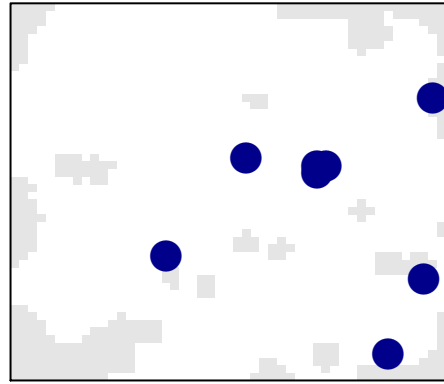
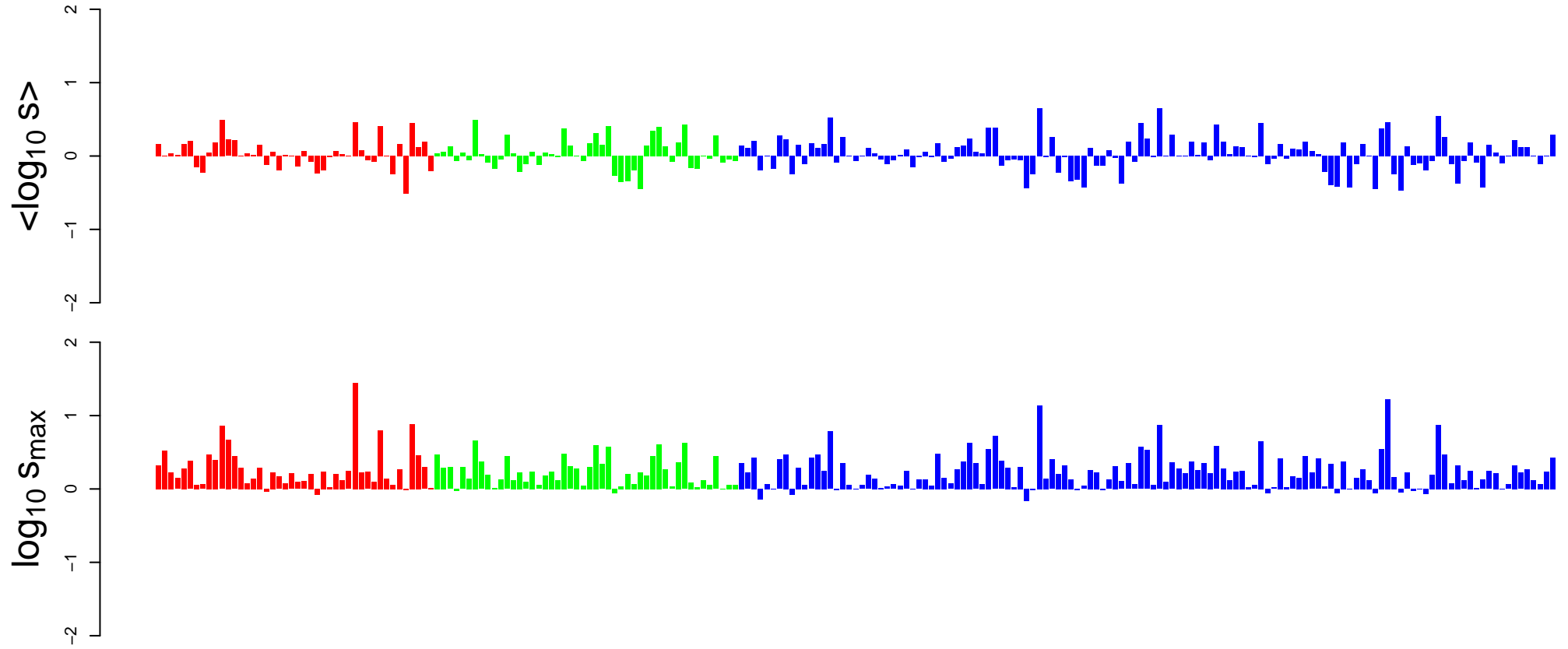


Caffeine metabolism

all genes



maximum = 1



Caffeine metabolism
(genes with data)

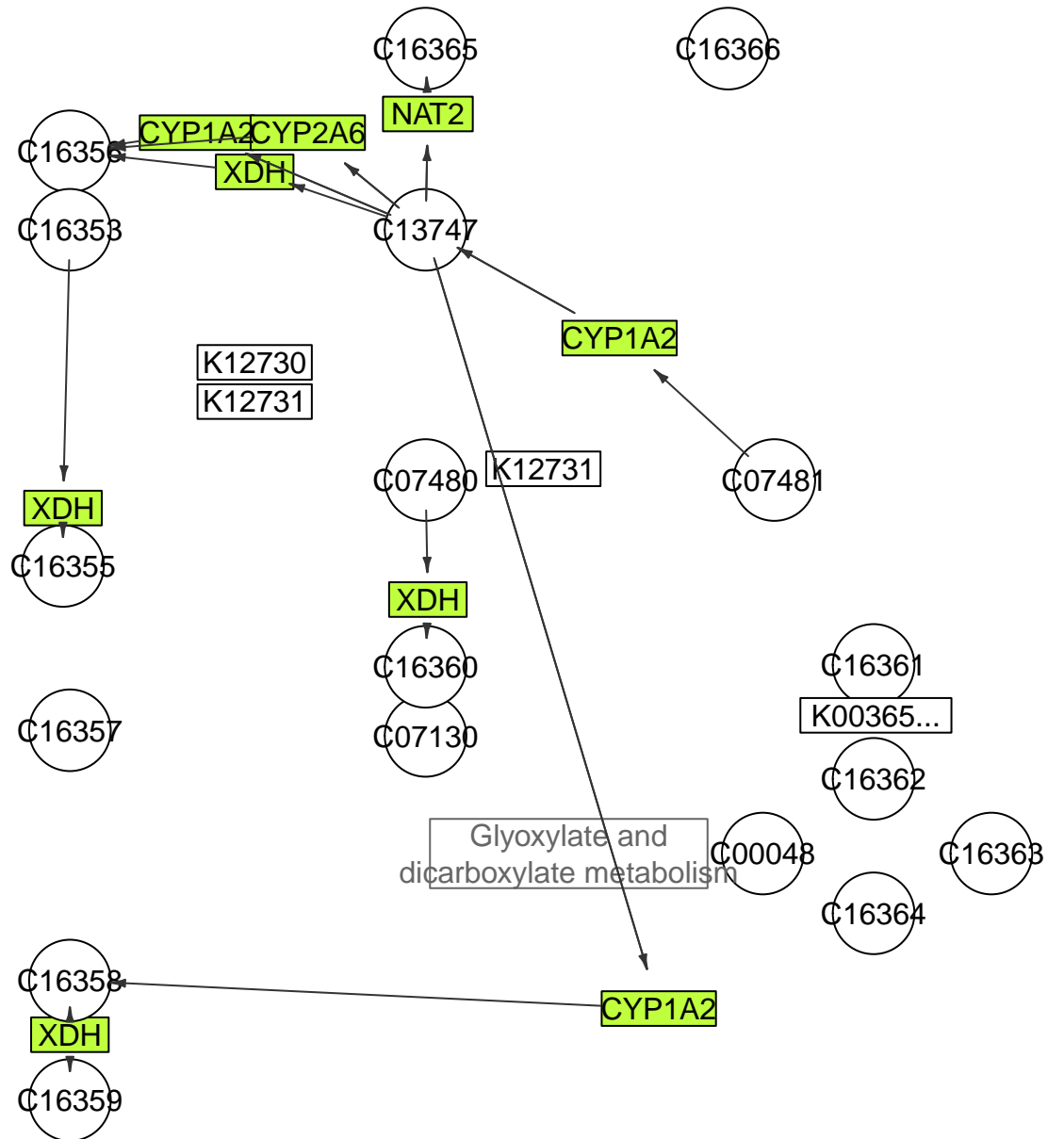
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-001

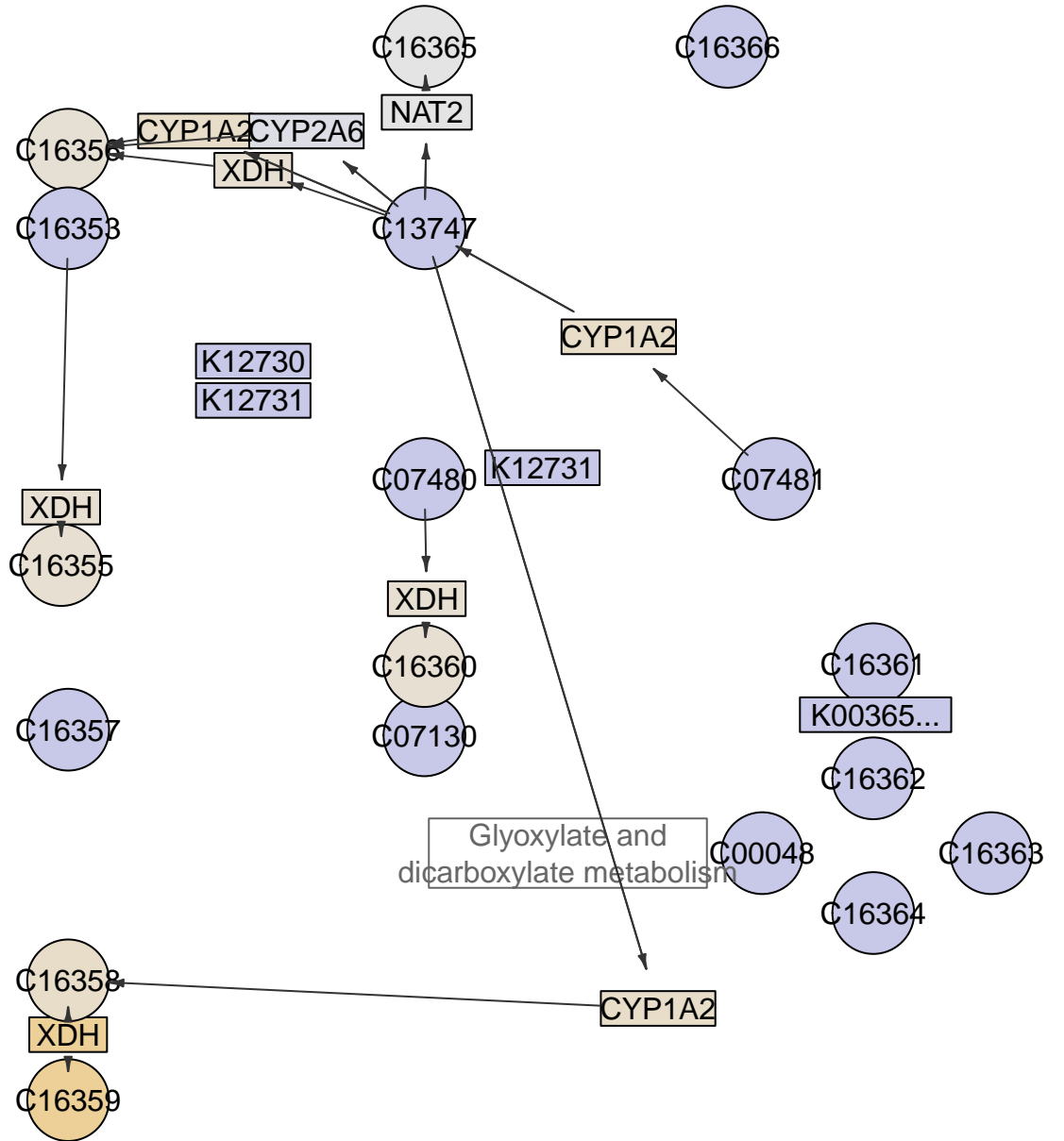
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-005

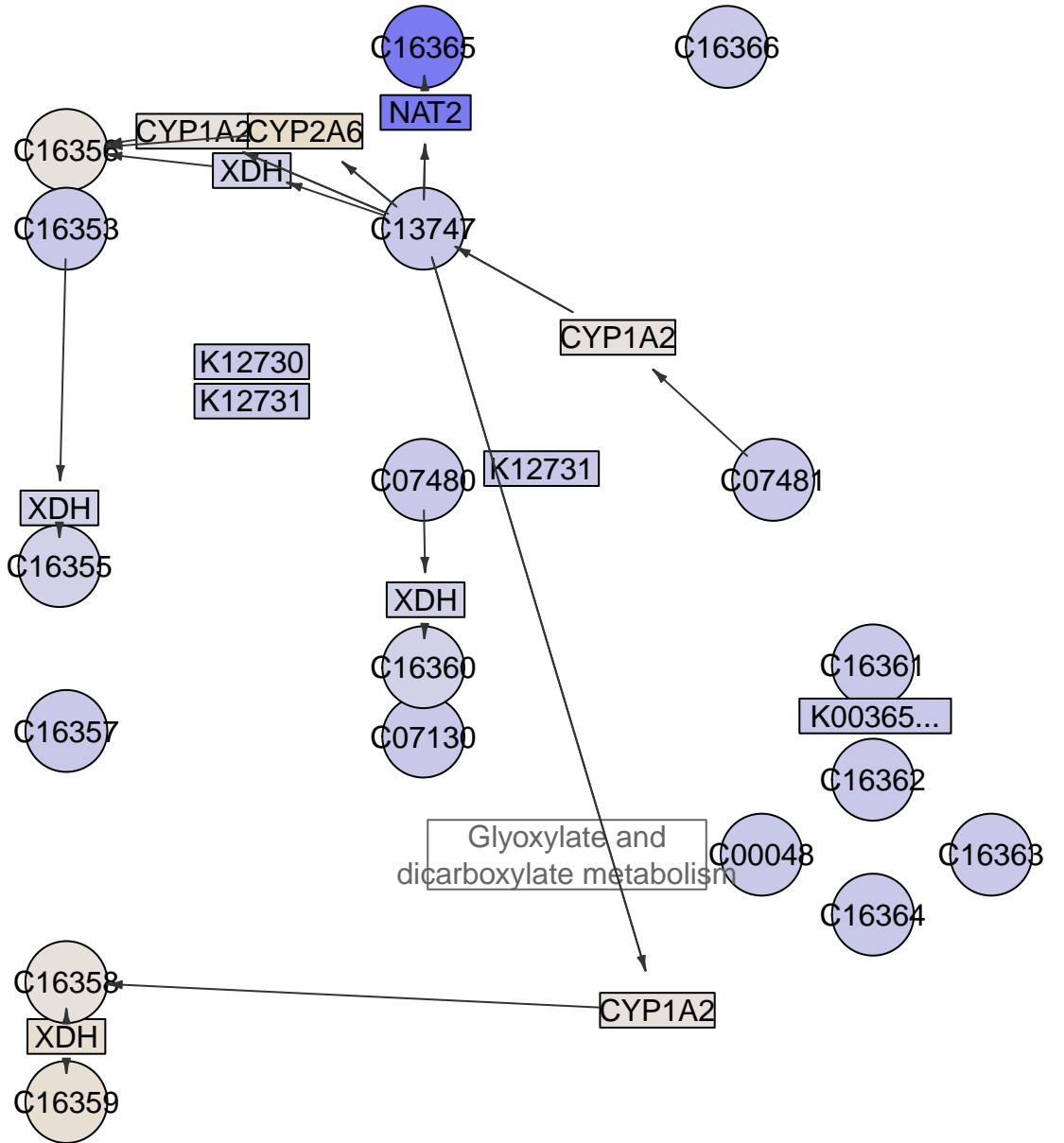
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-006

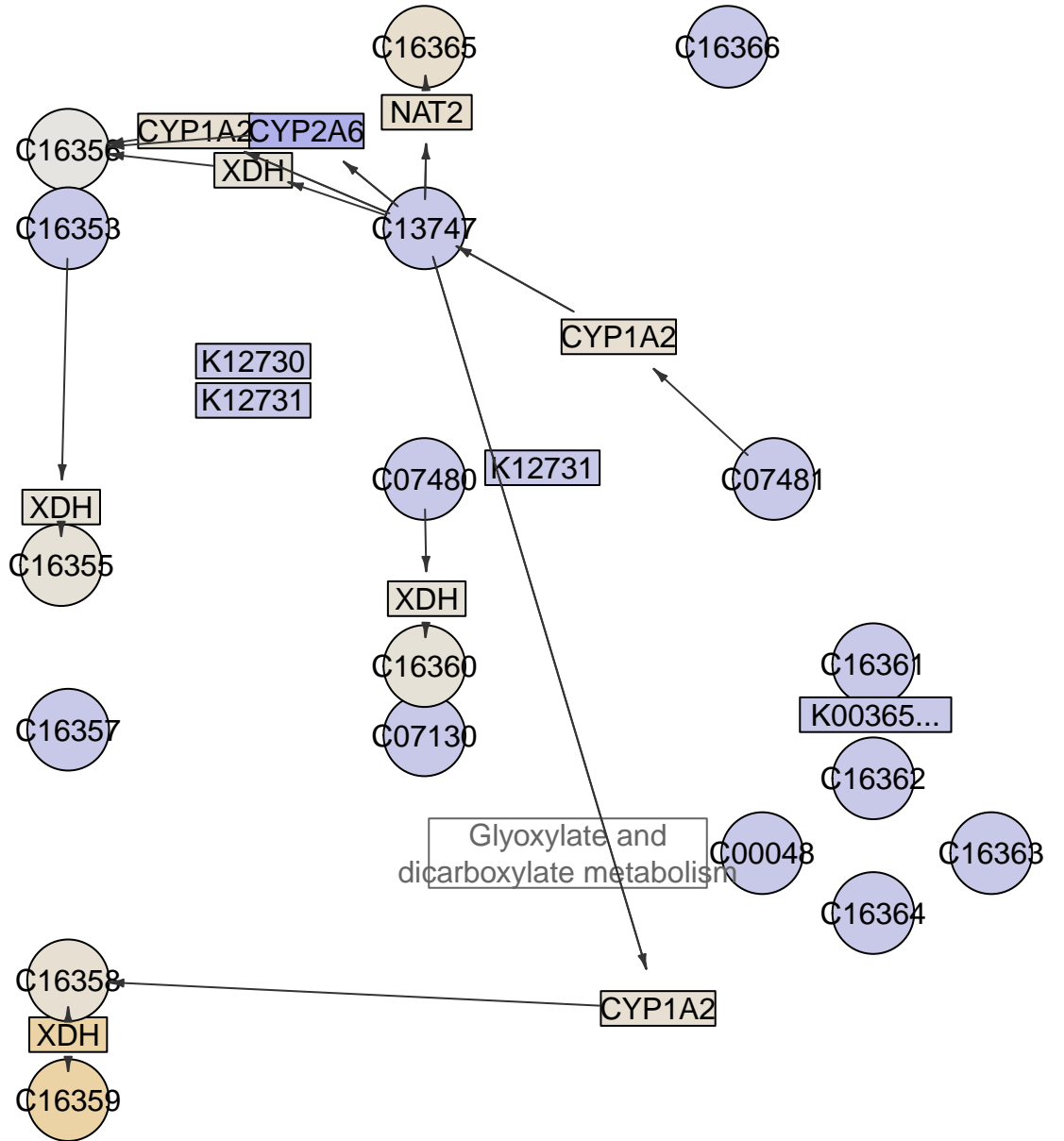
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-016

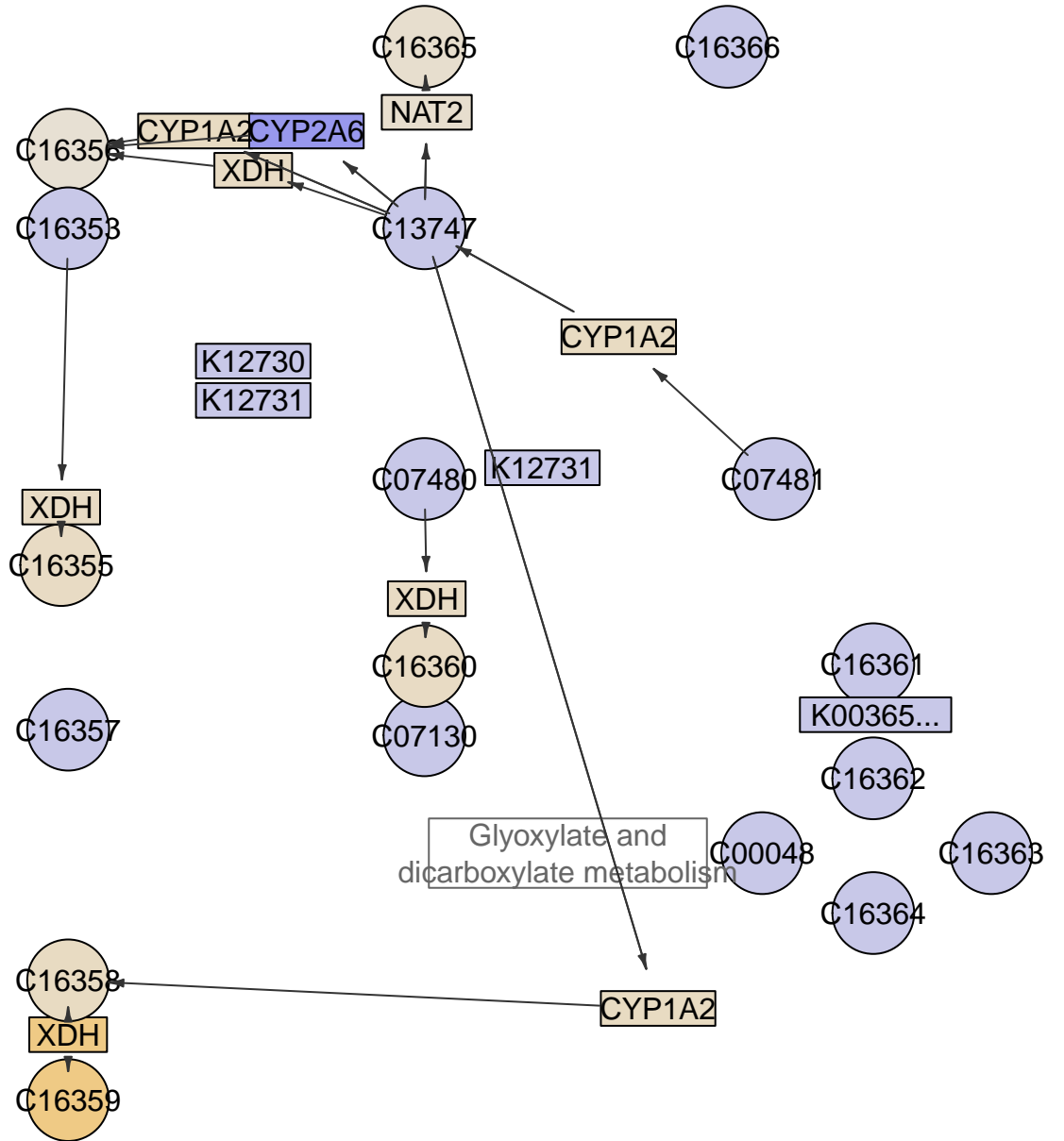
C01762

K12729

C16352

Purine metabolism

C00385

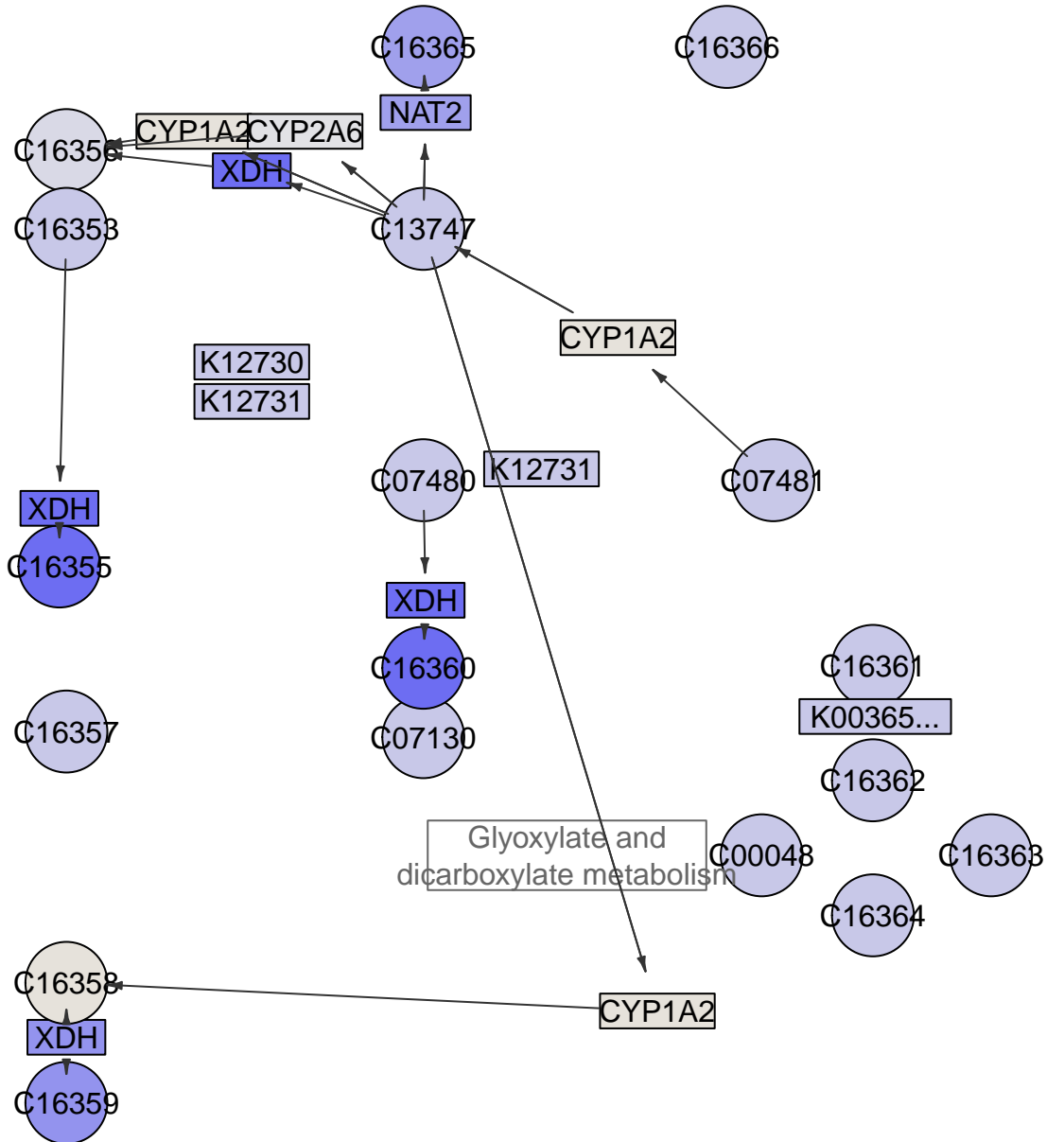


Caffeine metabolism
MPI-017

C01762

K12729

C16352



Purine metabolism

C00385

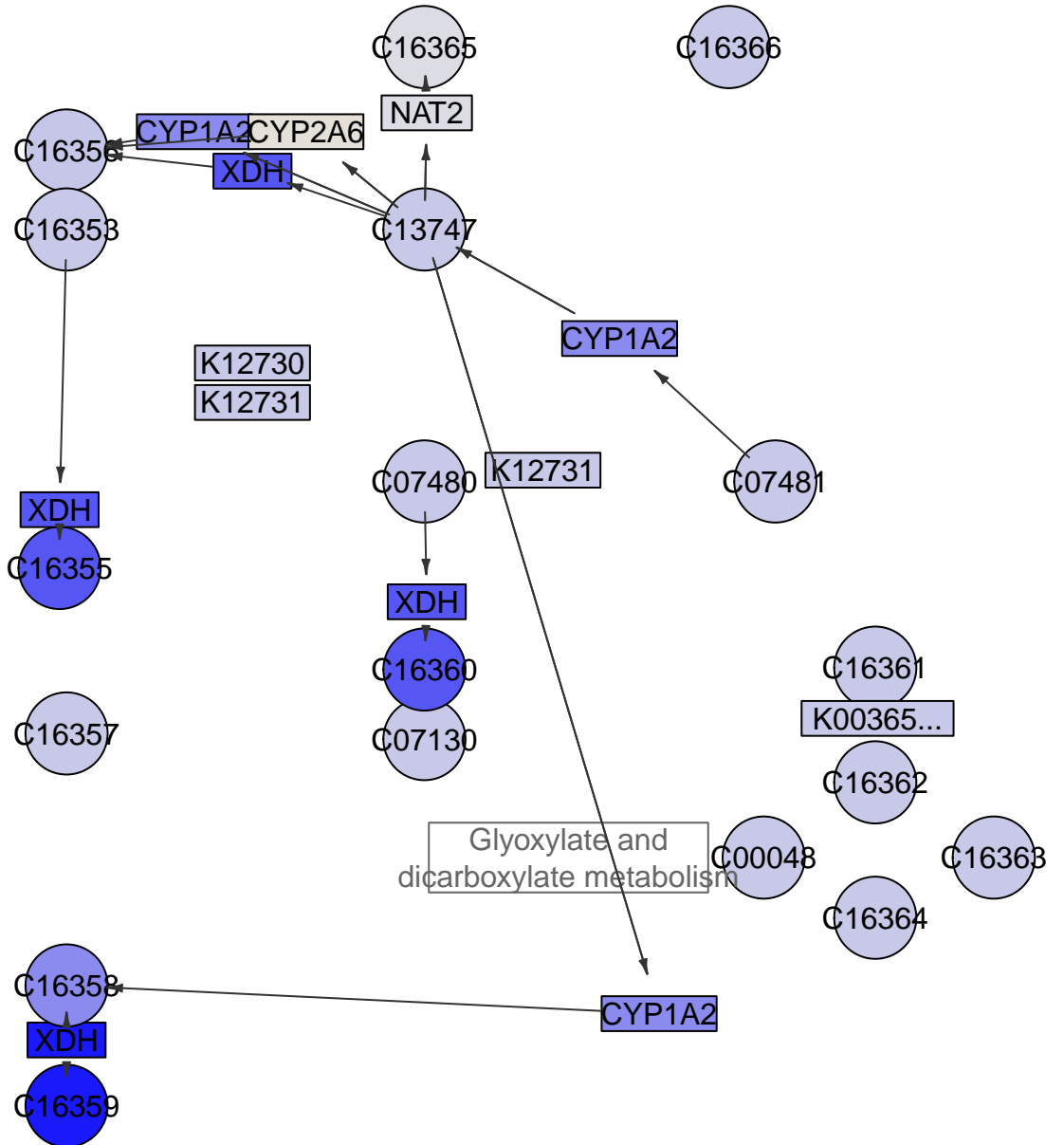
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-018

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-028

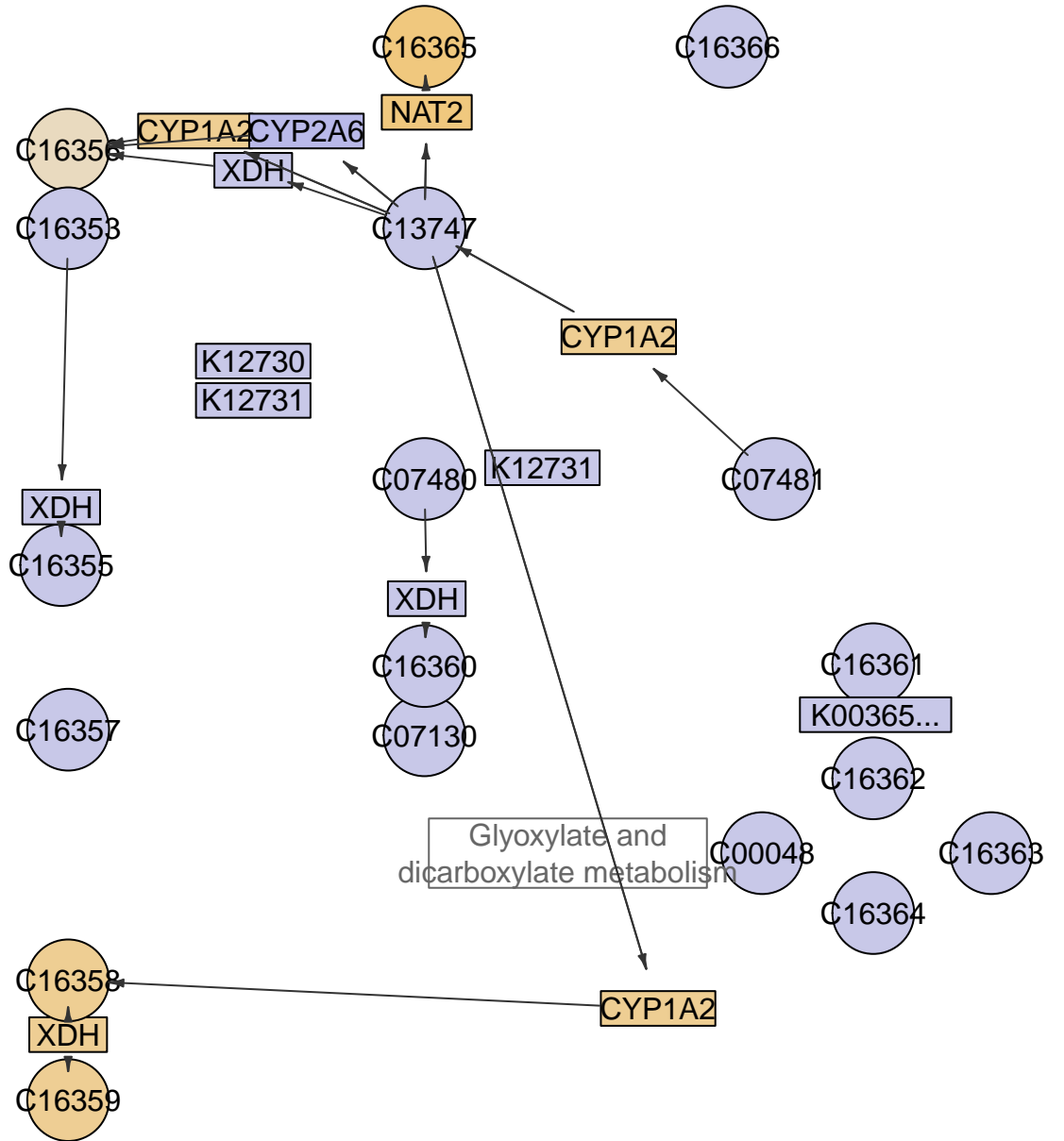
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-034

