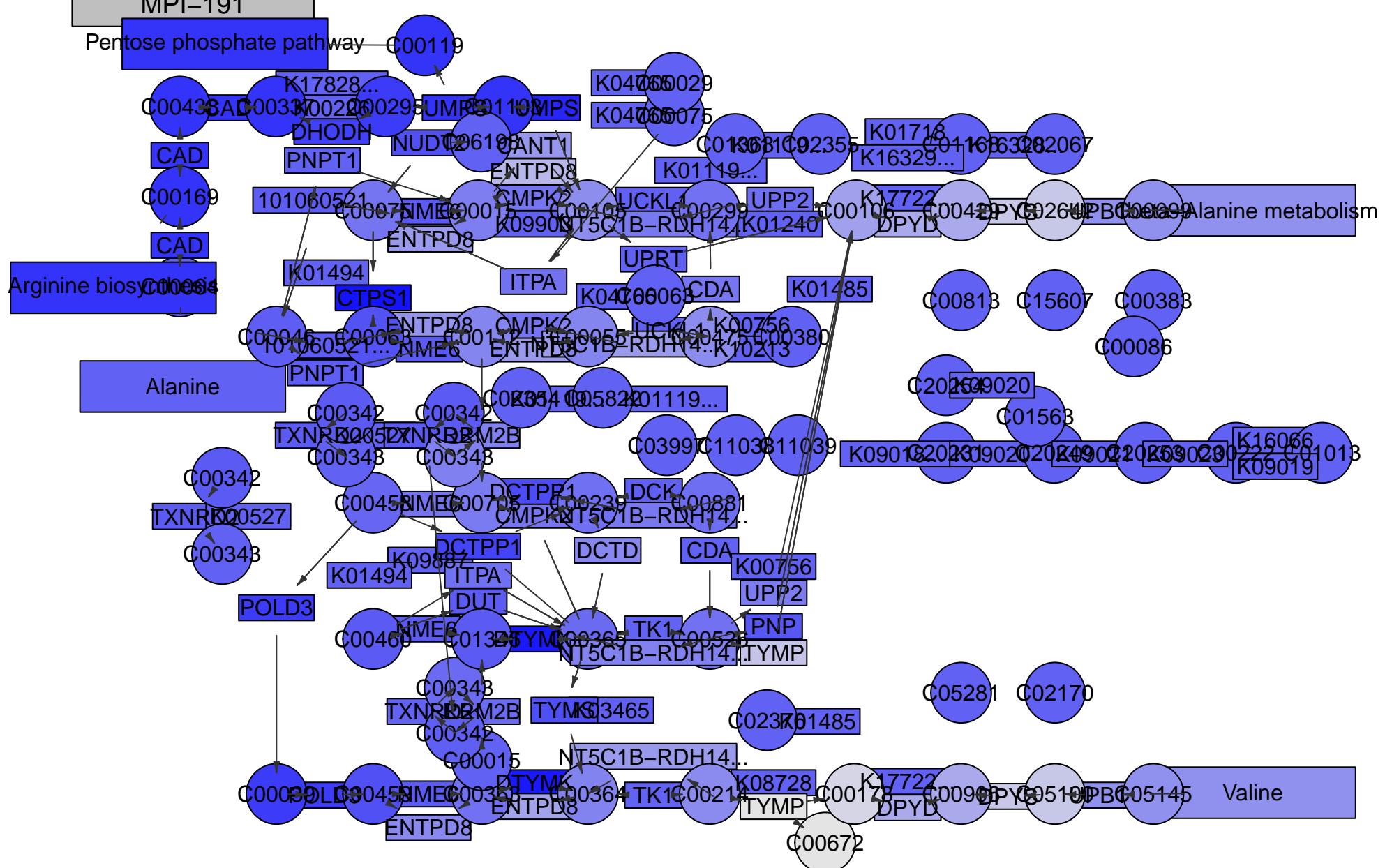
Pyrimidine metabolism

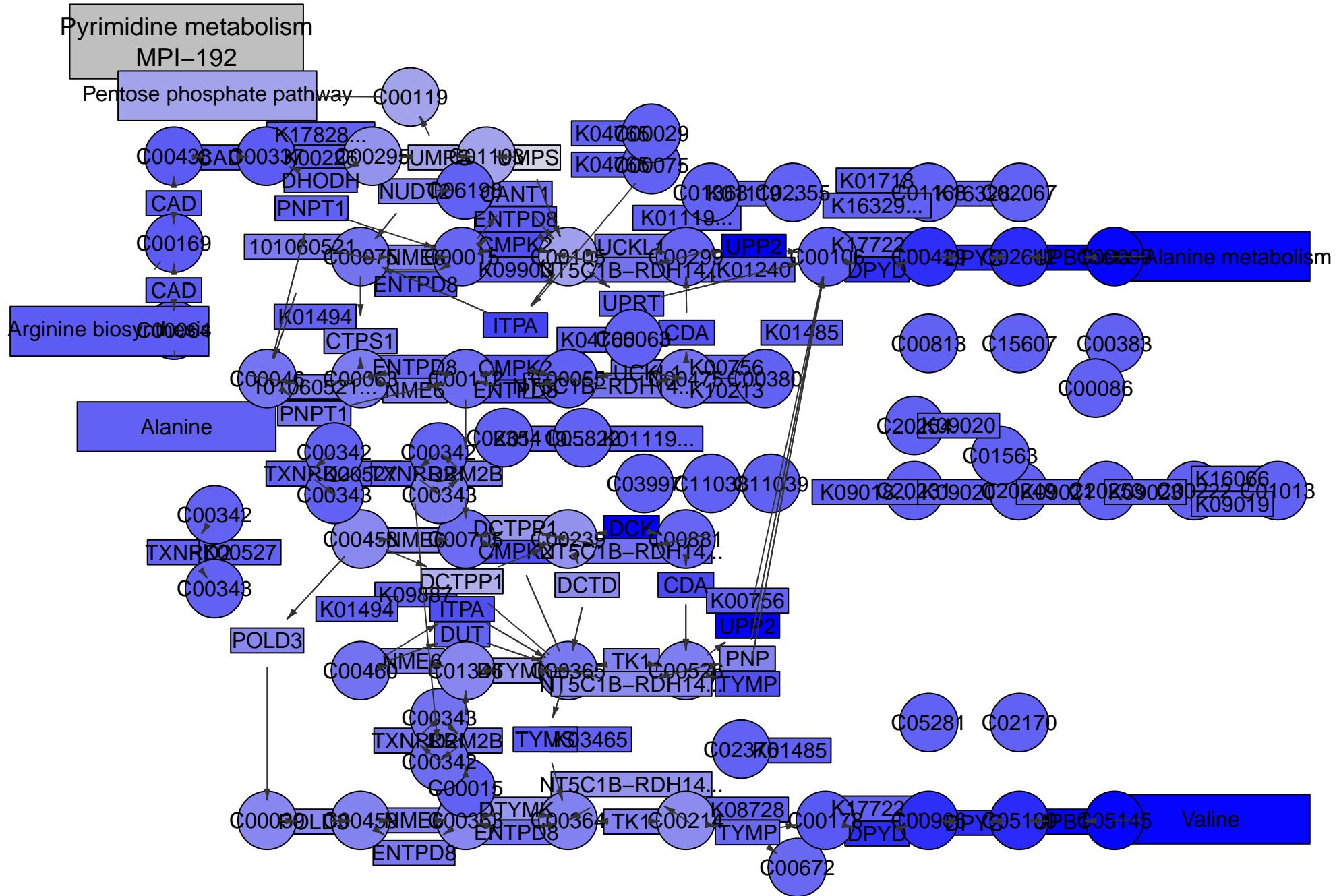
MPI-189

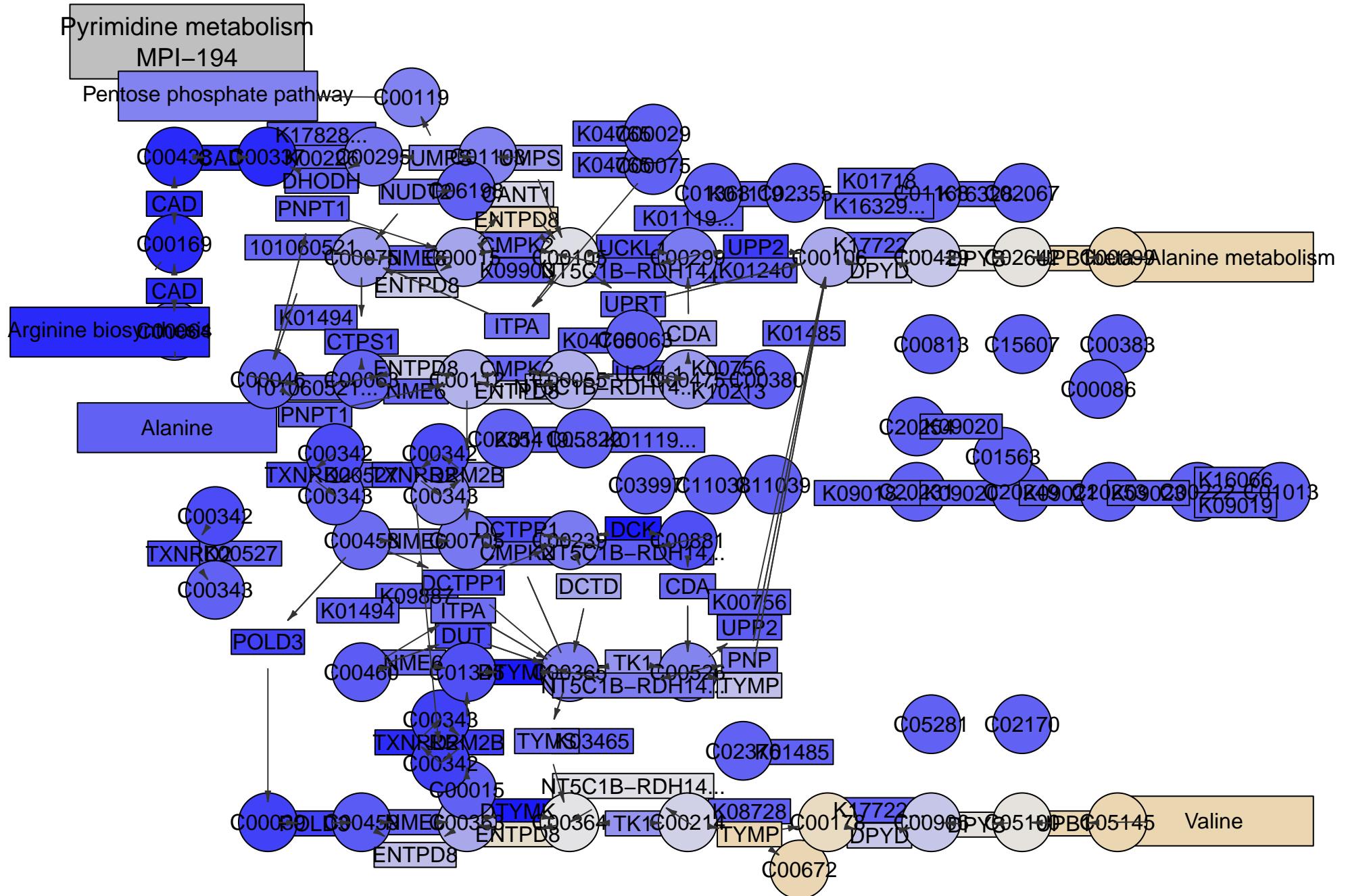




Pyrimidine metabolism
MPI-191

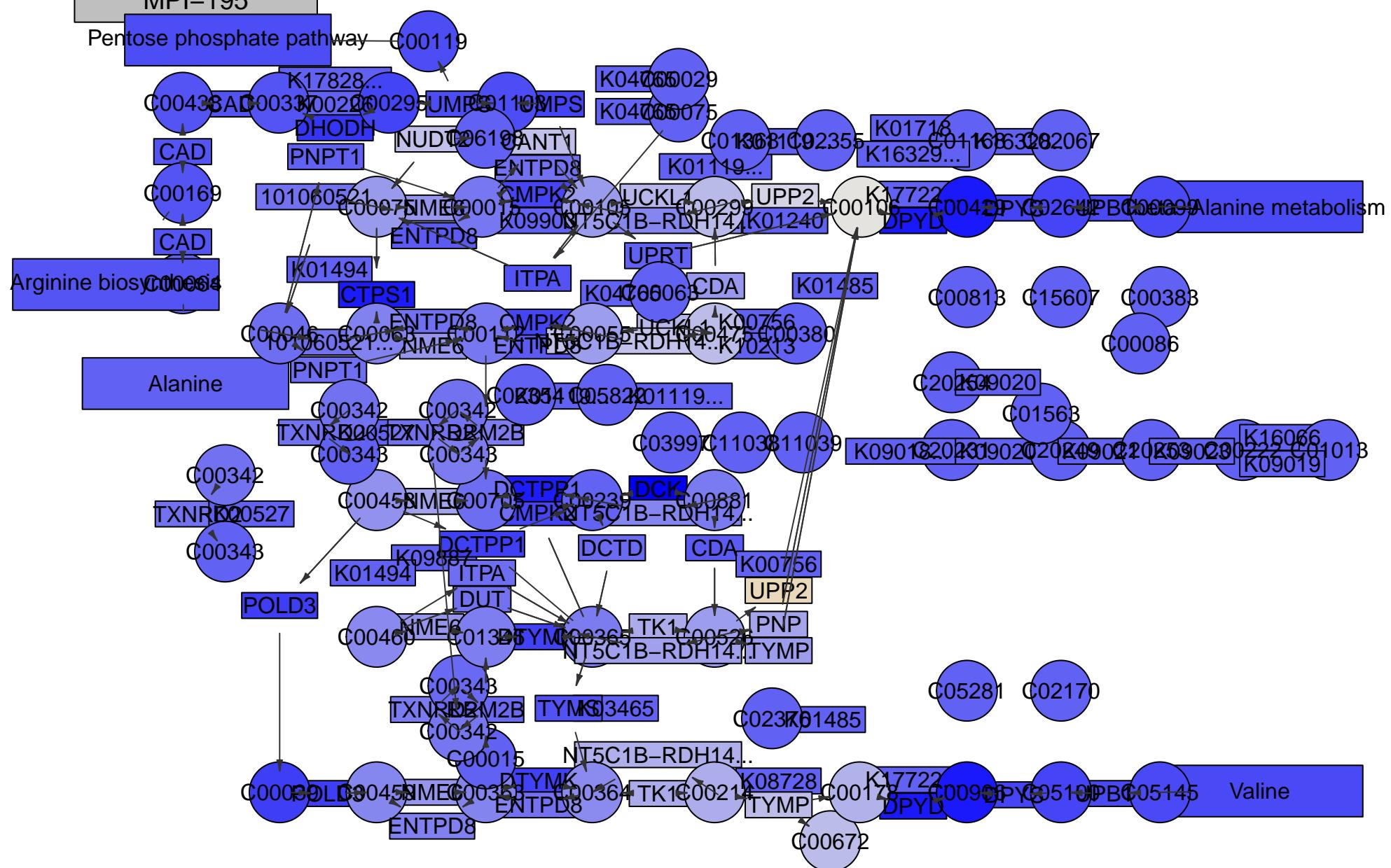


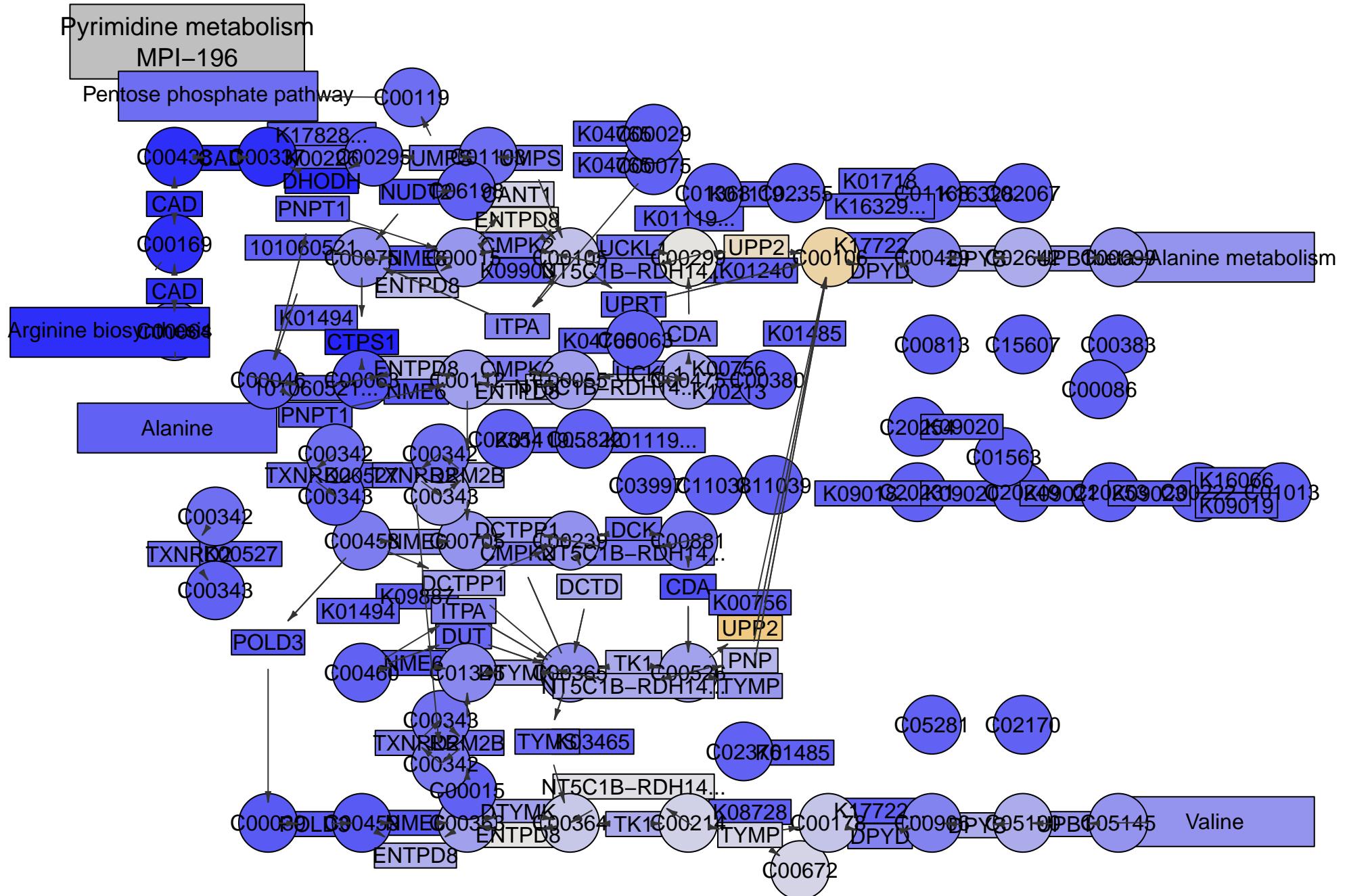


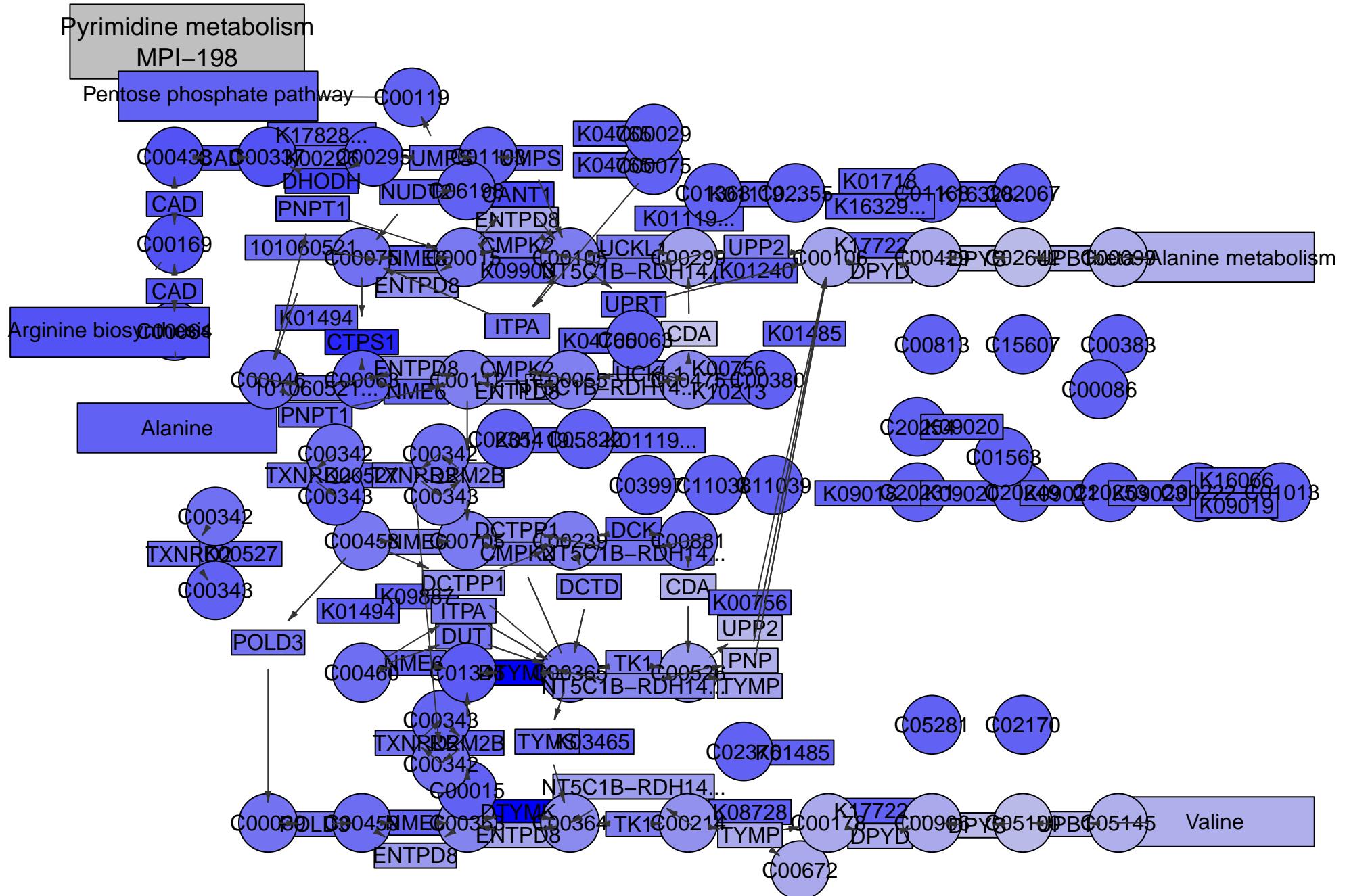


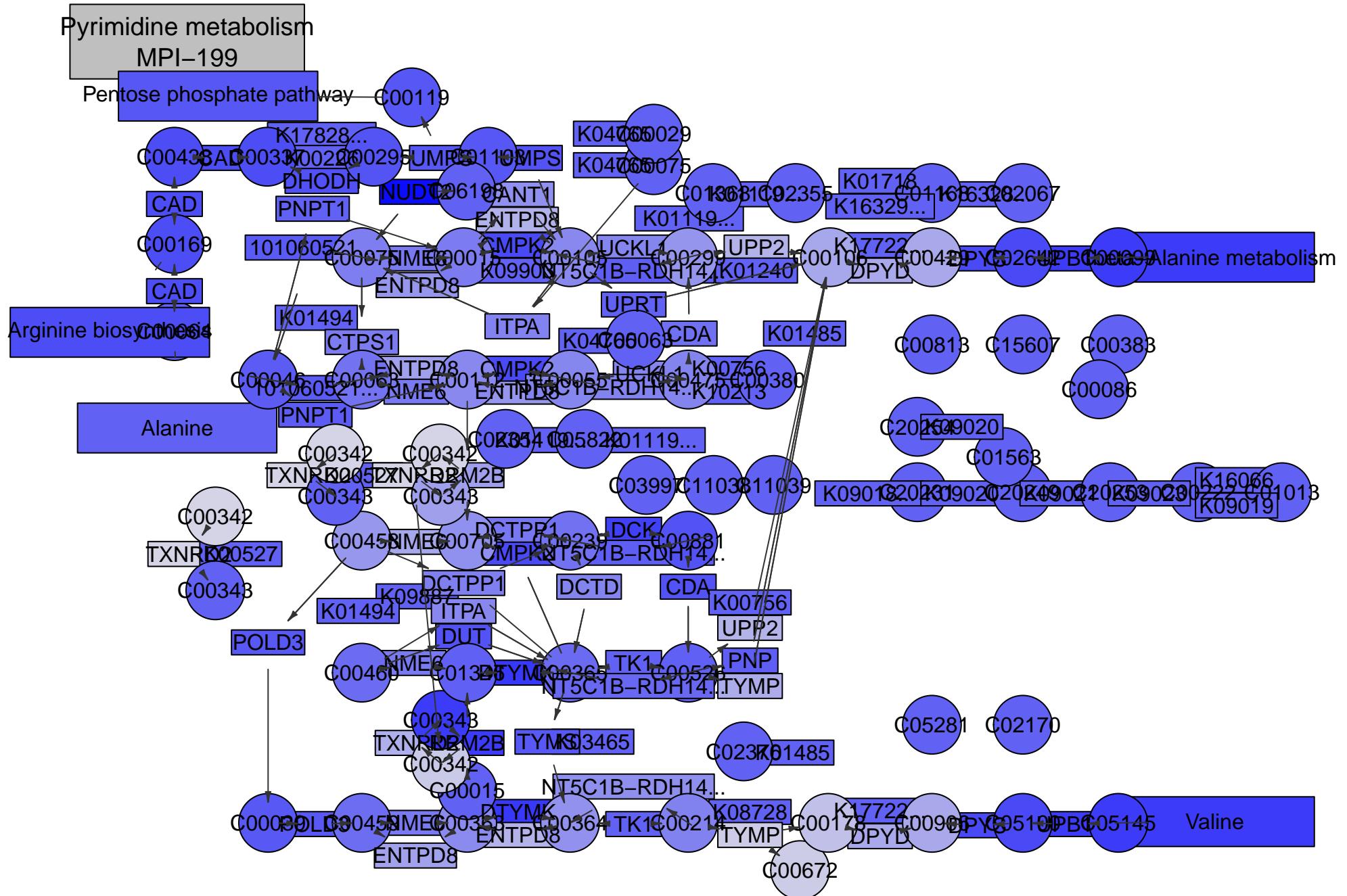
Pyrimidine metabolism

MPI-195

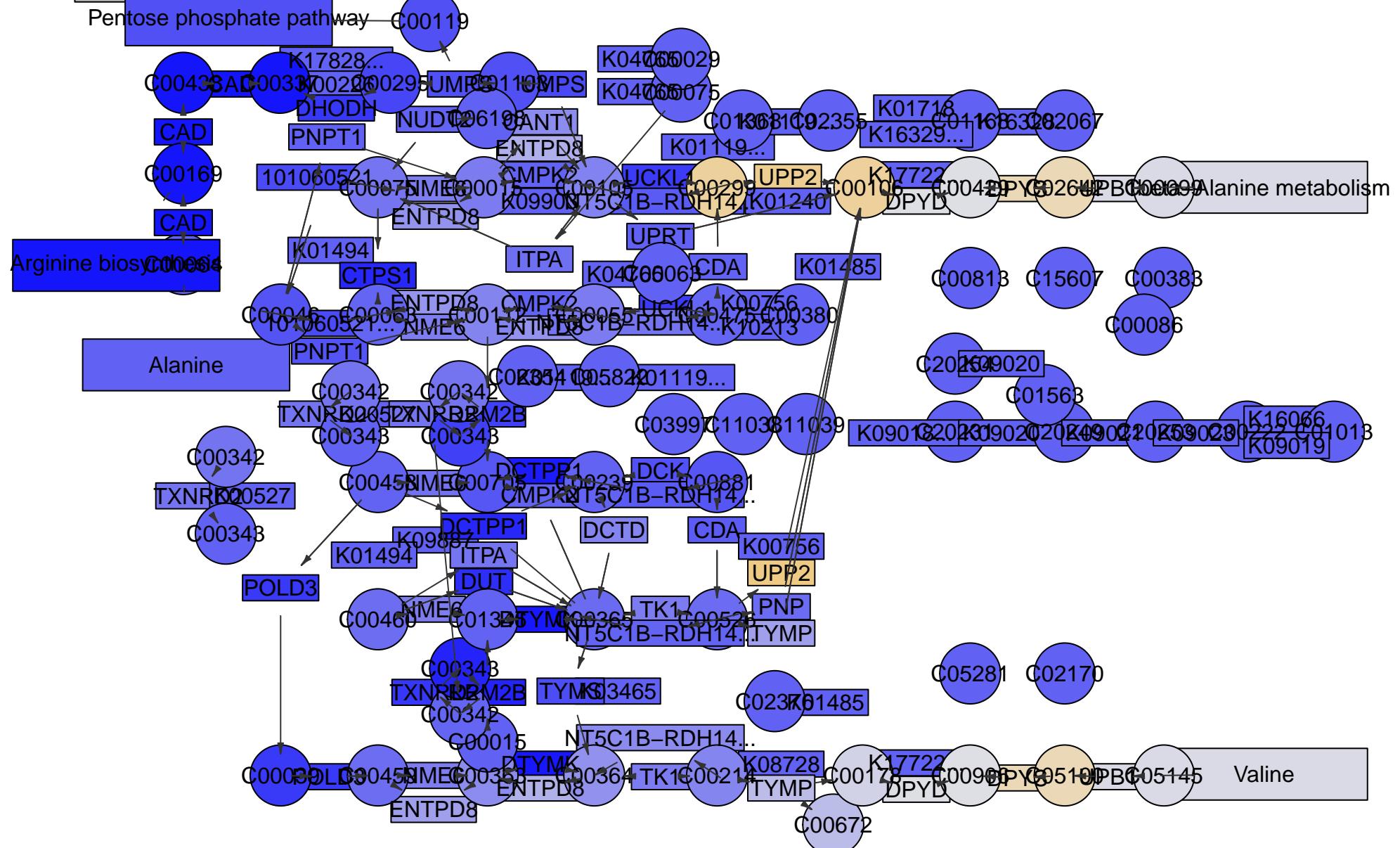








Pyrimidine metabolism
MPI-200