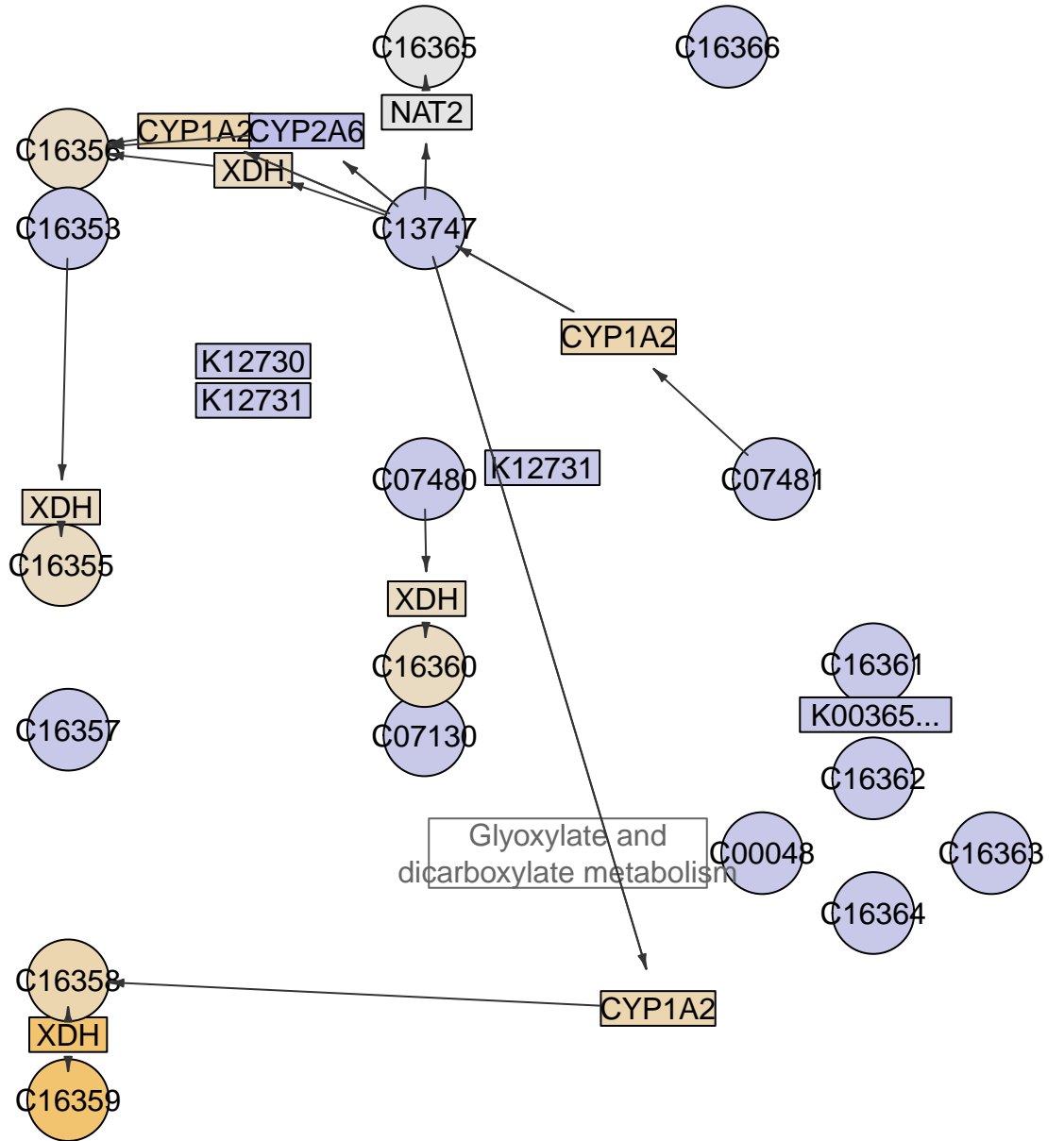
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-043

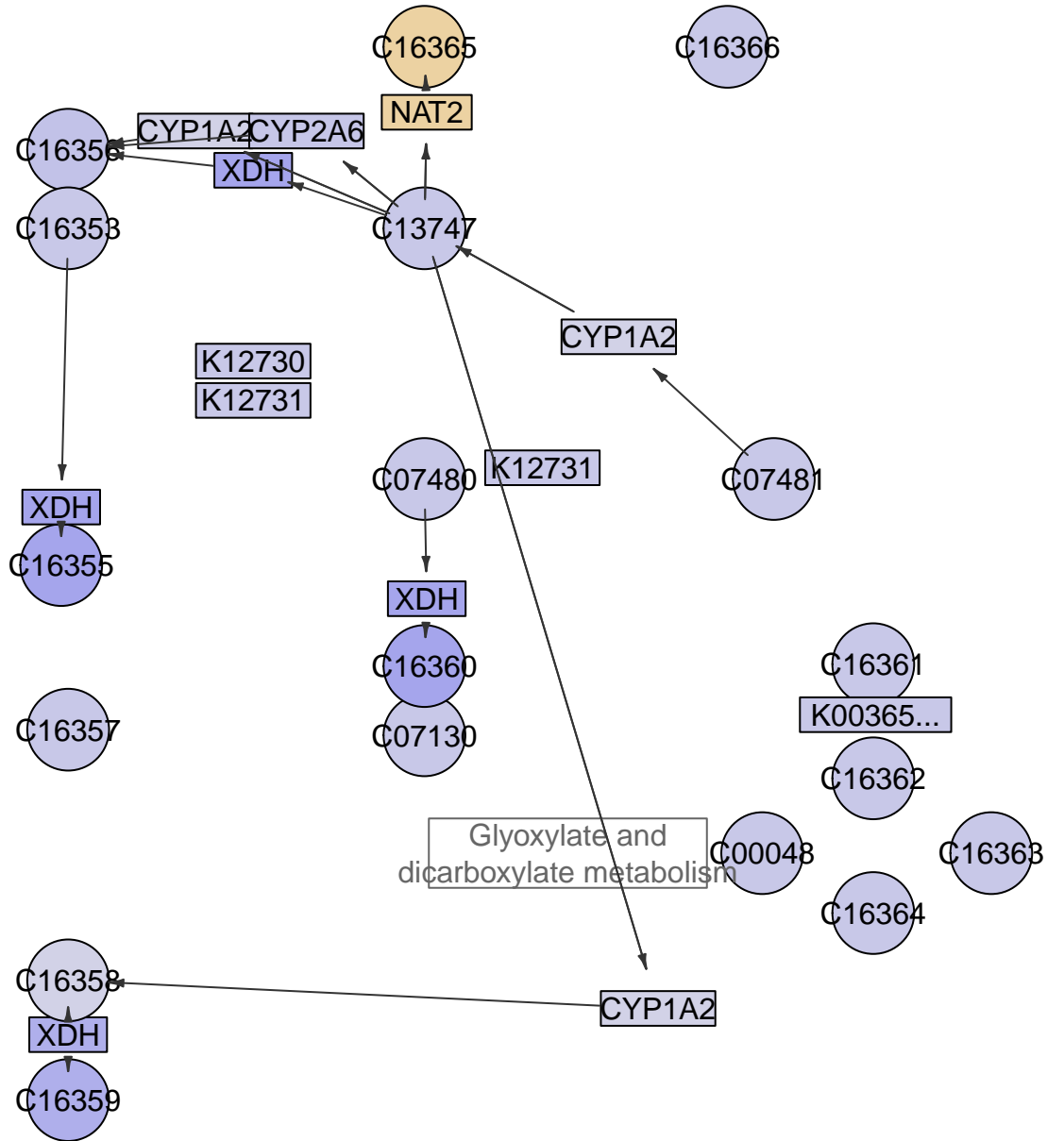
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-048

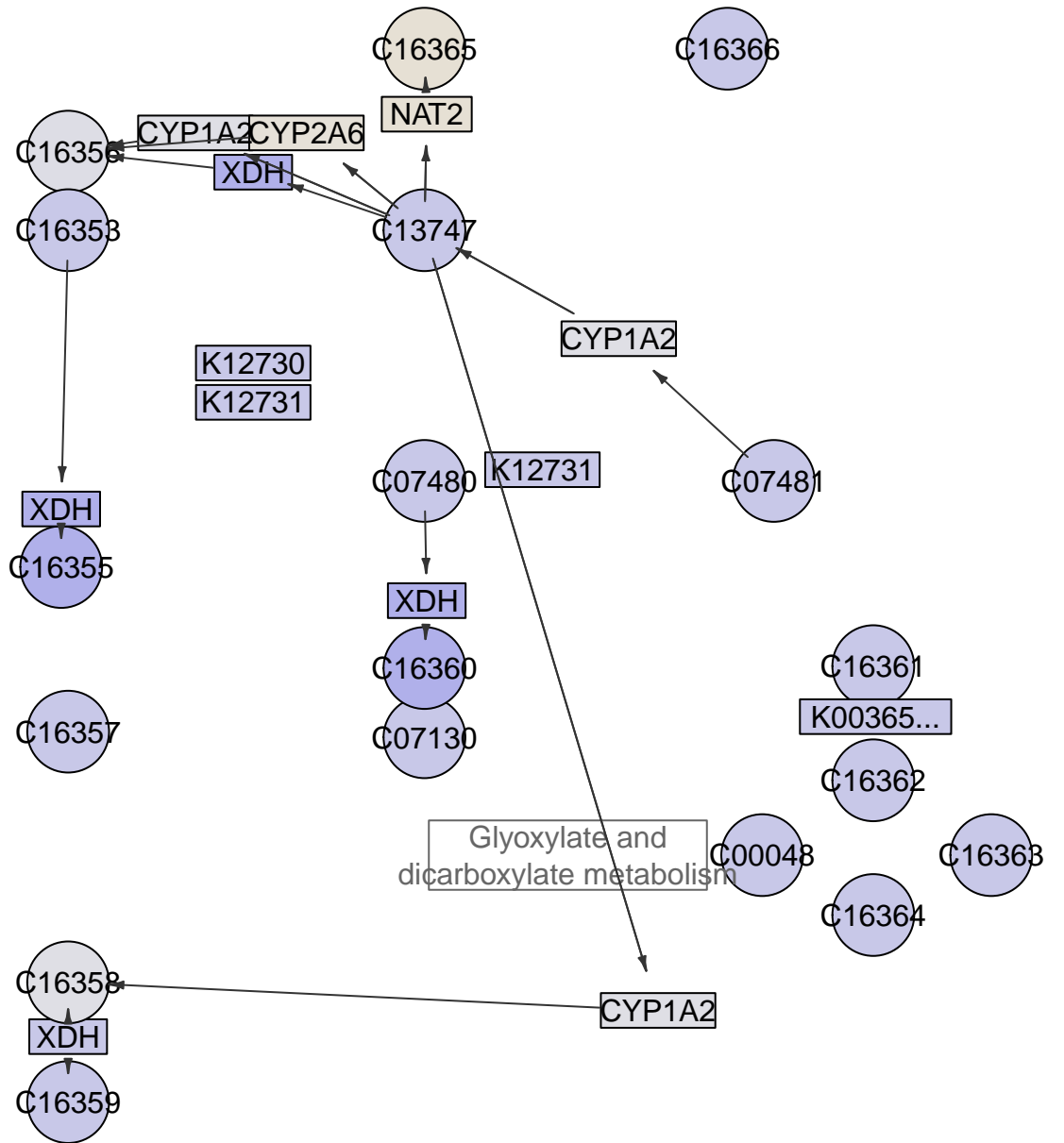
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-055

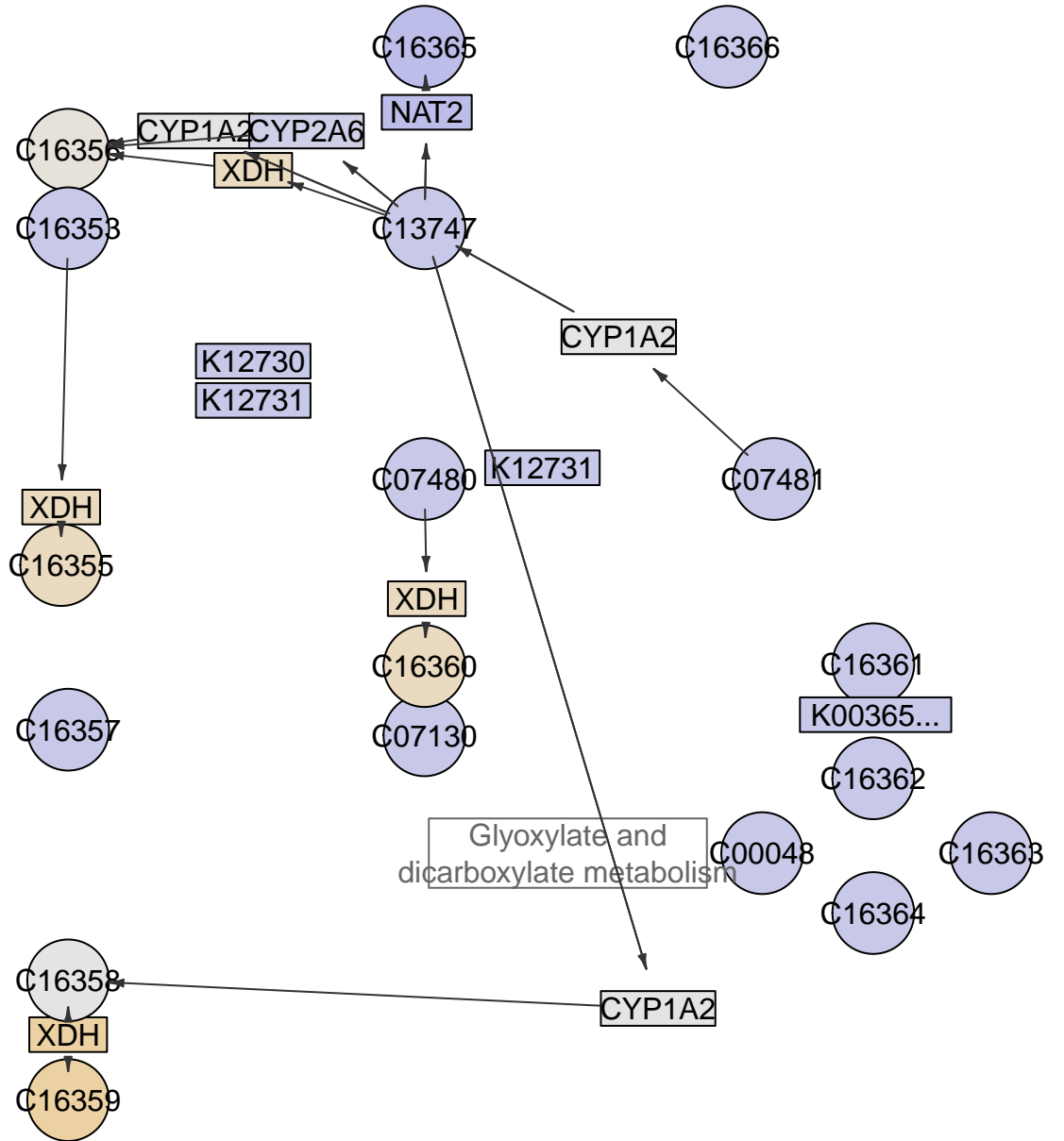
C01762

K12729

C16352

Purine metabolism

C00385

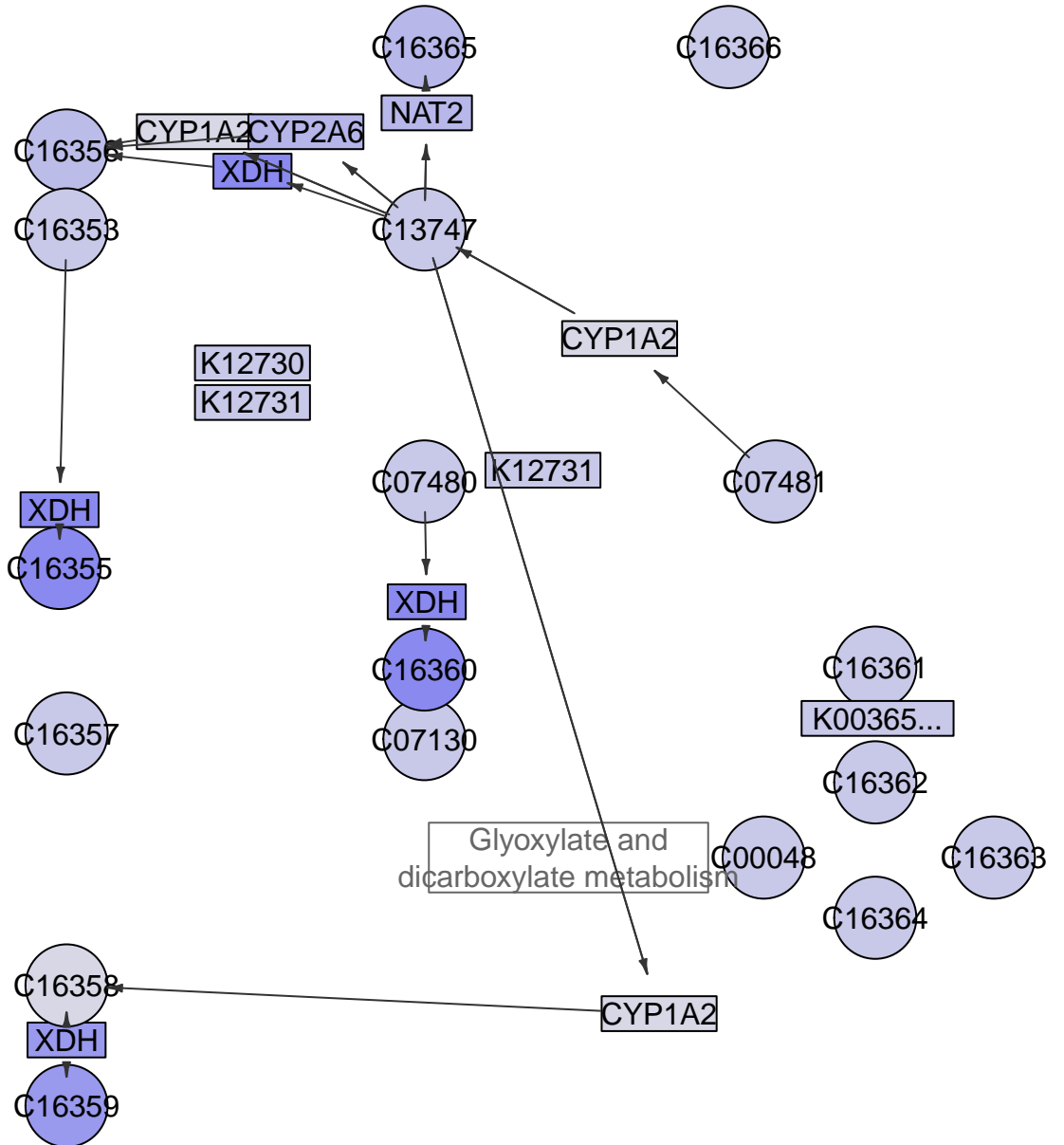


Caffeine metabolism
MPI-065

C01762

K12729

C16352



Purine metabolism

C00385

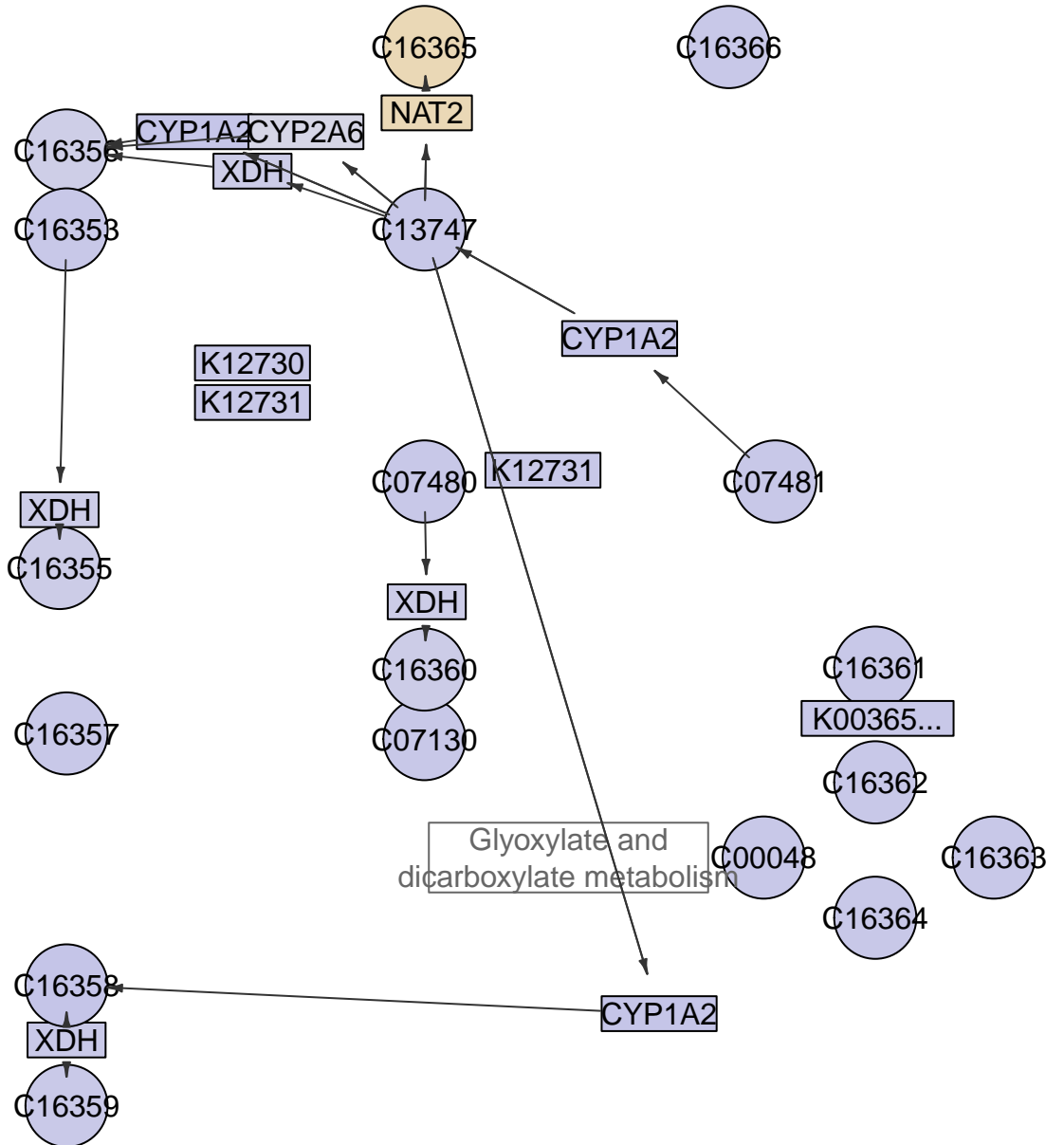
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-071

C01762

K12729

C16352



Purine metabolism

C00385

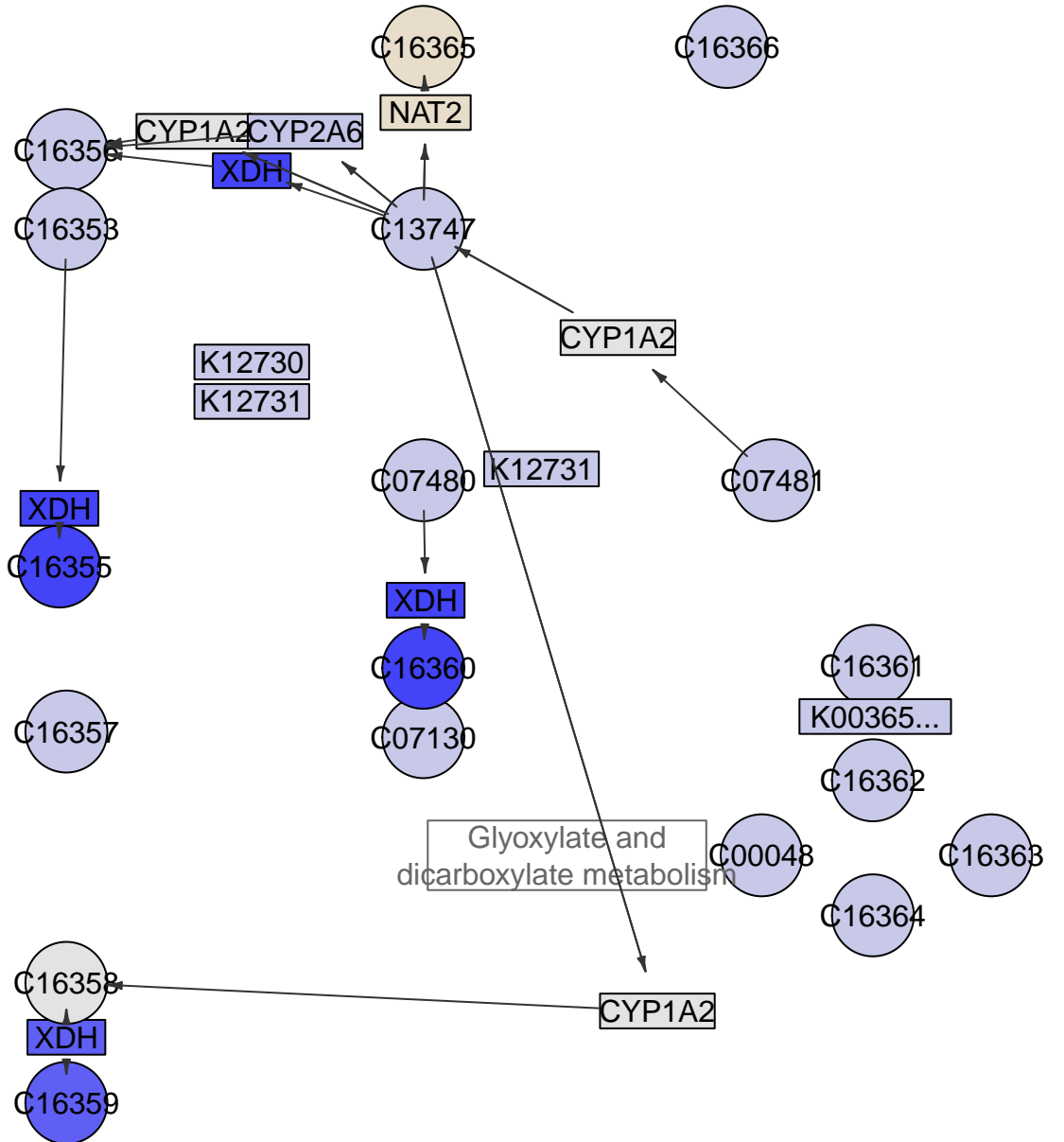
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-075

C01762

K12729

C16352



Purine metabolism

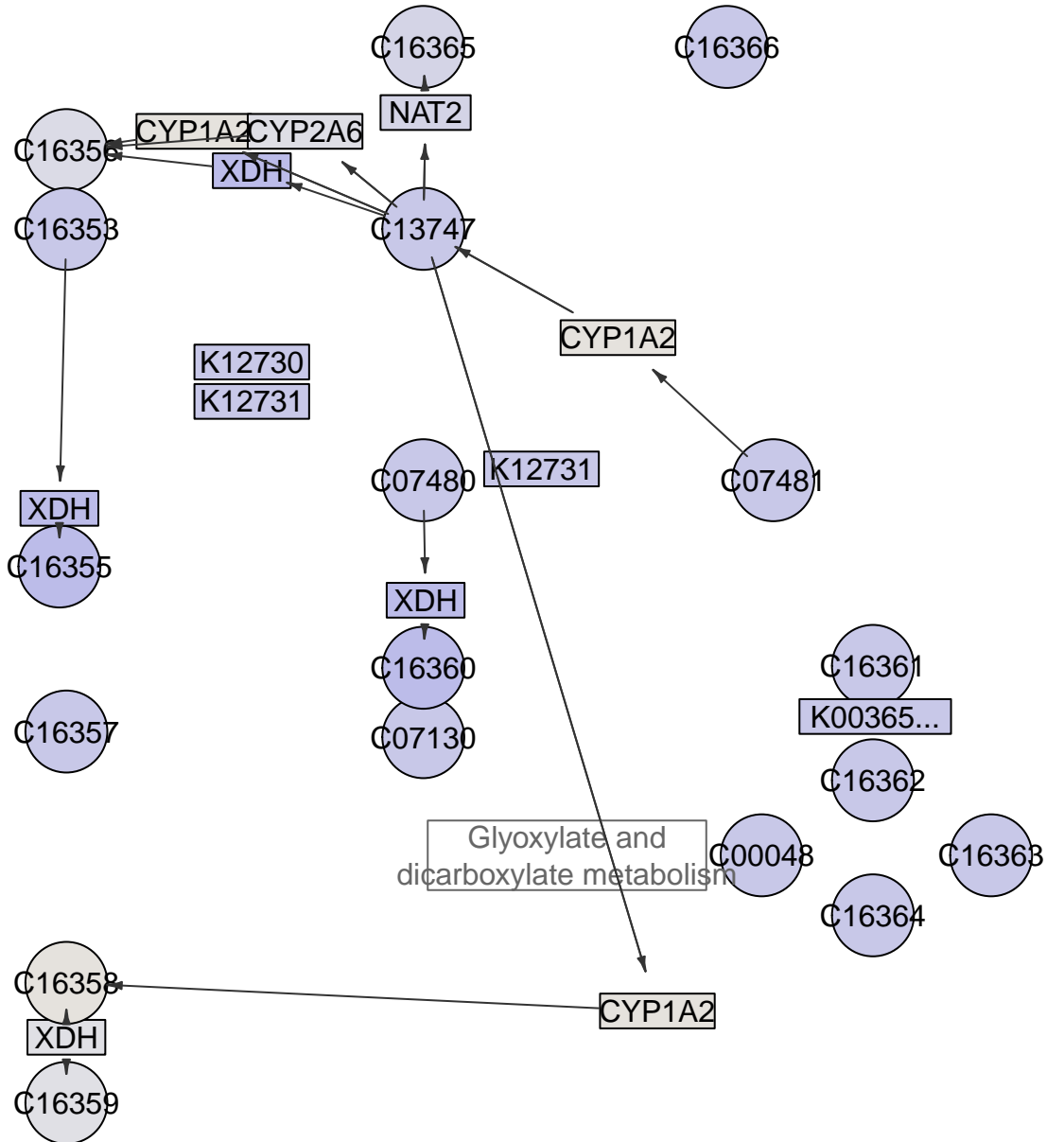
Glyoxylate and dicarboxylate metabolism

Caffeine metabolism
MPI-077

C01762

K12729

C16352



Purine metabolism

C00385

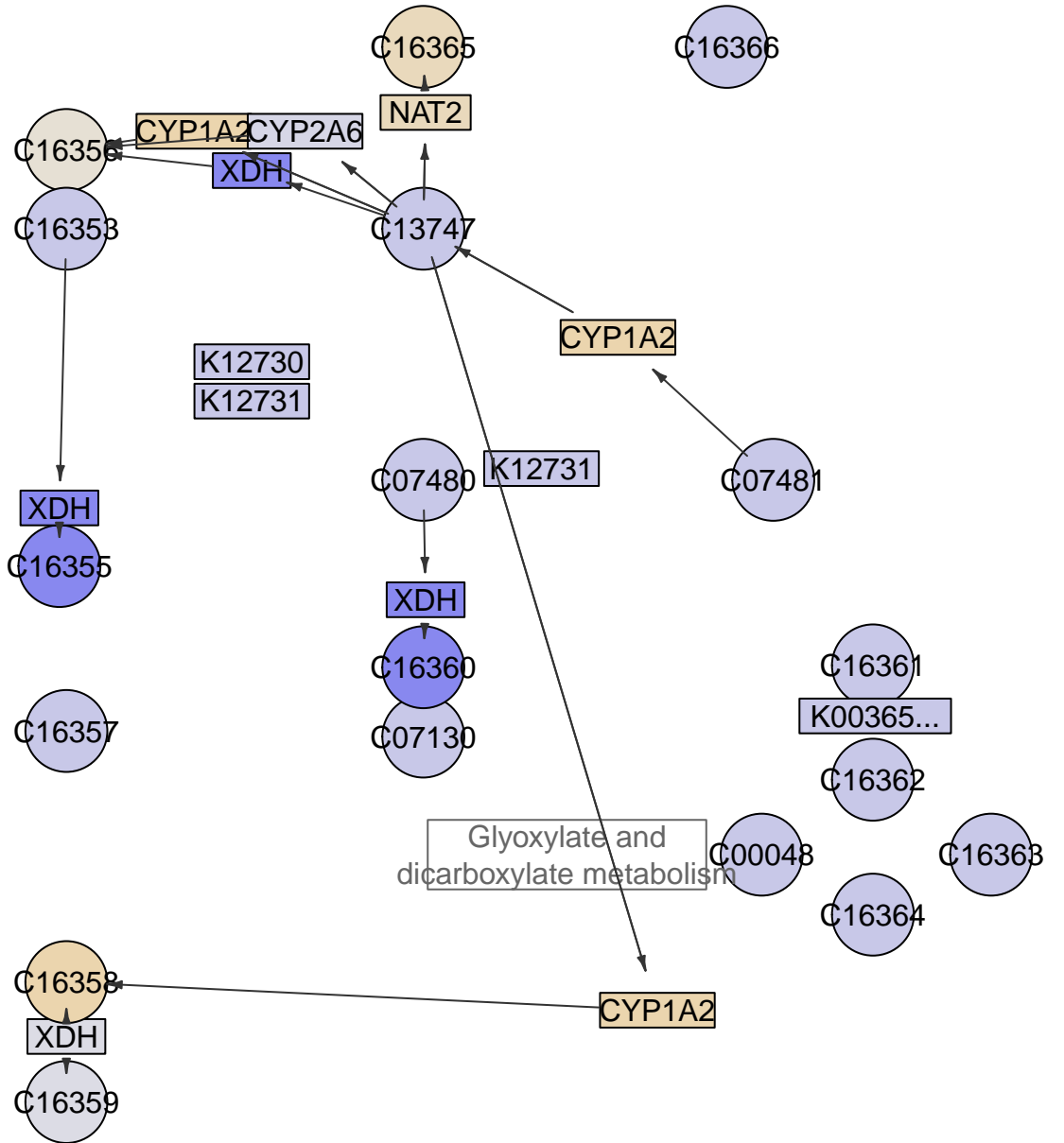
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-078

C01762

K12729

C16352



Purine metabolism

Glyoxylate and
dicarboxylate metabolism

C00385

C16358

XDH

C16359

C16355

XDH

C16353

XDH

C16355

XDH

C16357

XDH

C16360

XDH

C07130

XDH

C16361

XDH

C16362

XDH

C16363

XDH

C16364

XDH

C16365

XDH

C16366

XDH

C16358

XDH

C16359

XDH

C16355

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C16353

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C16355

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C16353

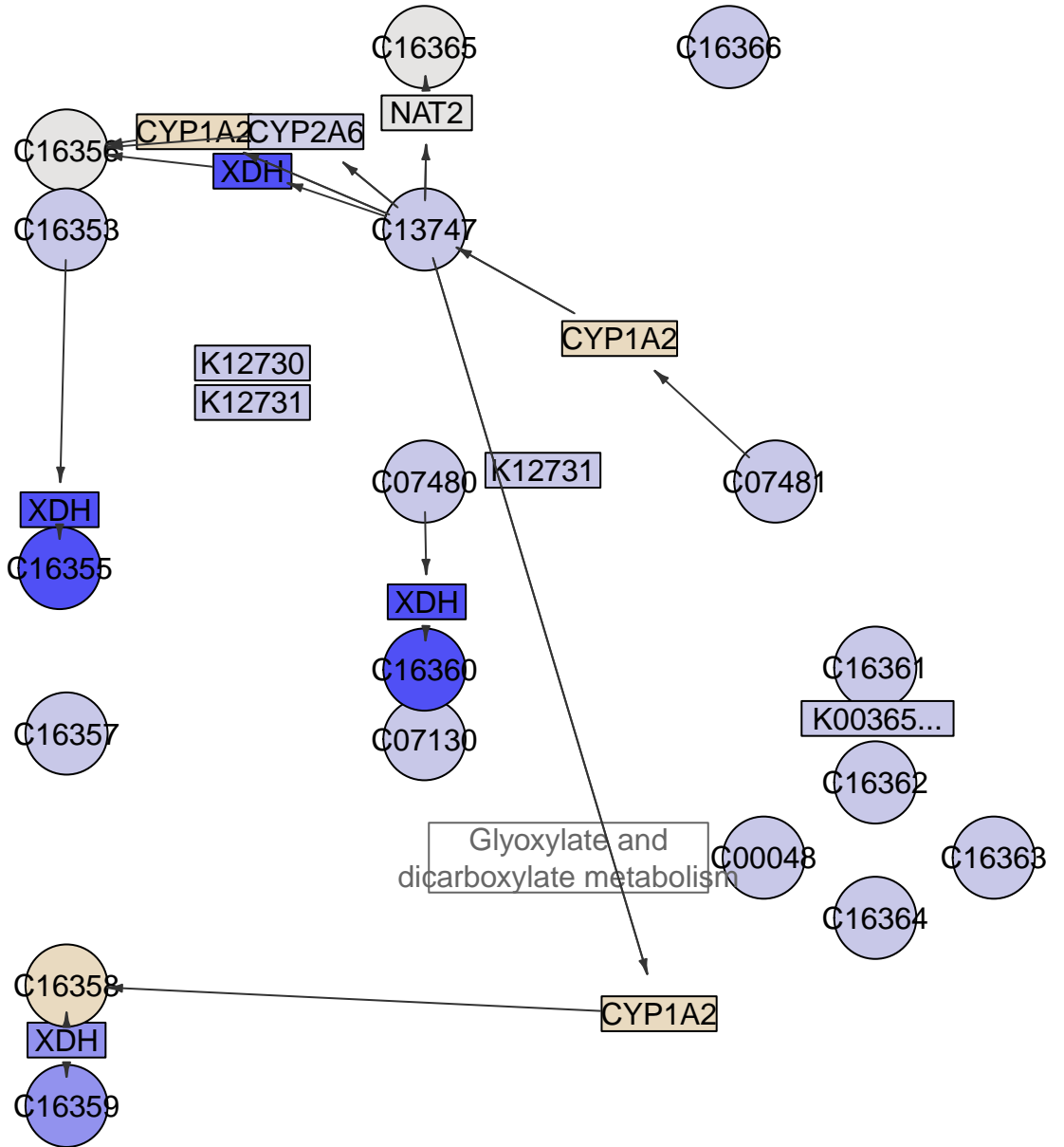
XDH

Caffeine metabolism
MPI-079

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-080

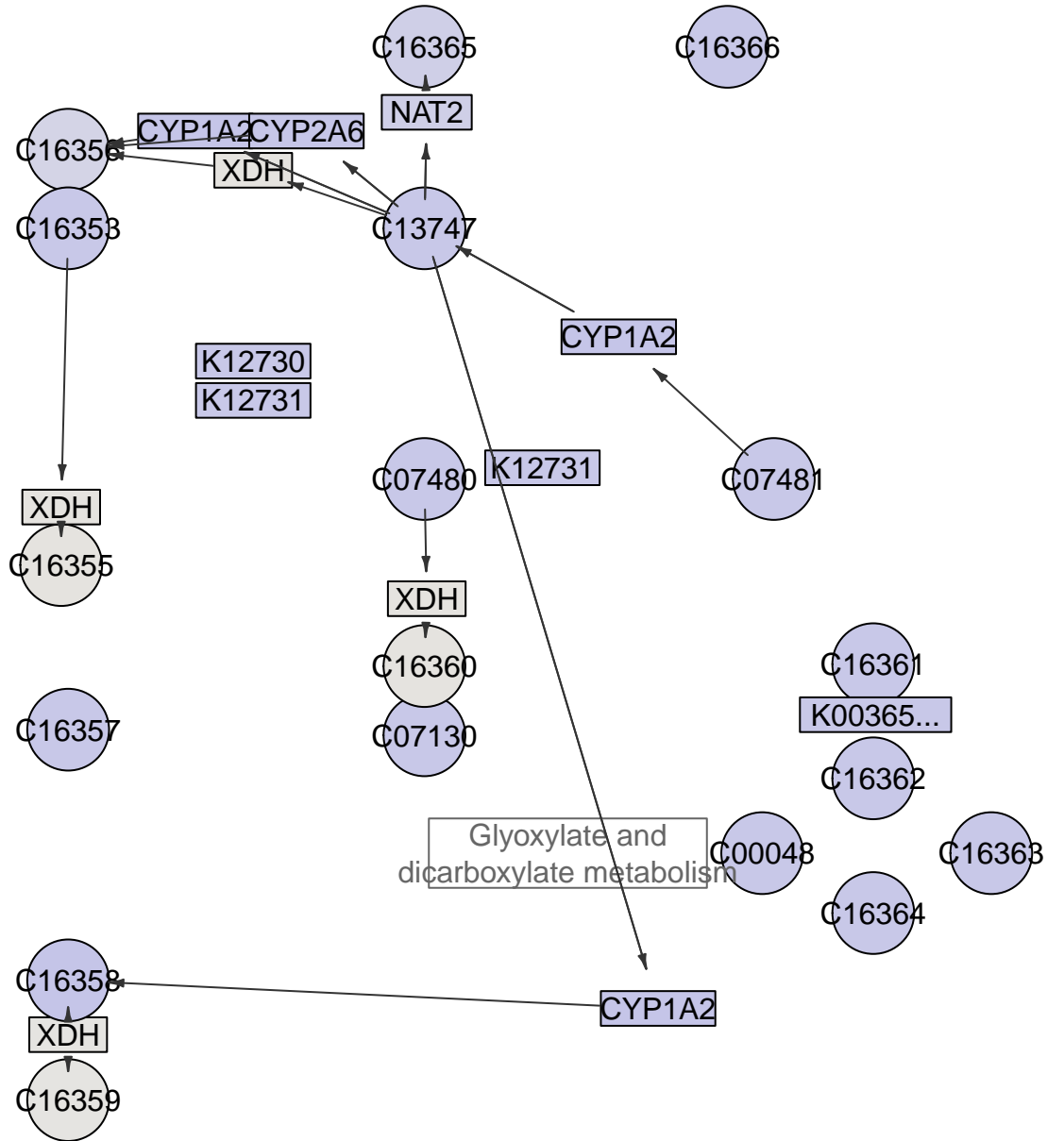
C01762

K12729

C16352

Purine metabolism

C00385

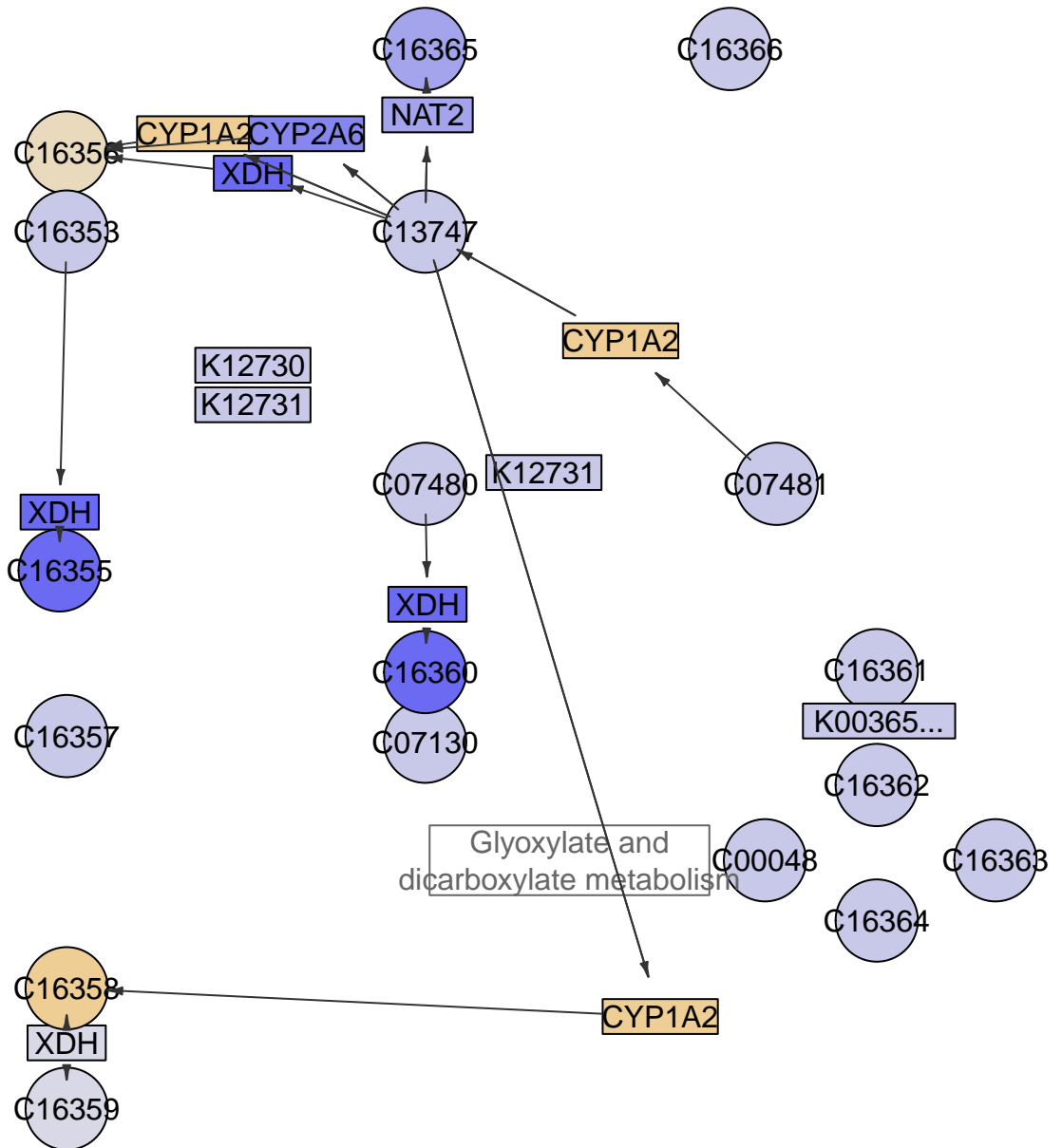


Caffeine metabolism
MPI-081

C01762

K12729

C16352



Purine metabolism

C00385

Caffeine metabolism
MPI-082

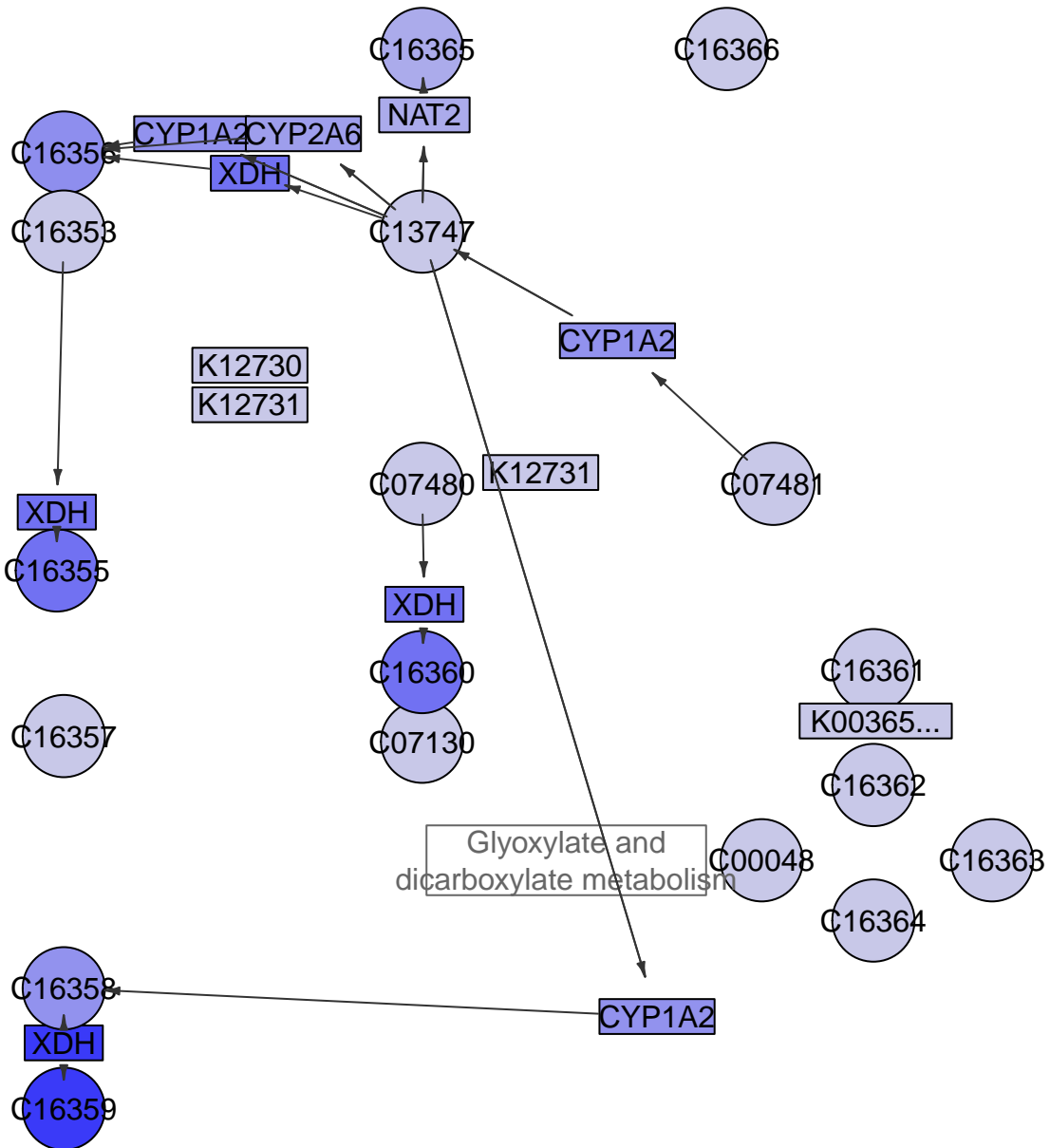
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-085

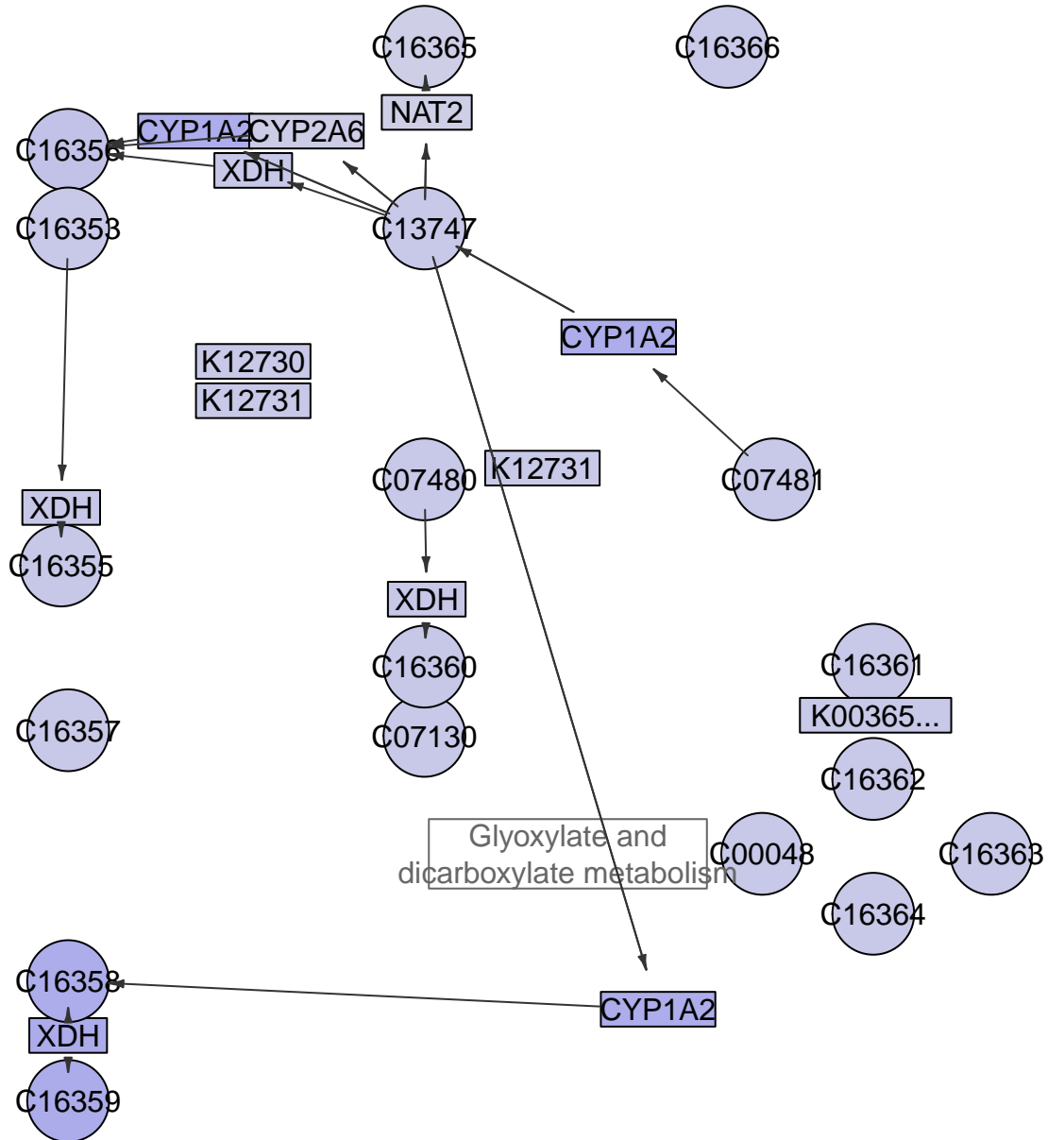
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-086

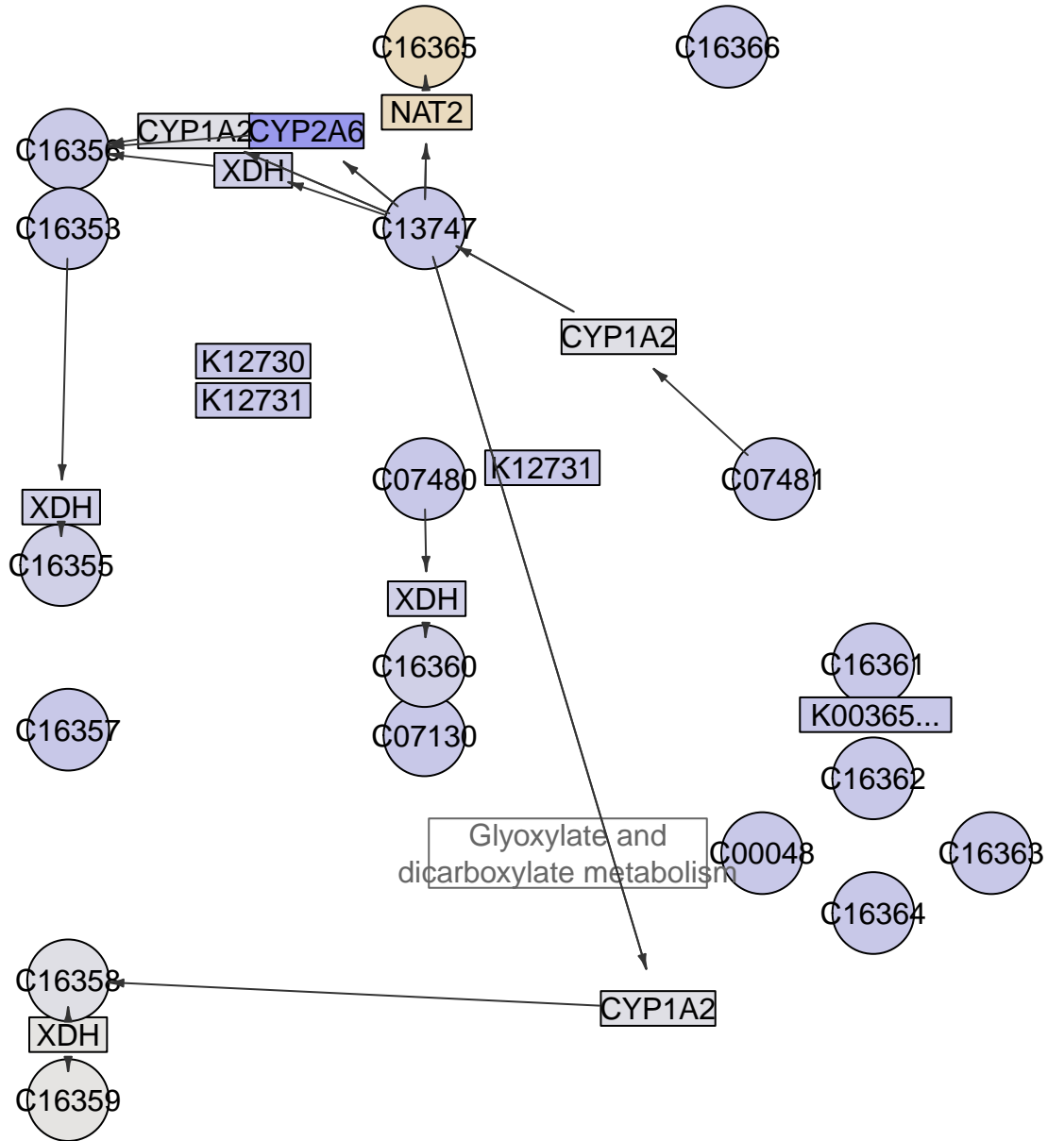
C01762

K12729

C16352

Purine metabolism

C00385

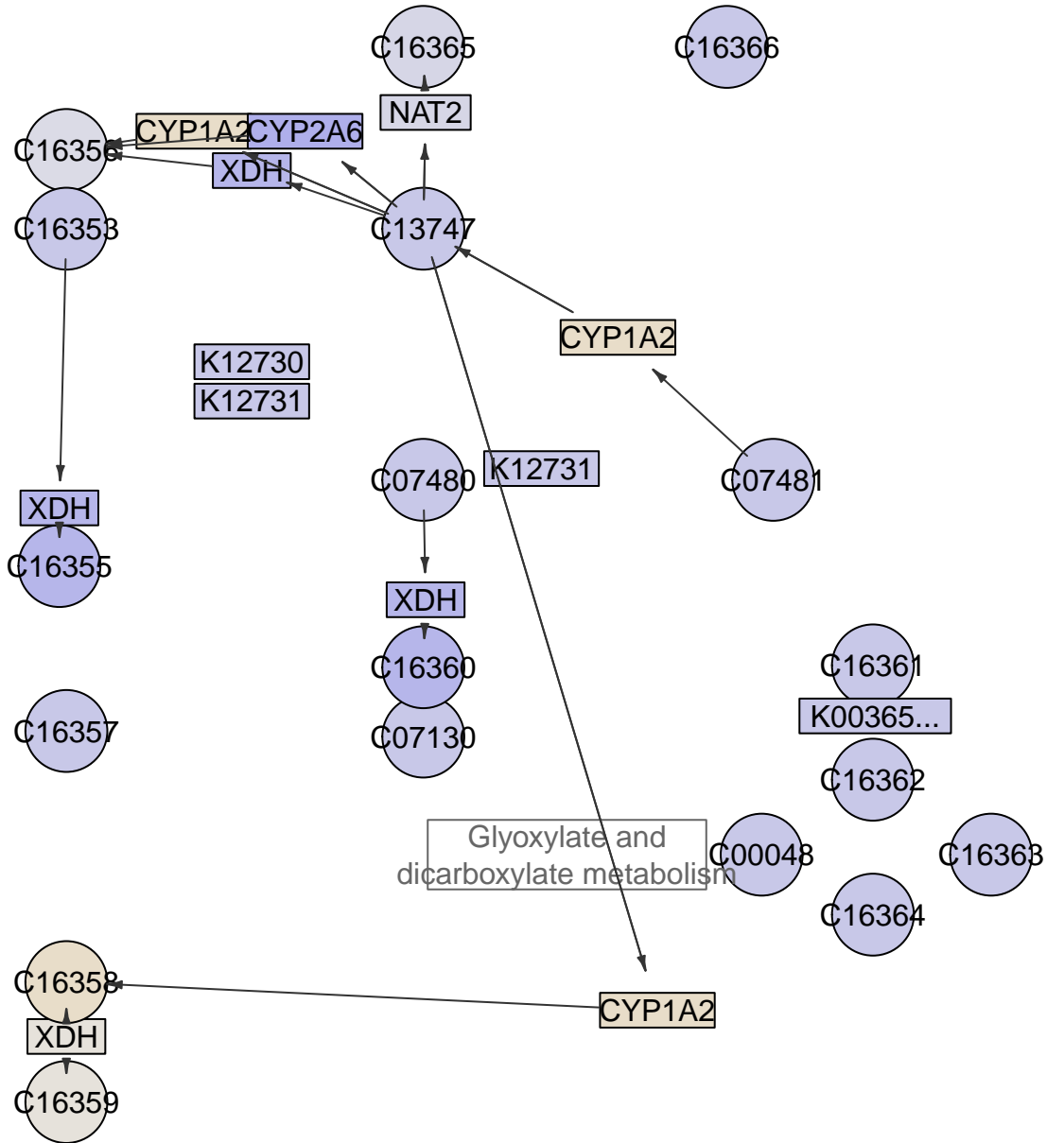


Caffeine metabolism
MPI-087

C01762

K12729

C16352



Purine metabolism

C00385

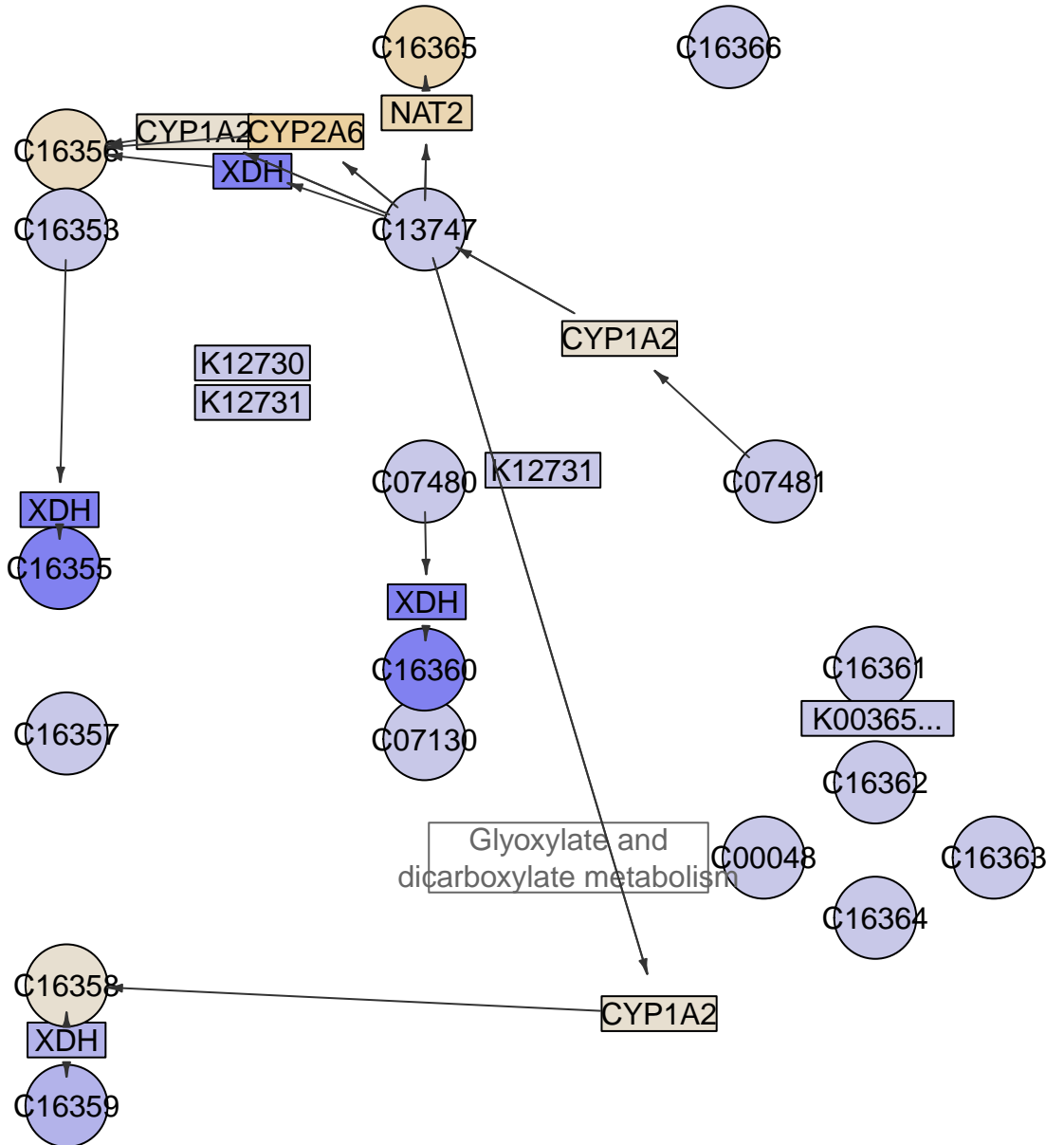
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-089