Pyrimidine metabolism
MPI-201

Pentose phosphate pathway

C00119

K17828...
C00438...
C00330...
C00220...
C00295...
UMP...
C01103...
MPS...

DHODH

NUDT26105...

CANT1

ENTPD8

CMPK2

UCKL1

C00106...

K0990N15C1B-RDH14...

K01240

UPP2

K00106...

K17722

DPYD

C00429...

C00260...

C00620...

Alanine metabolism

Arginine biosy

C00064...

K01494

CTPS1

ENTPD8

NME6

C00045...

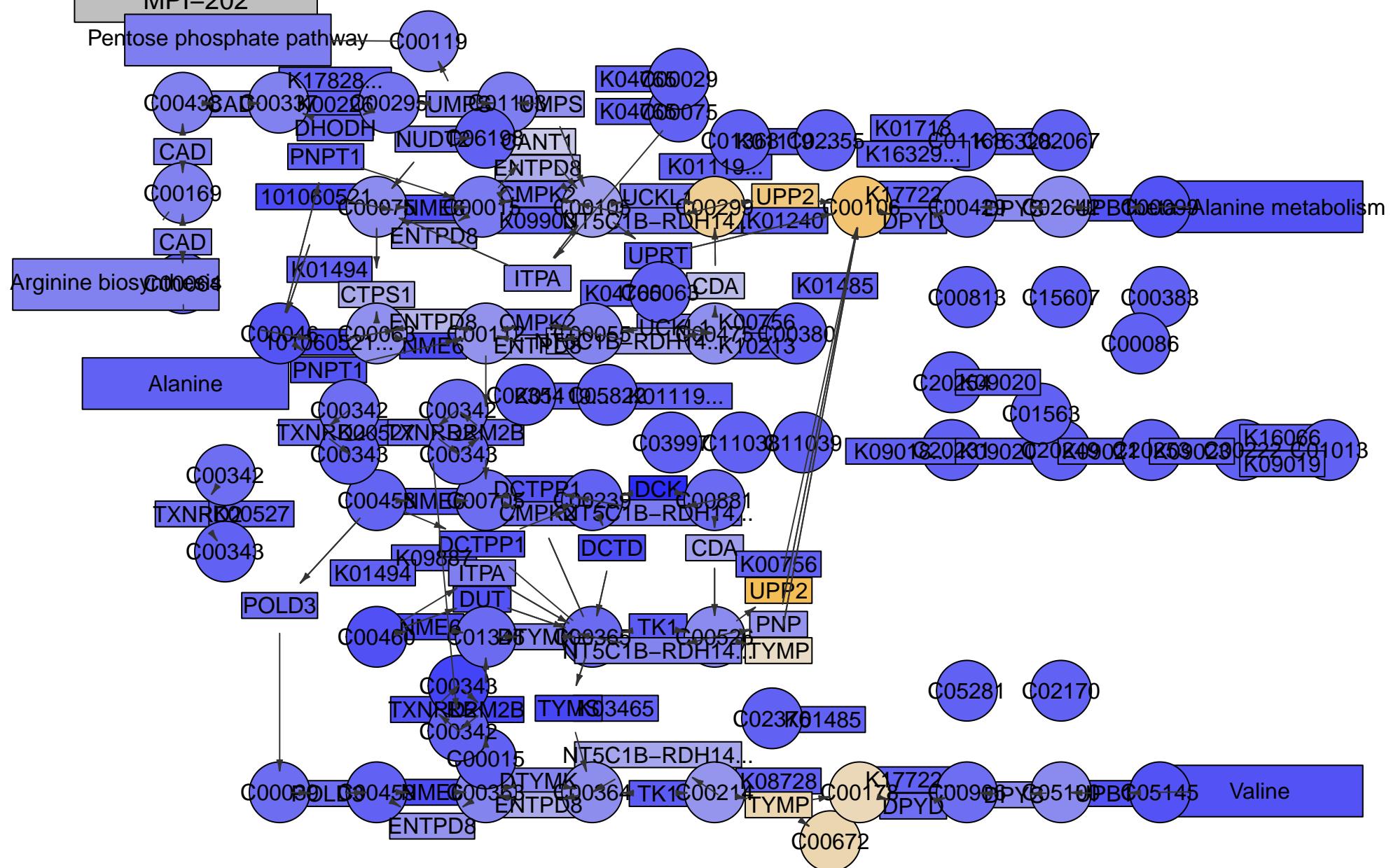
C00063...

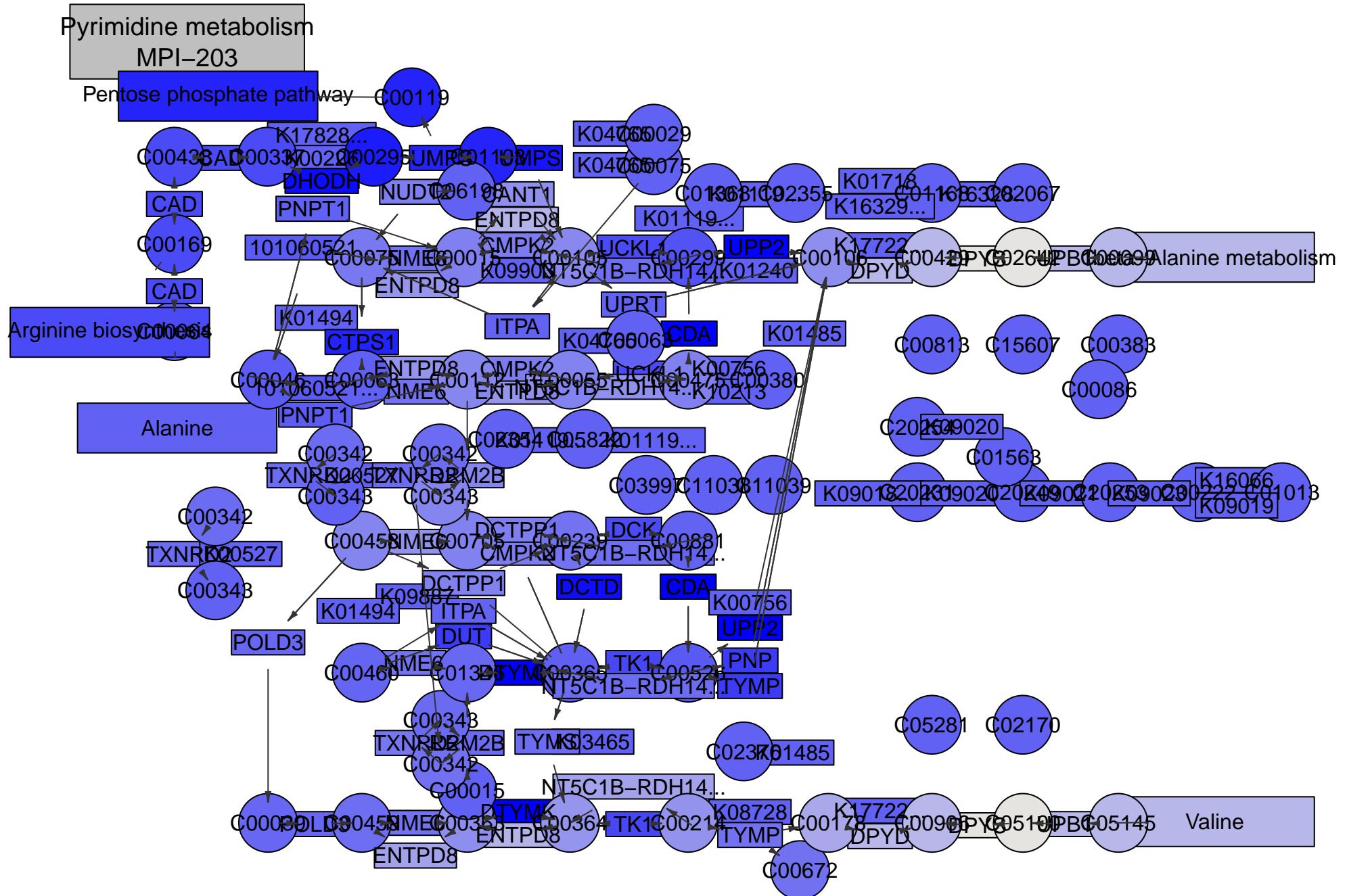
C00101...

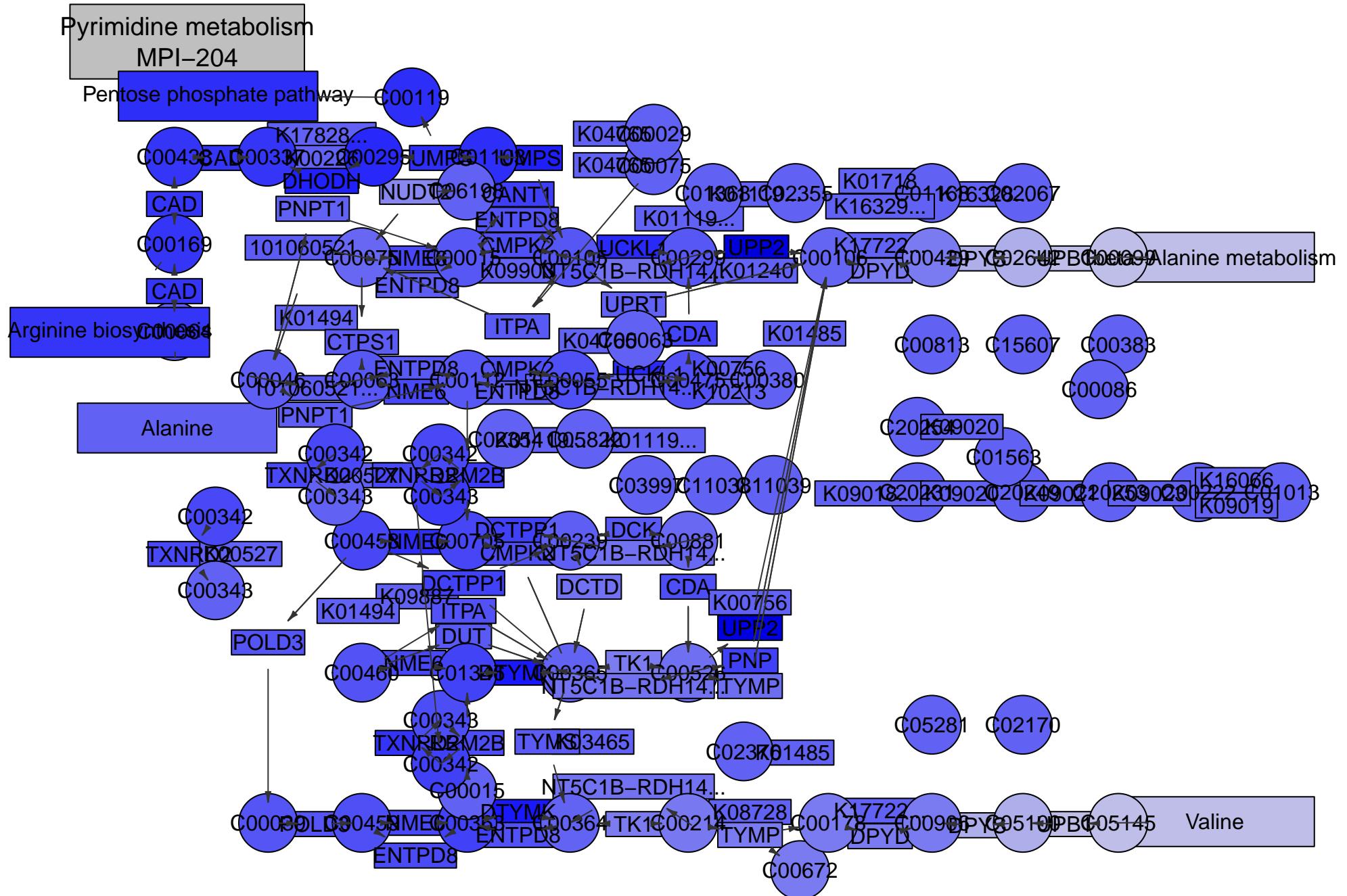
ENTPD8

Pyrimidine metabolism

MPI-202

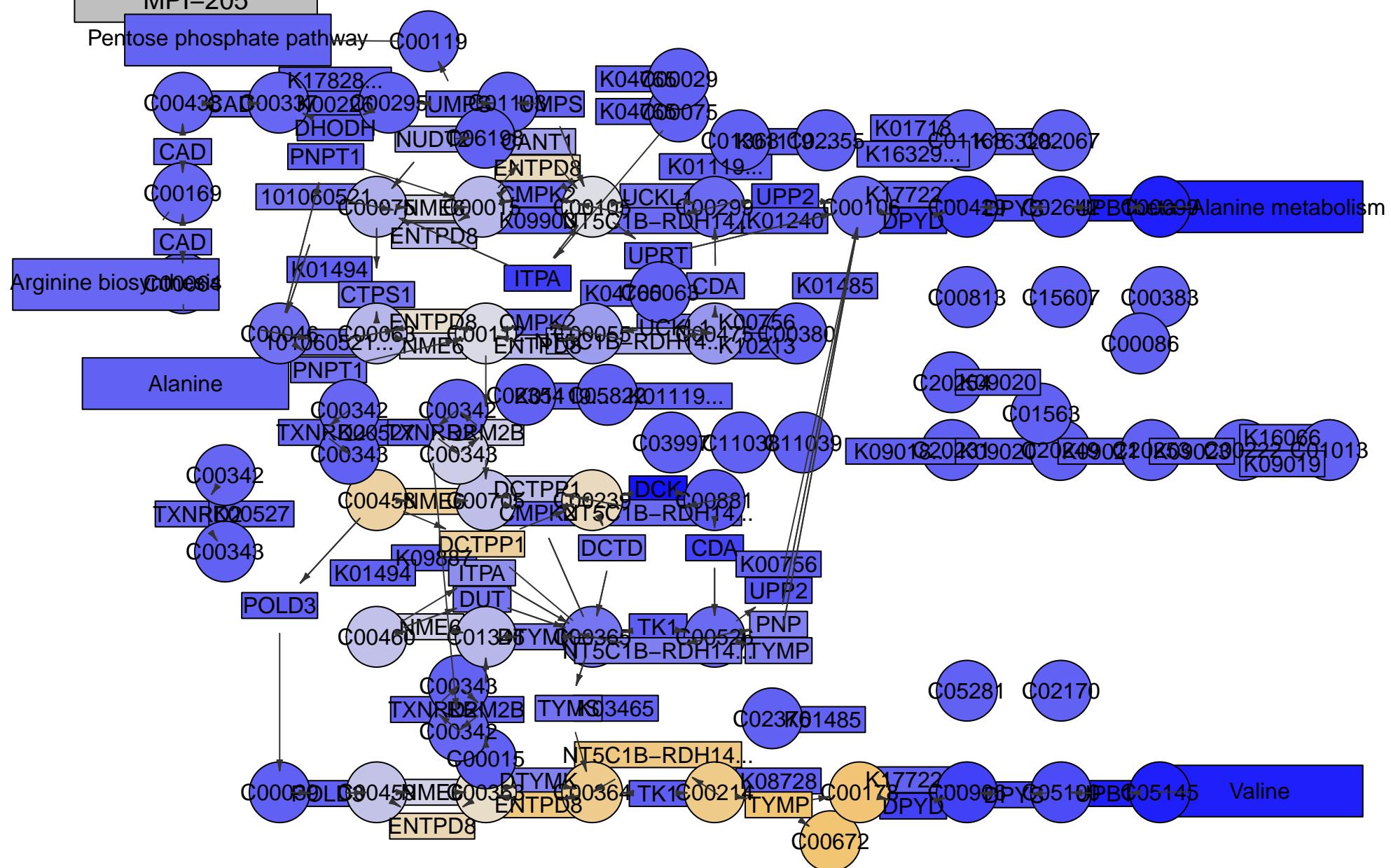


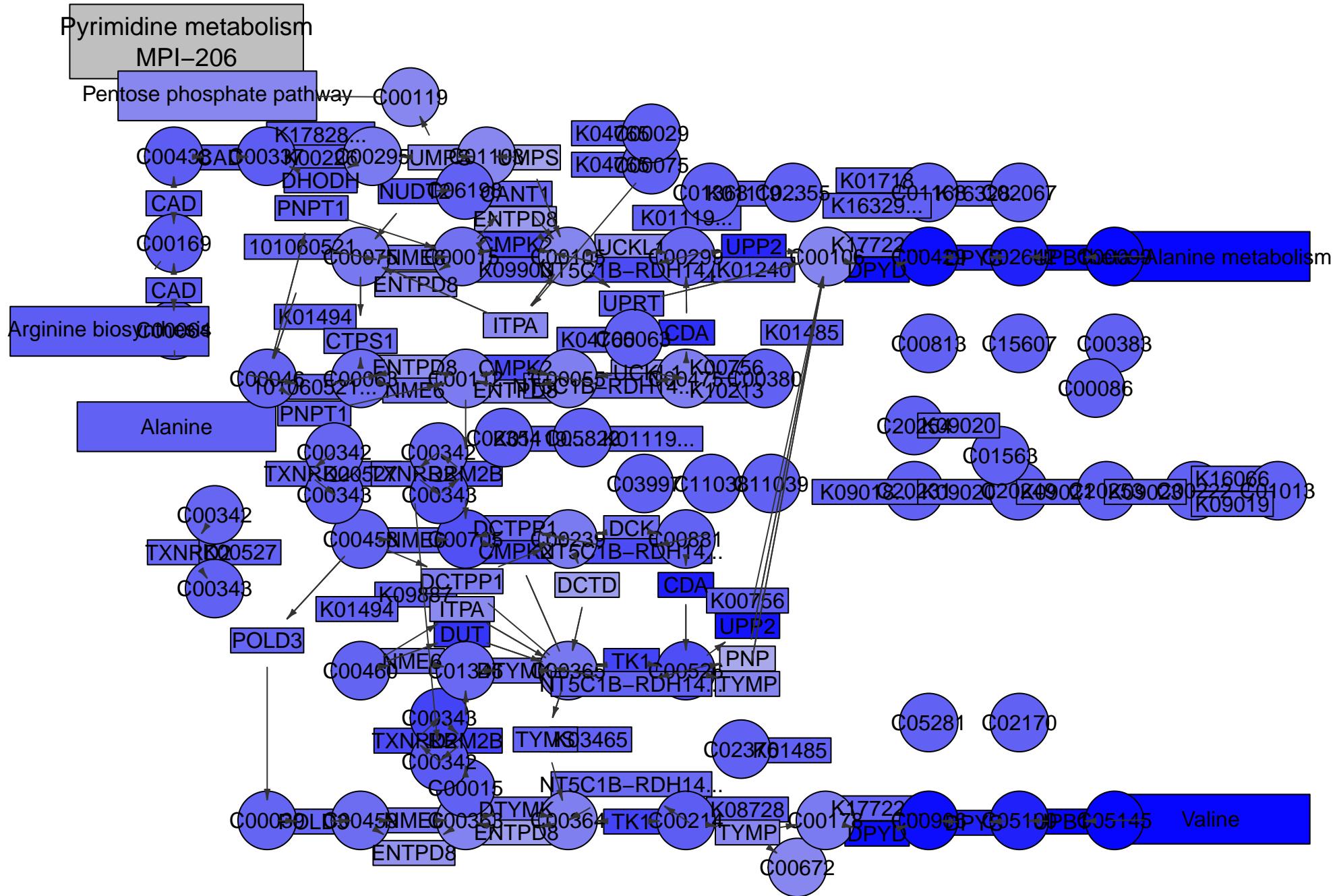




Pyrimidine metabolism

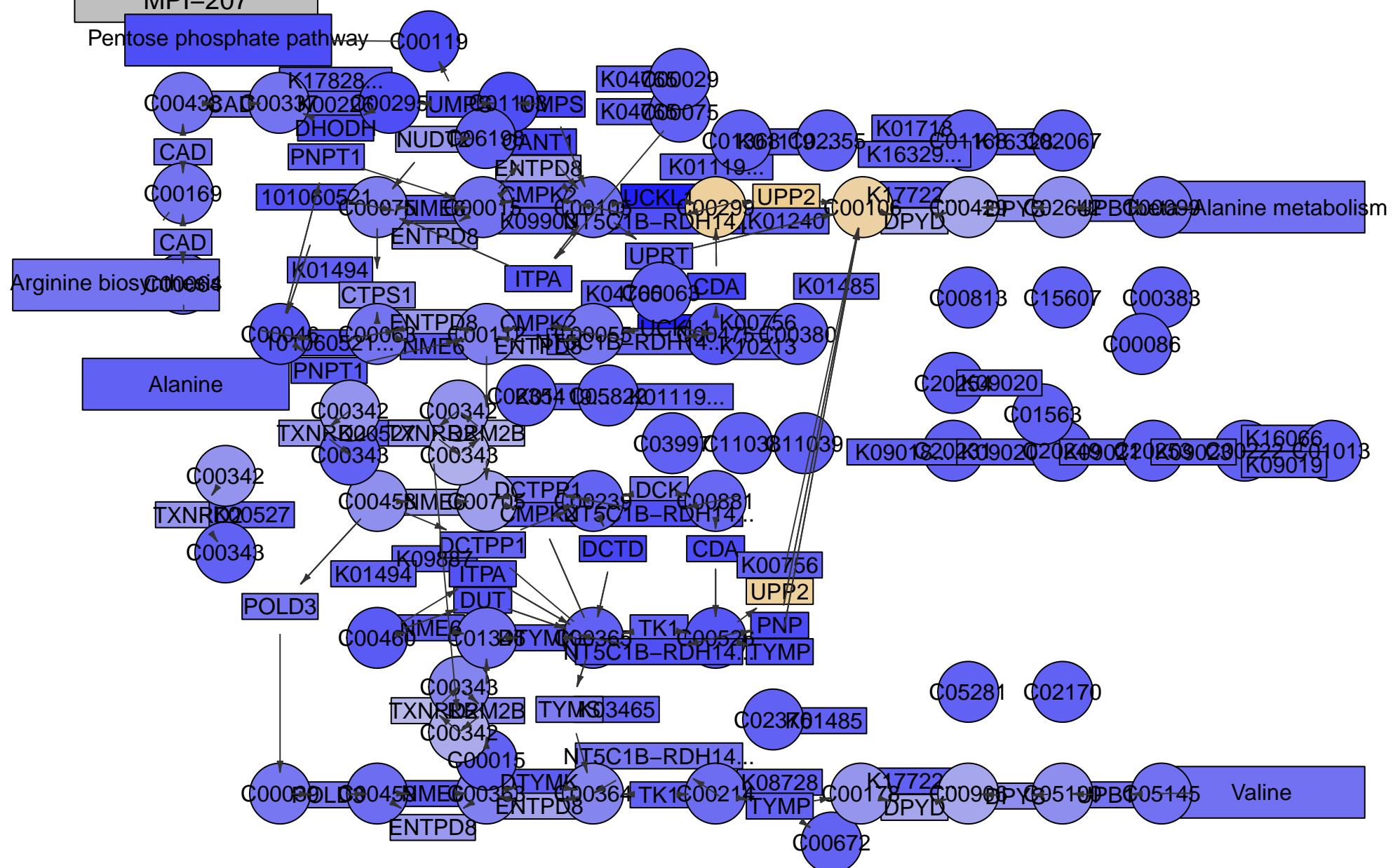
MPI-205



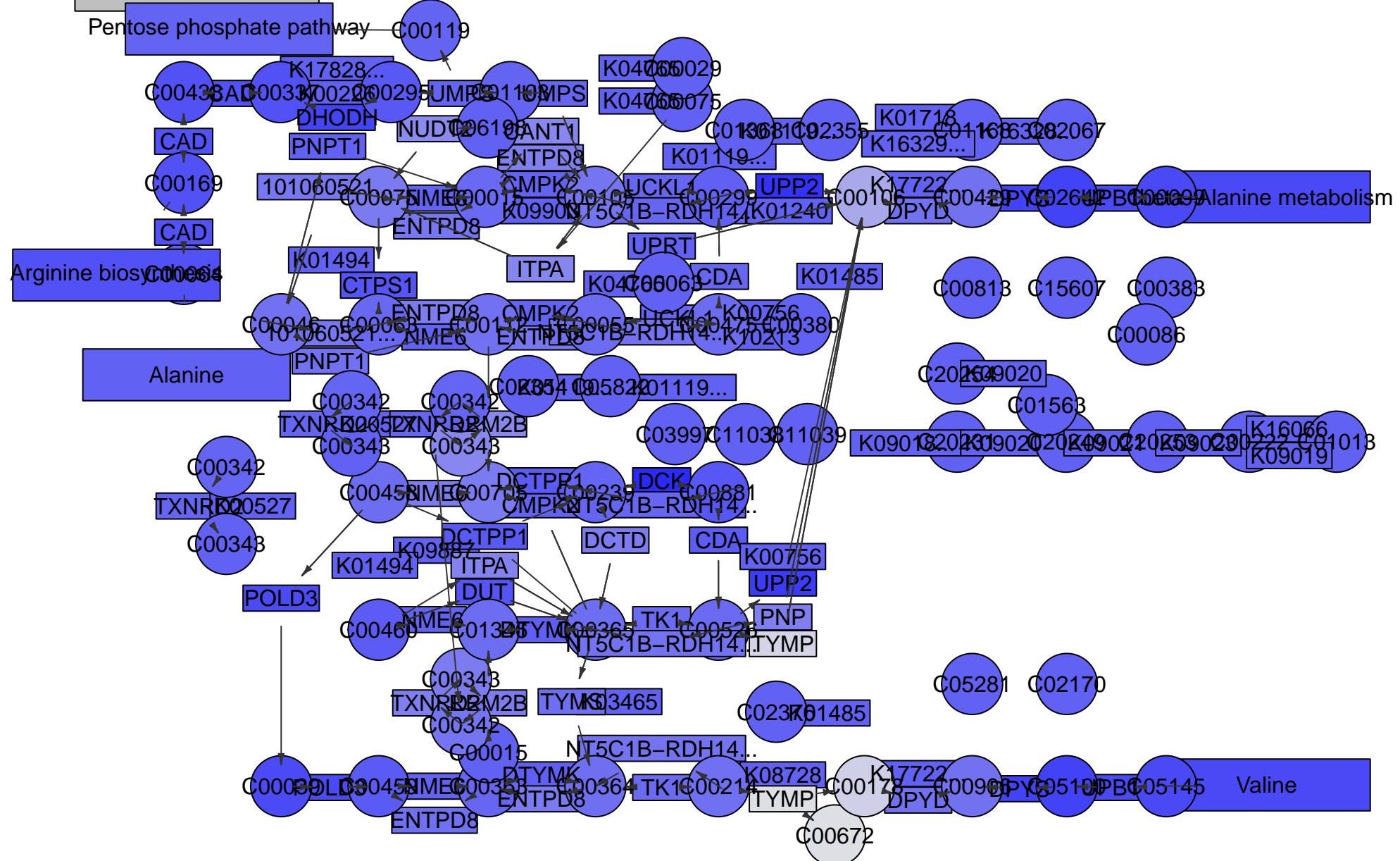


Pyrimidine metabolism

MPI-207

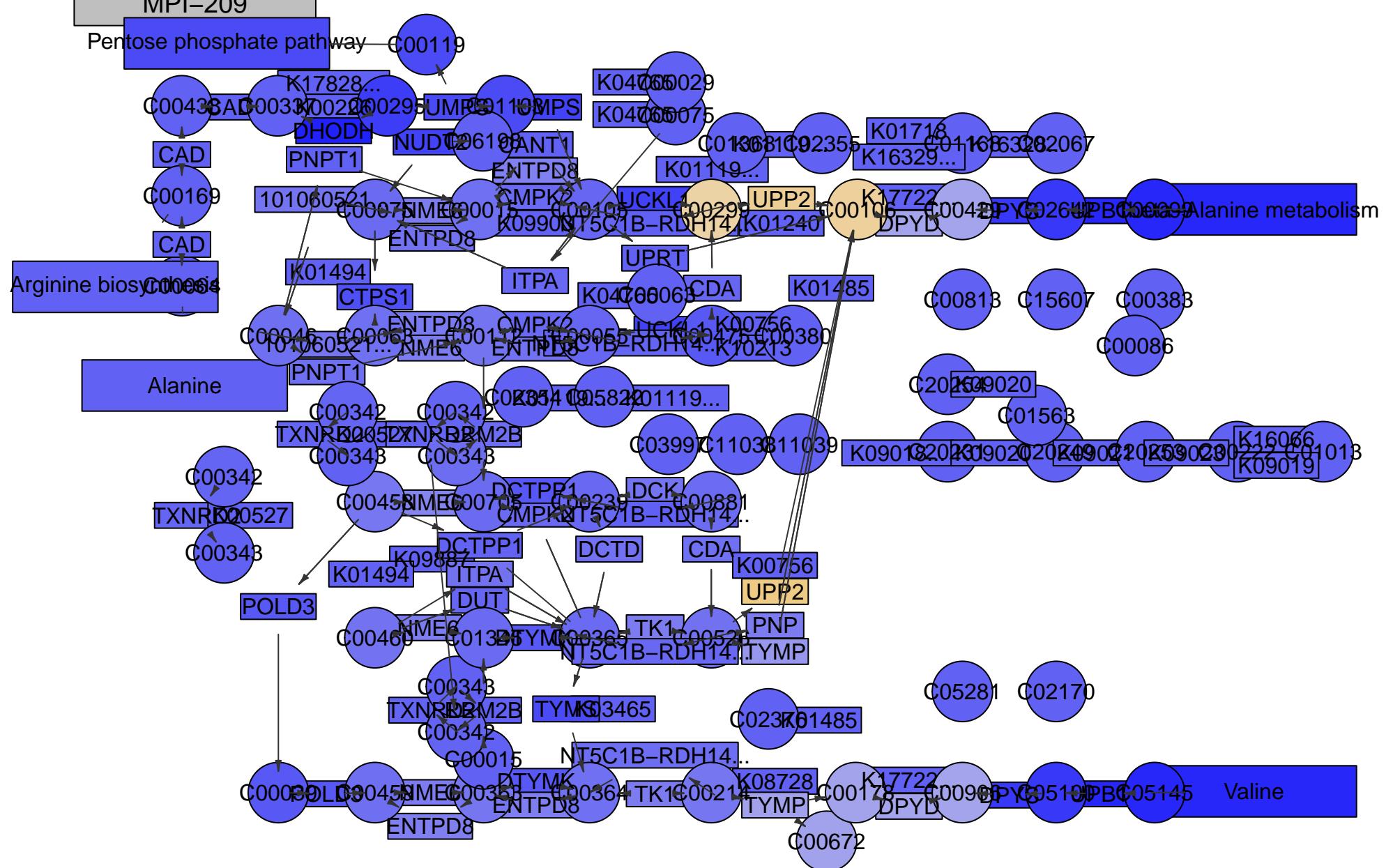