C01762

K12729

C16352



Purine metabolism

C00385

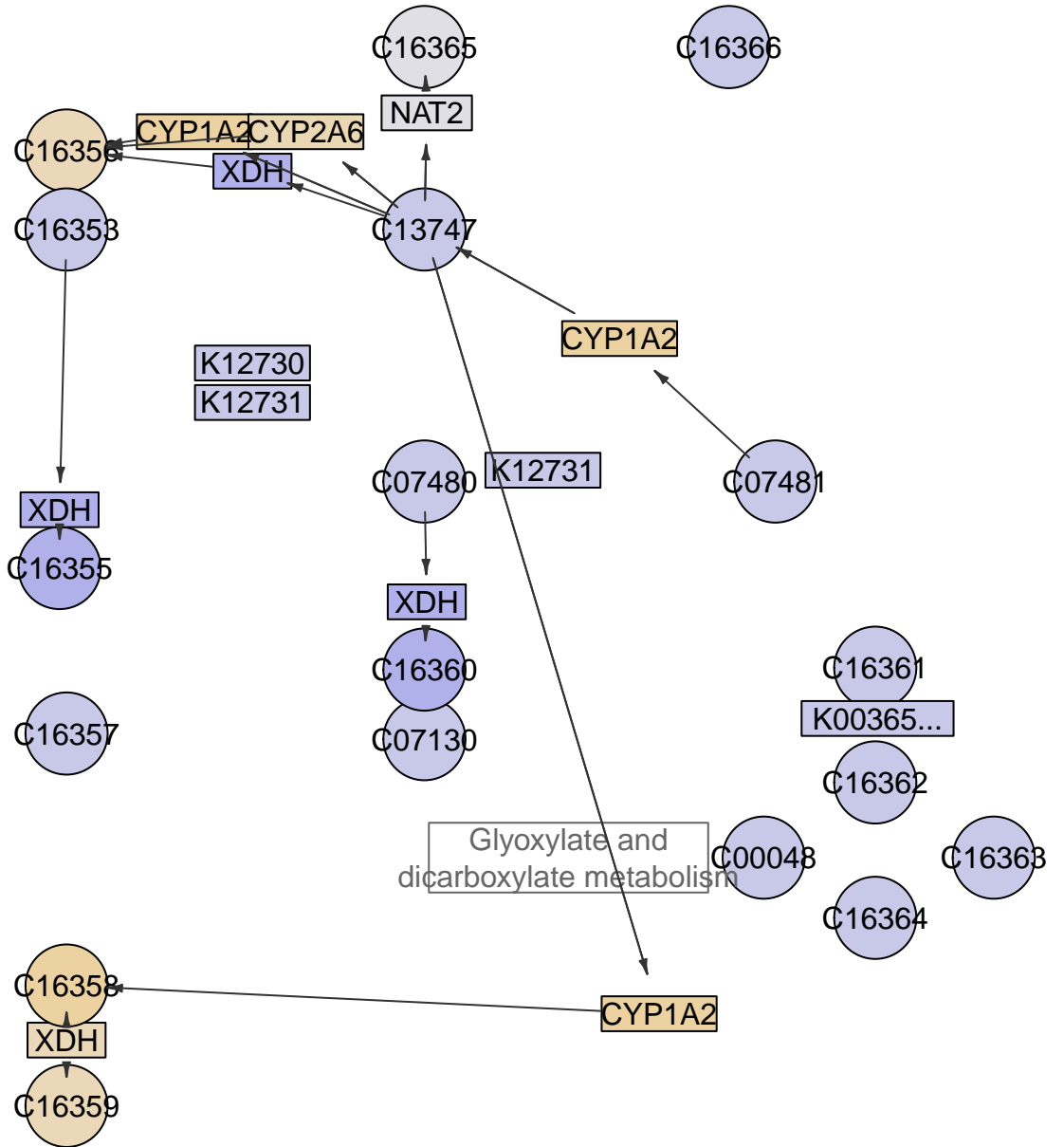
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-091

C01762

K12729

C16352



Purine metabolism

C00385

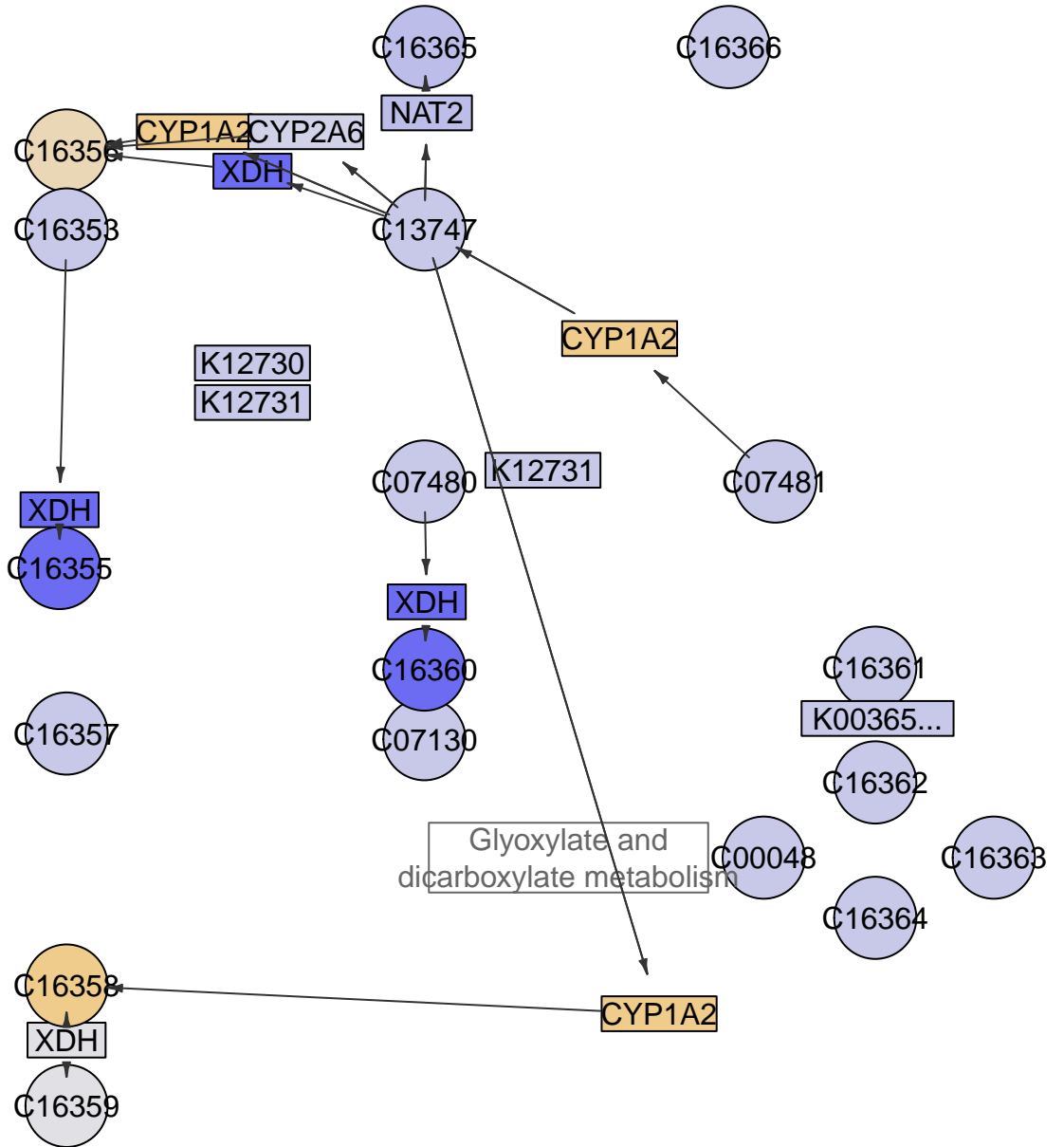
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-095

C01762

K12729

C16352



Purine metabolism

C00385

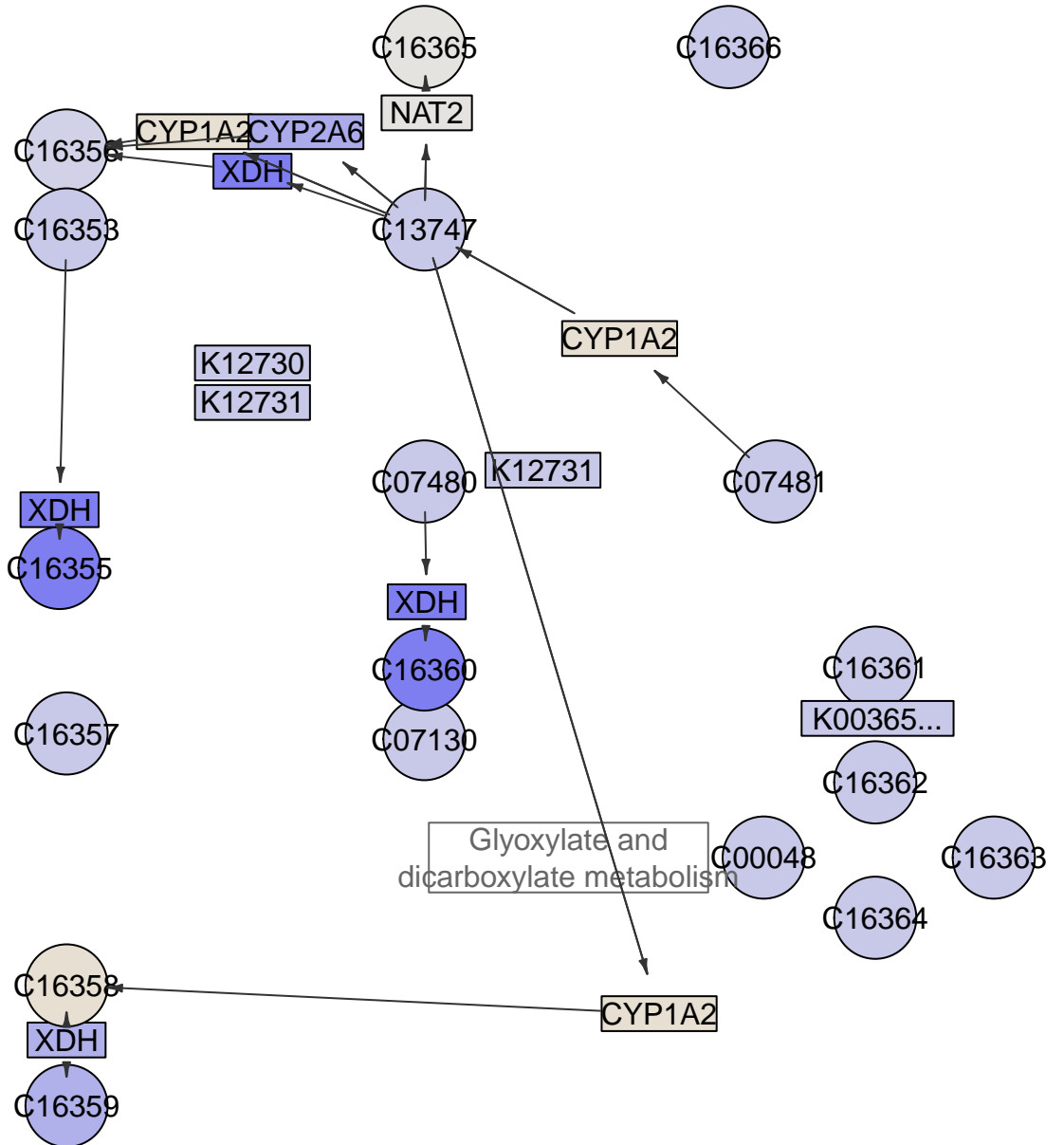
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-101

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-114

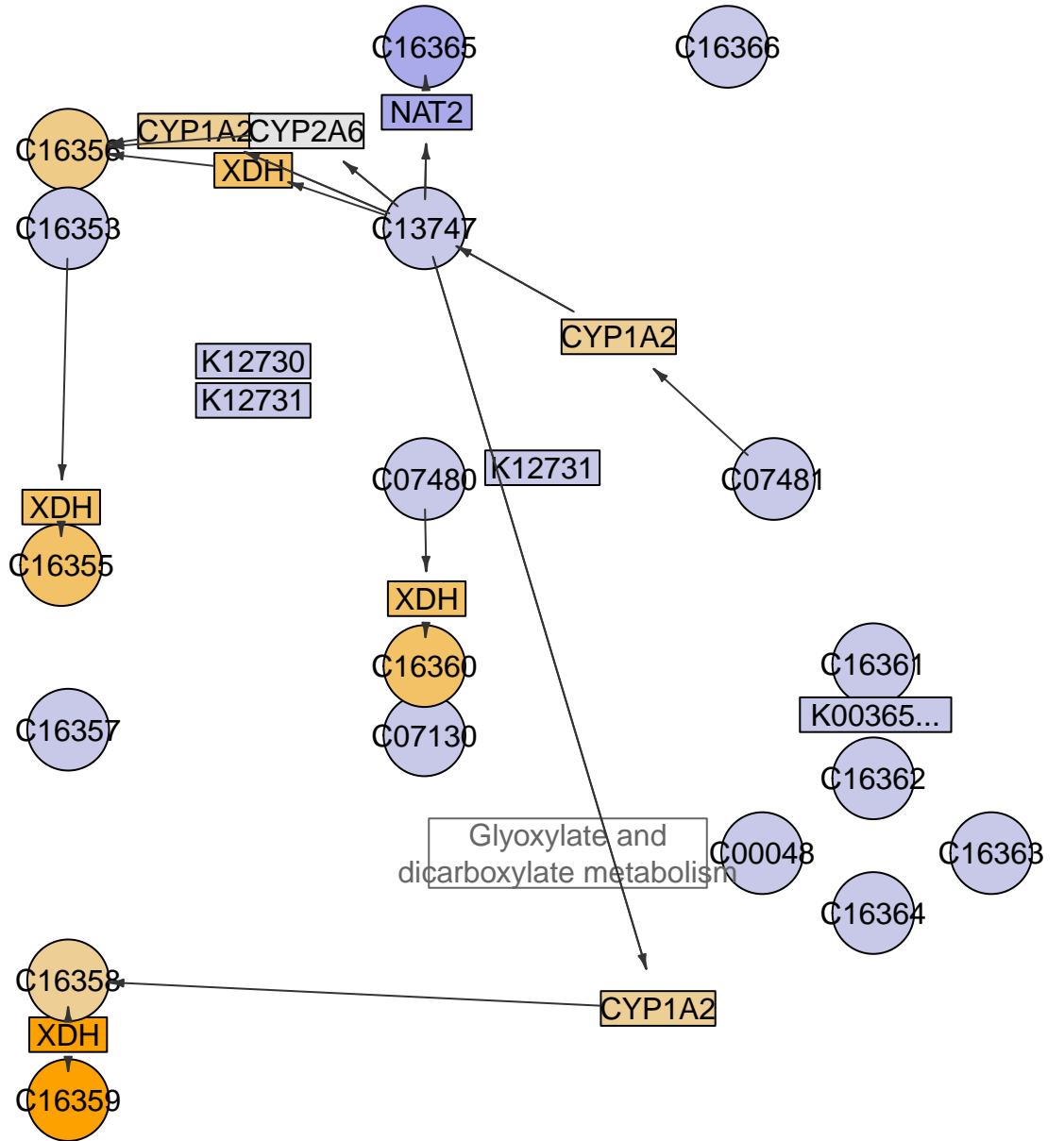
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-139

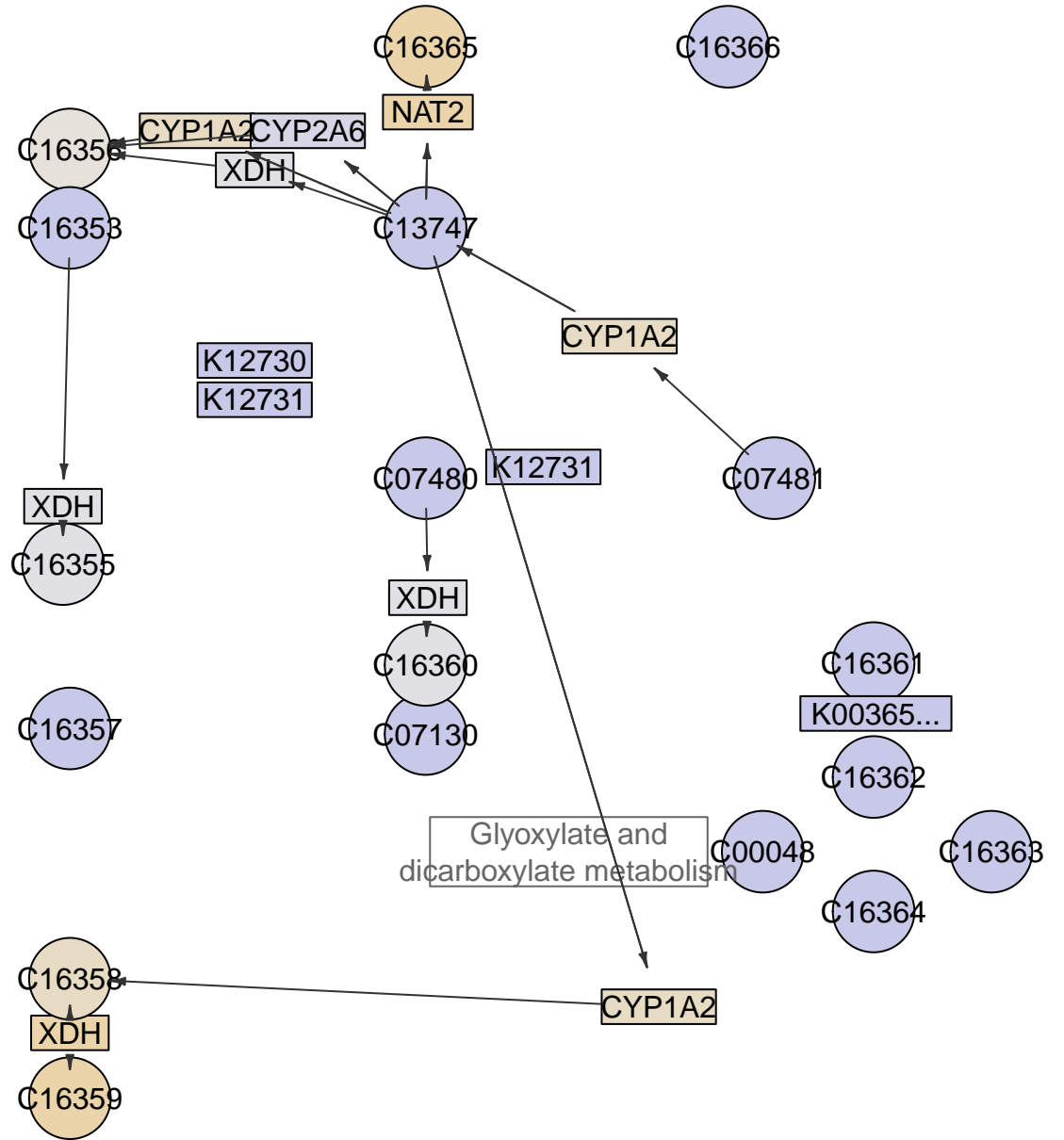
C01762

K12729

C16352

Purine metabolism

C00385

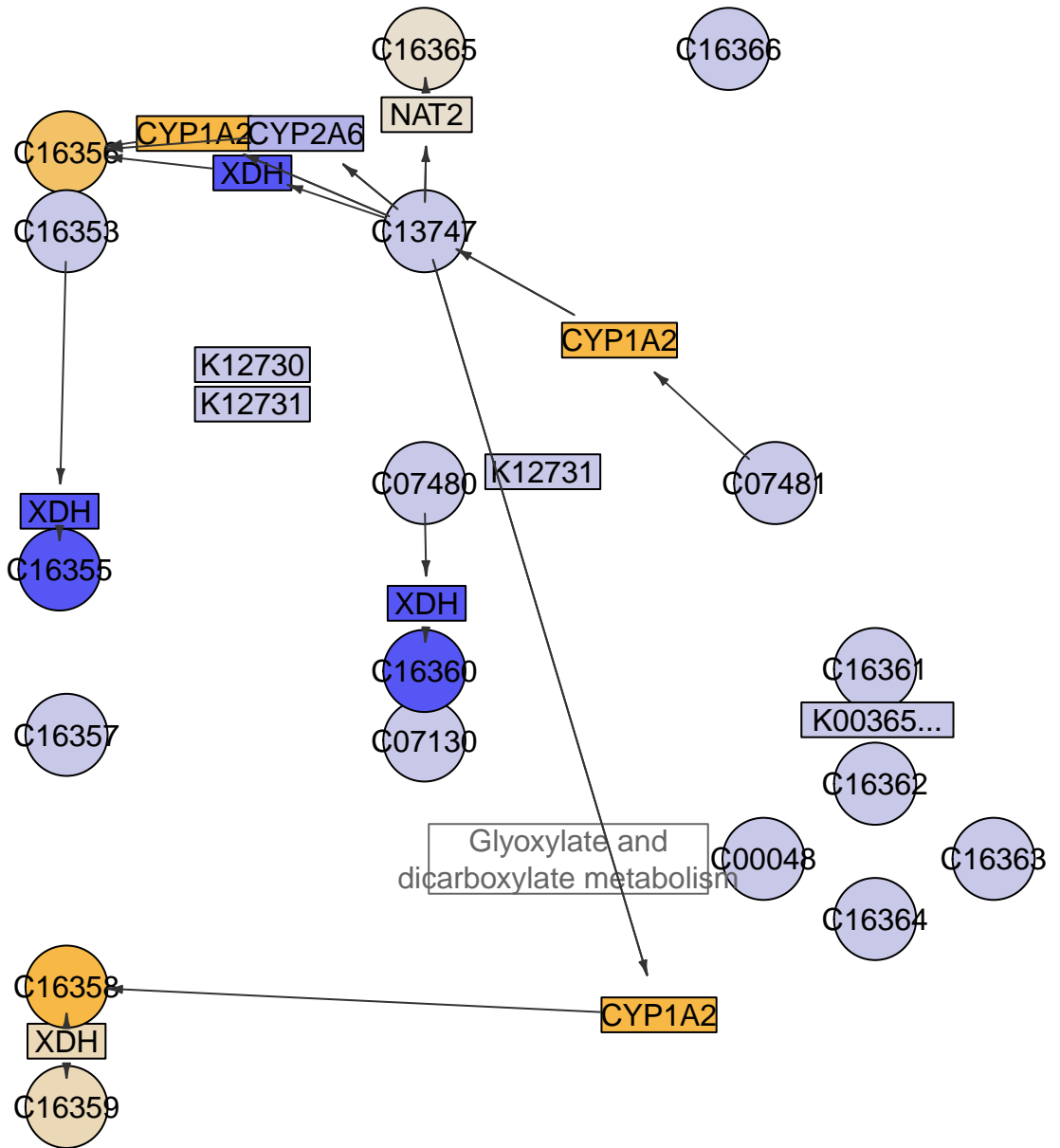


Caffeine metabolism
MPI-007

C01762

K12729

C16352



Caffeine metabolism
MPI-011

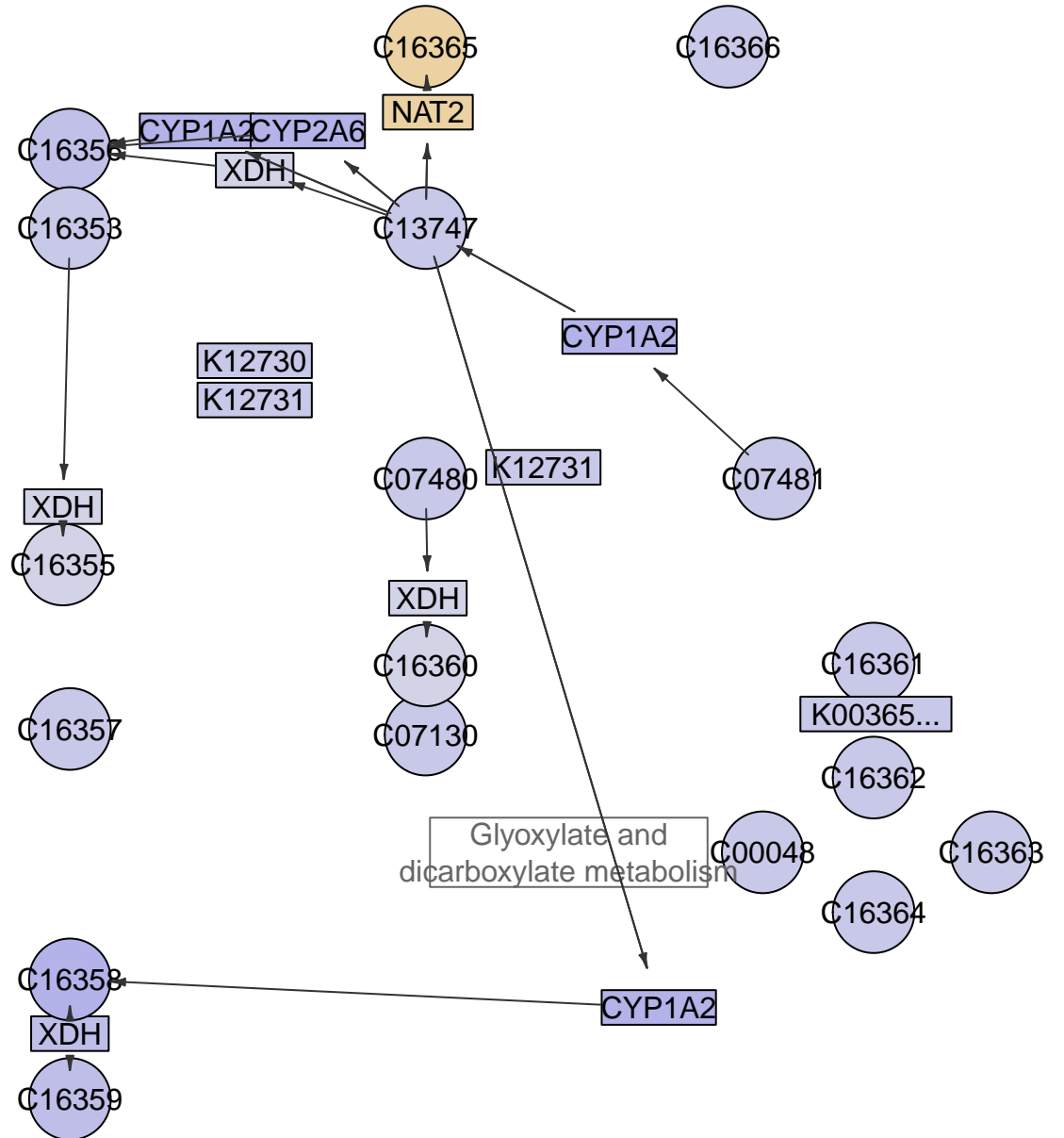
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-024

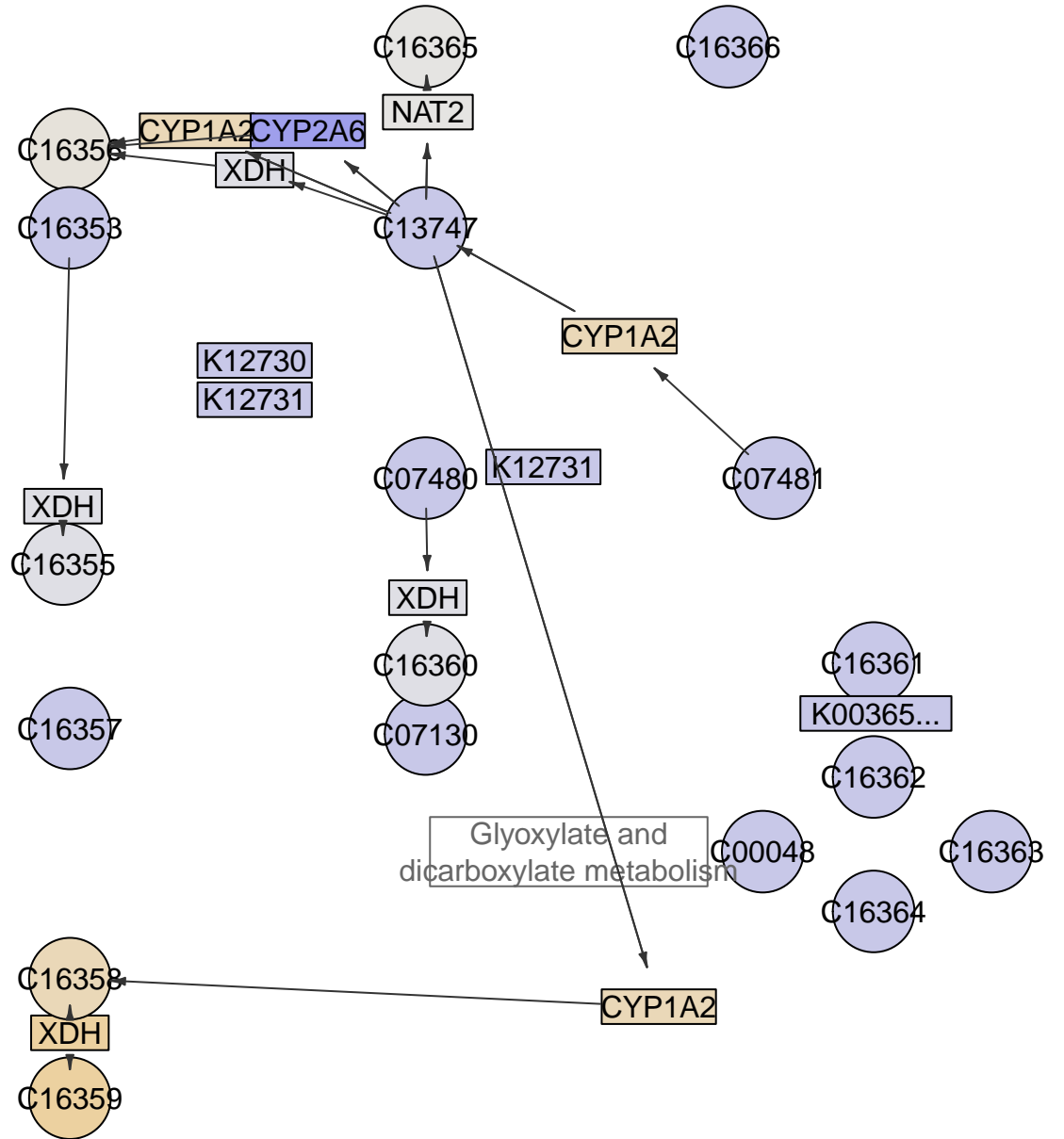
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-036