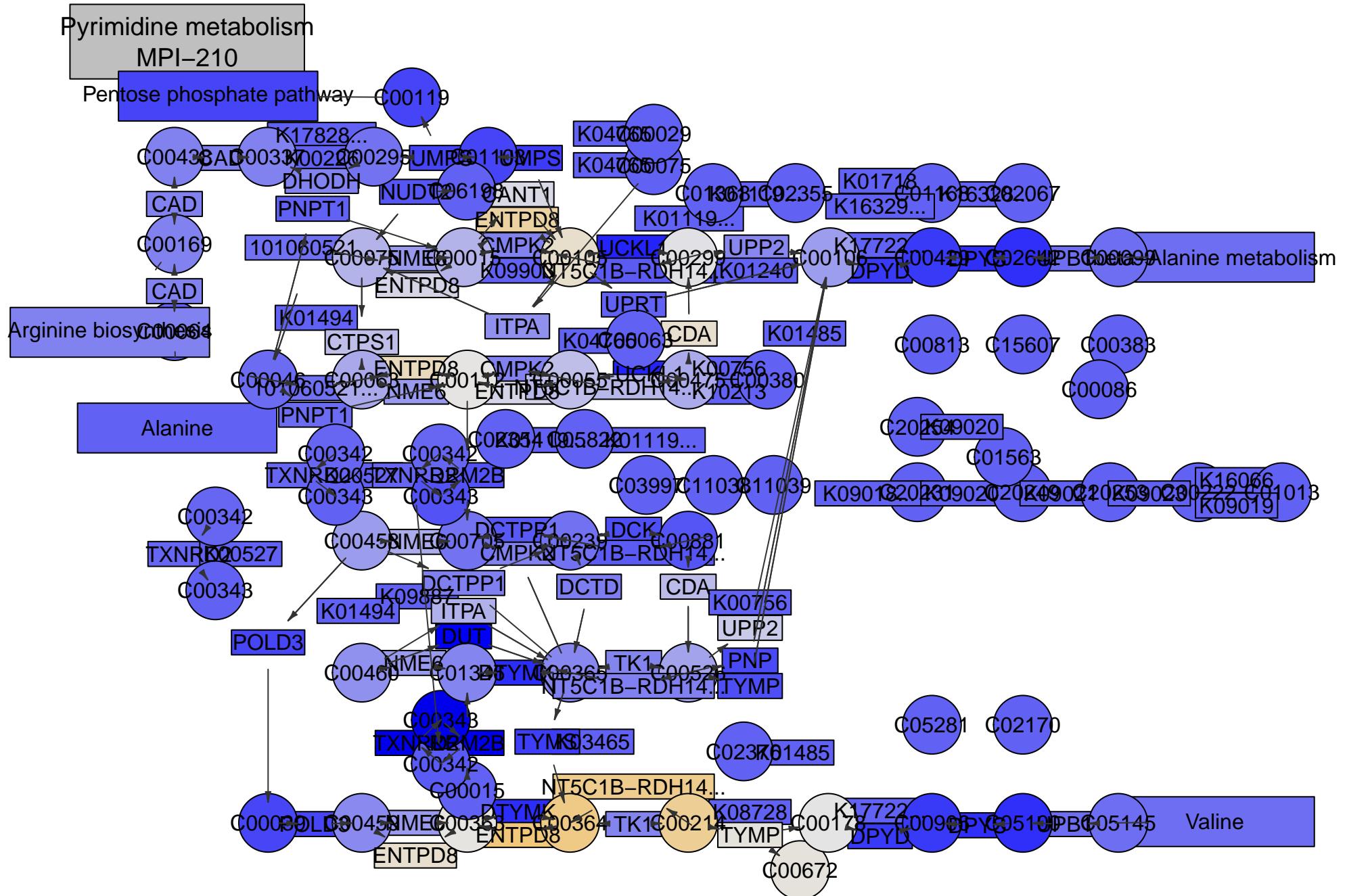
Pyrimidine metabolism
MPI-208

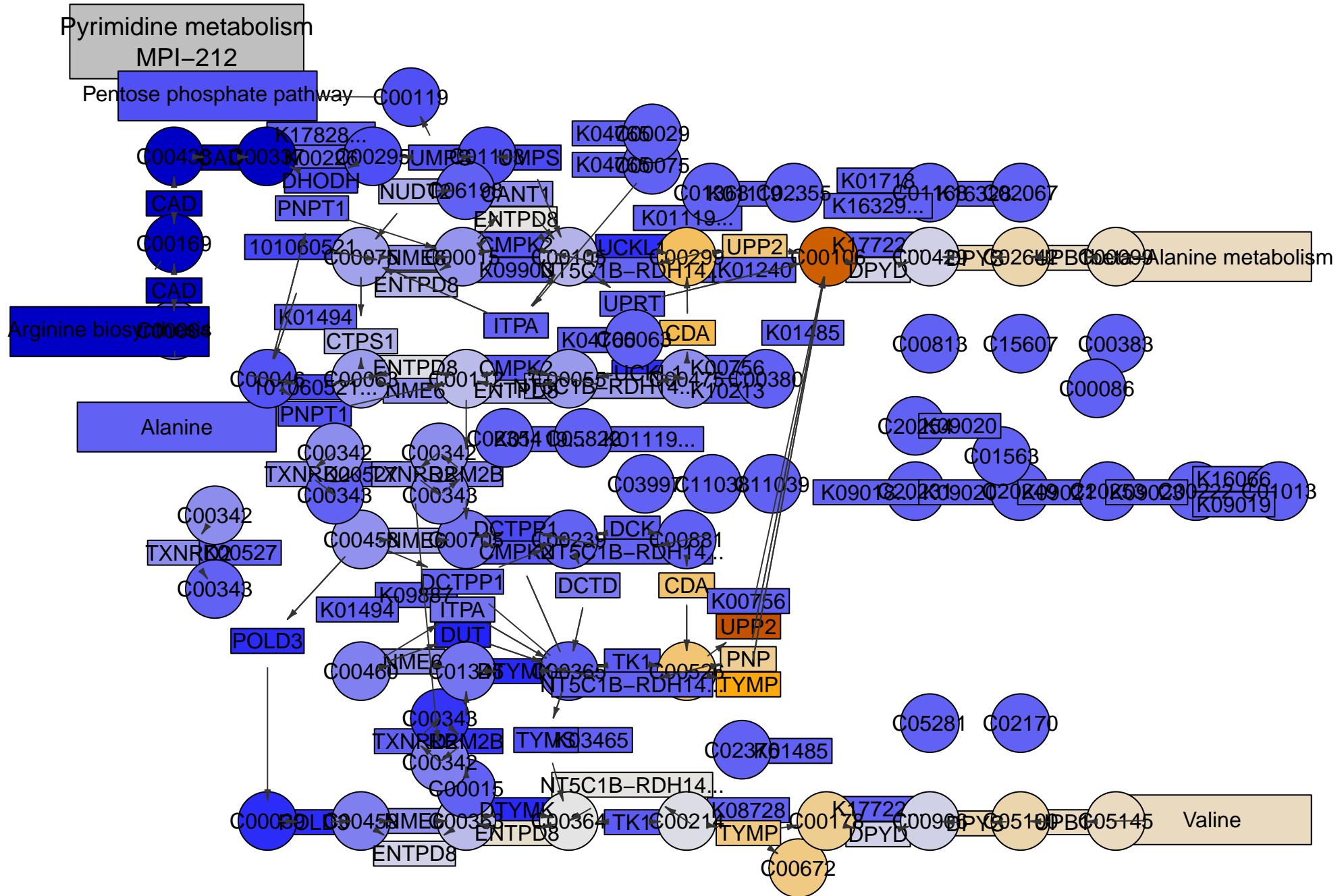


Pyrimidine metabolism

MPI-209

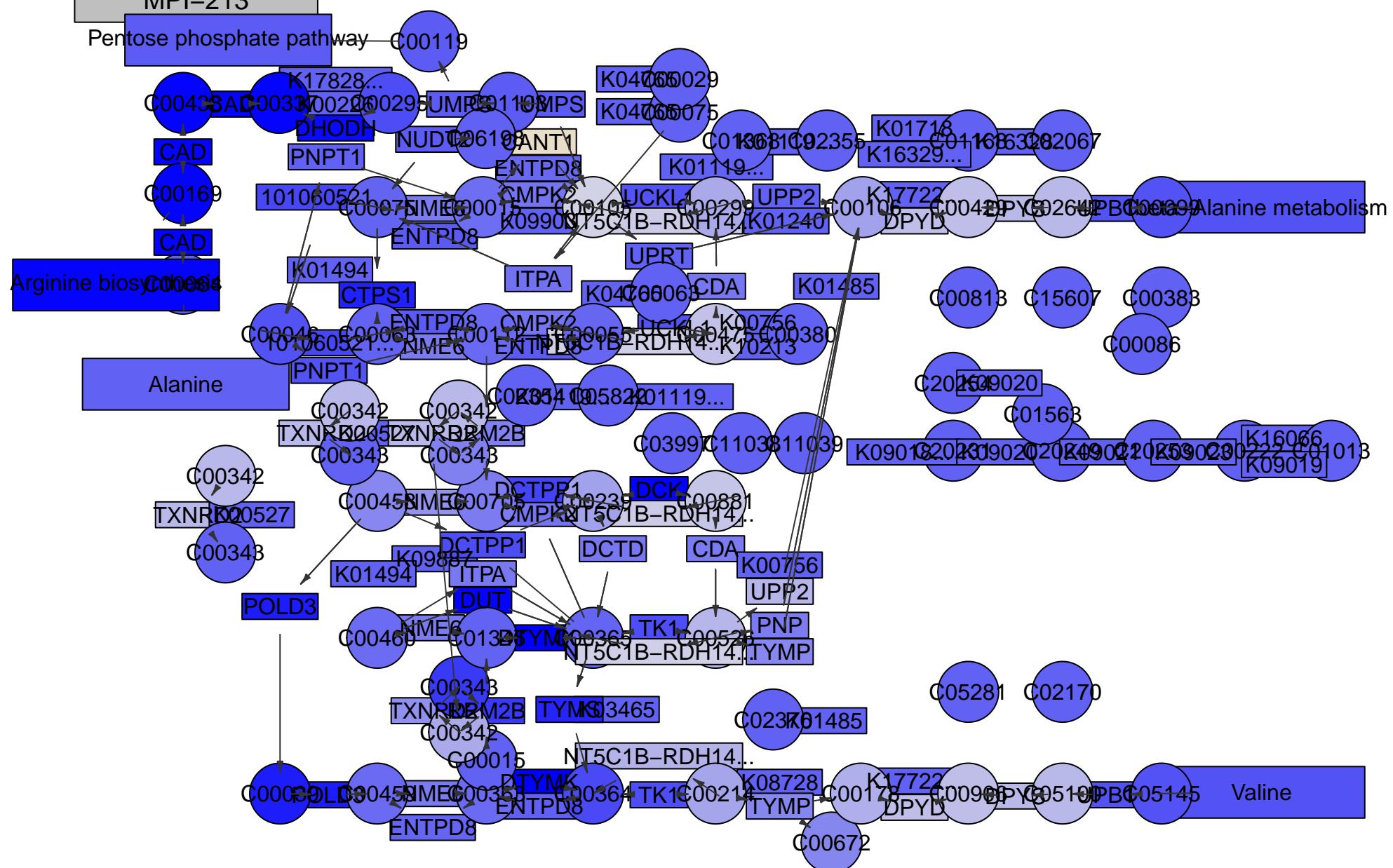


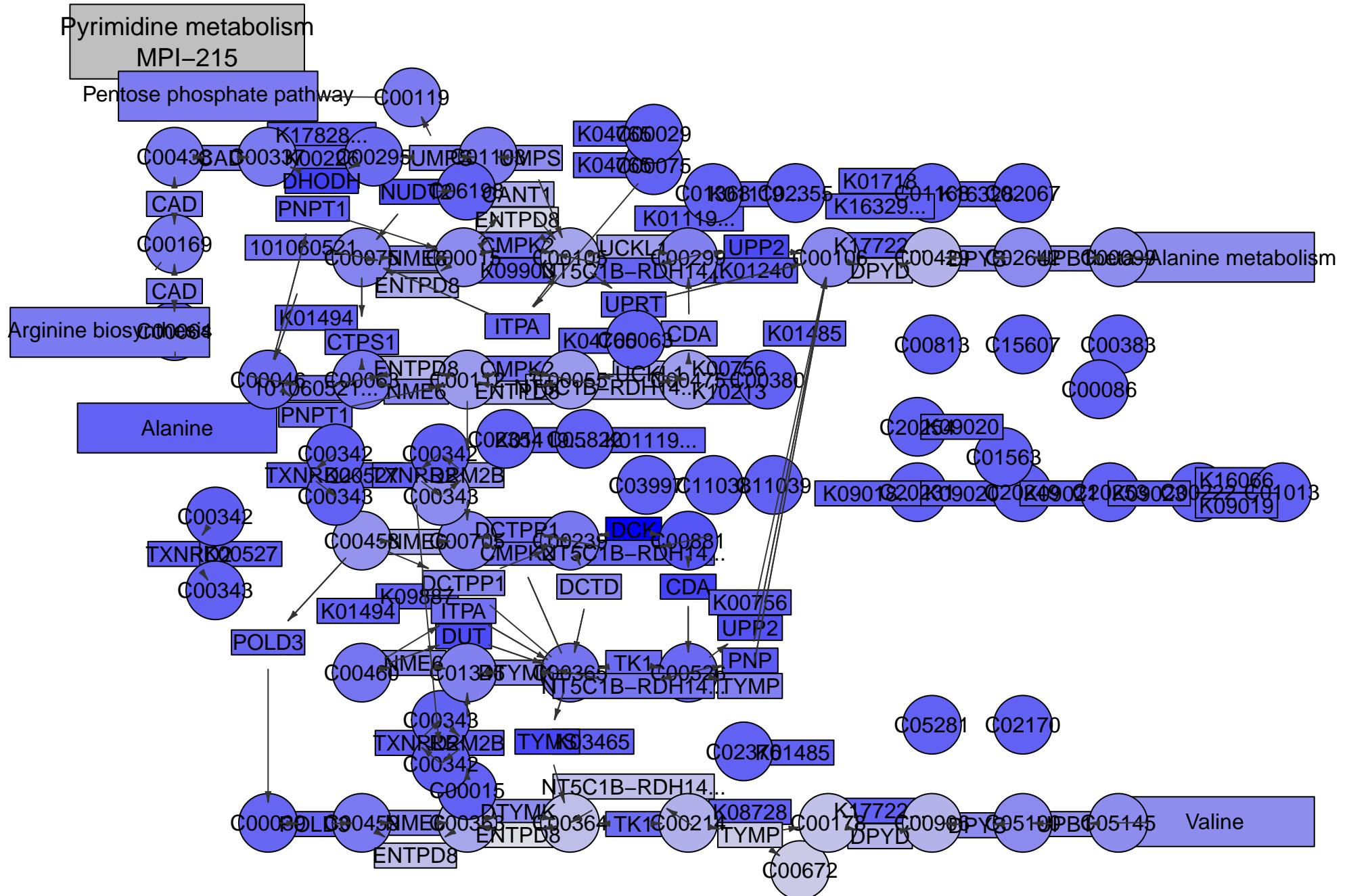




Pyrimidine metabolism

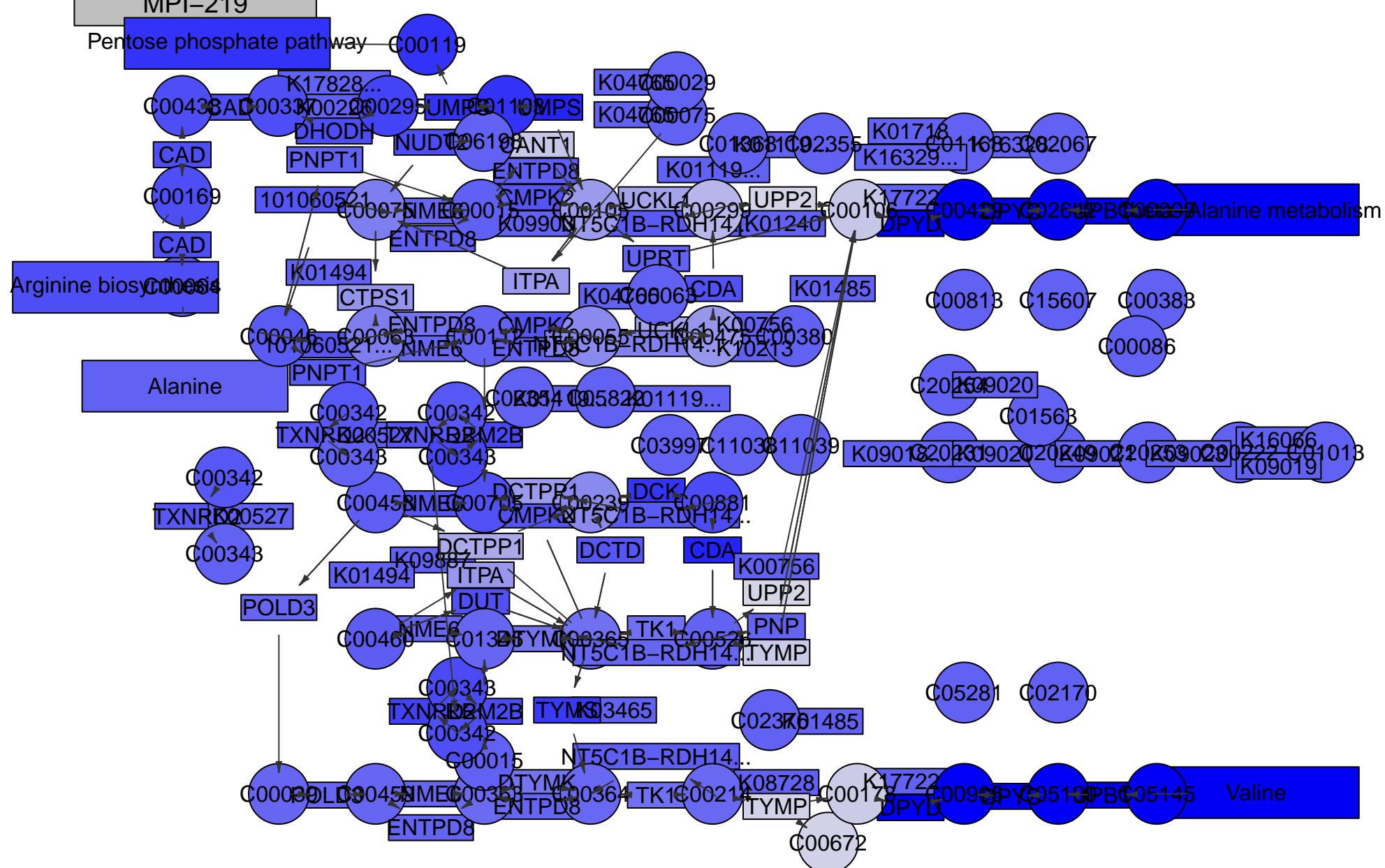
MPI-213





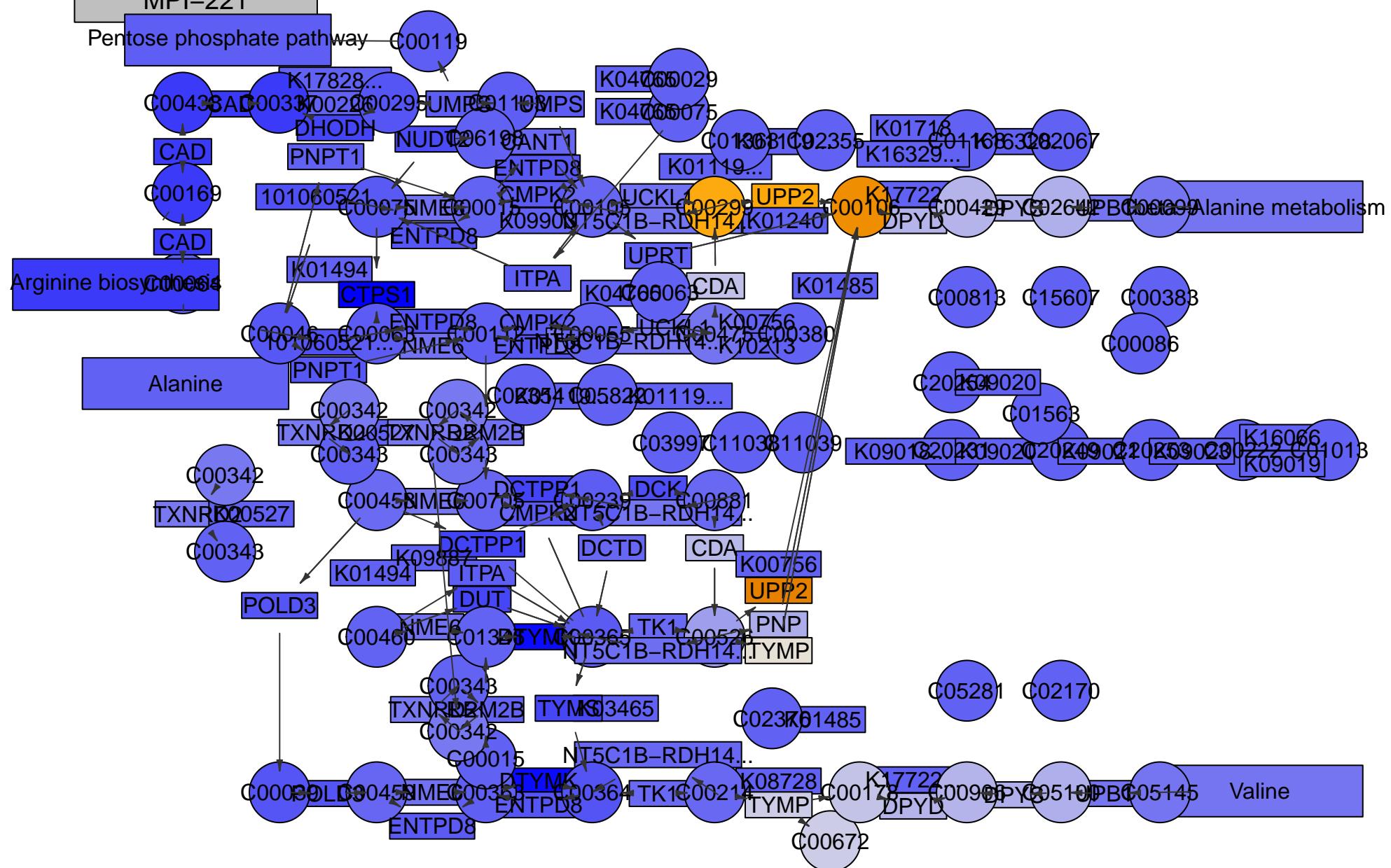
Pyrimidine metabolism

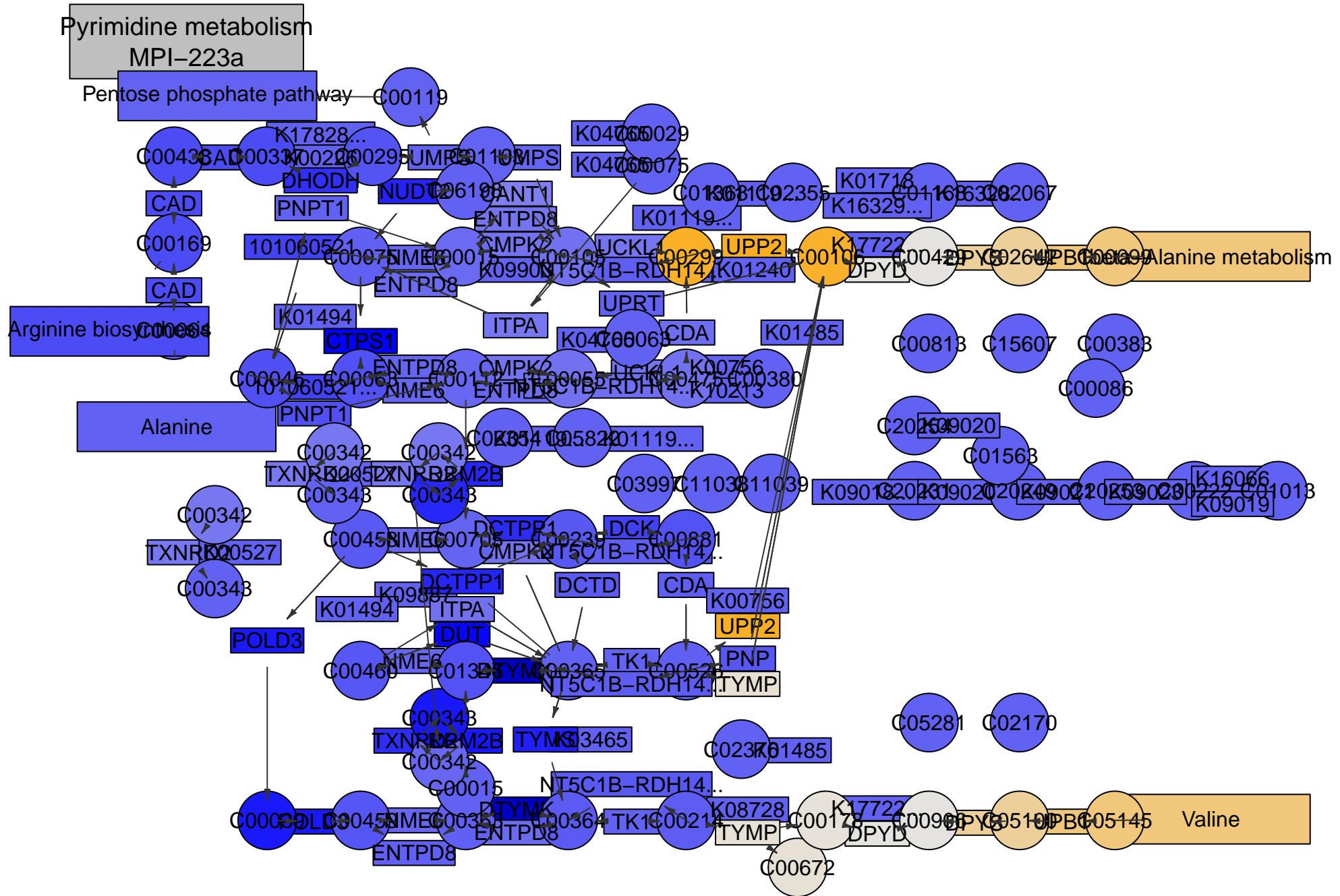
MPI-219



Pyrimidine metabolism

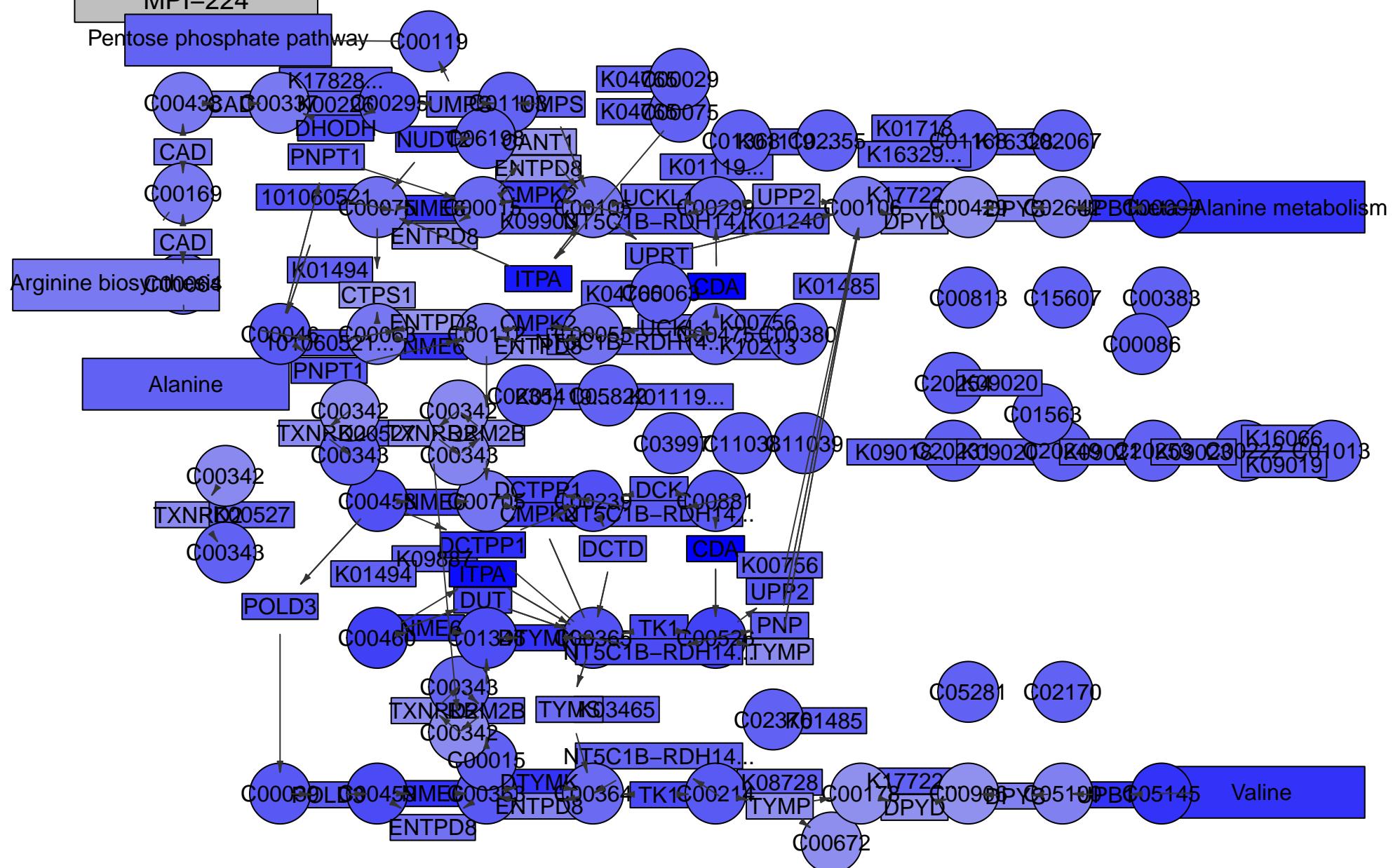
MPI-221





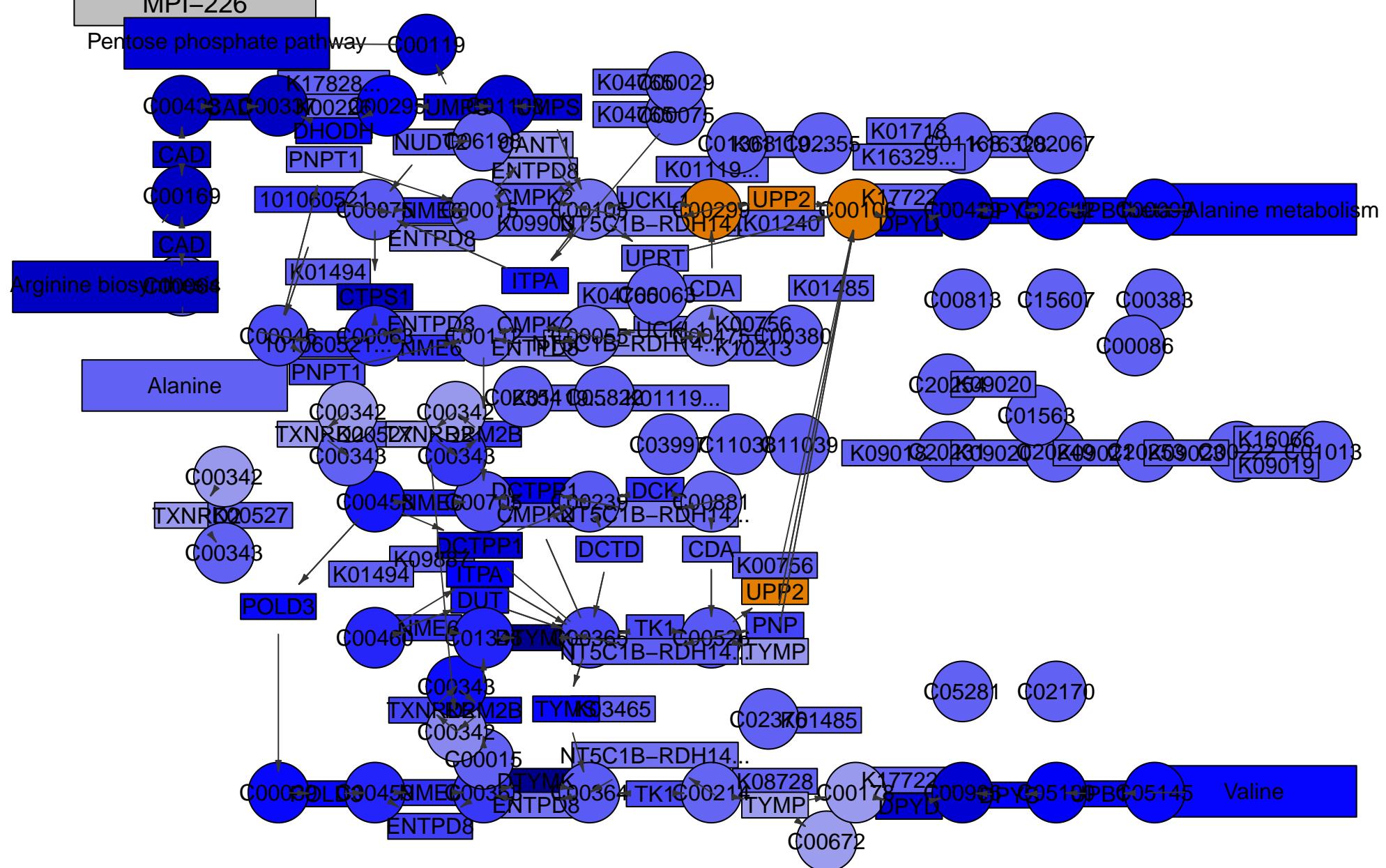
Pyrimidine metabolism

MPI-224



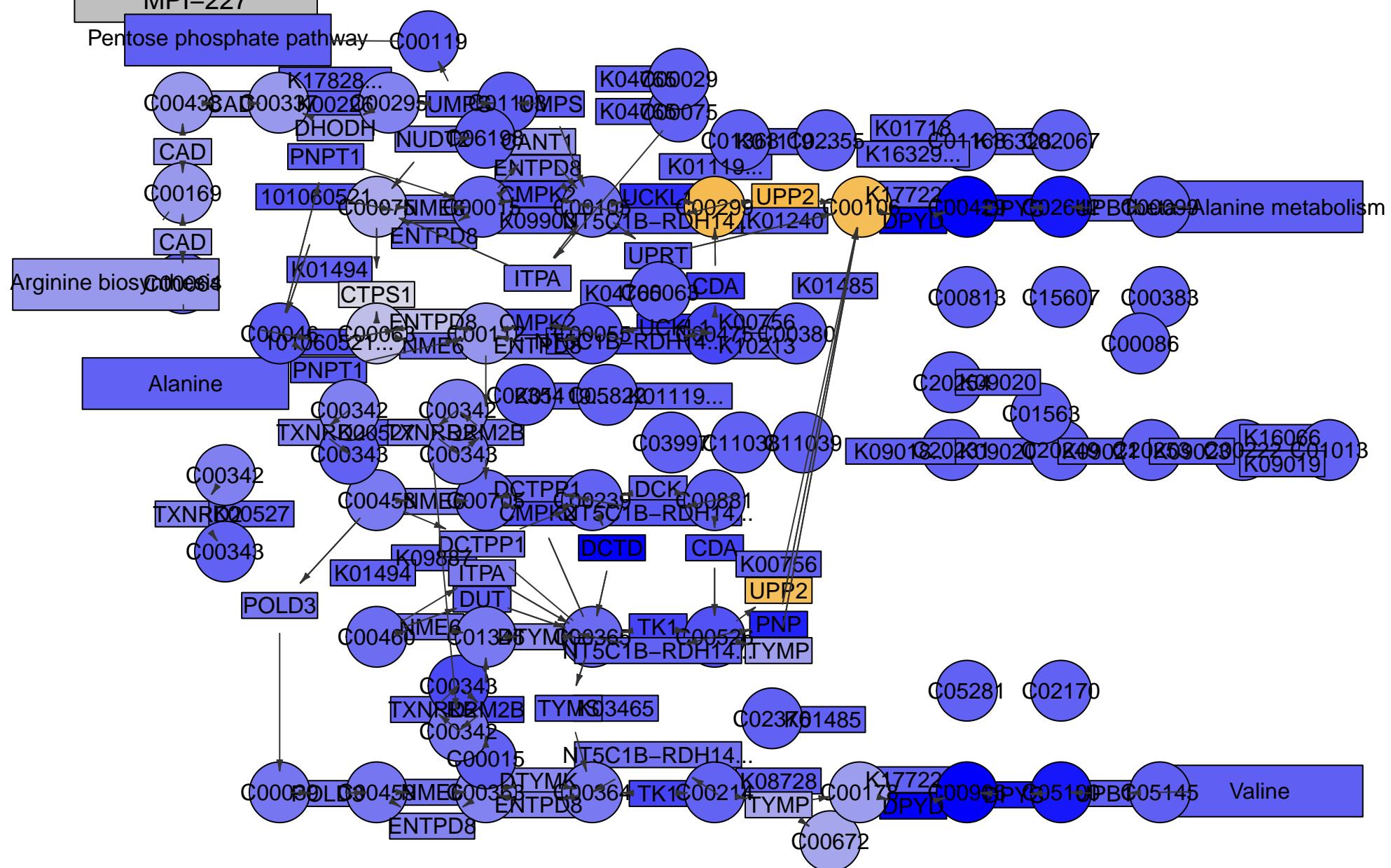
Pyrimidine metabolism

MPI-226



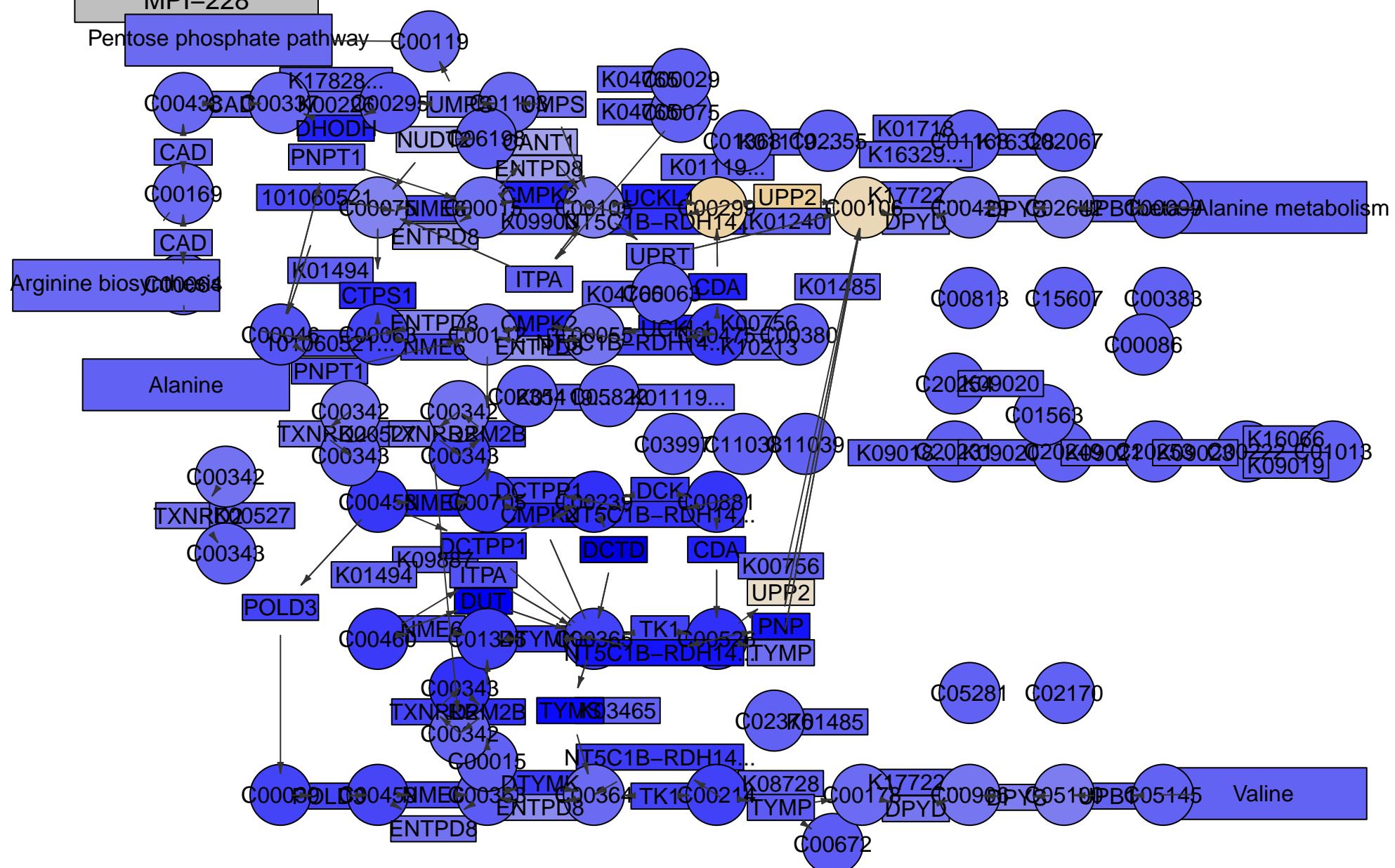