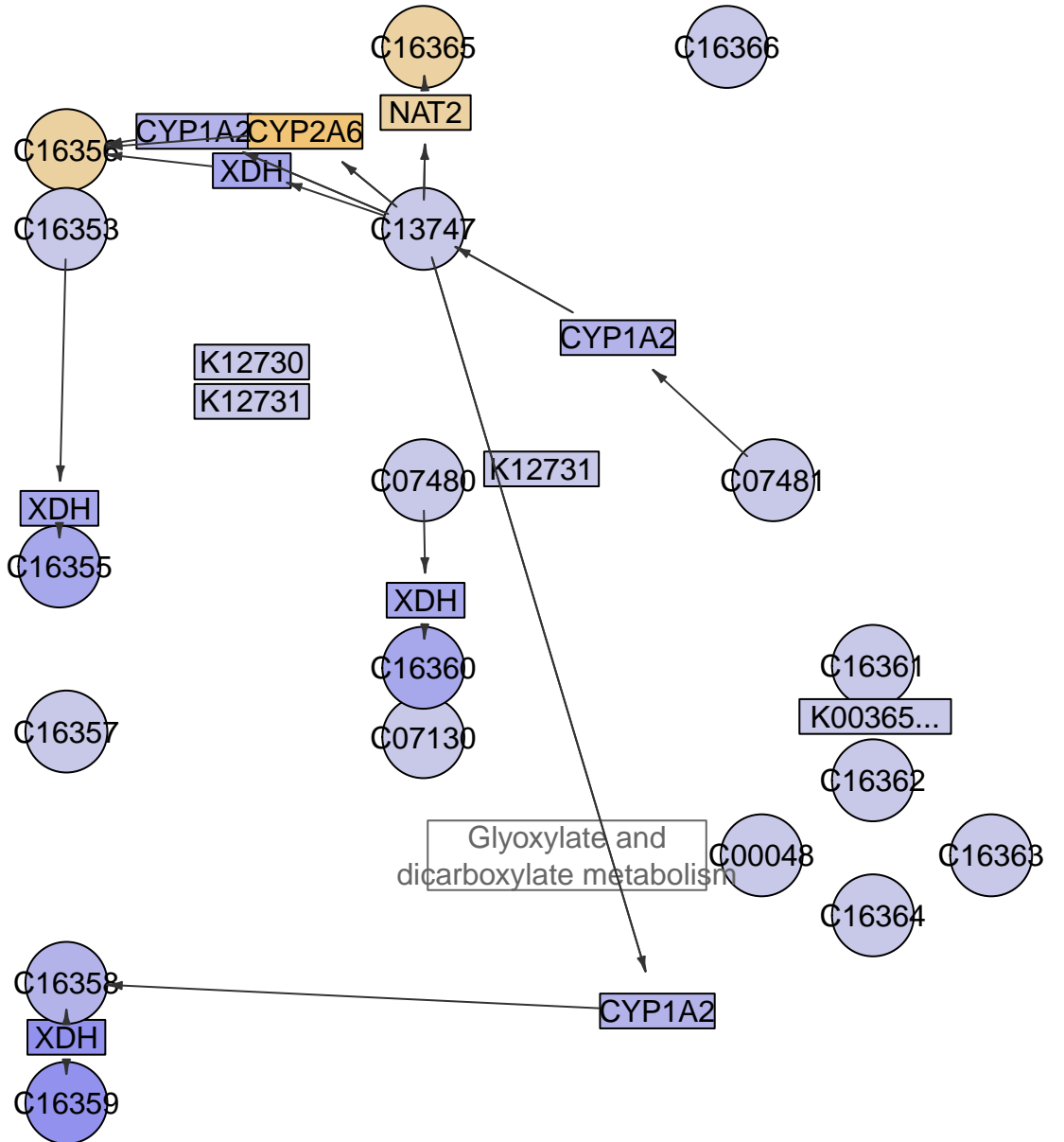
C01762

K12729

C16352

Purine metabolism

C00385

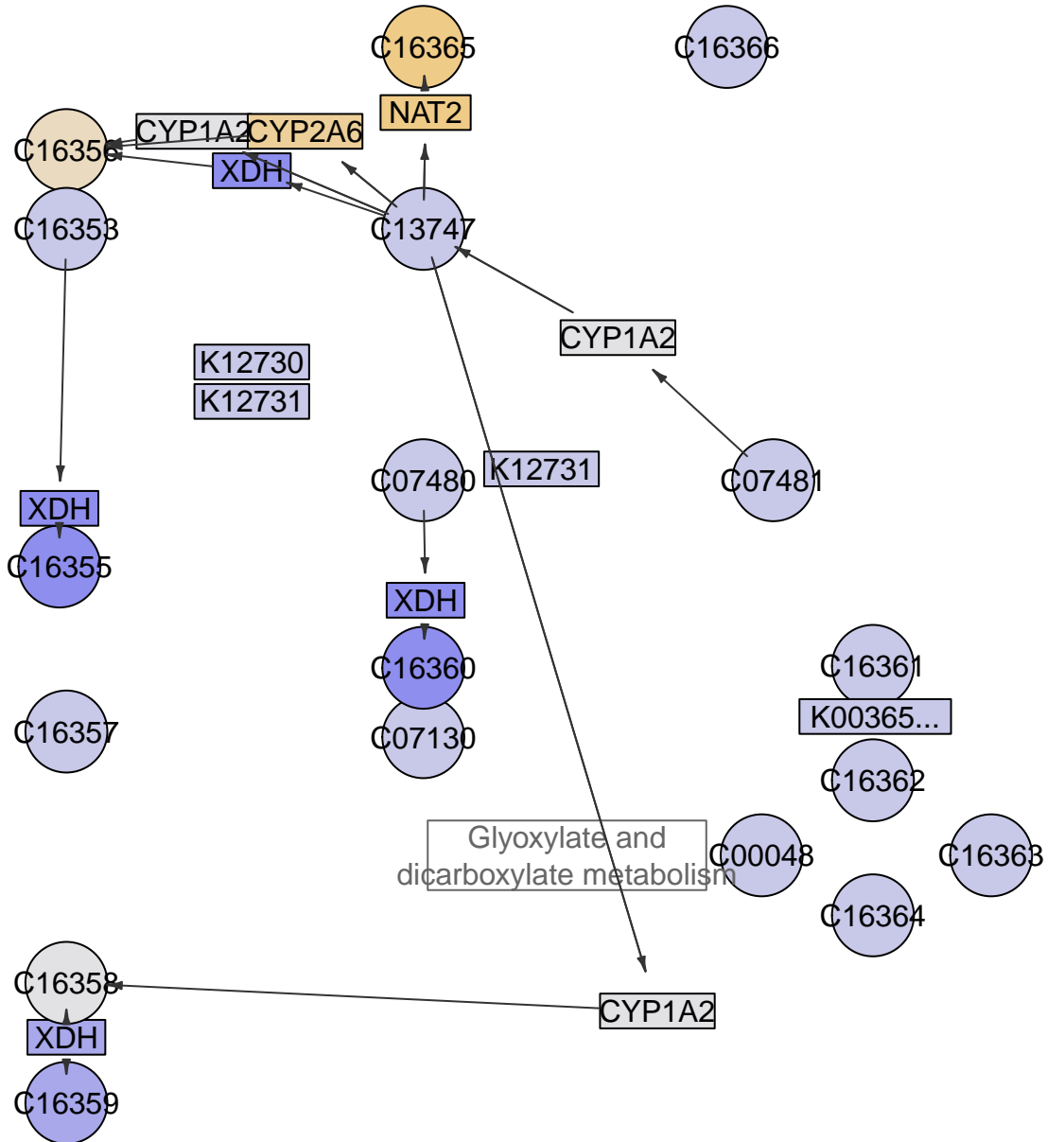


Caffeine metabolism
MPI-041

C01762

K12729

C16352



Purine metabolism

C00385

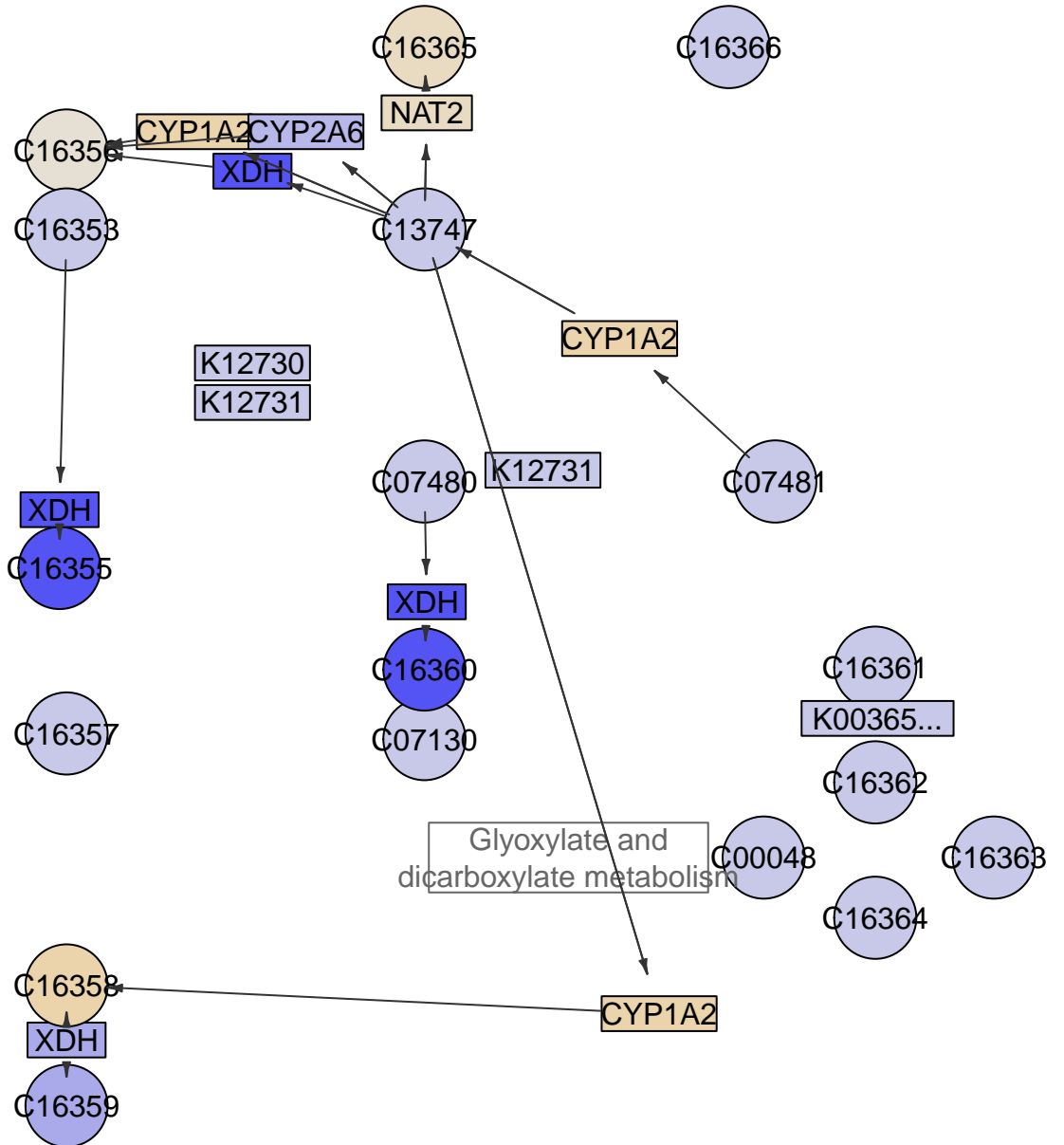
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-046

C01762

K12729

C16352



Purine metabolism

C00385

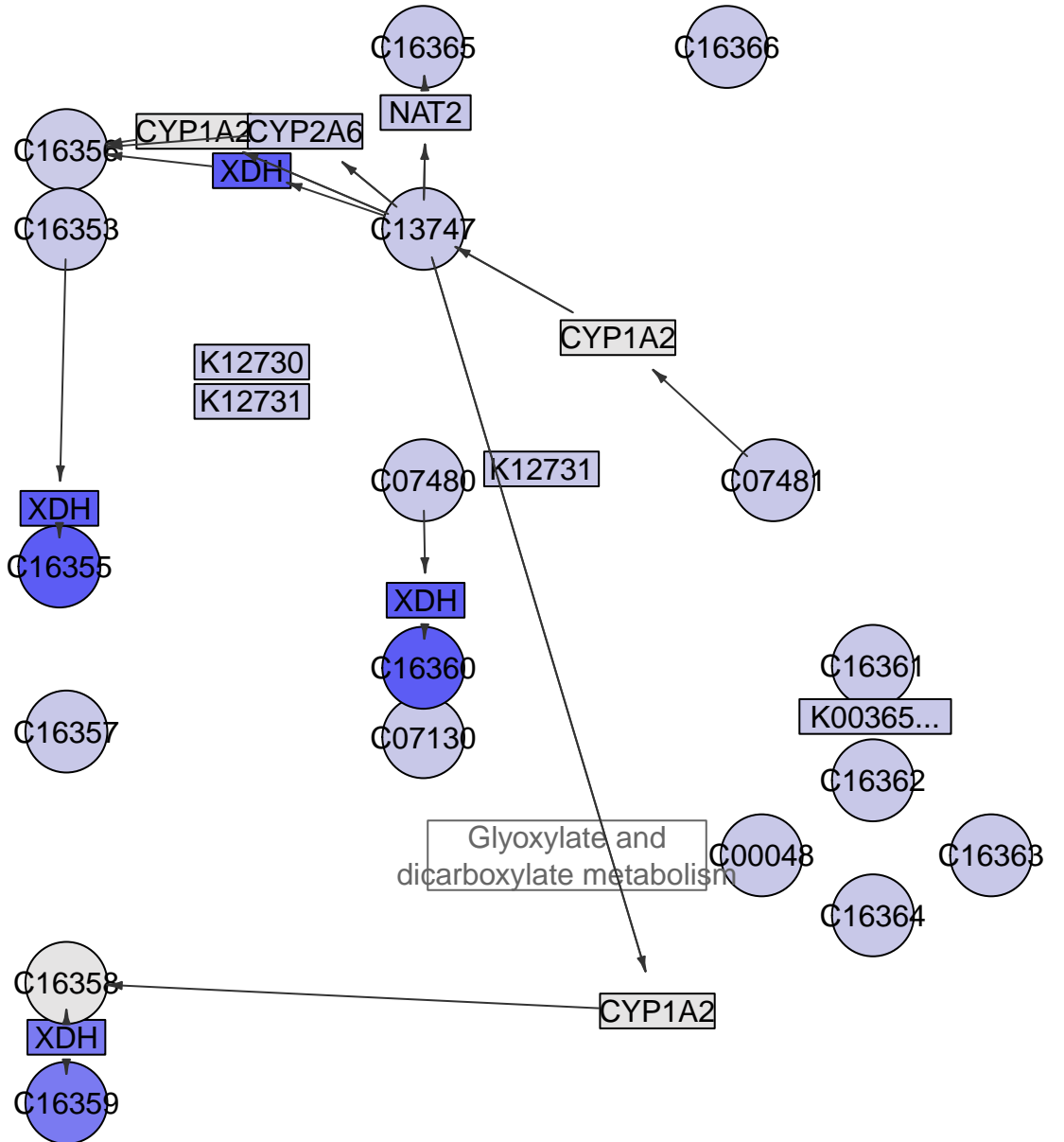
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-050

C01762

K12729

C16352



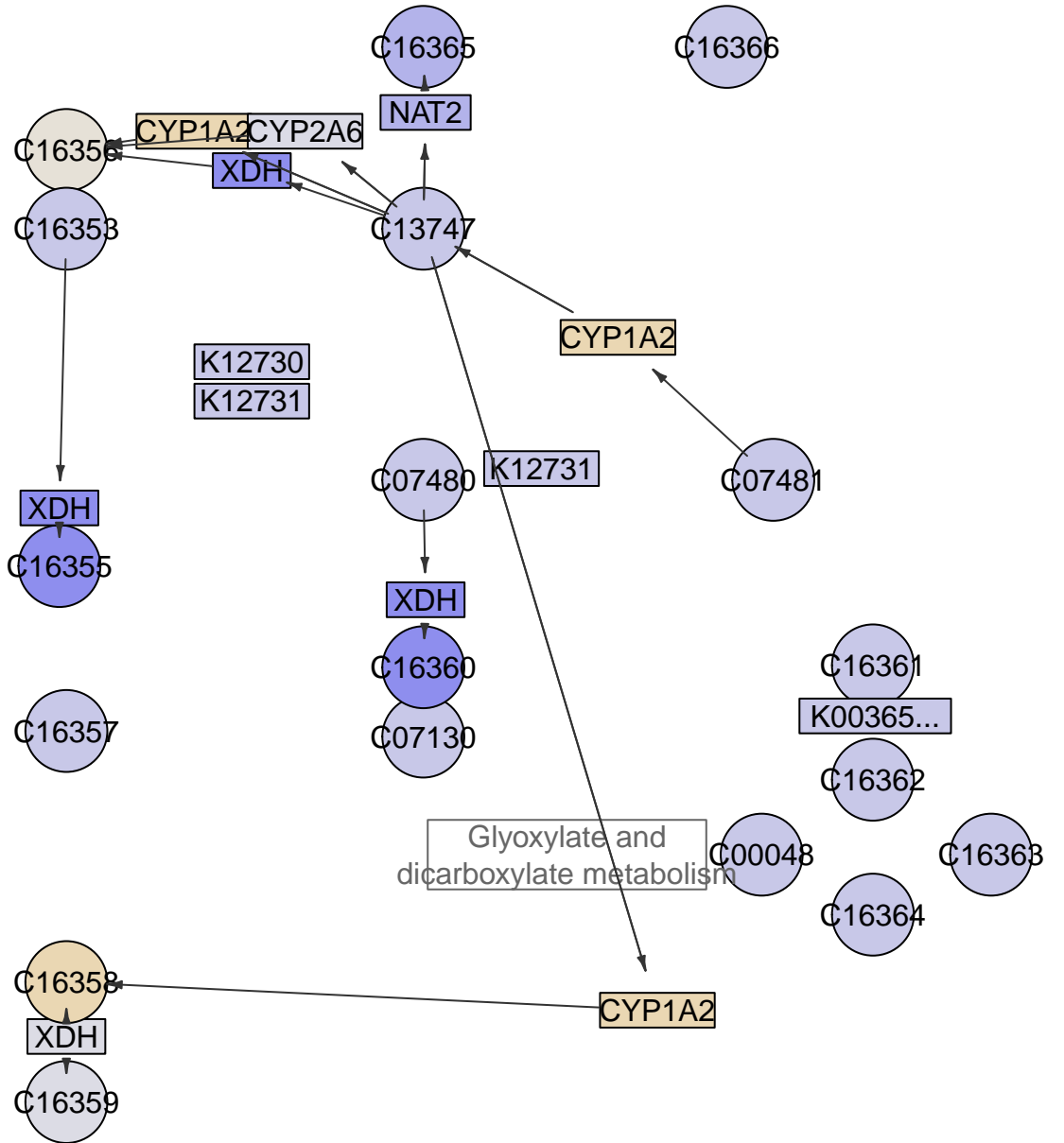
Purine metabolism

Caffeine metabolism
MPI-051

C01762

K12729

C16352



Purine metabolism

C00385

C16358

XDH

C16359

Glyoxylate and
dicarboxylate metabolism

CYP1A2

C16361
K00365...
C16362
C00048
C16364
C16363

Caffeine metabolism
MPI-059

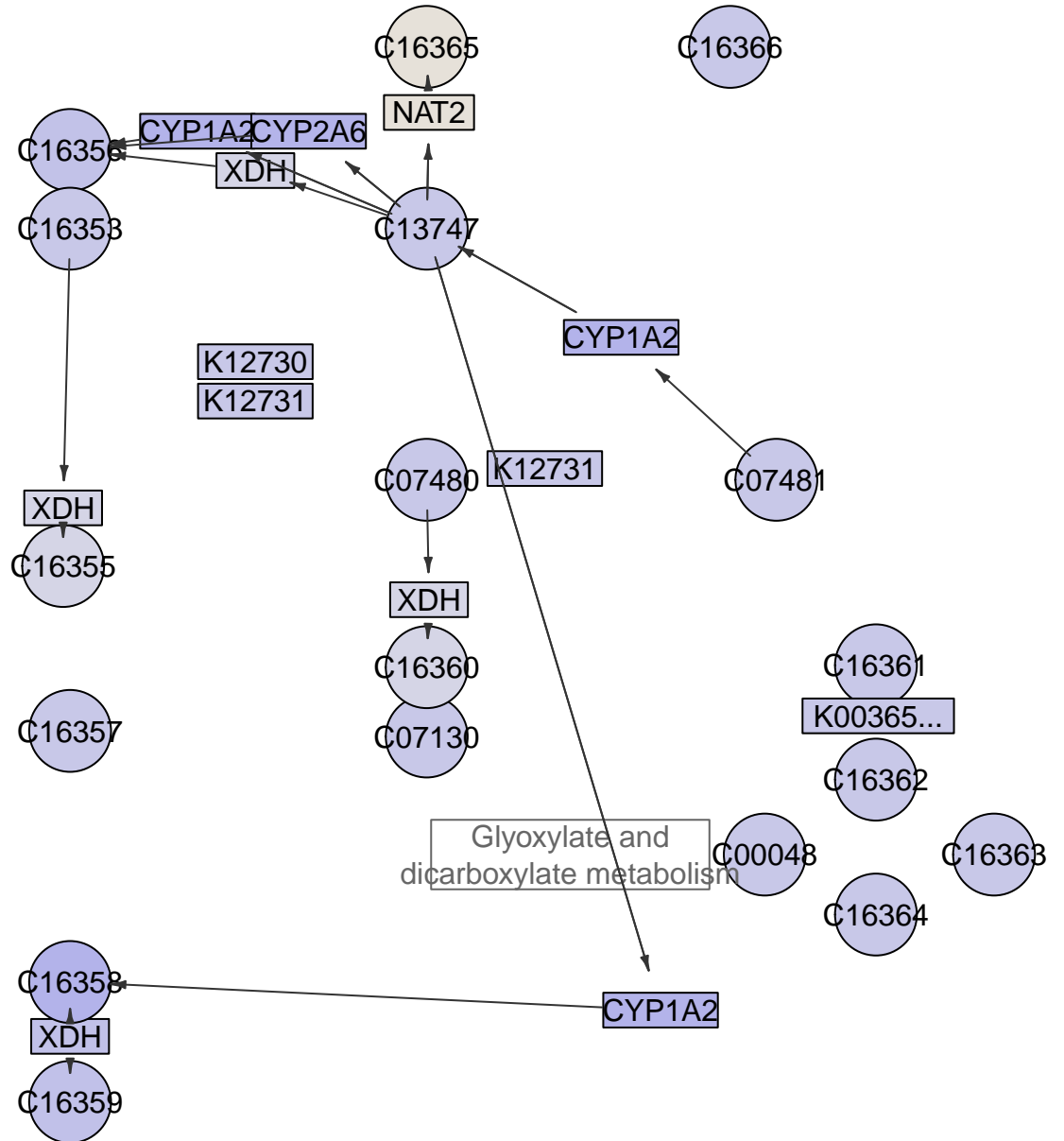
C01762

K12729

C16352

Purine metabolism

C00385

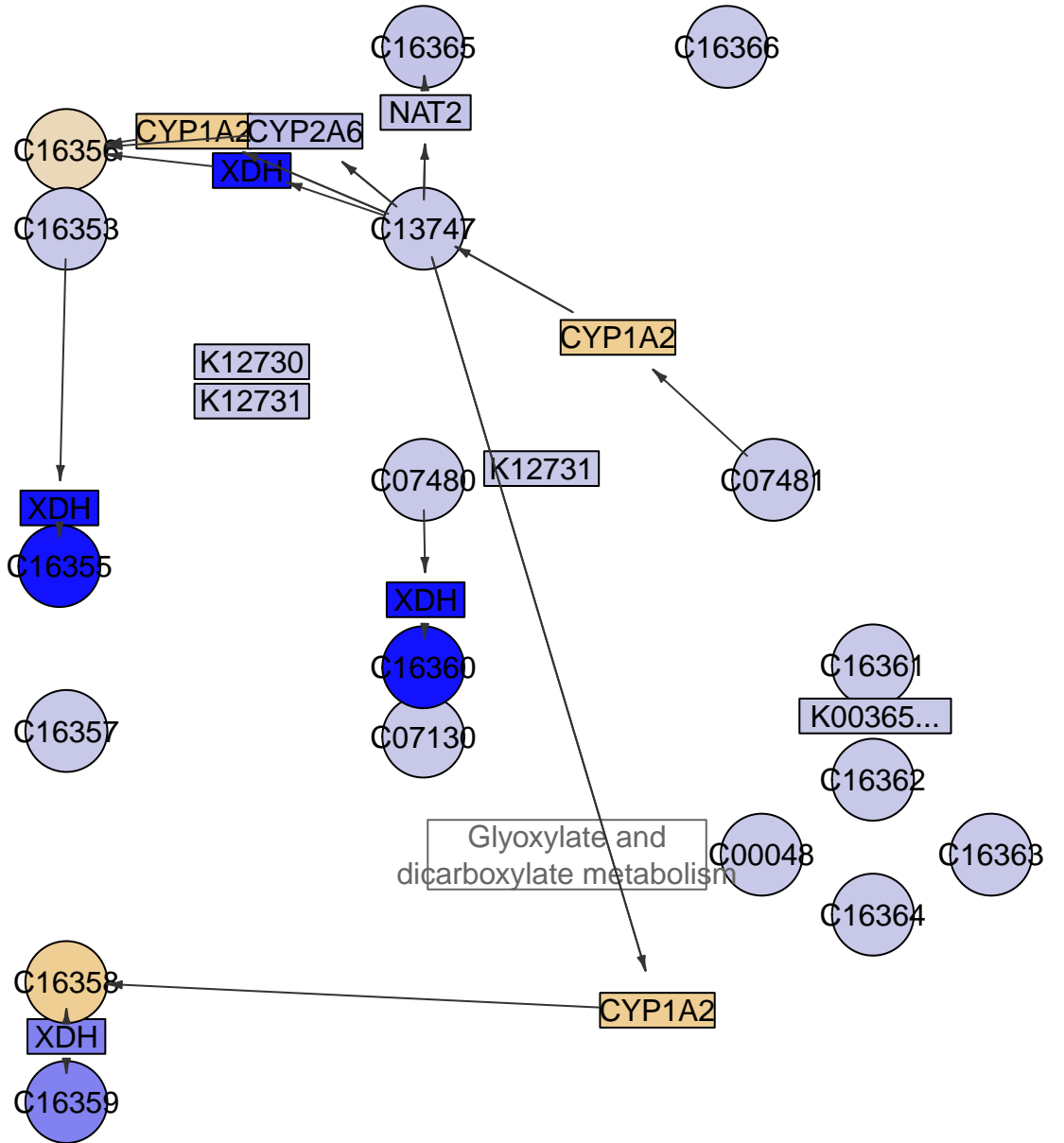


Caffeine metabolism
MPI-060

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-061

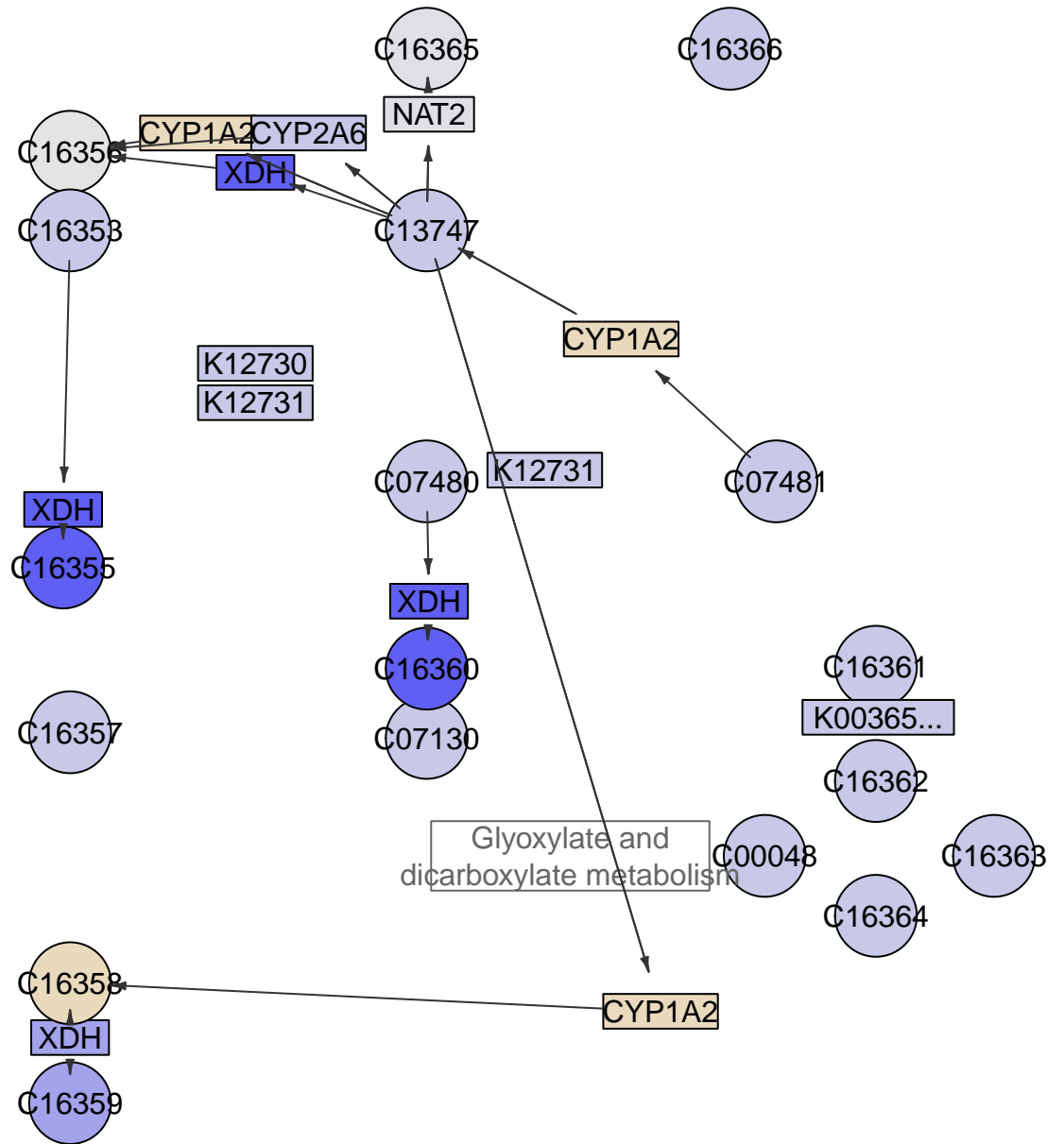
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-064

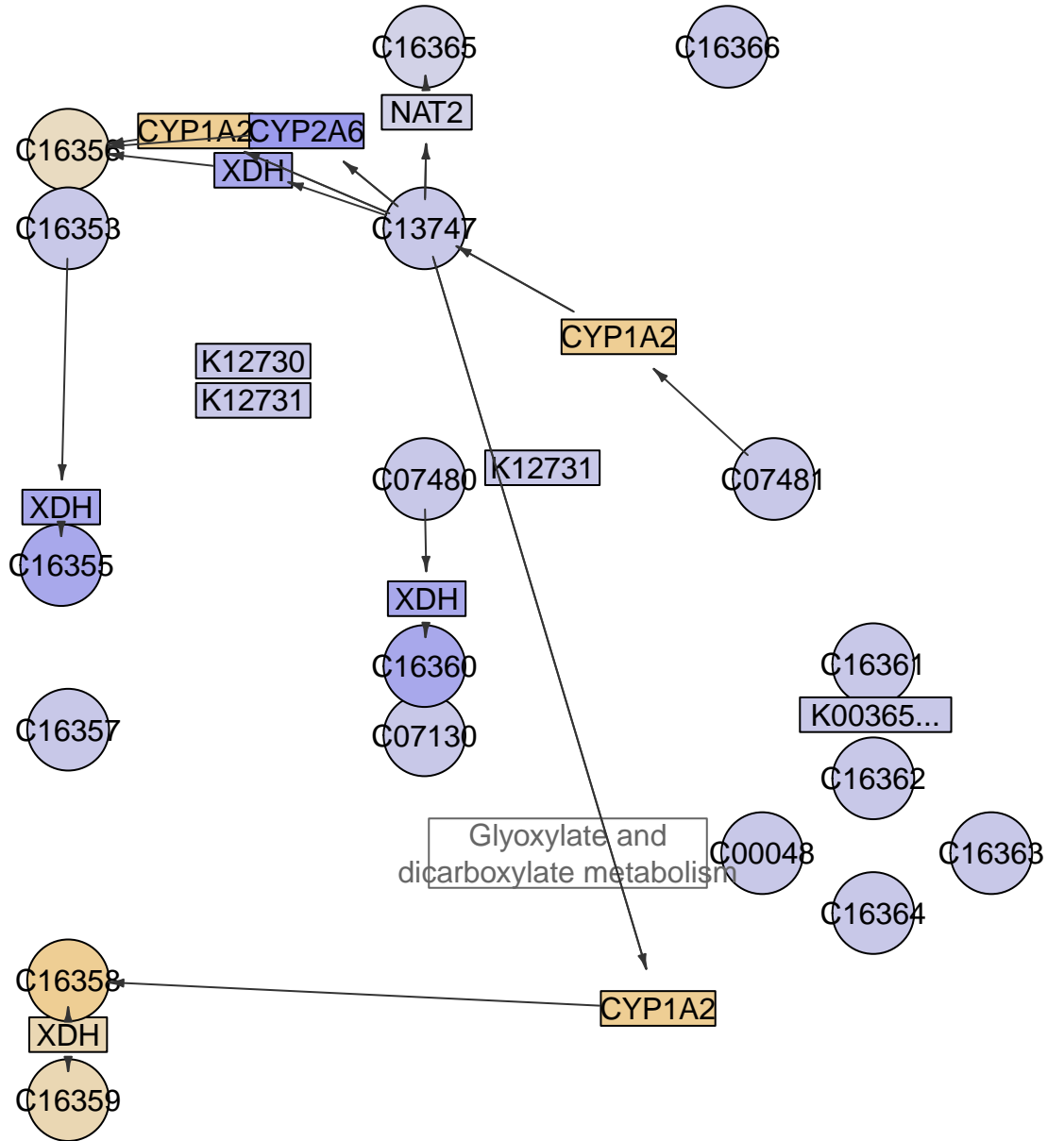
C01762

K12729

C16352

Purine metabolism

C00385

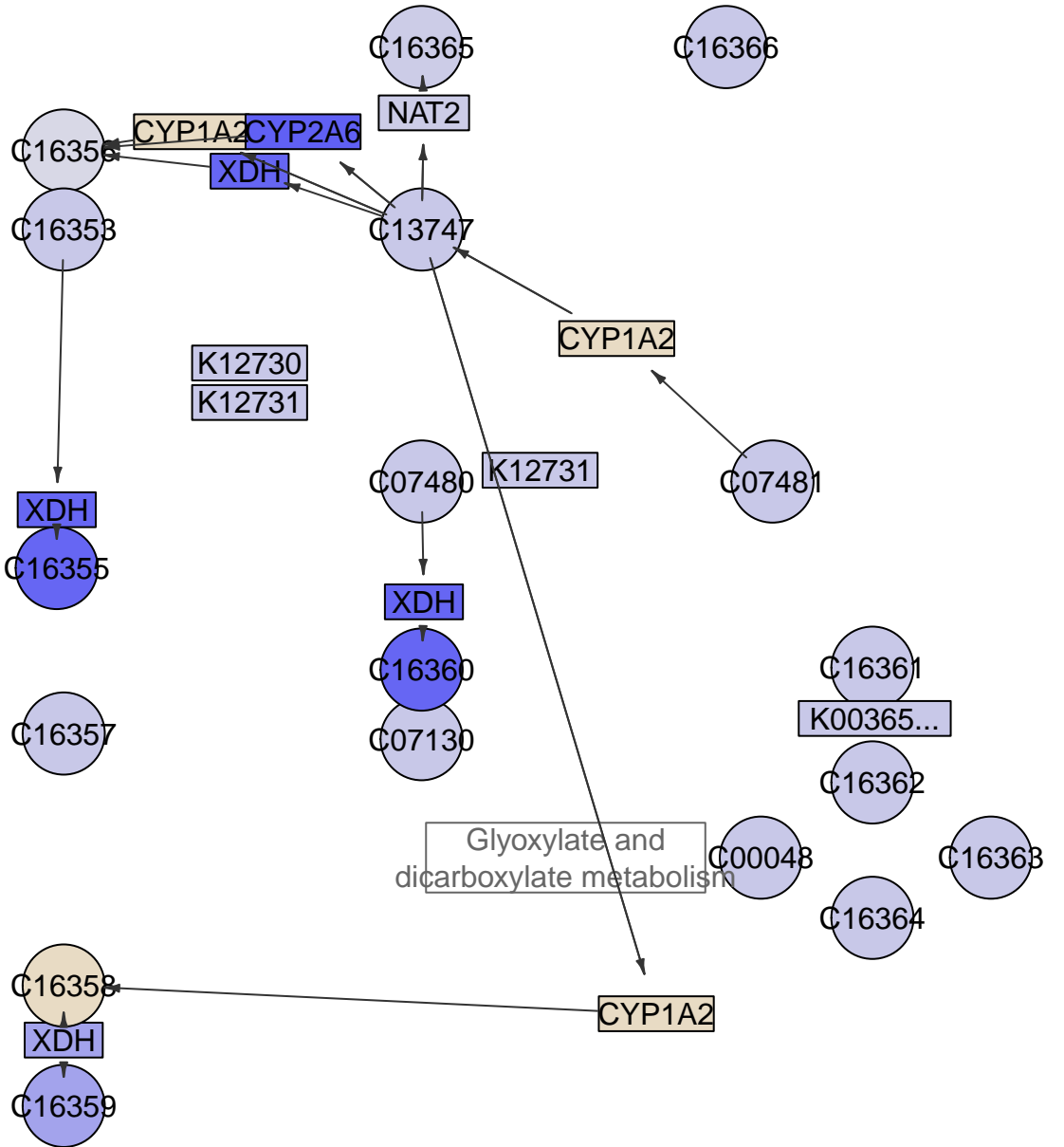


Caffeine metabolism
MPI-070

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and dicarboxylate metabolism