Pyrimidine metabolism

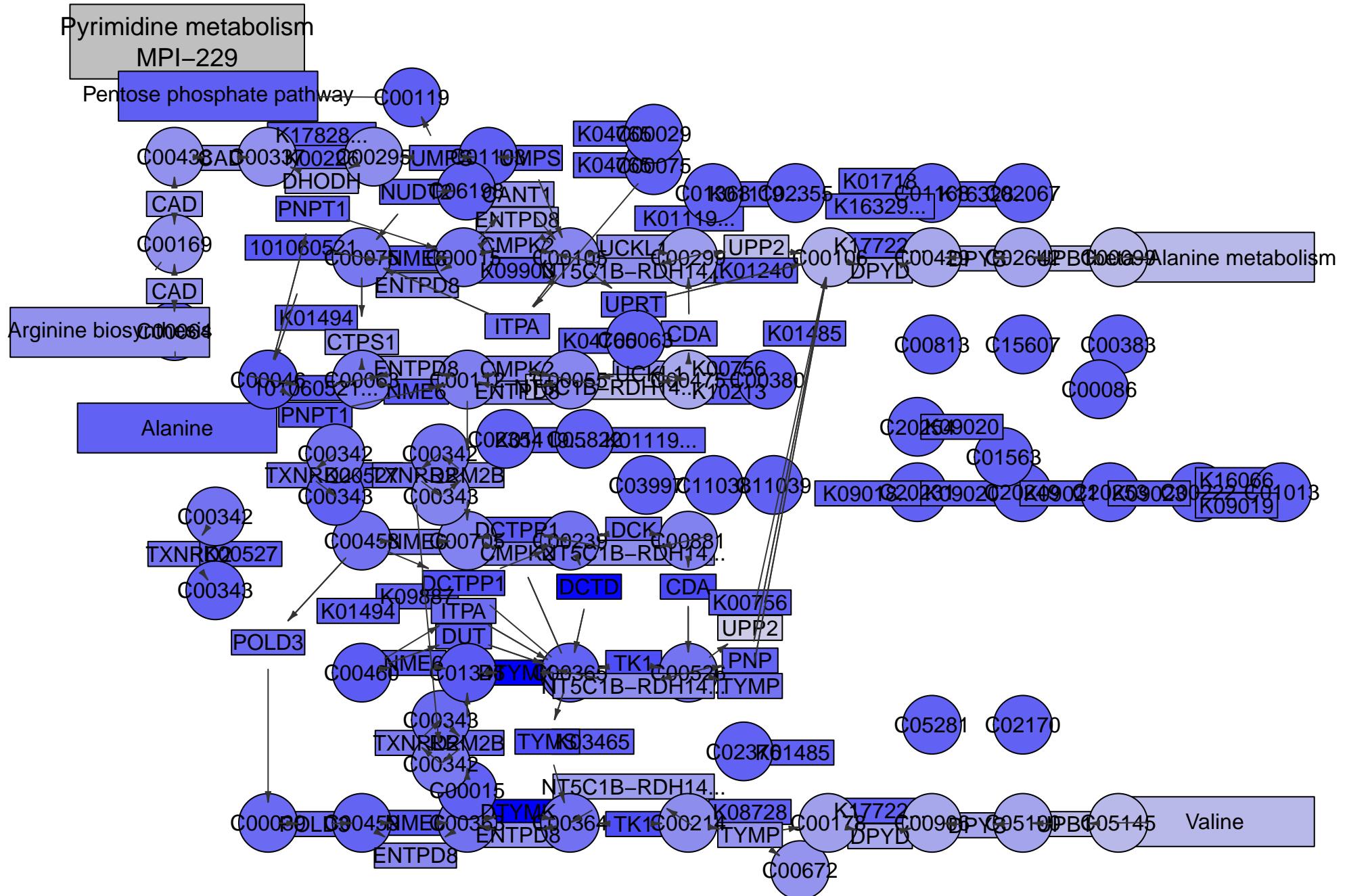
MPI-227

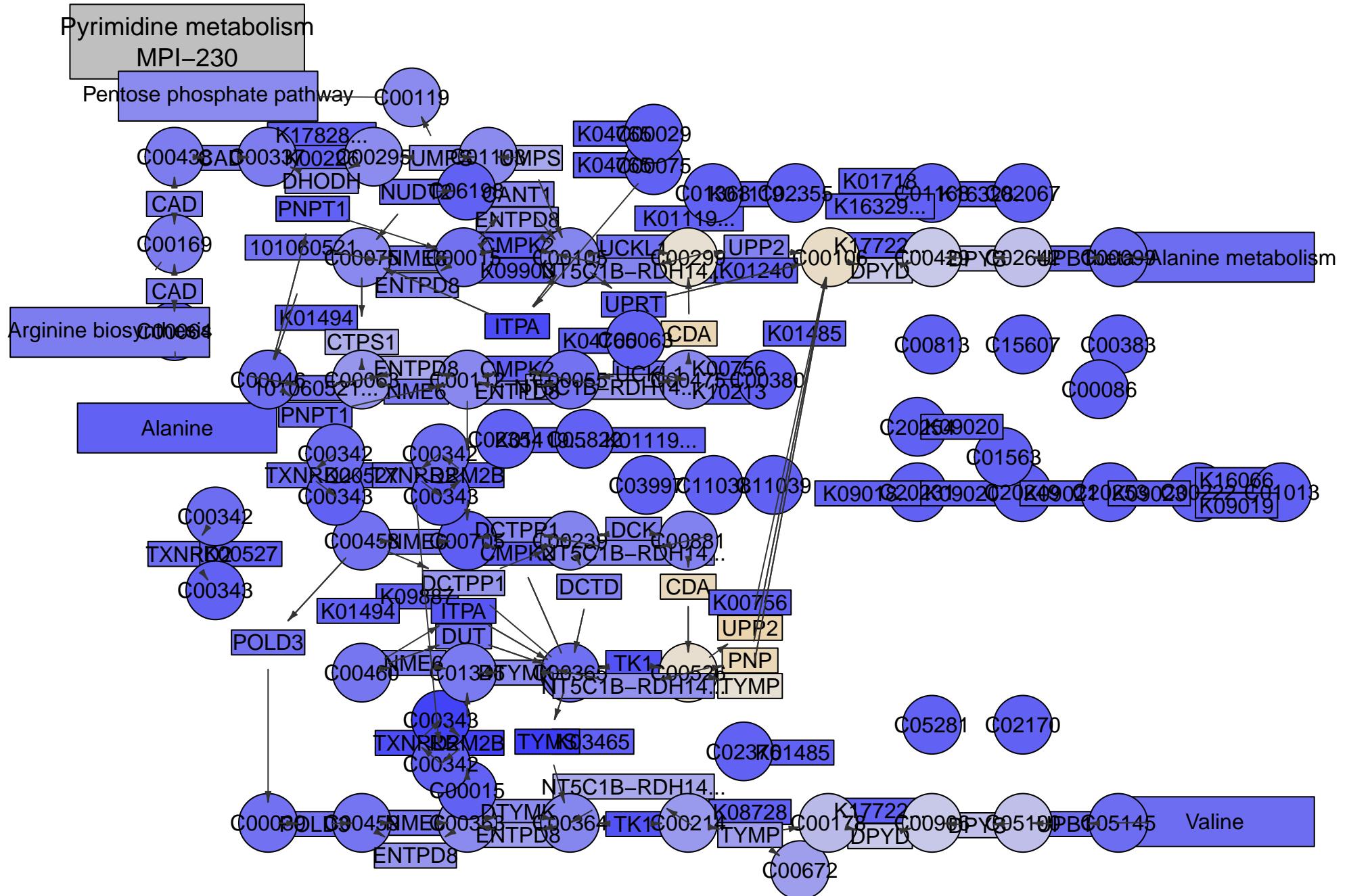


Pyrimidine metabolism

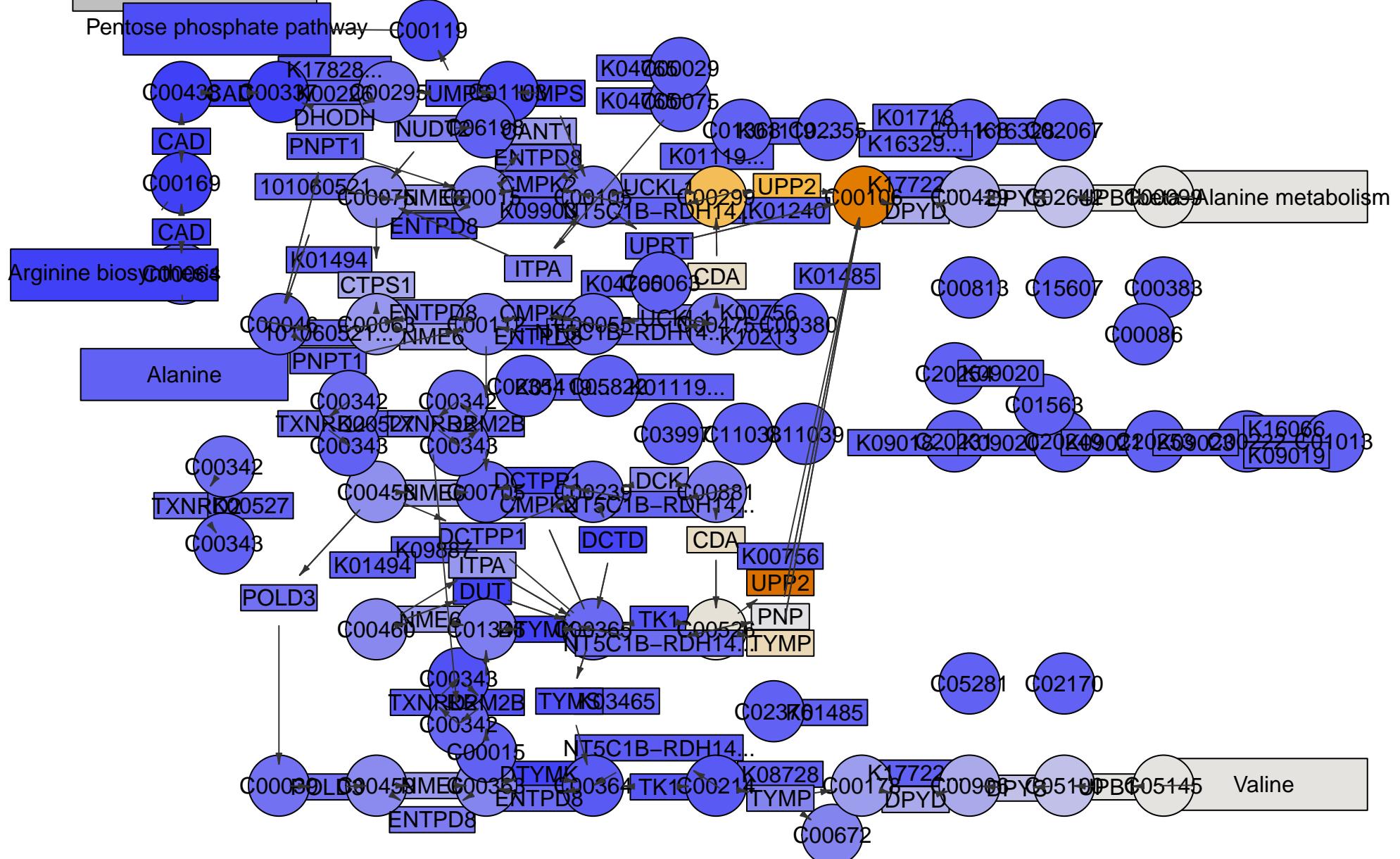
MPI-228

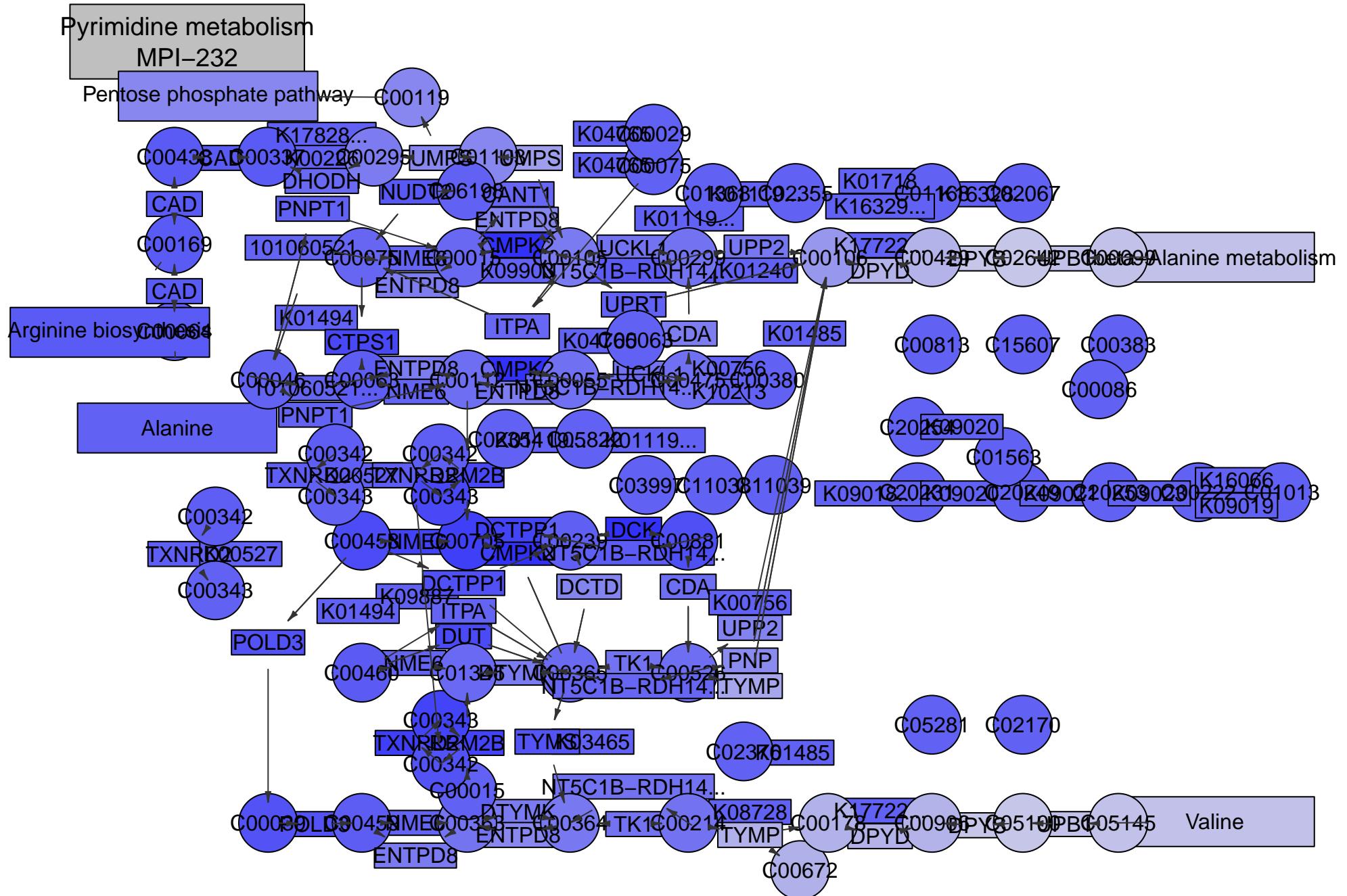






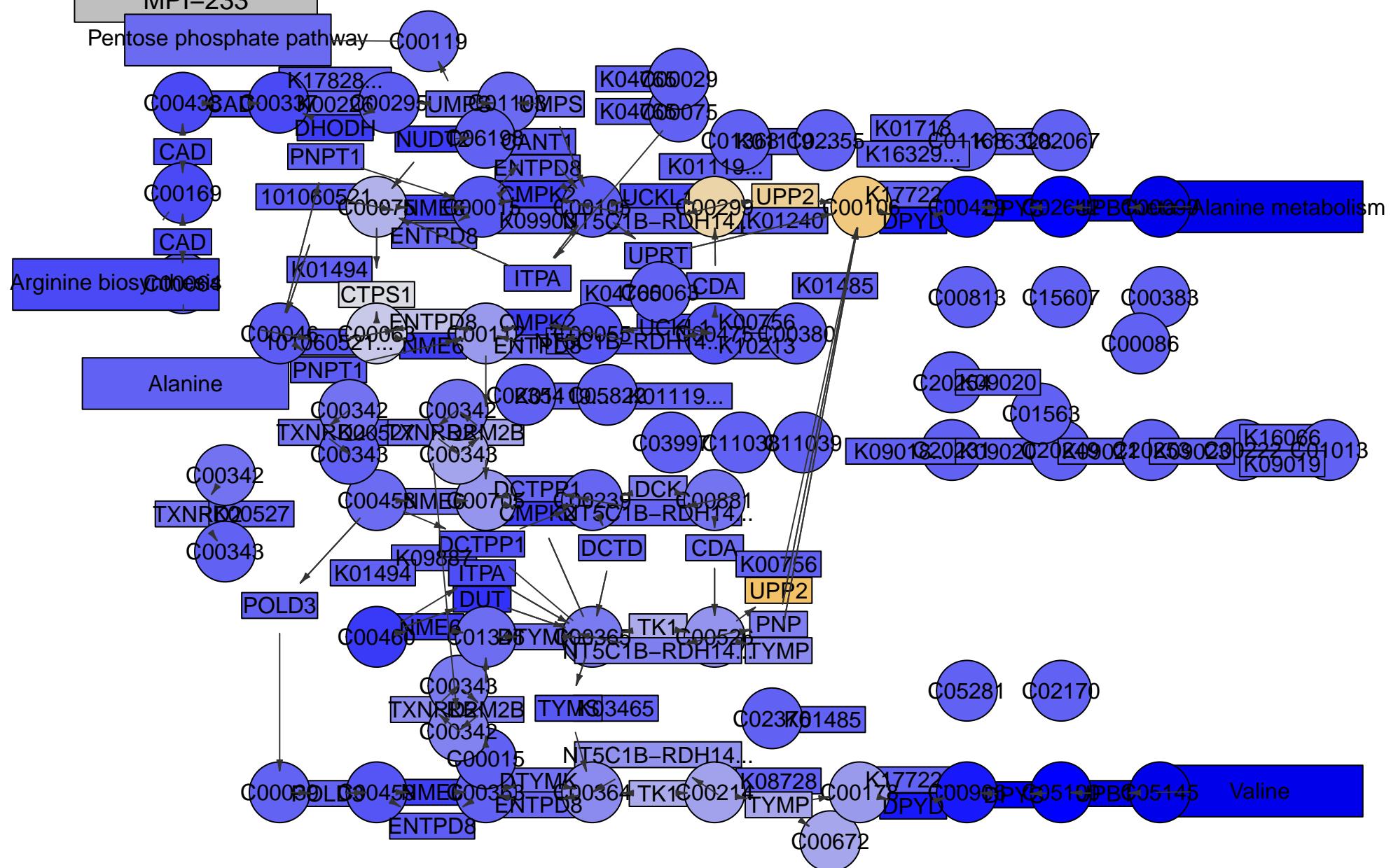
Pyrimidine metabolism
MPI-231



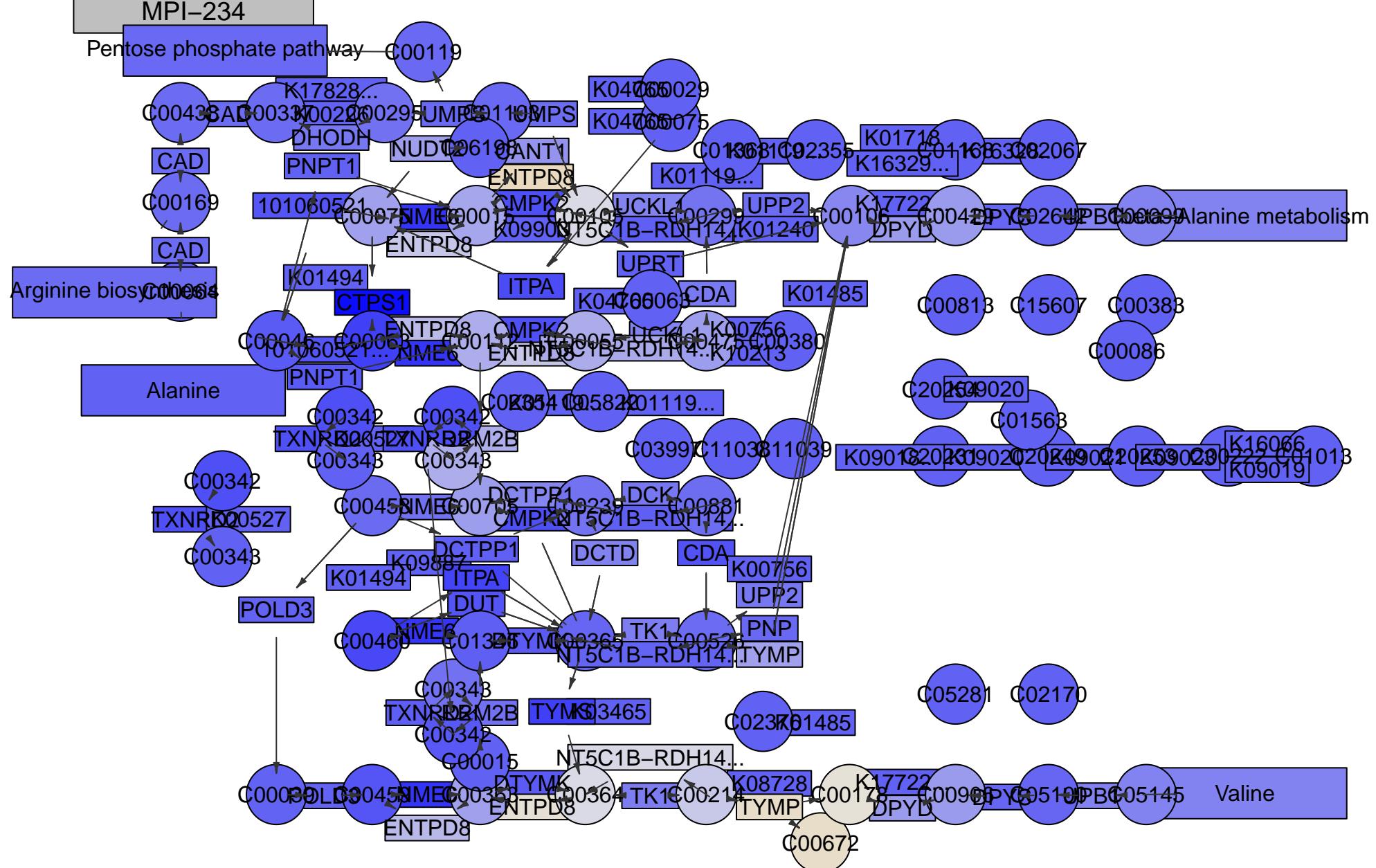