Caffeine metabolism
MPI-072

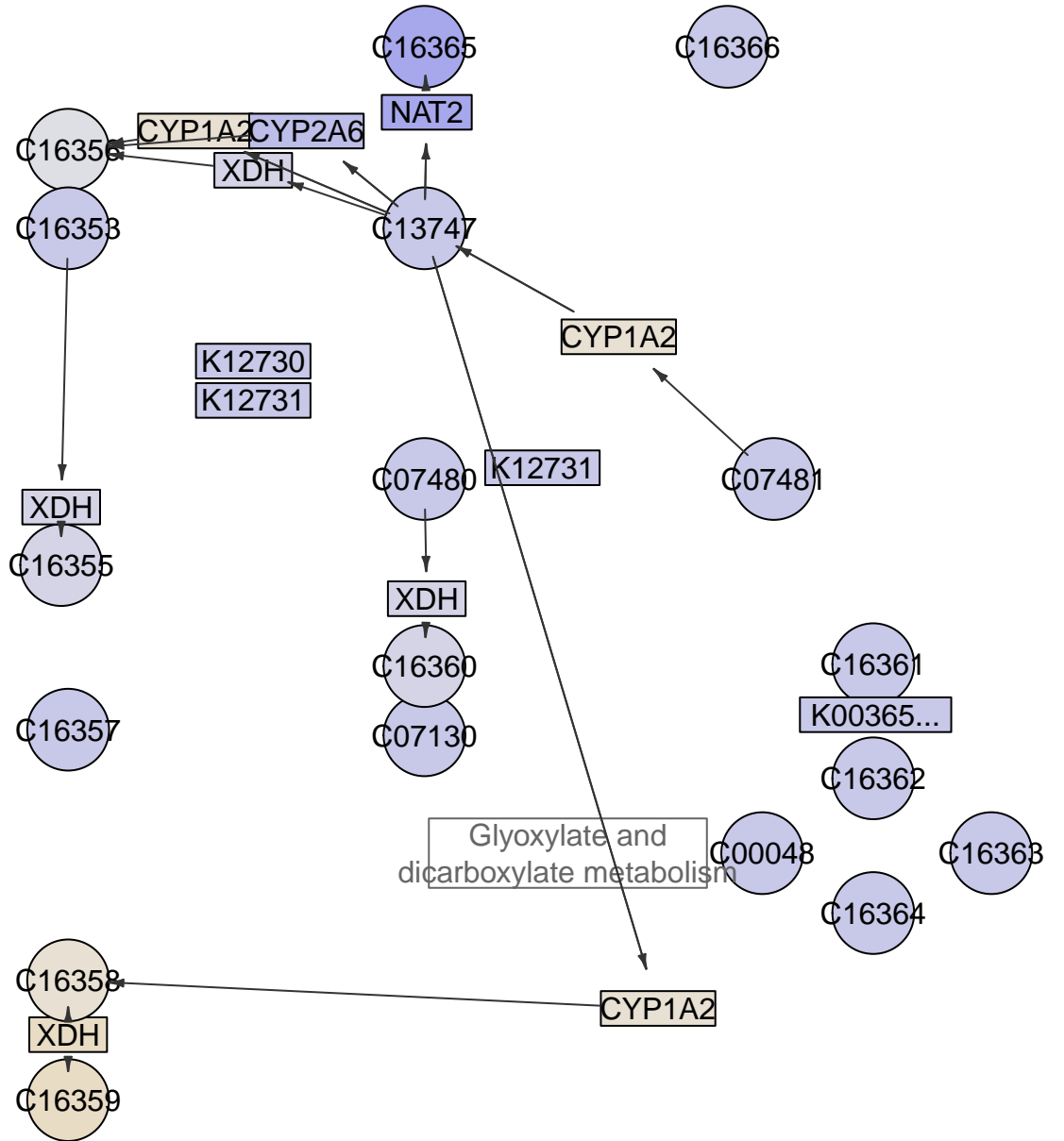
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-099

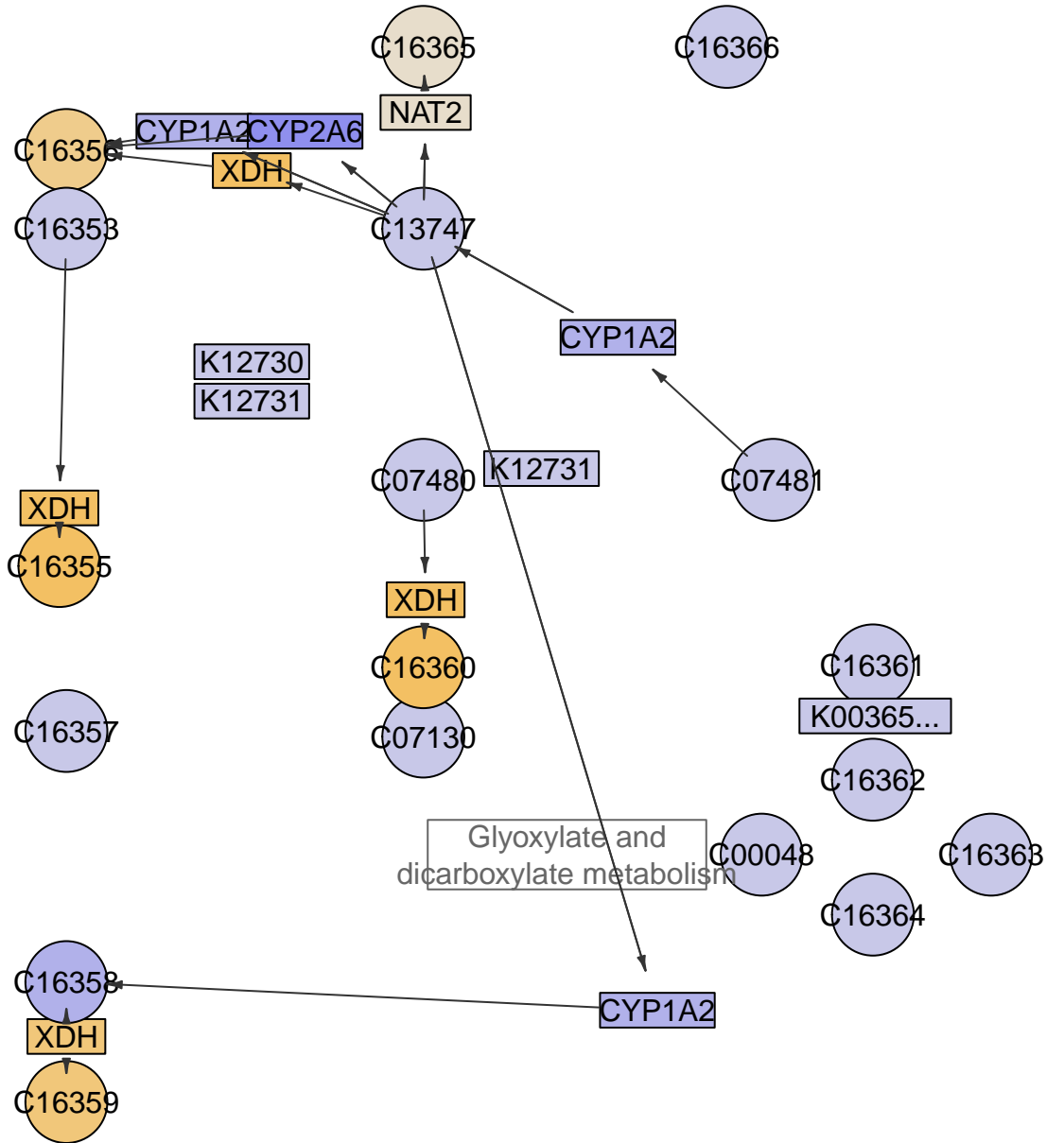
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-104

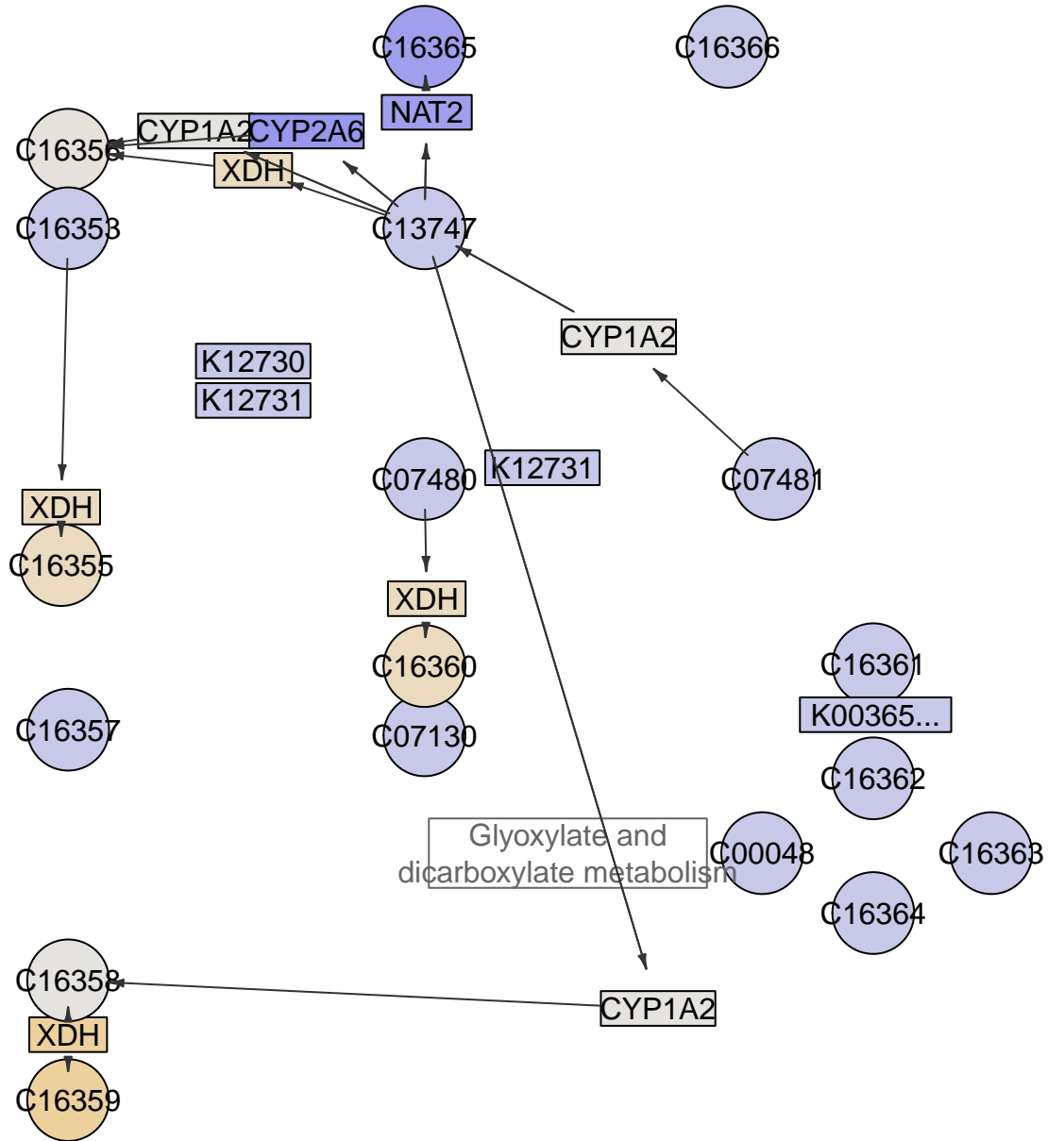
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-112

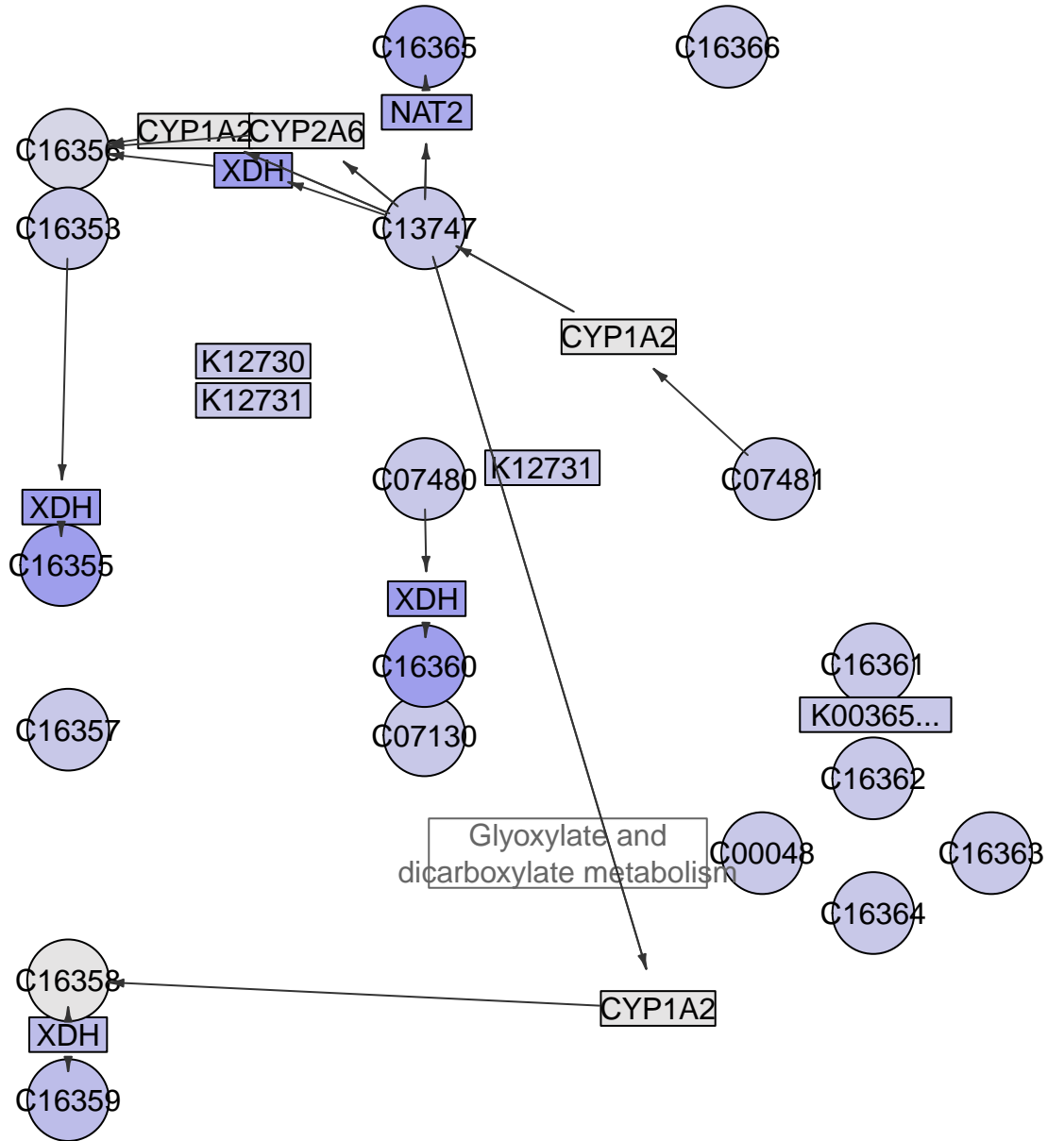
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-116

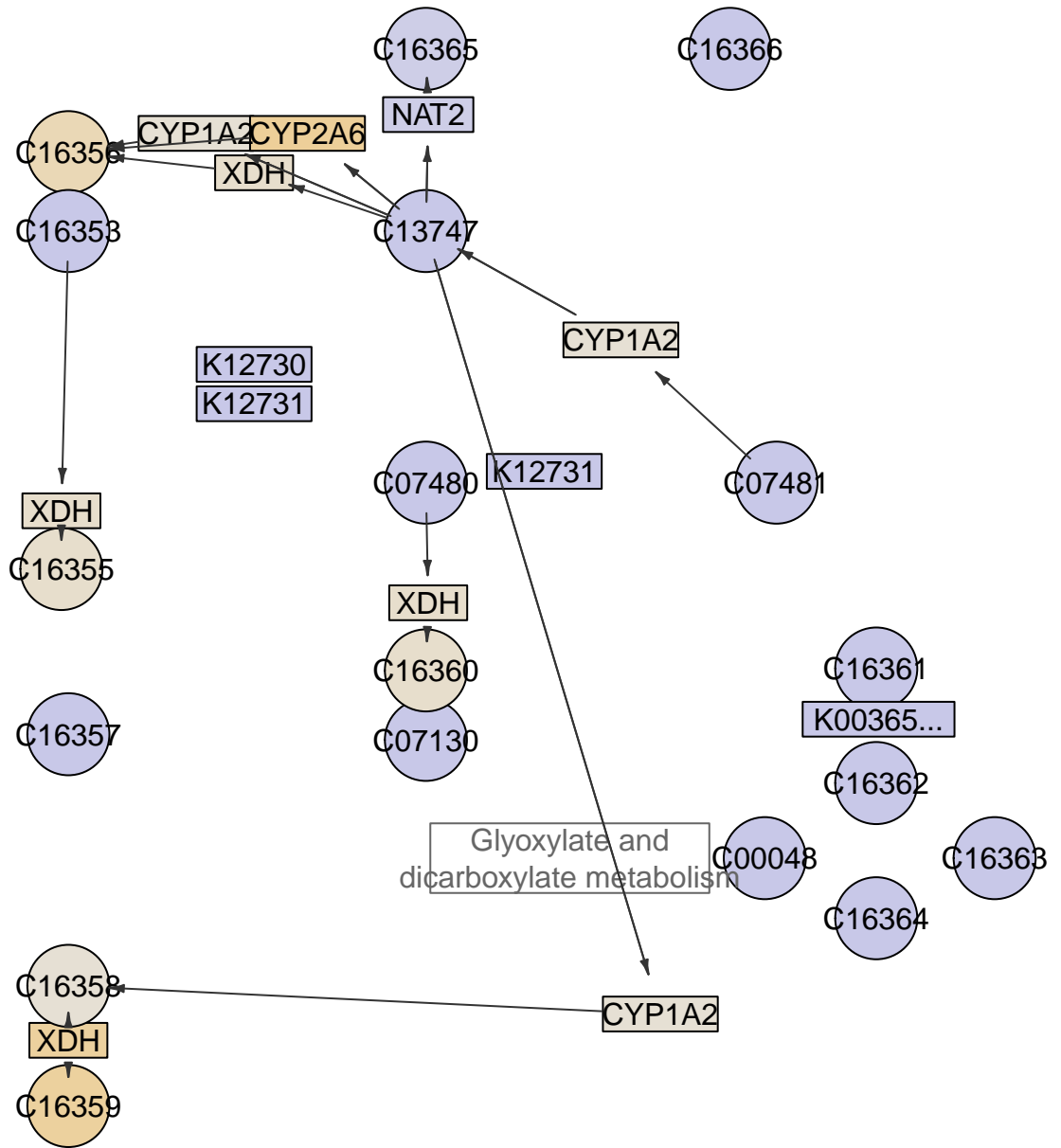
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-121

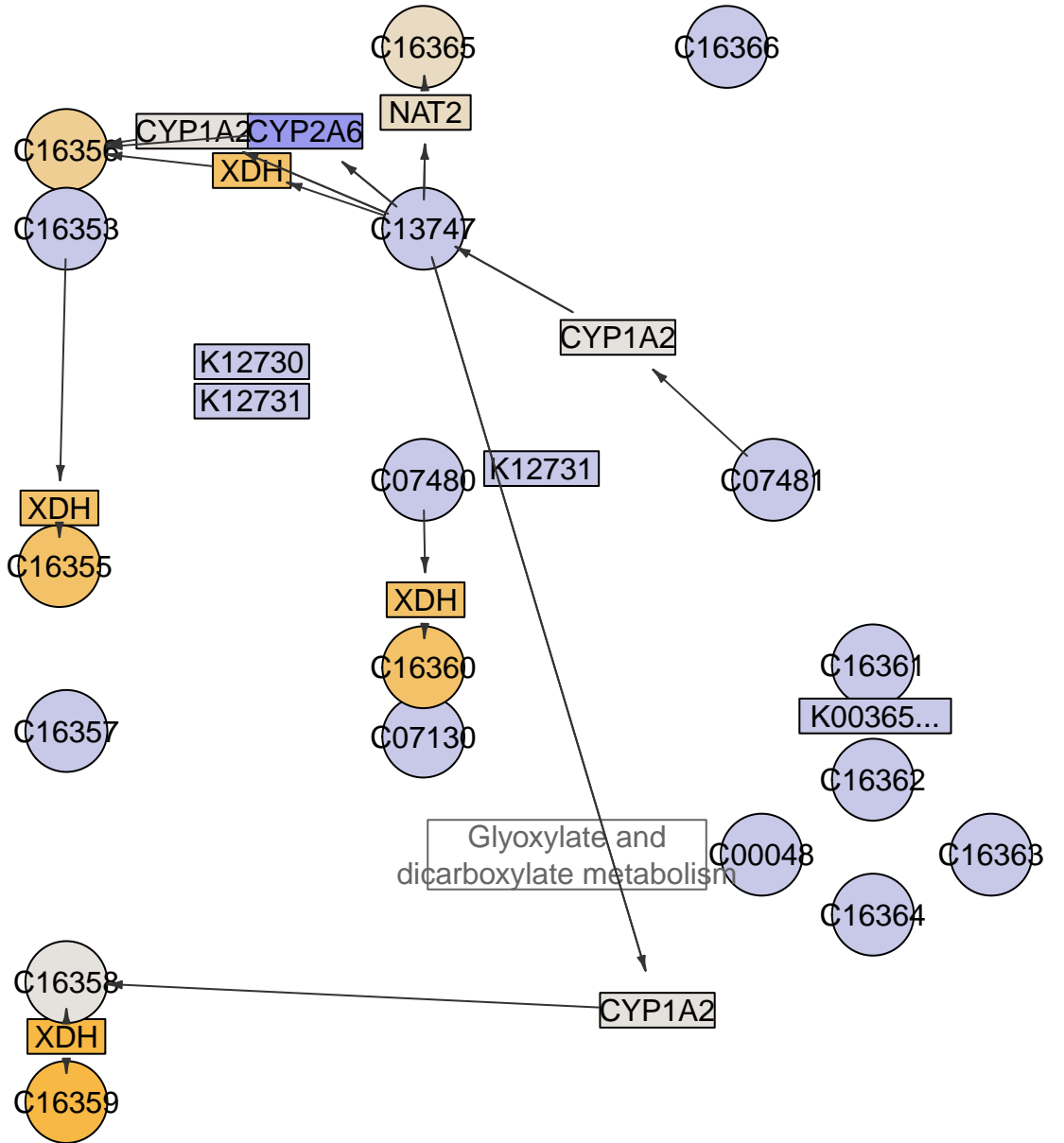
C01762

K12729

C16352

Purine metabolism

C00385

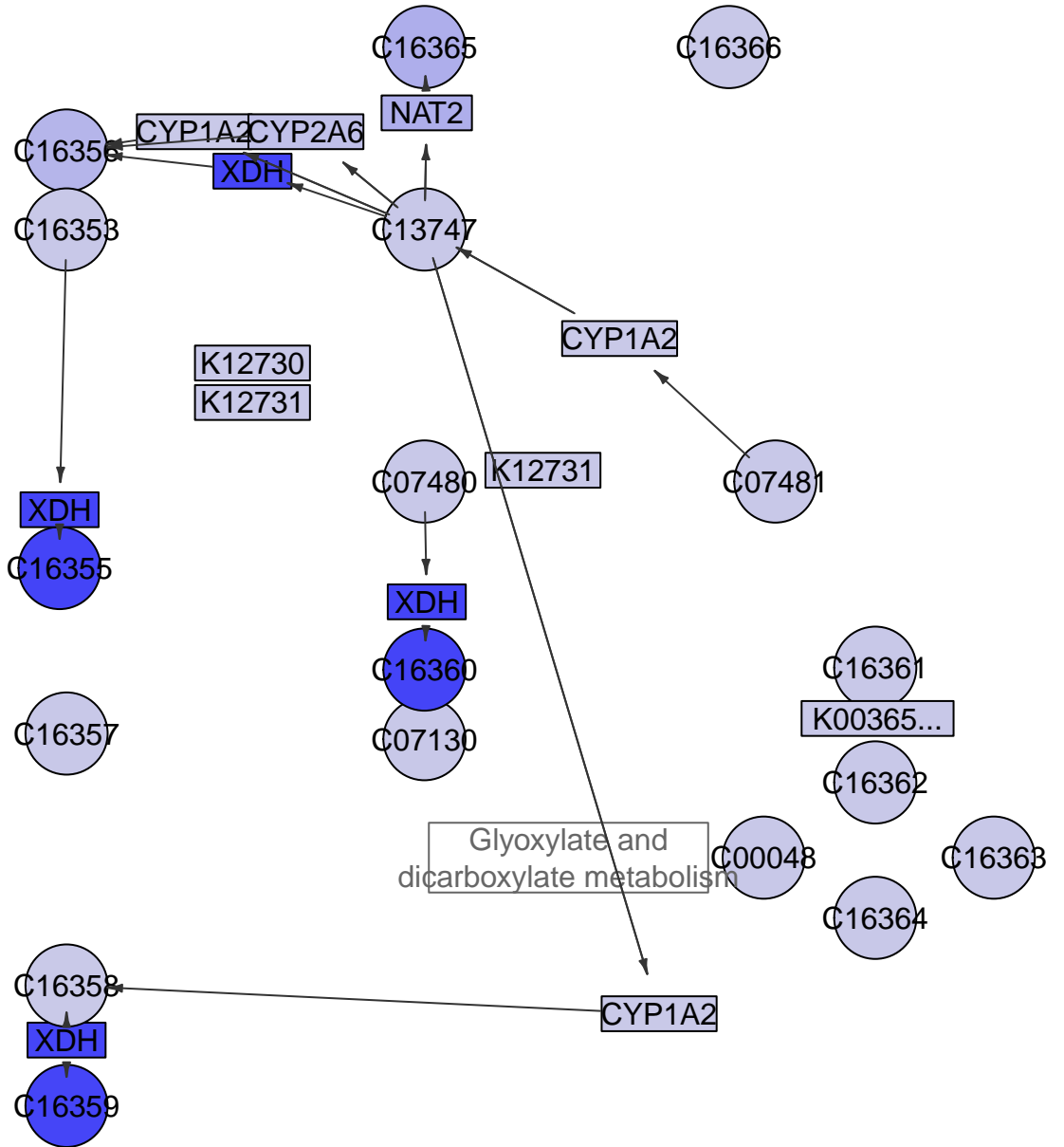


Caffeine metabolism
MPI-124

C01762

K12729

C16352



Purine metabolism

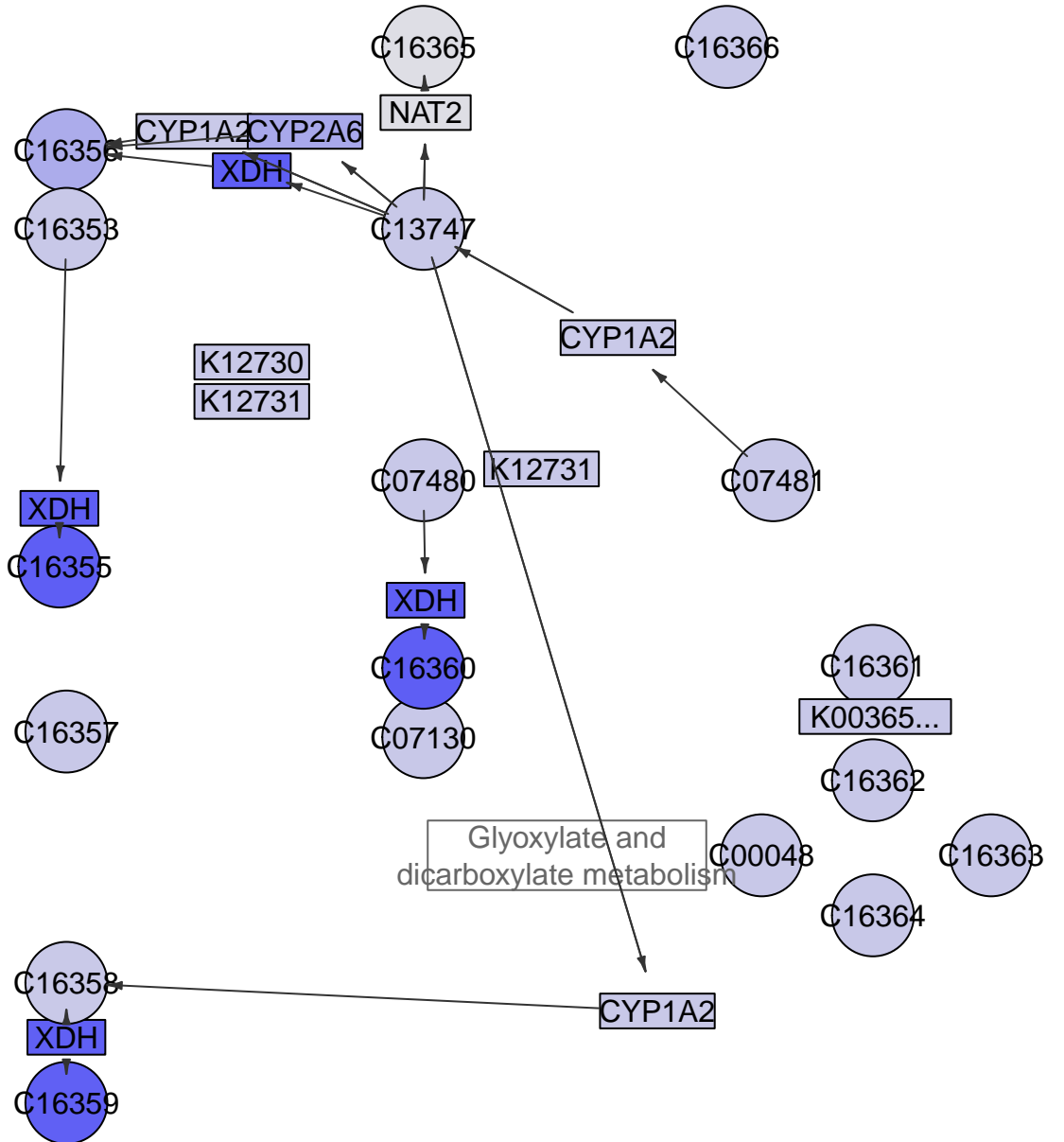
C00385

Caffeine metabolism
MPI-143

C01762

K12729

C16352



Purine metabolism

C00385

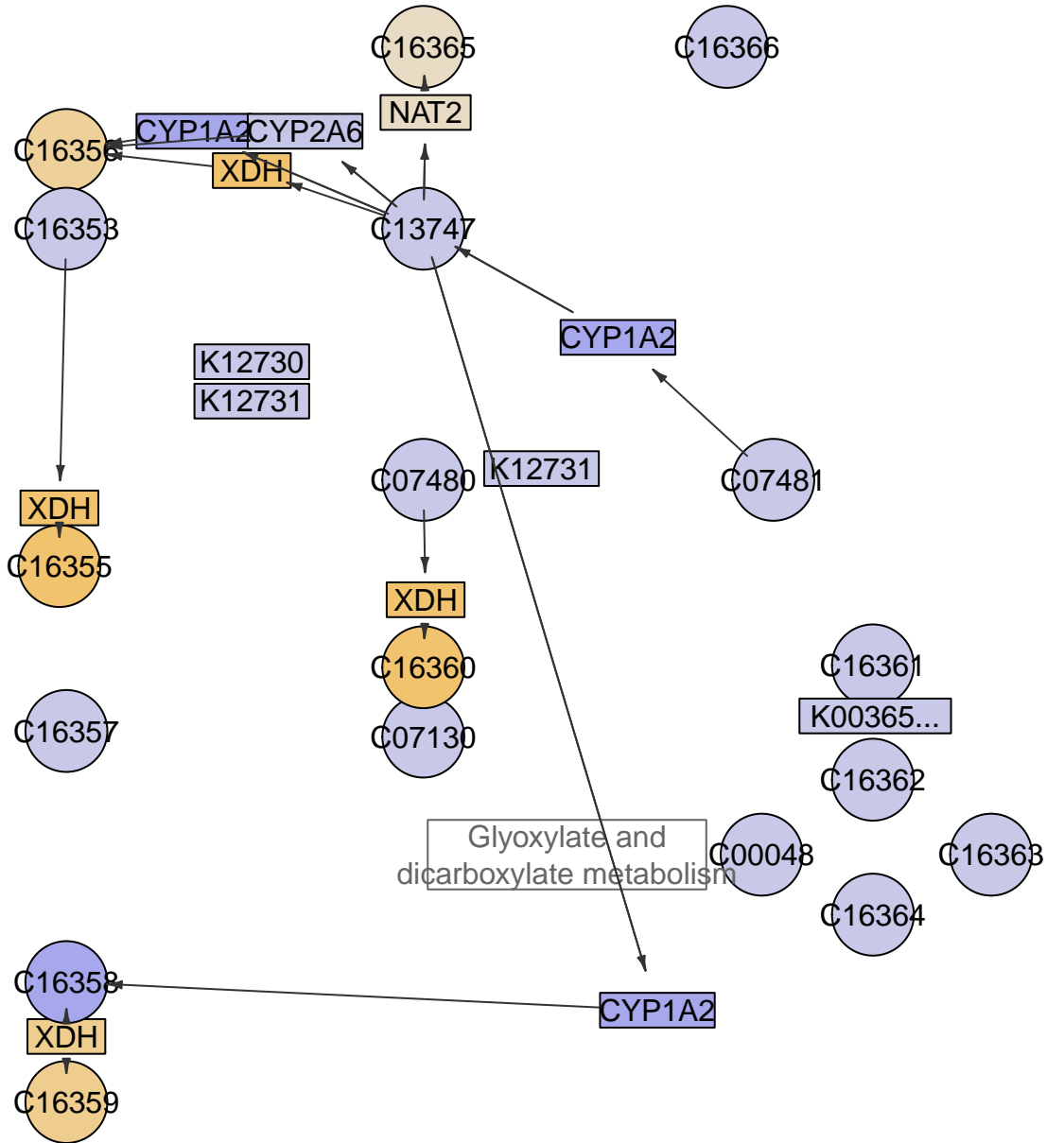
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-162