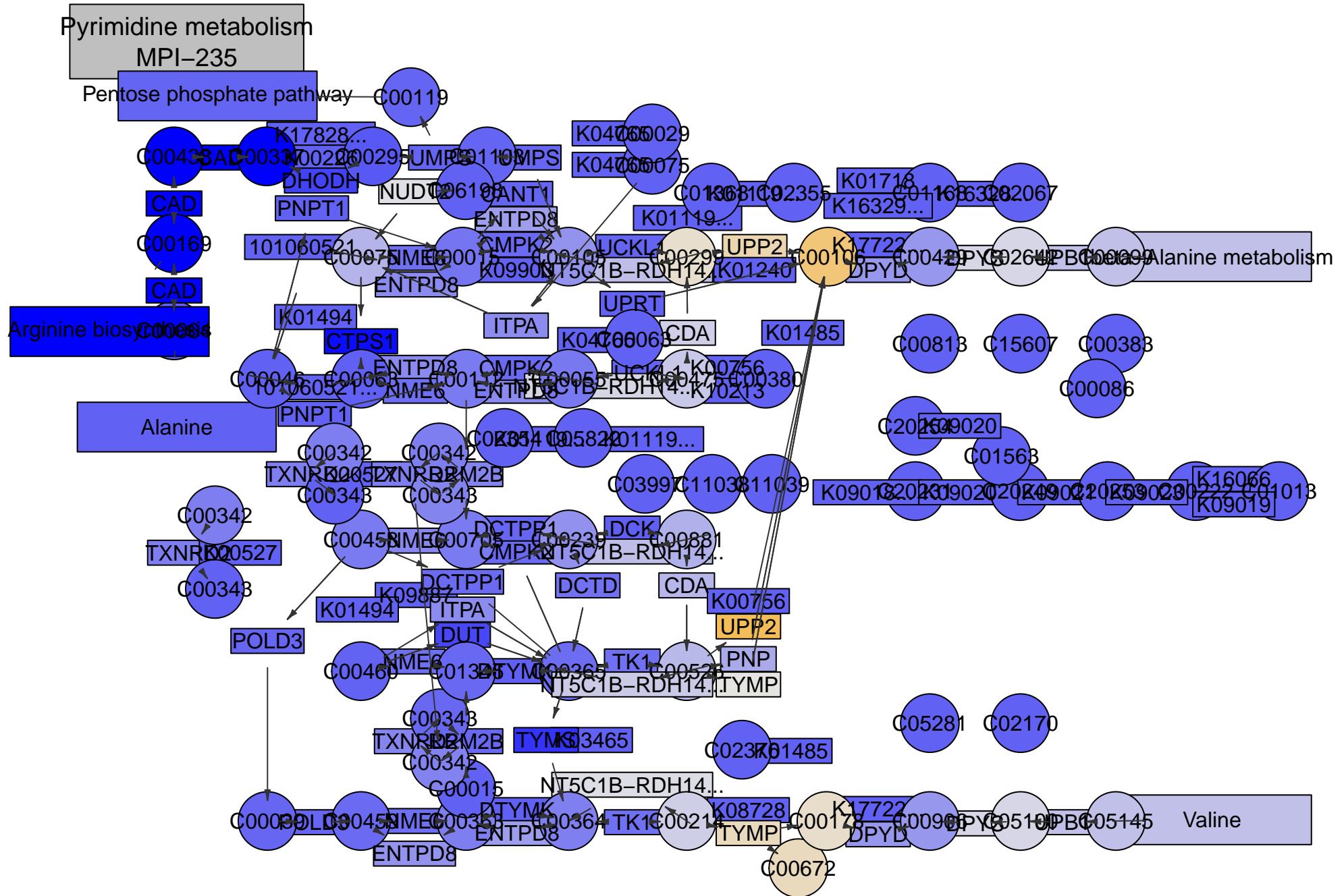
Pyrimidine metabolism

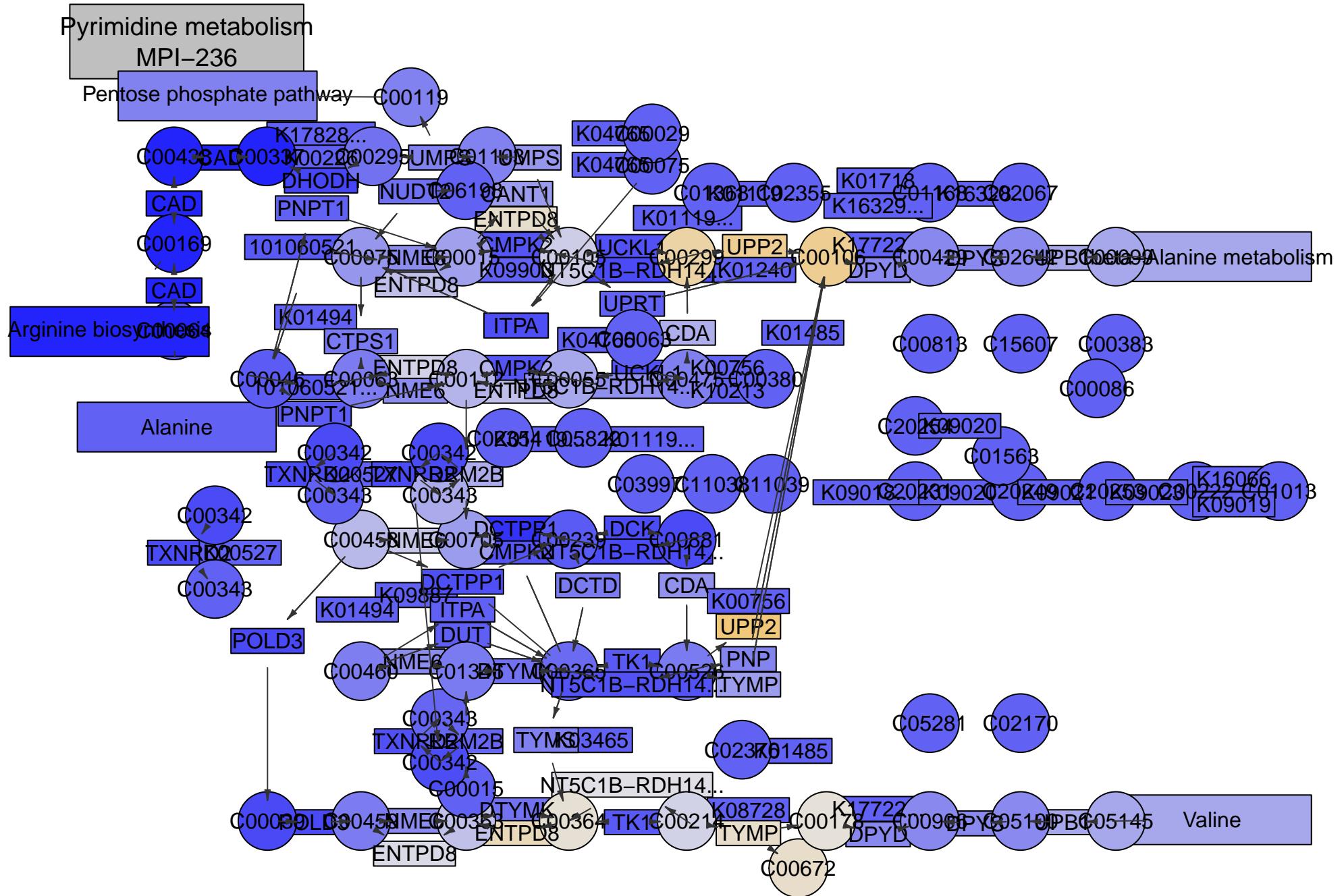
MPI-233

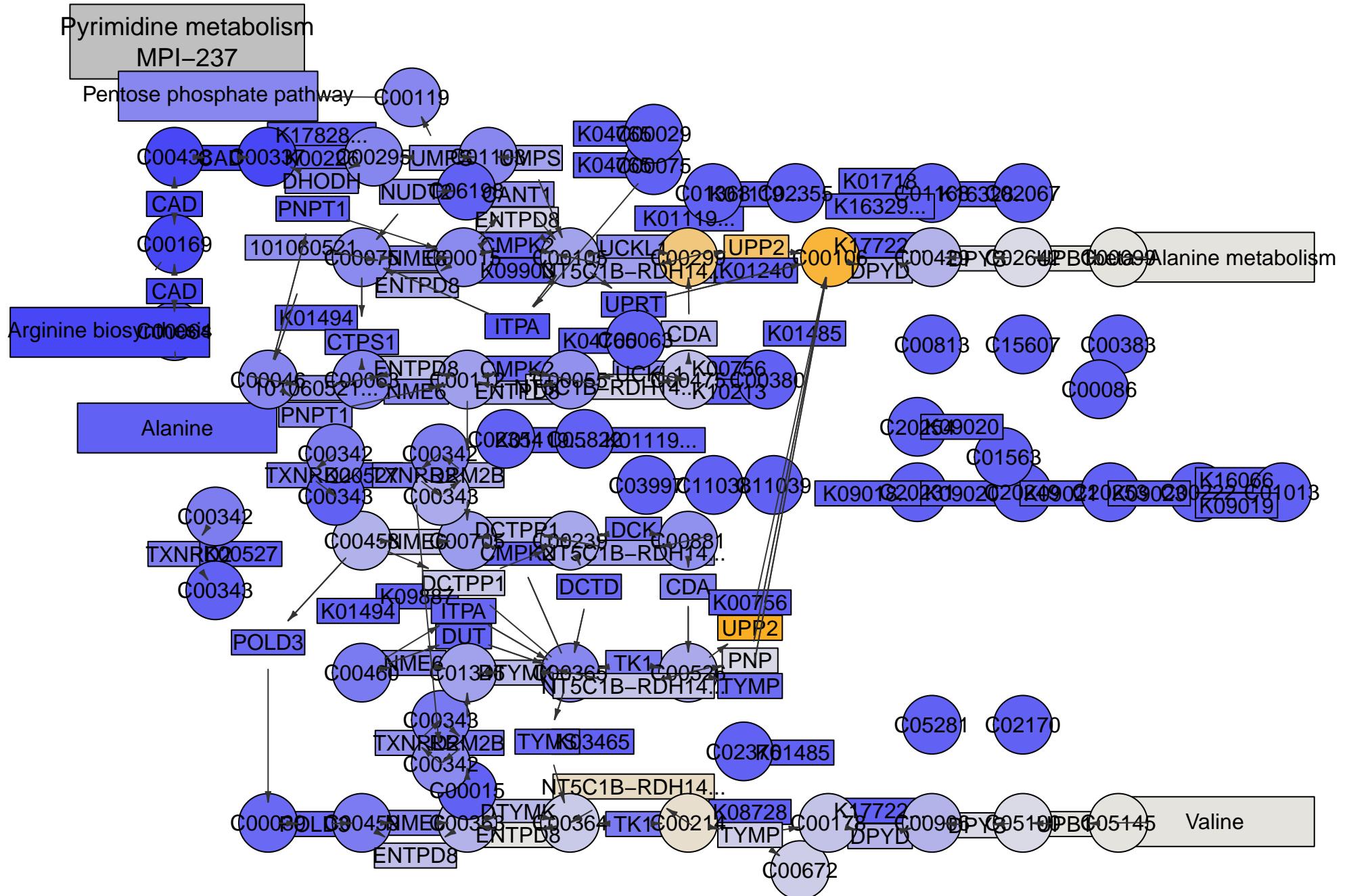


Pyrimidine metabolism
MPI-234



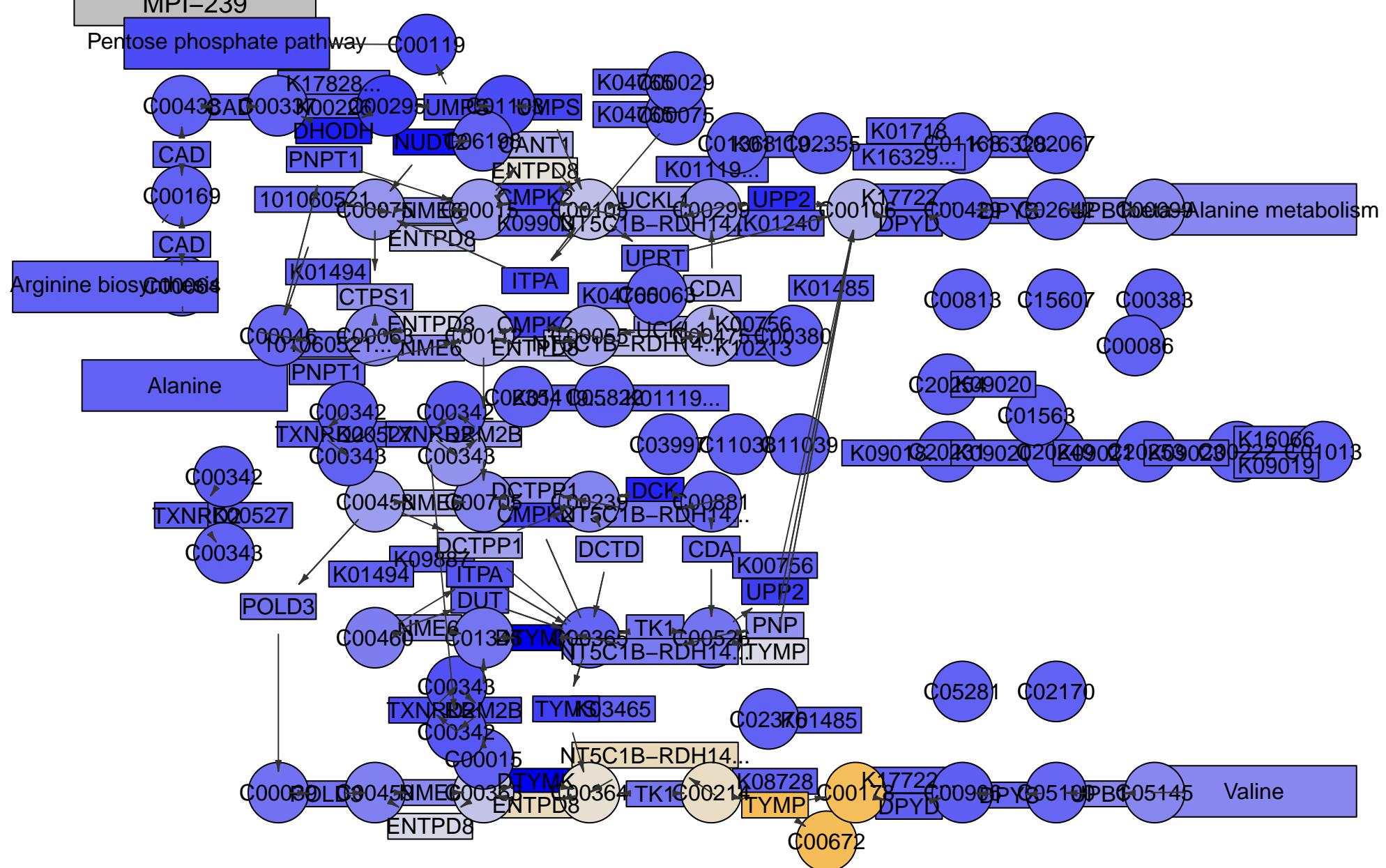






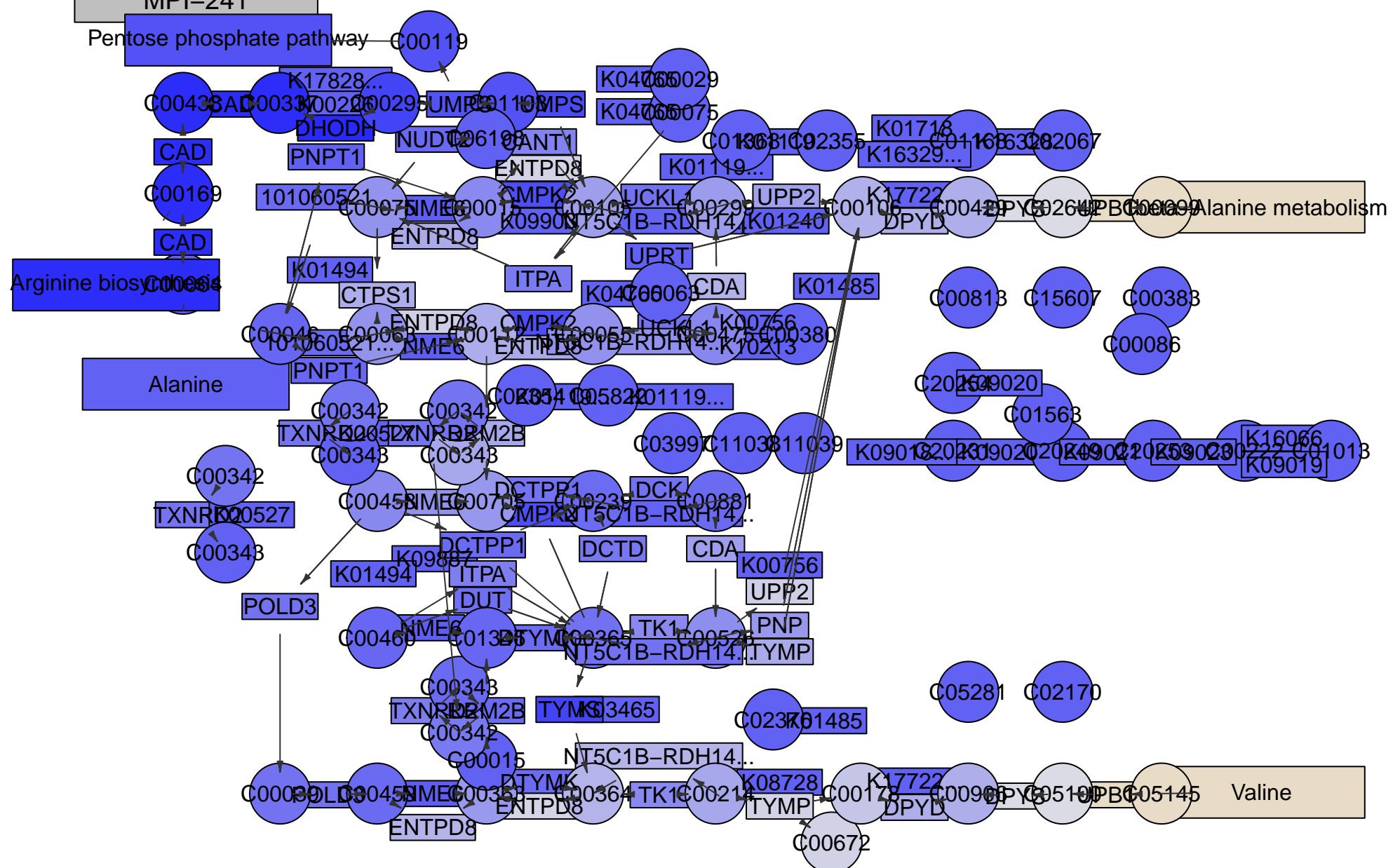
Pyrimidine metabolism

MPI-239



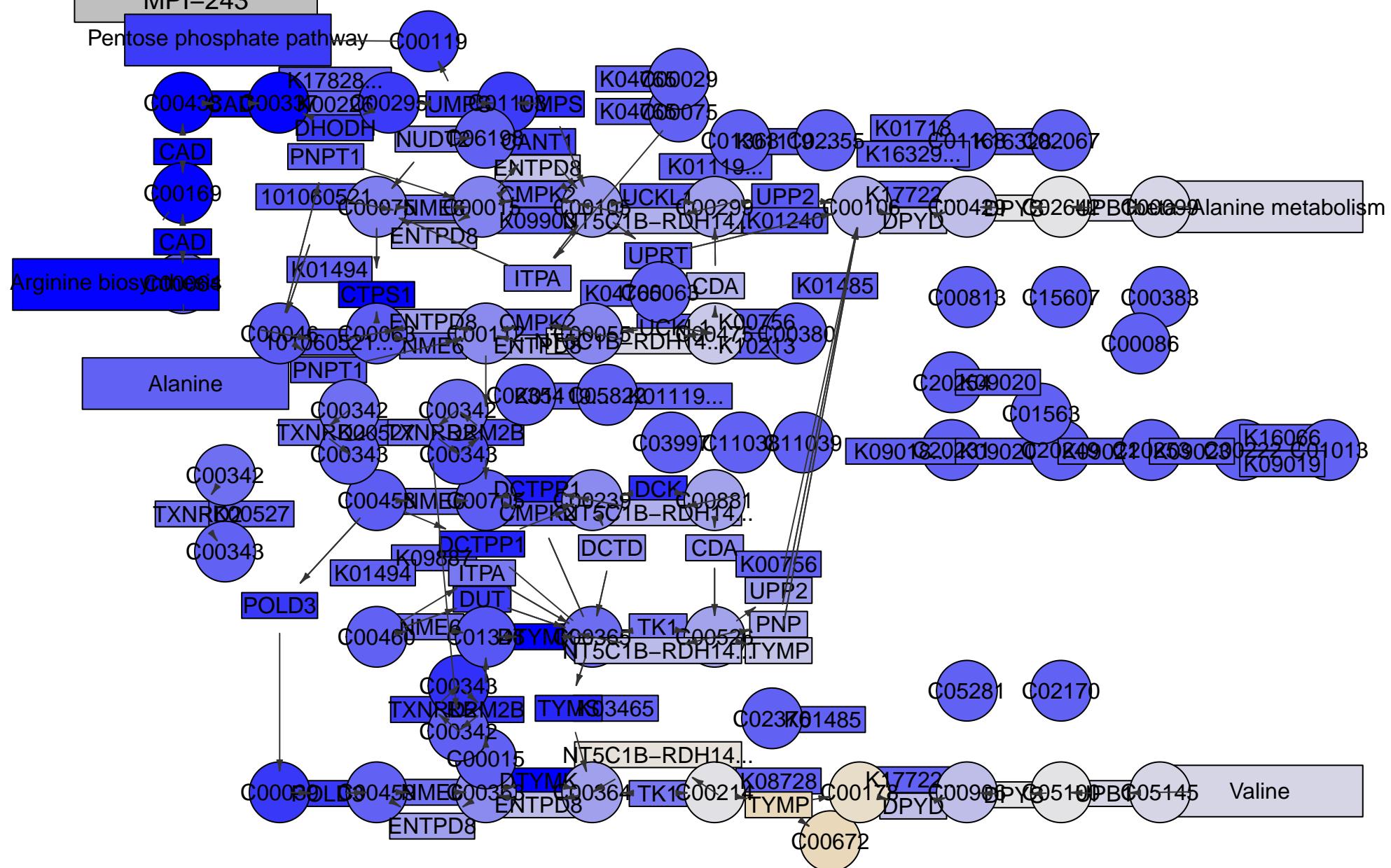