C01762

K12729

C16352

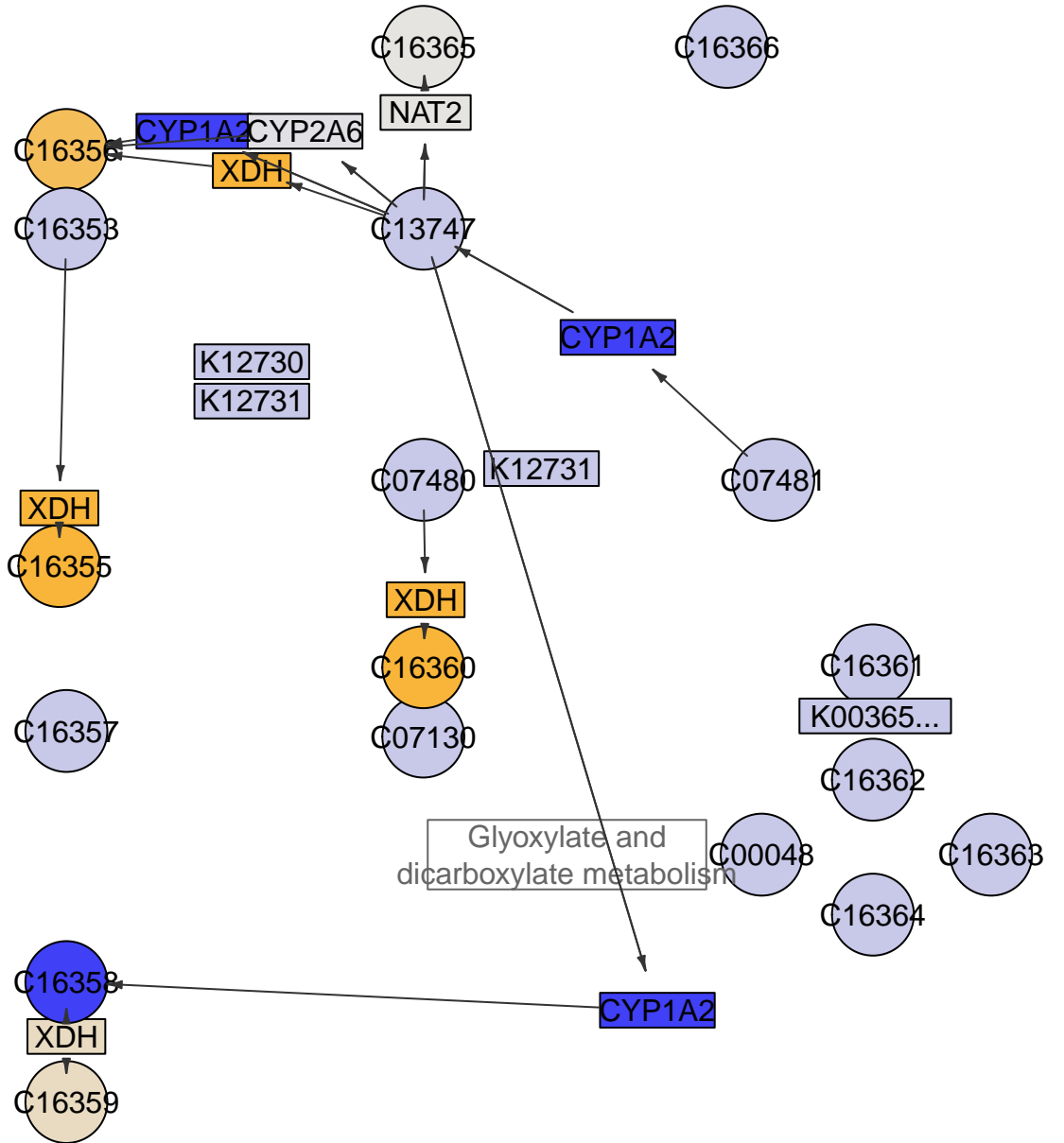


Caffeine metabolism
MPI-165

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-187

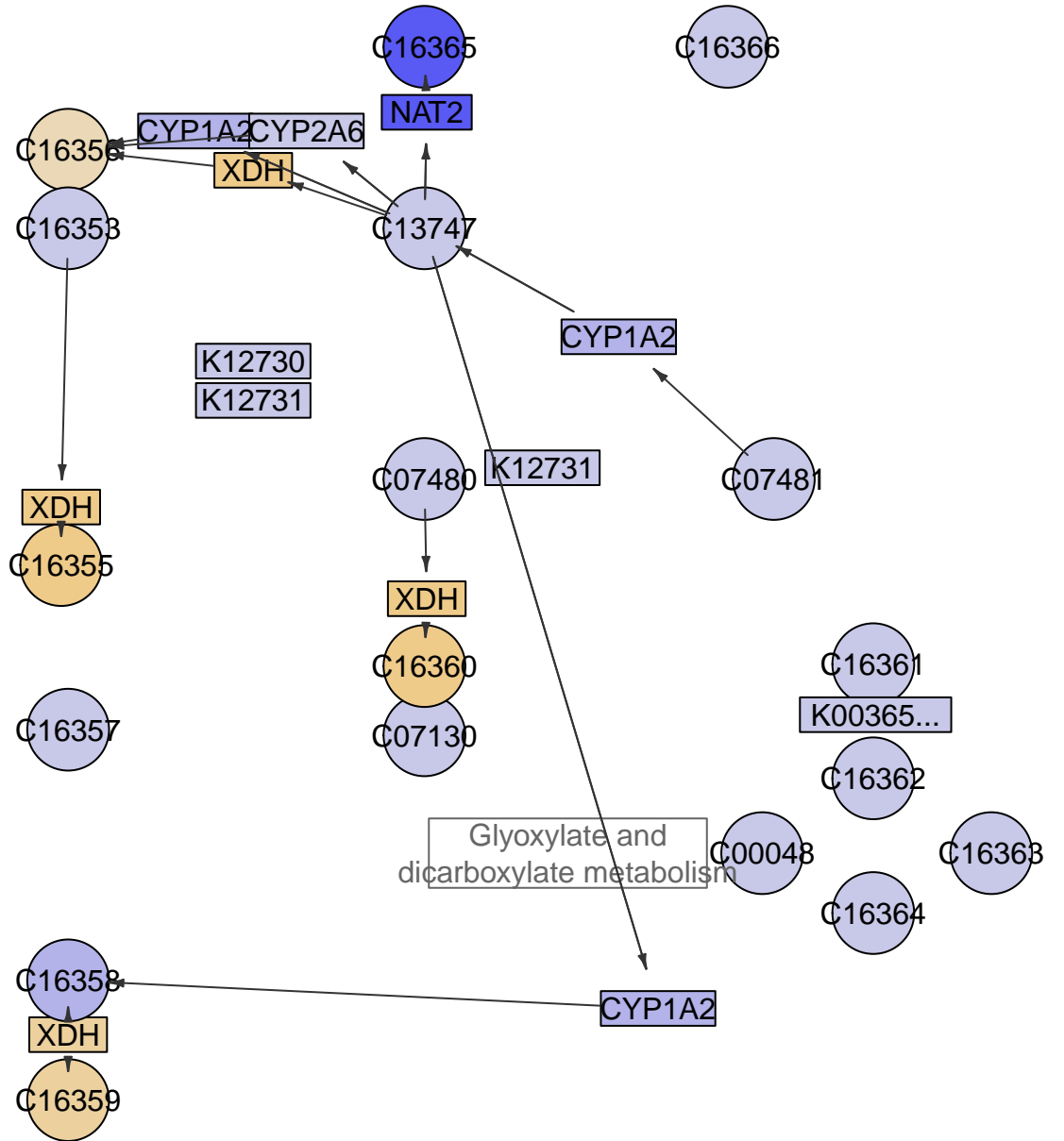
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-193

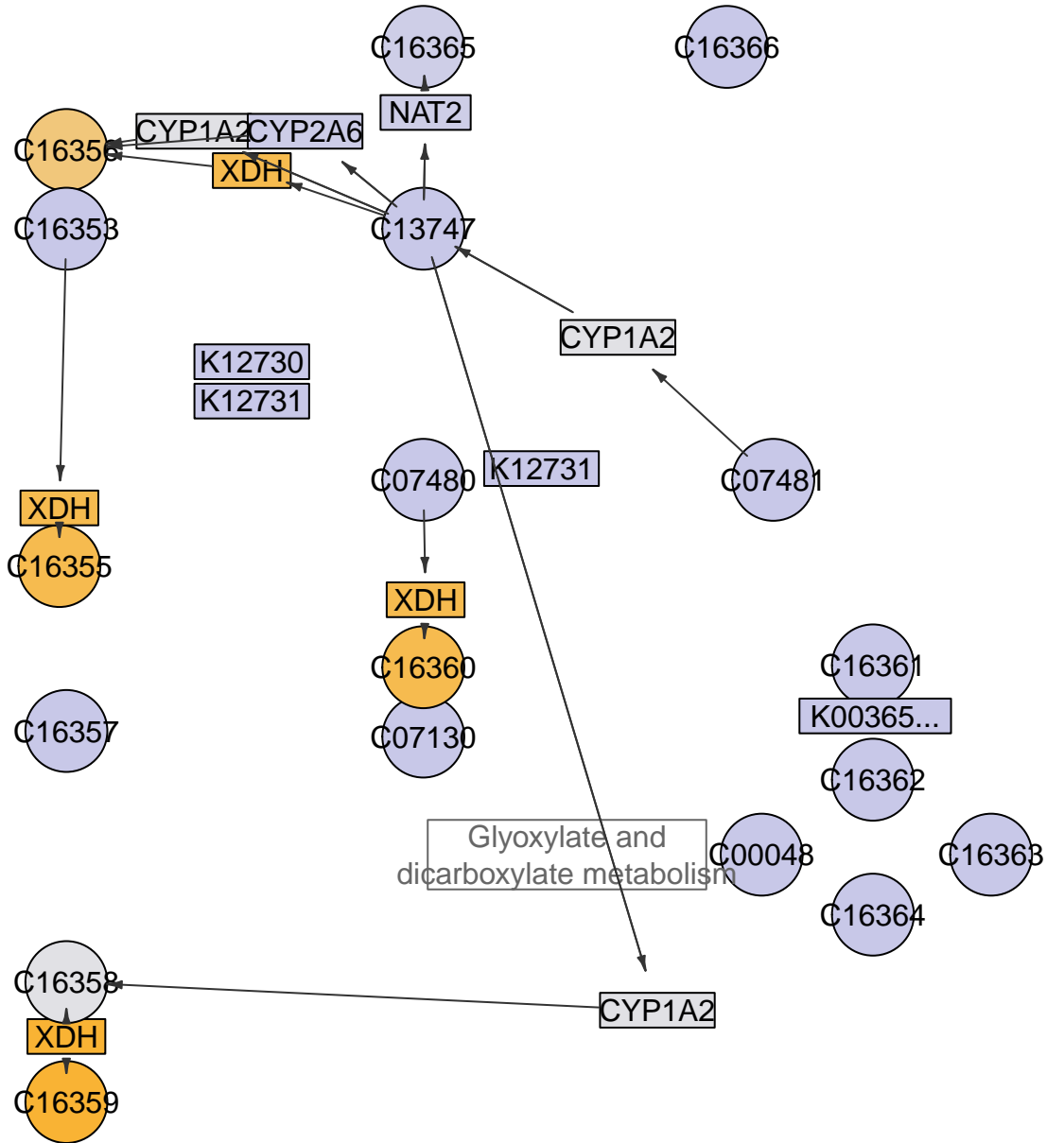
C01762

K12729

C16352

Purine metabolism

C00385

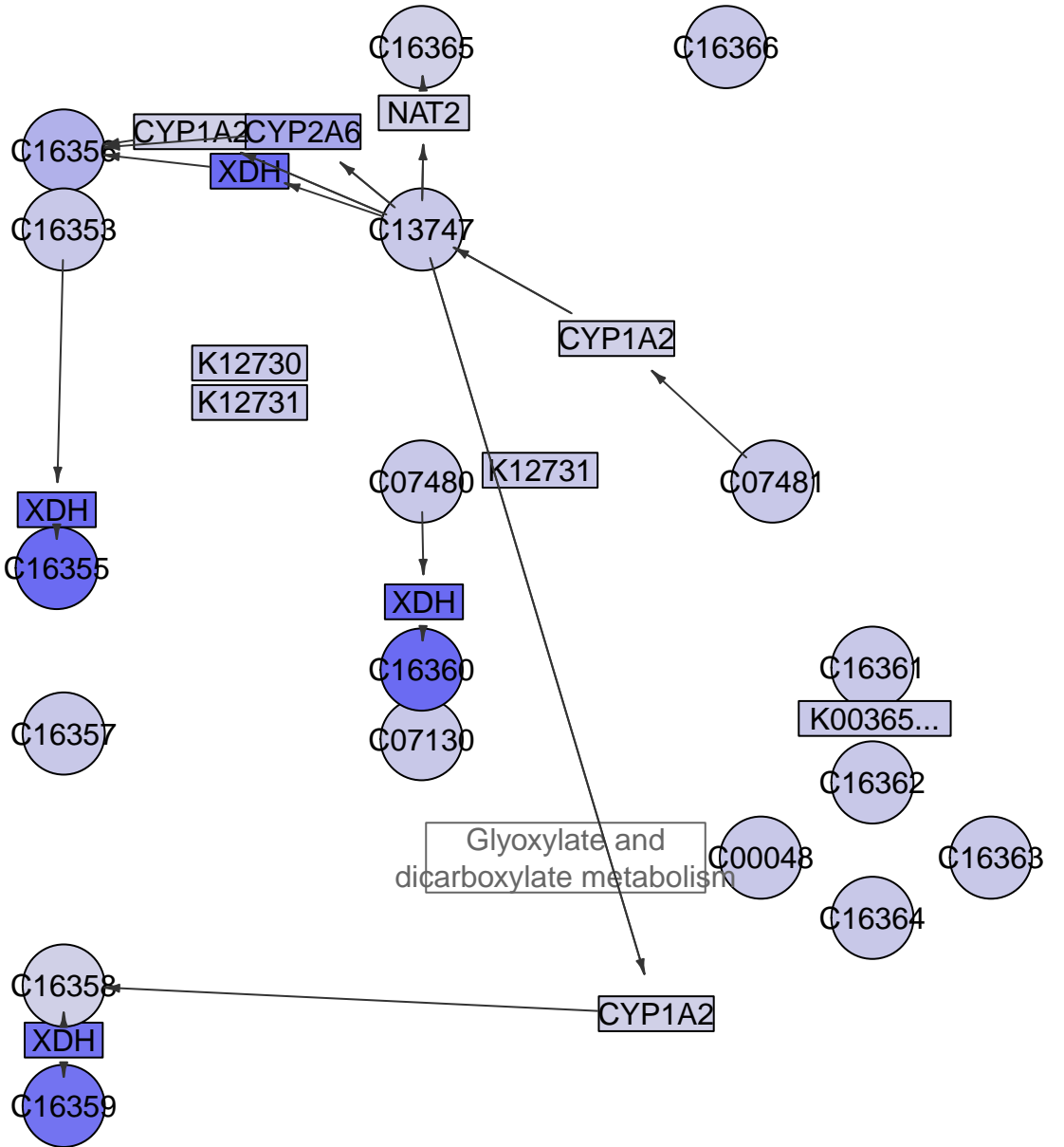


Caffeine metabolism
MPI-222

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-225

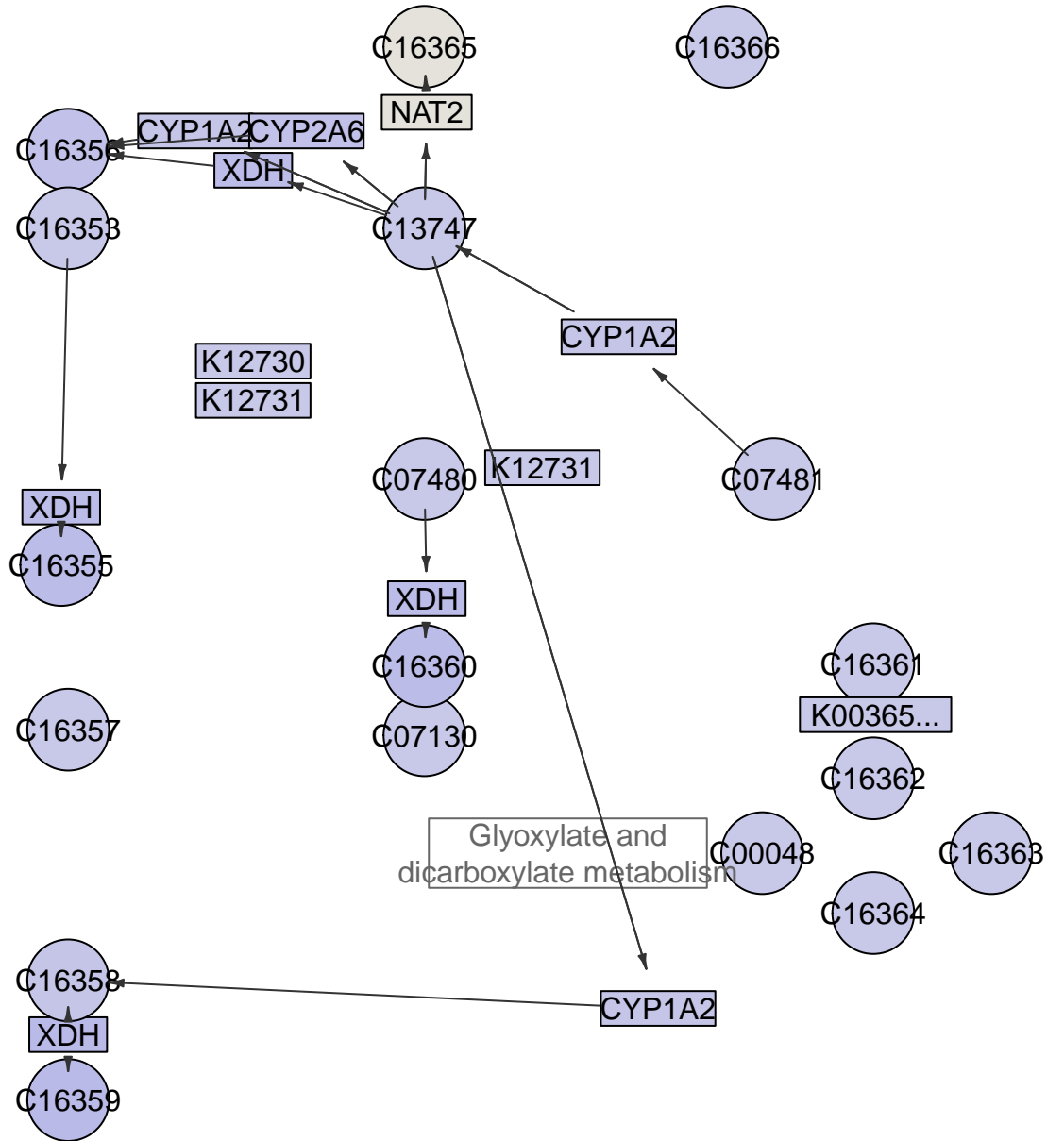
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-242

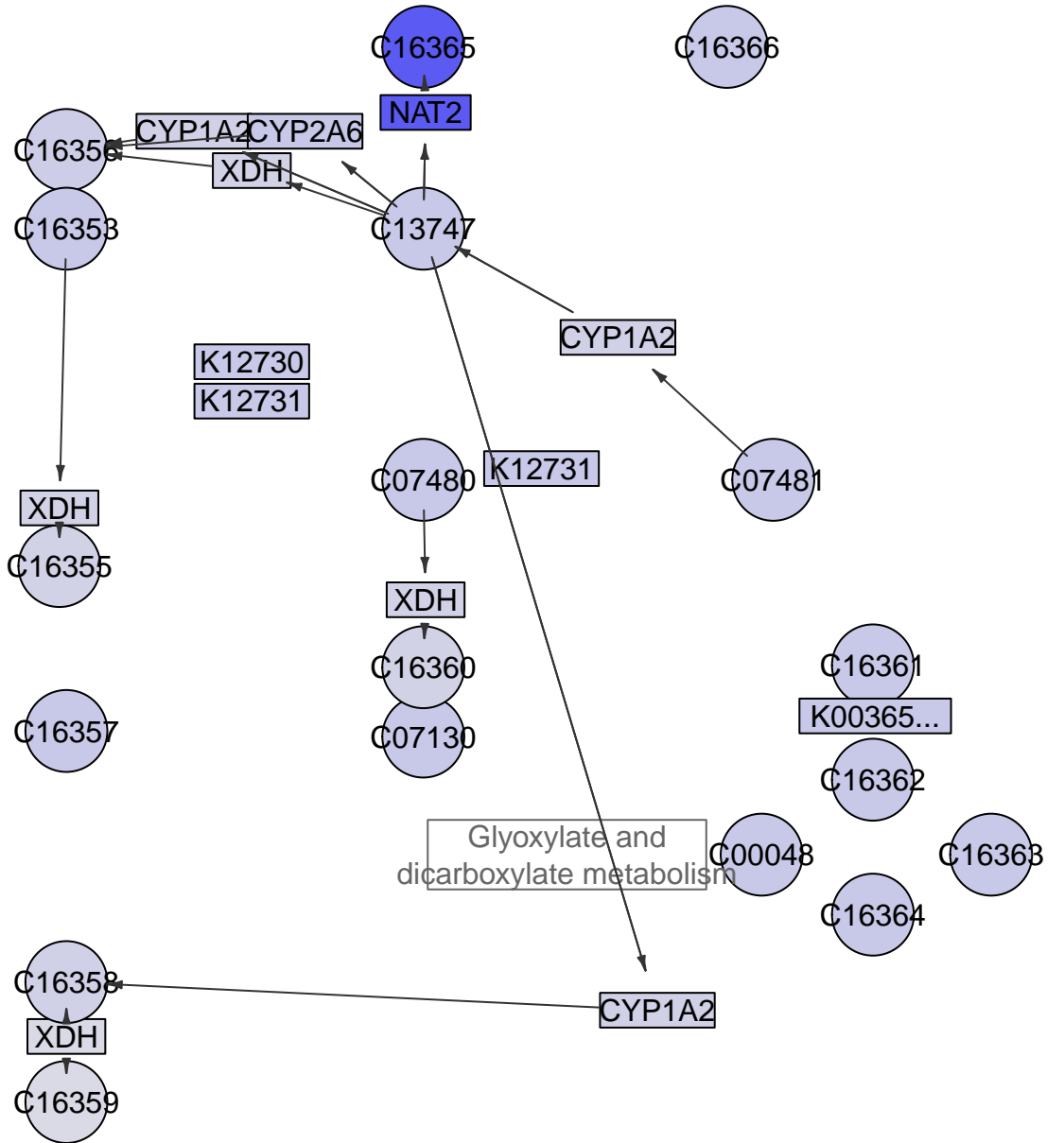
C01762

K12729

C16352

Purine metabolism

C00385

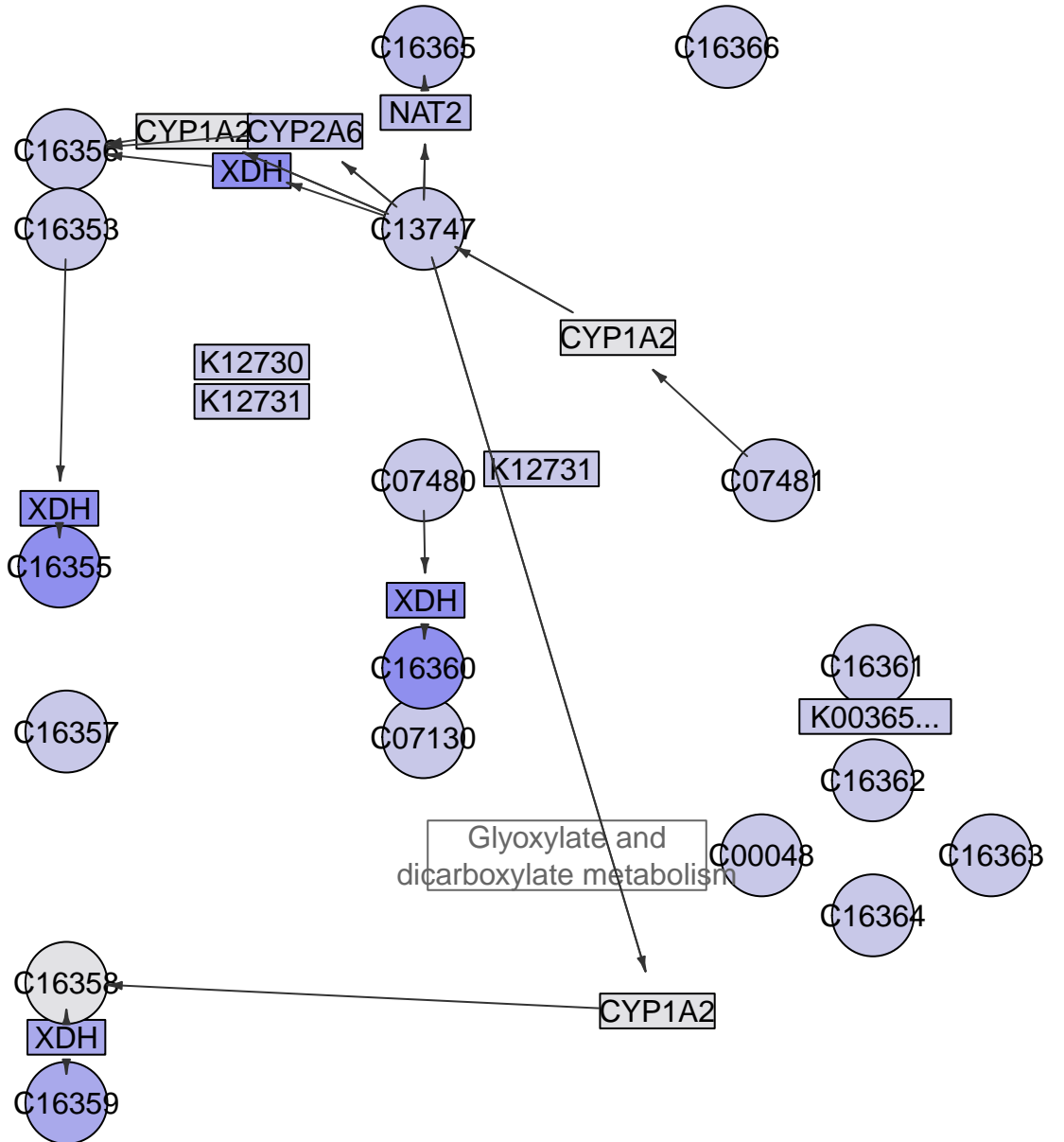


Caffeine metabolism
MPI-248

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-249

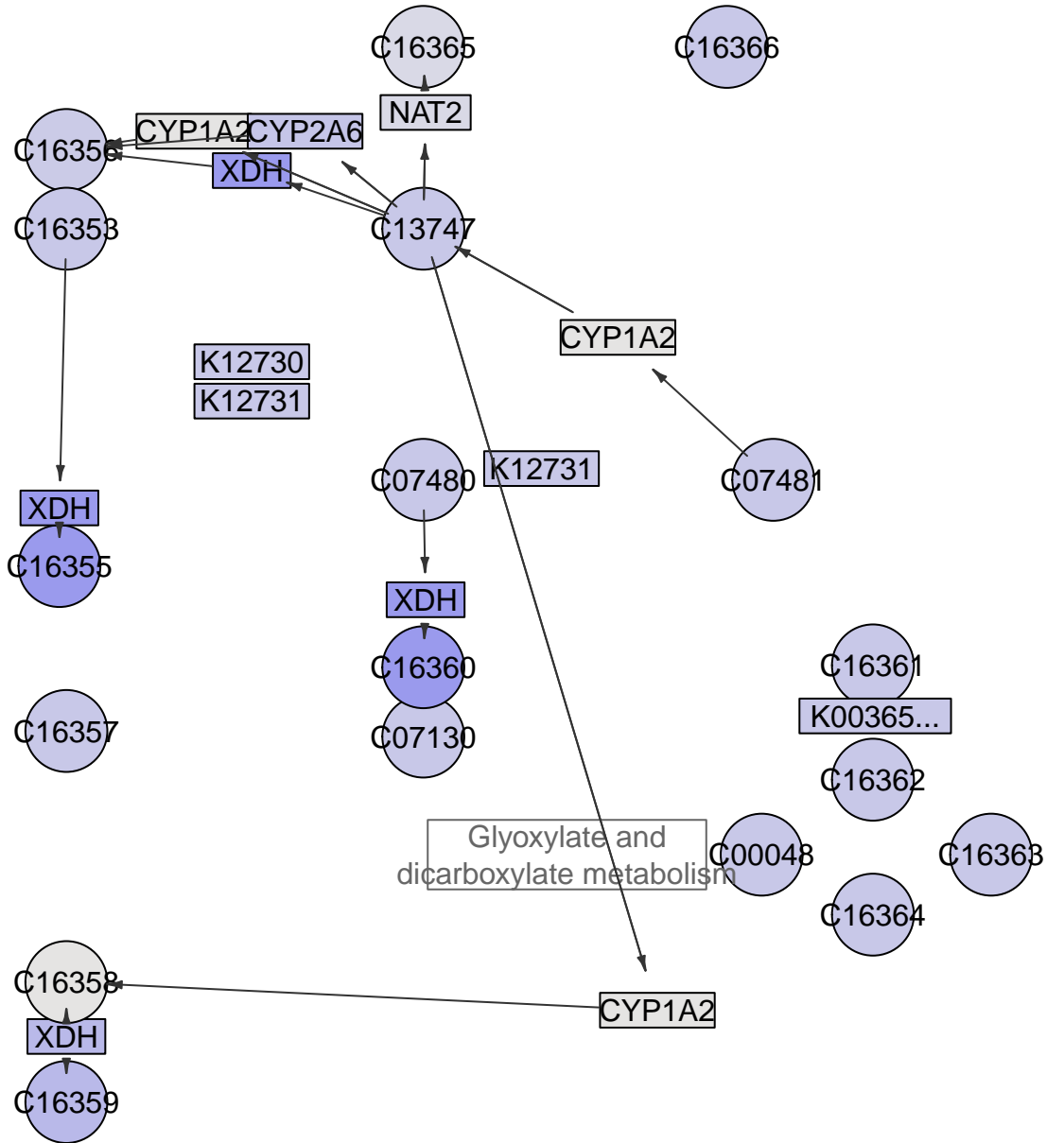
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-250