Pyrimidine metabolism

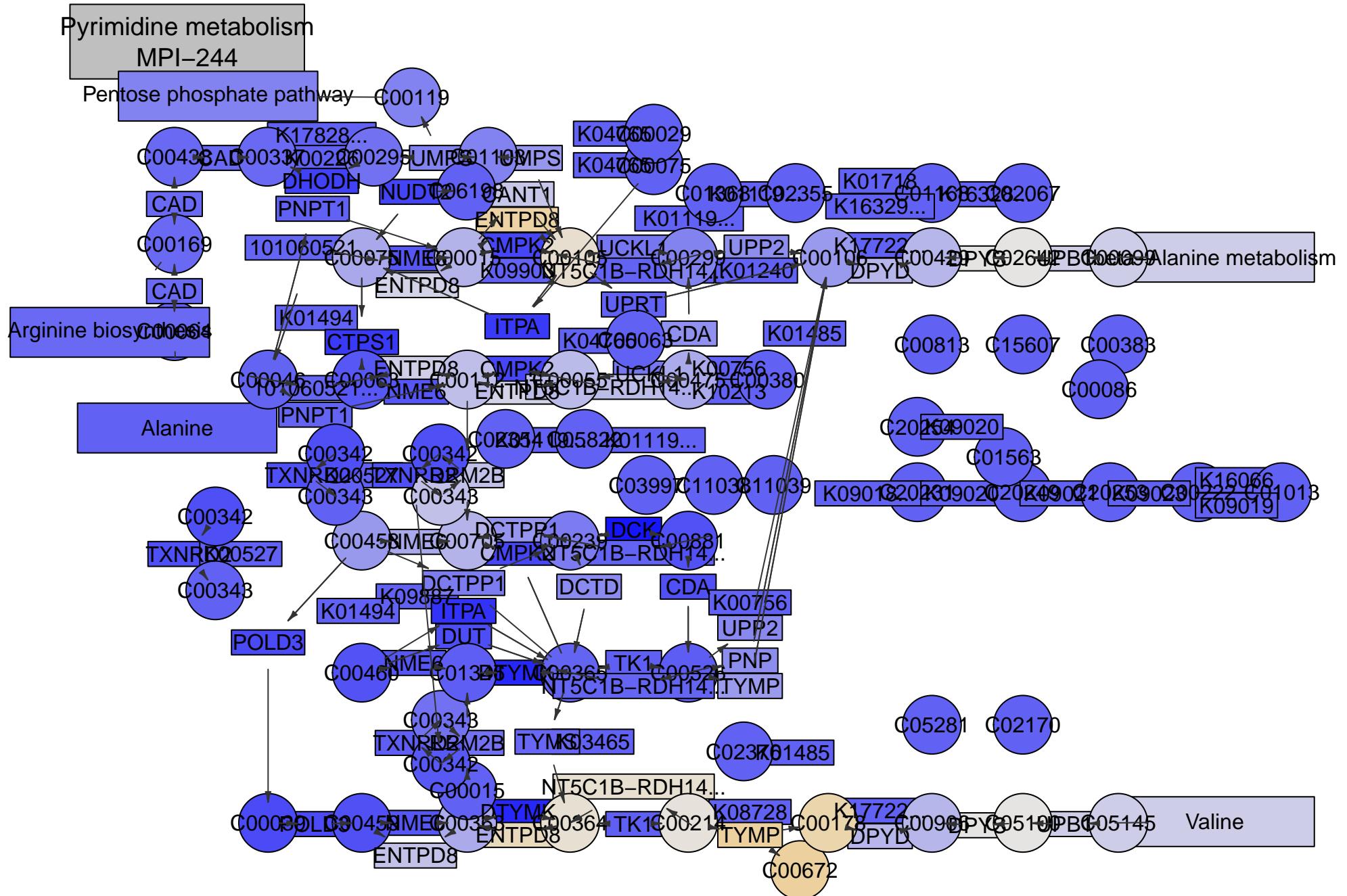
MPI-241



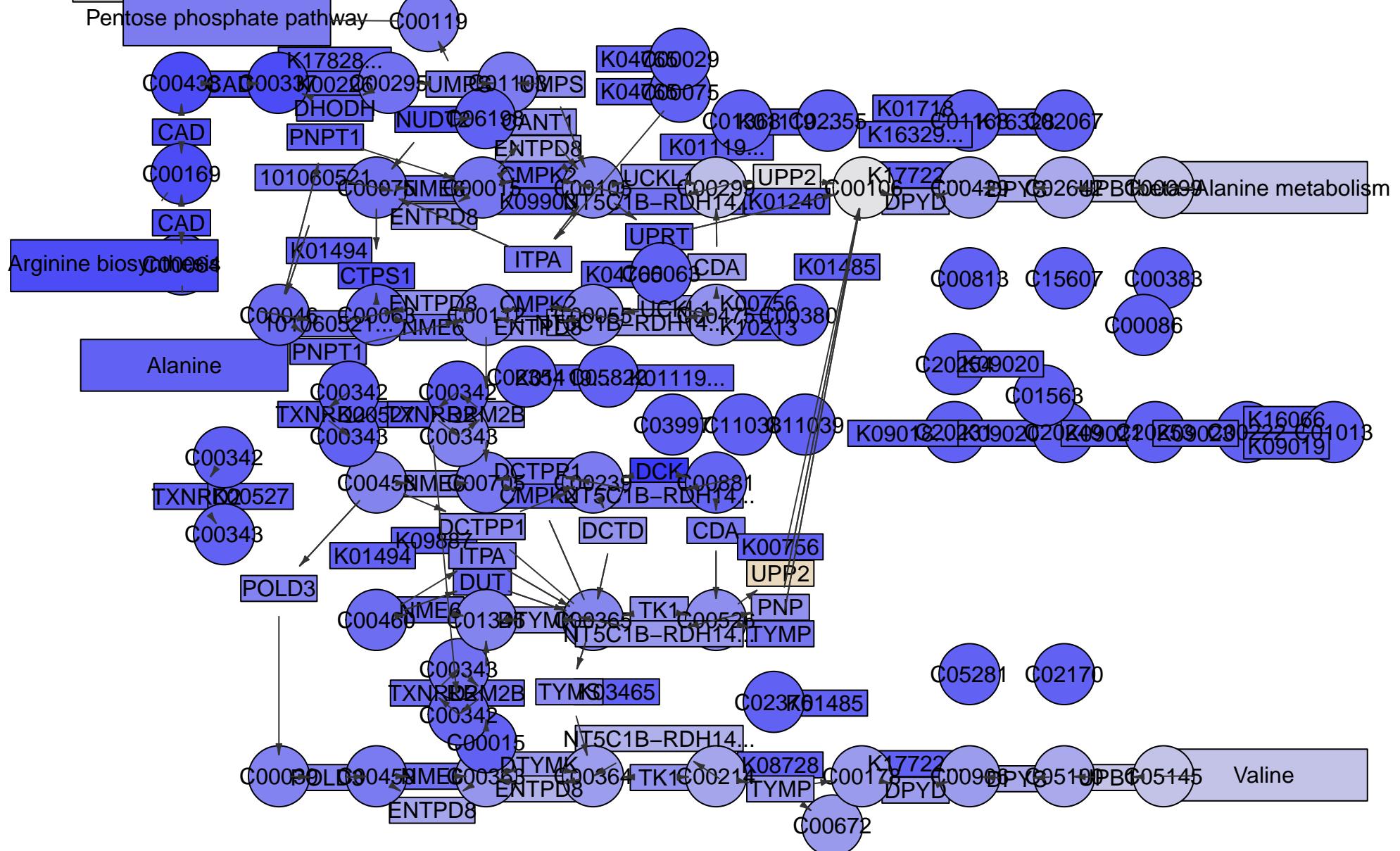
Pyrimidine metabolism

MPI-243

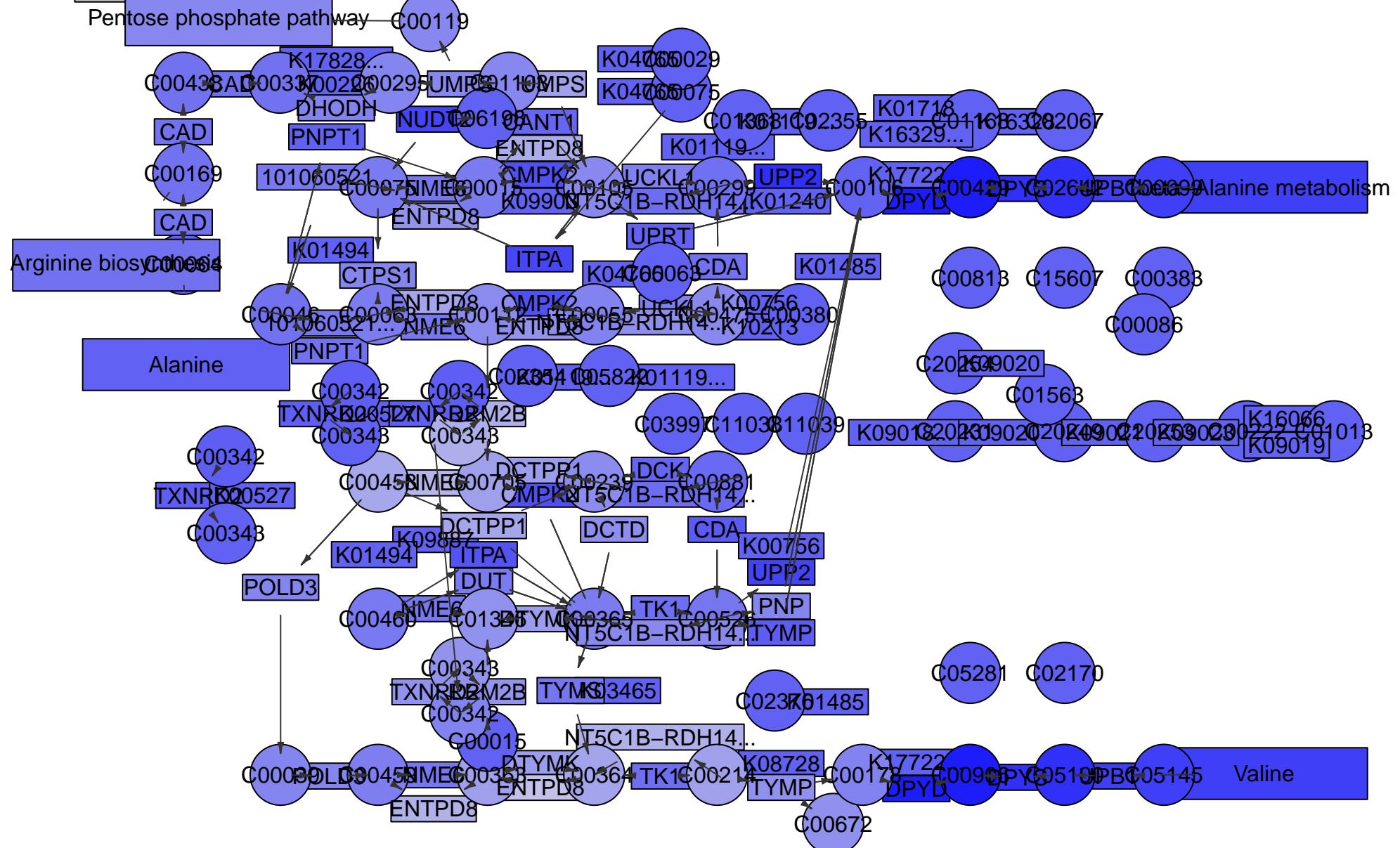




Pyrimidine metabolism
MPI-246

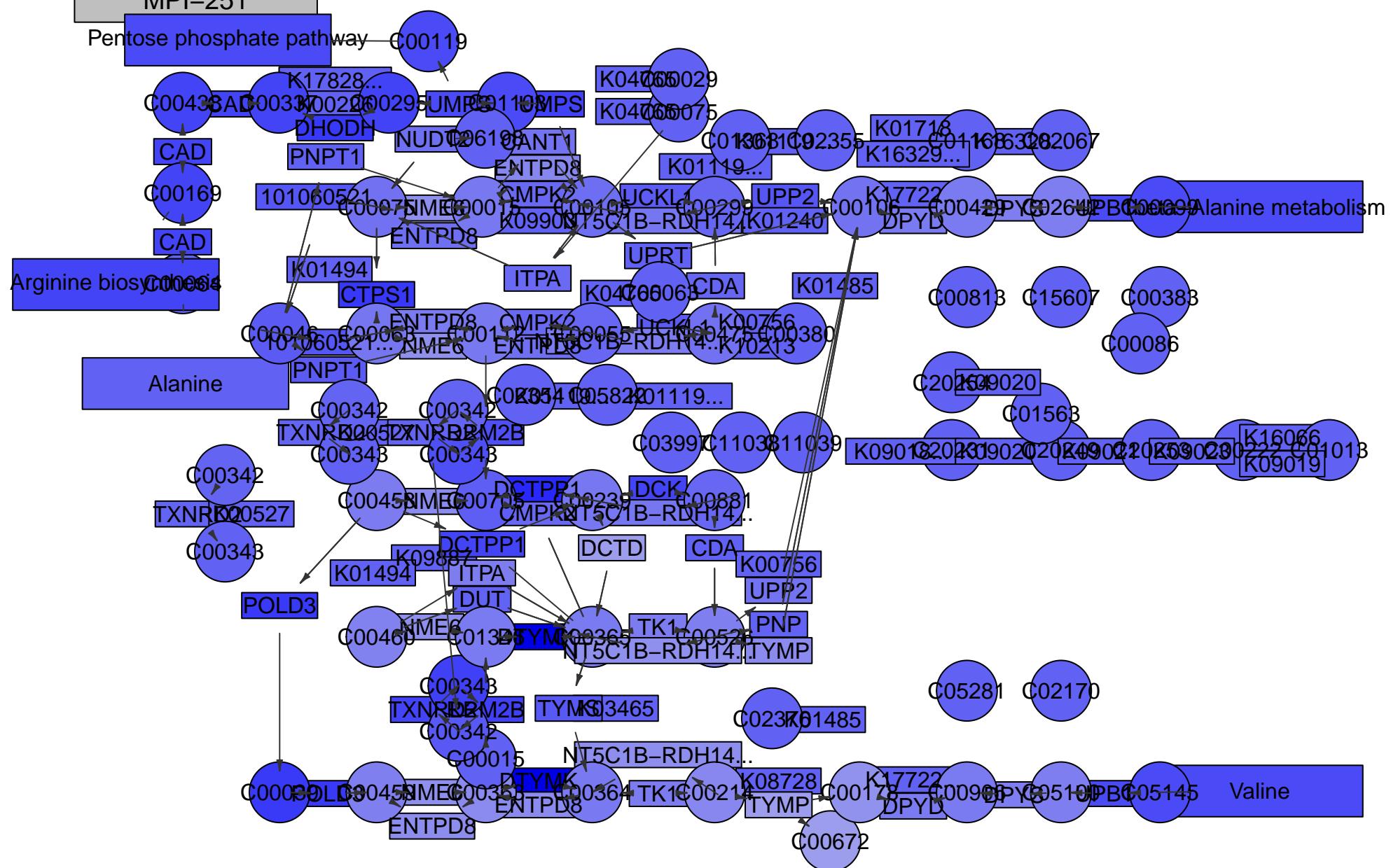


Pyrimidine metabolism
MPI-247



Pyrimidine metabolism

MPI-251



Pyrimidine metabolism
MPI-255