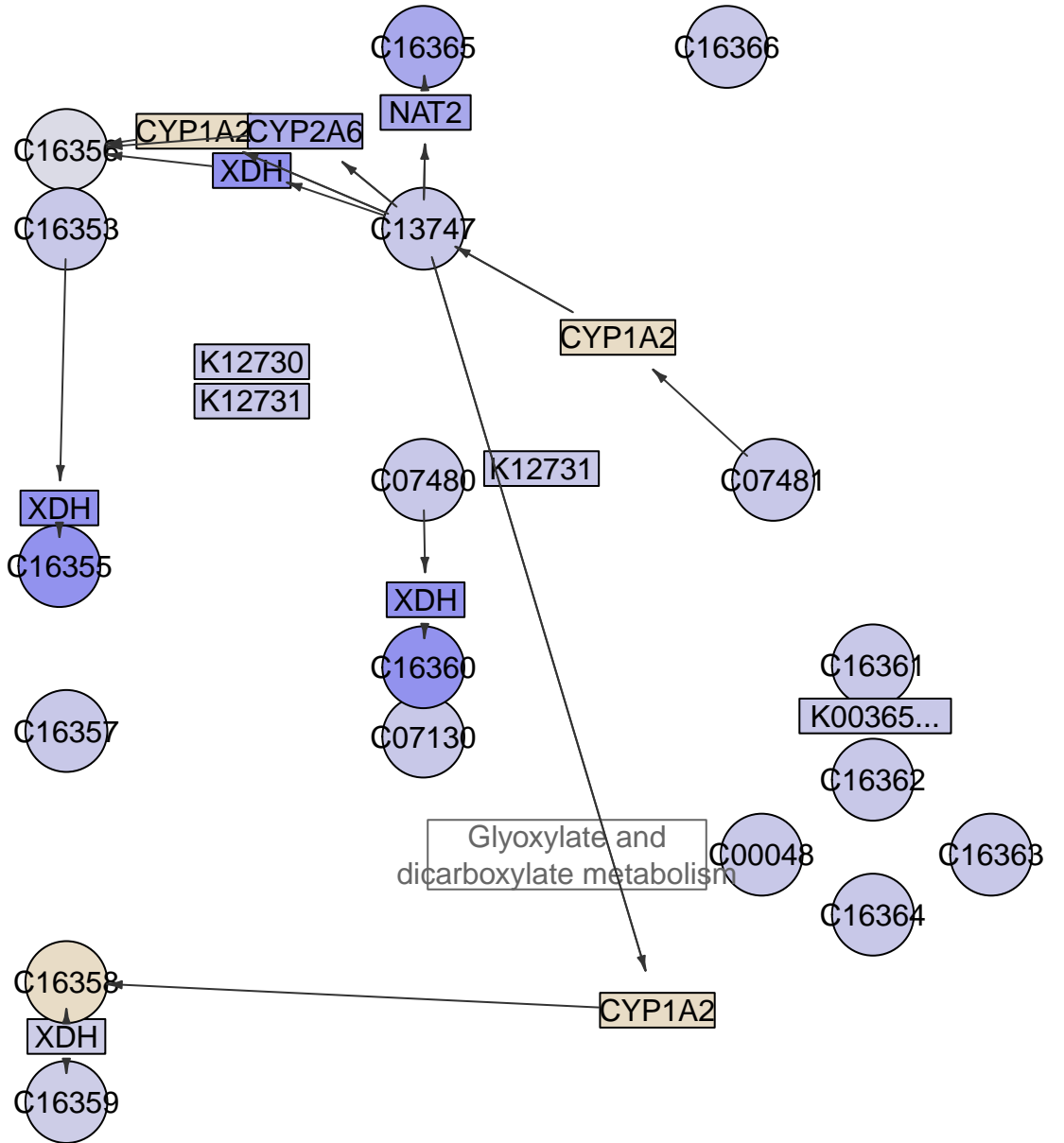
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-008

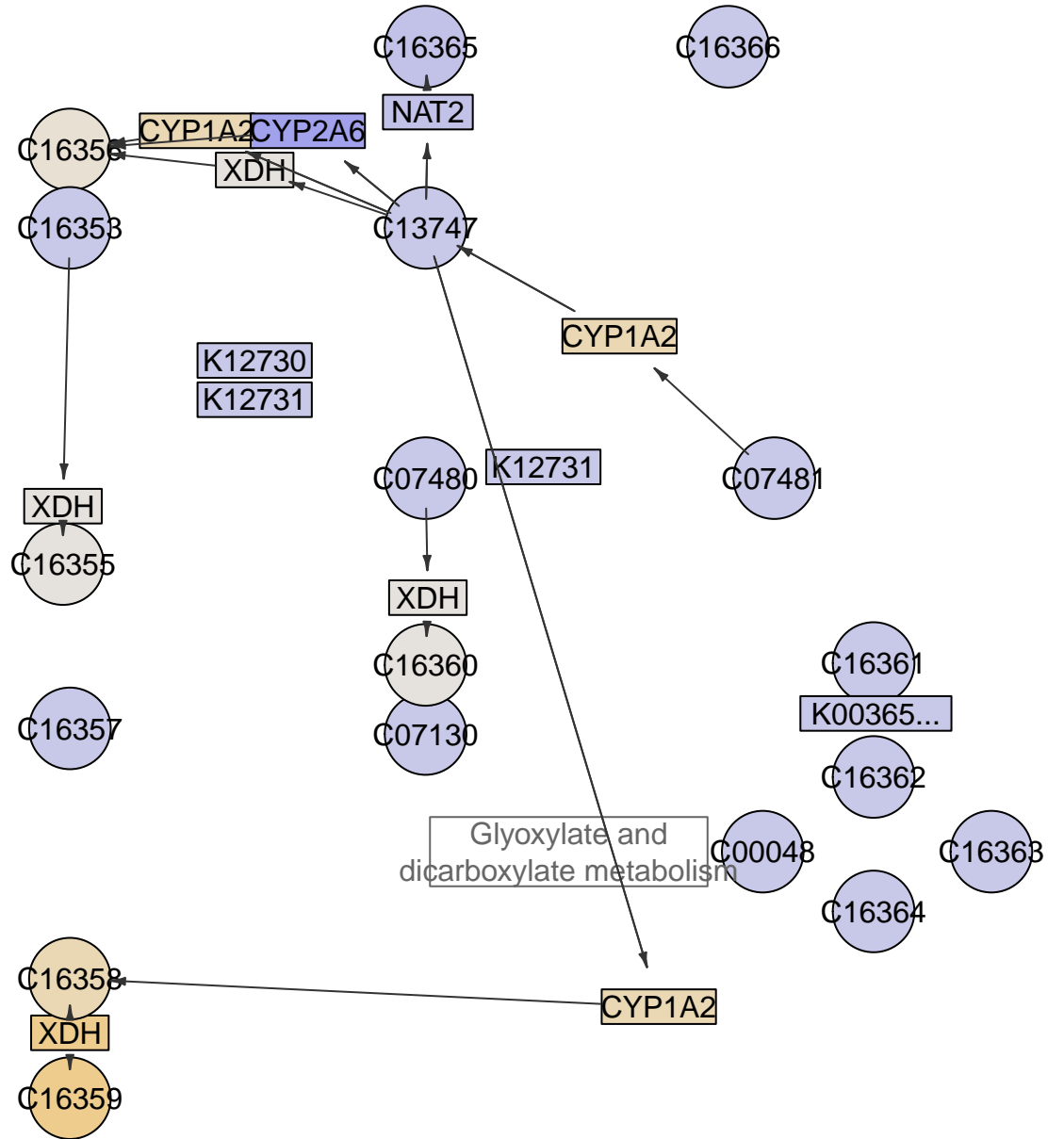
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-009

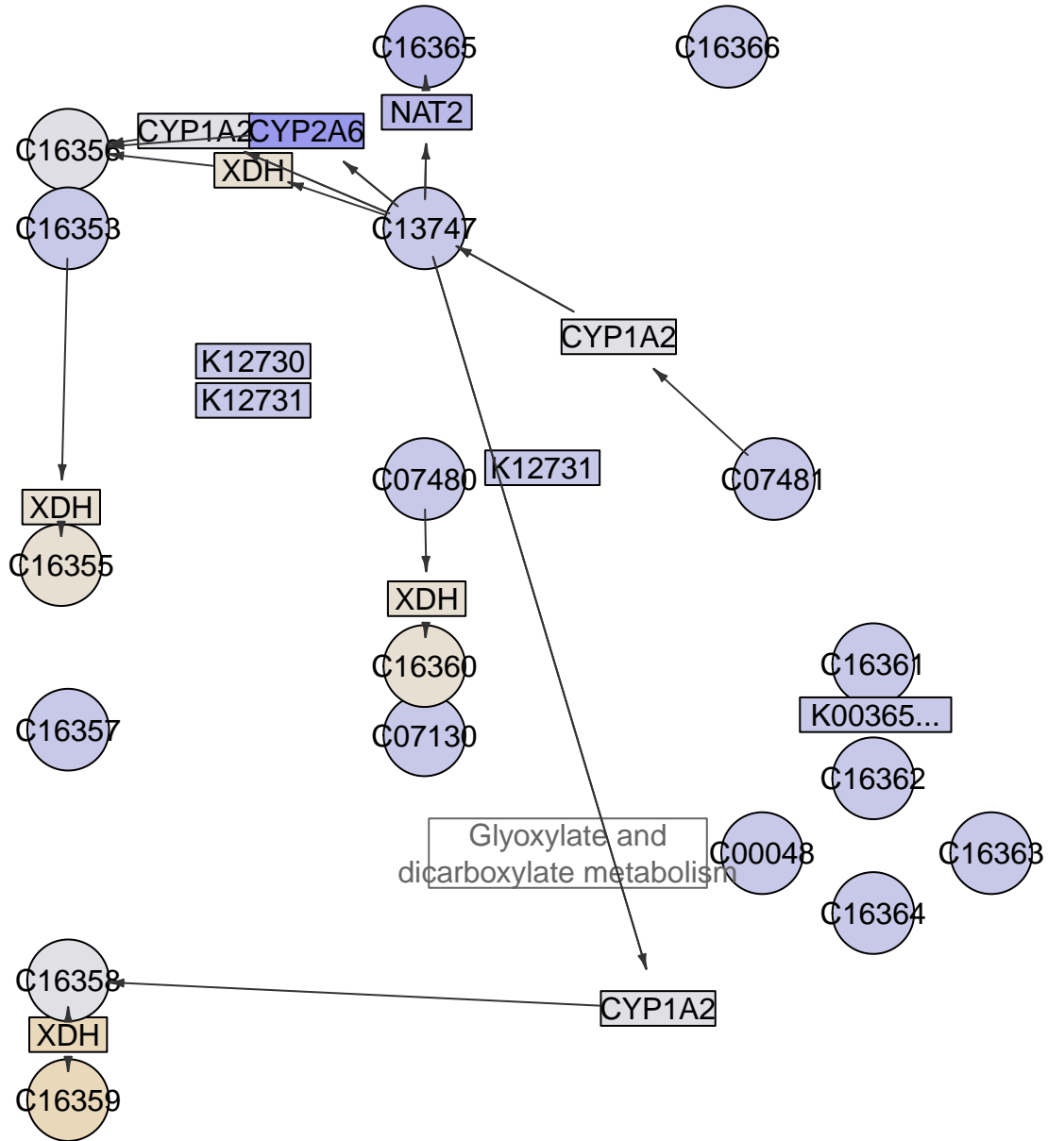
C01762

K12729

C16352

Purine metabolism

C00385



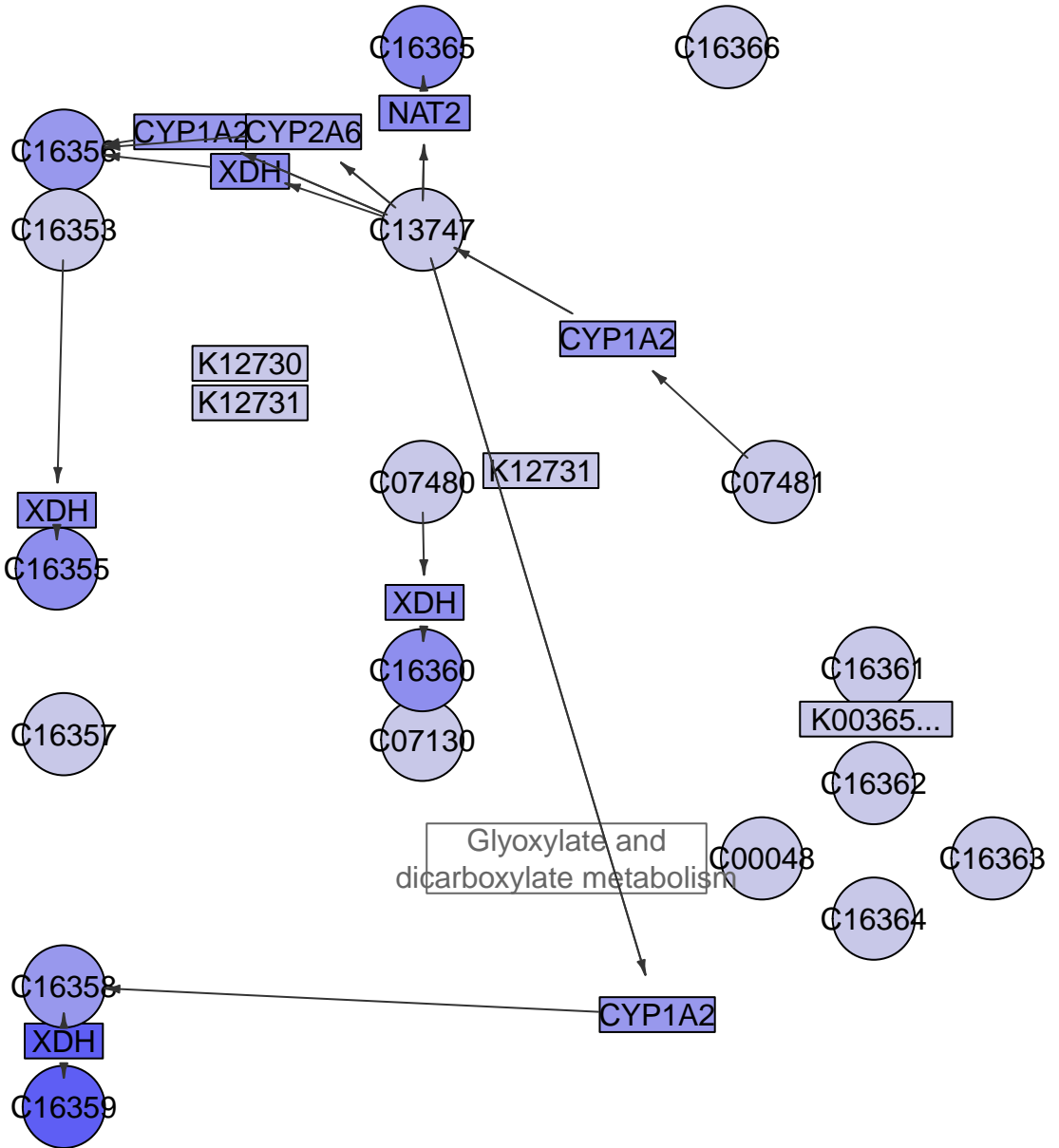
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-012

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

C00048

Caffeine metabolism
MPI-013

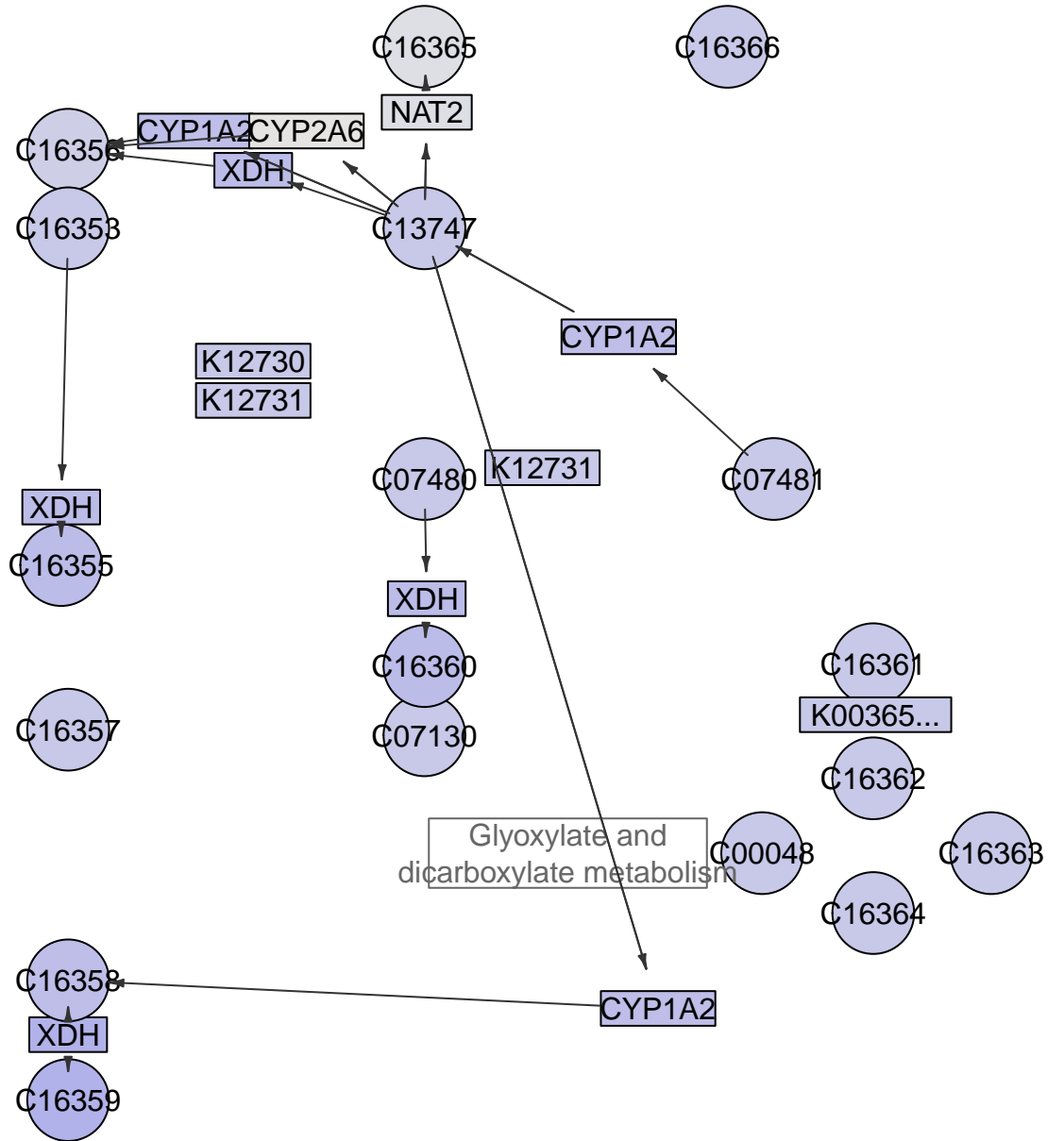
C01762

K12729

C16352

Purine metabolism

C00385

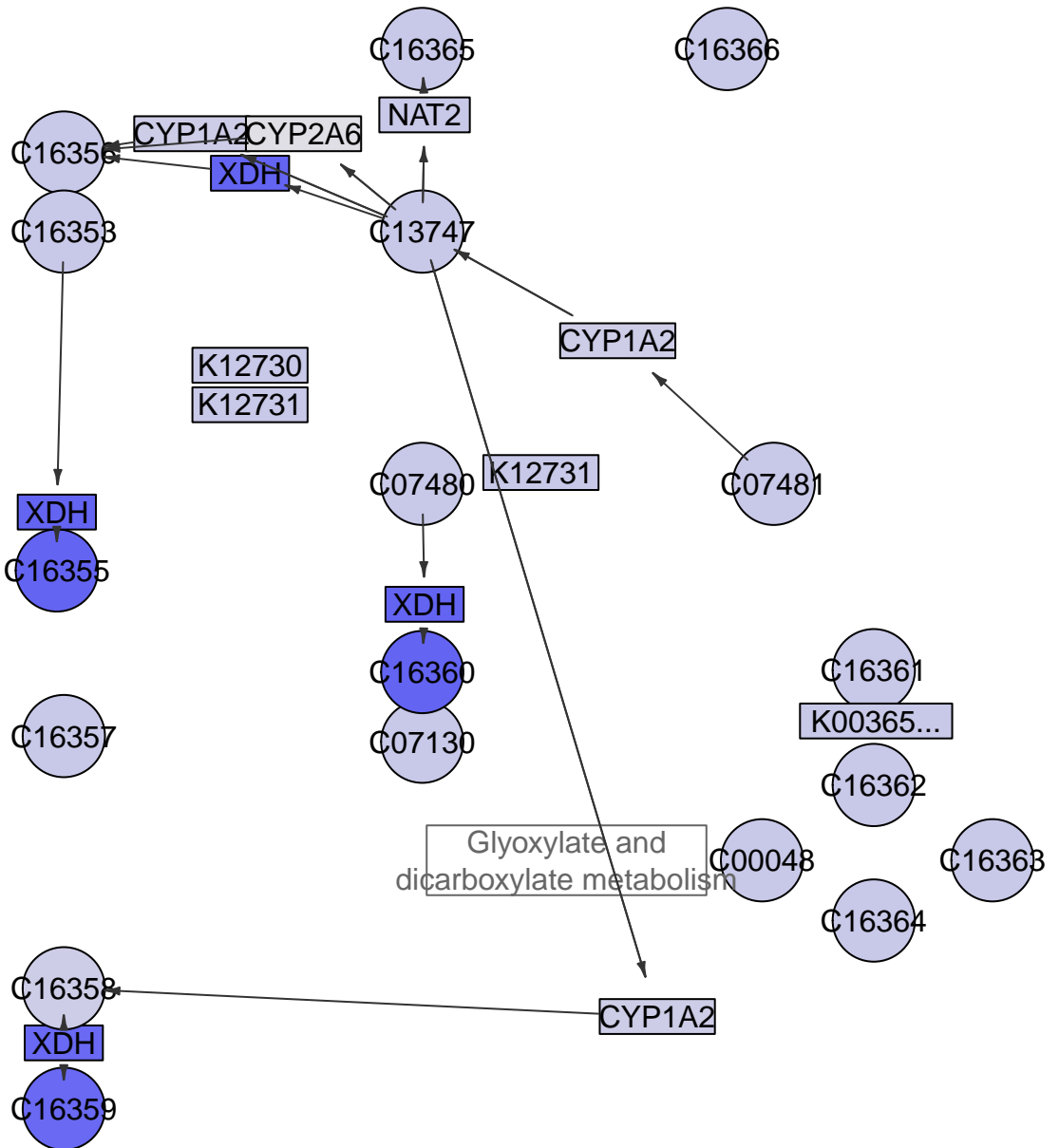


Caffeine metabolism
MPI-014

C01762

K12729

C16352



Purine metabolism

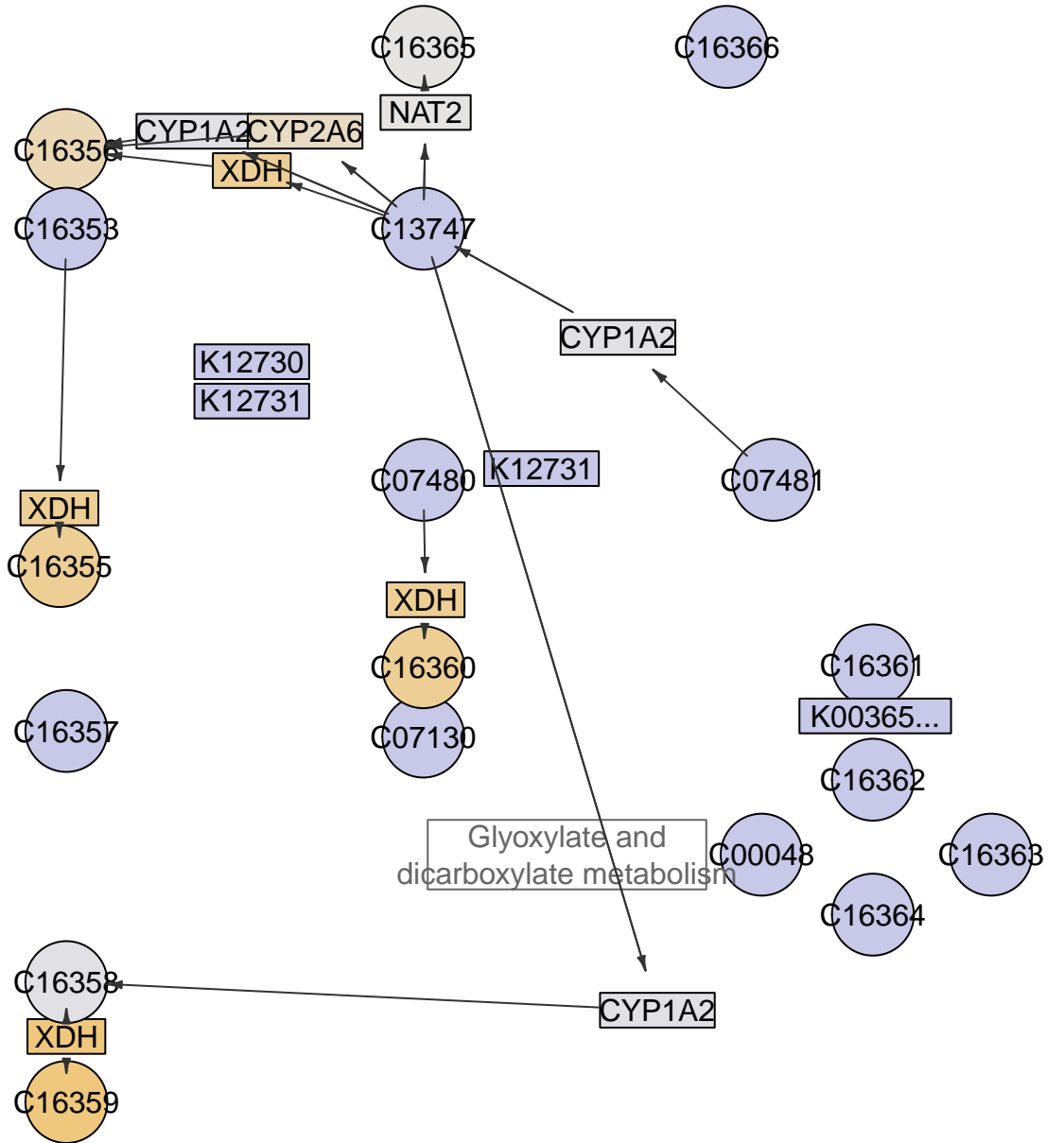
C00385

Caffeine metabolism
MPI-015

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-021

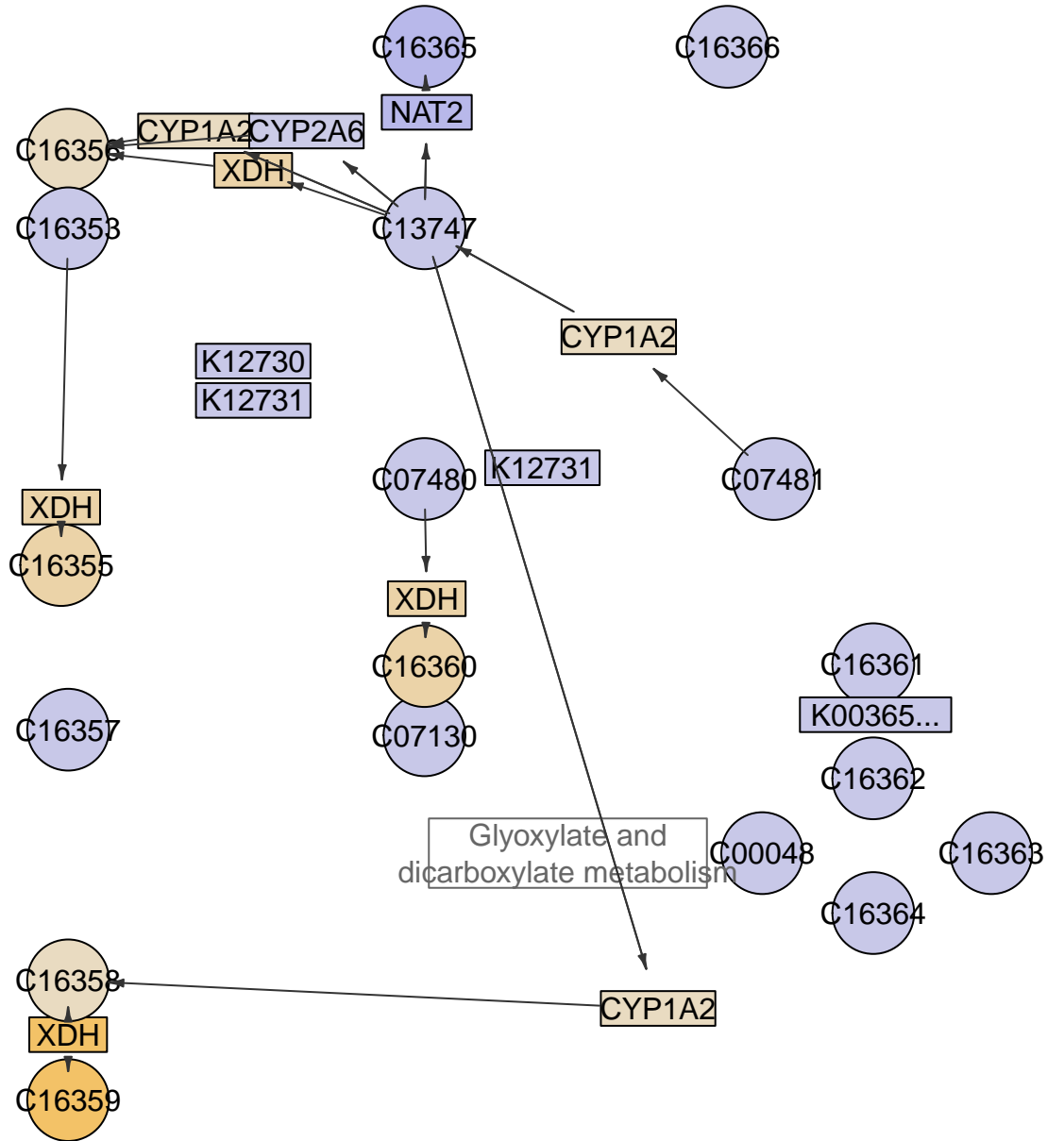
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-022

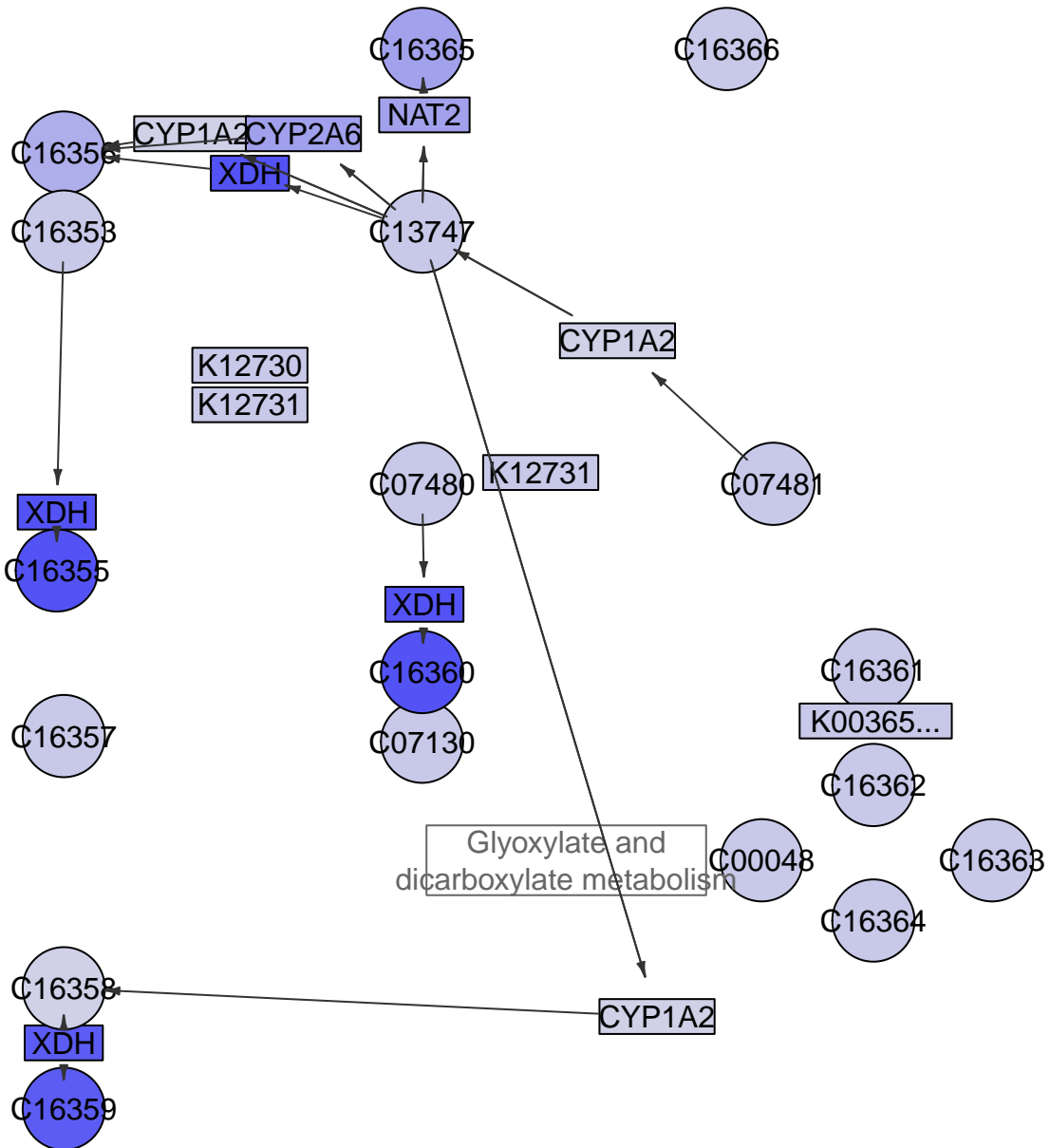
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-025

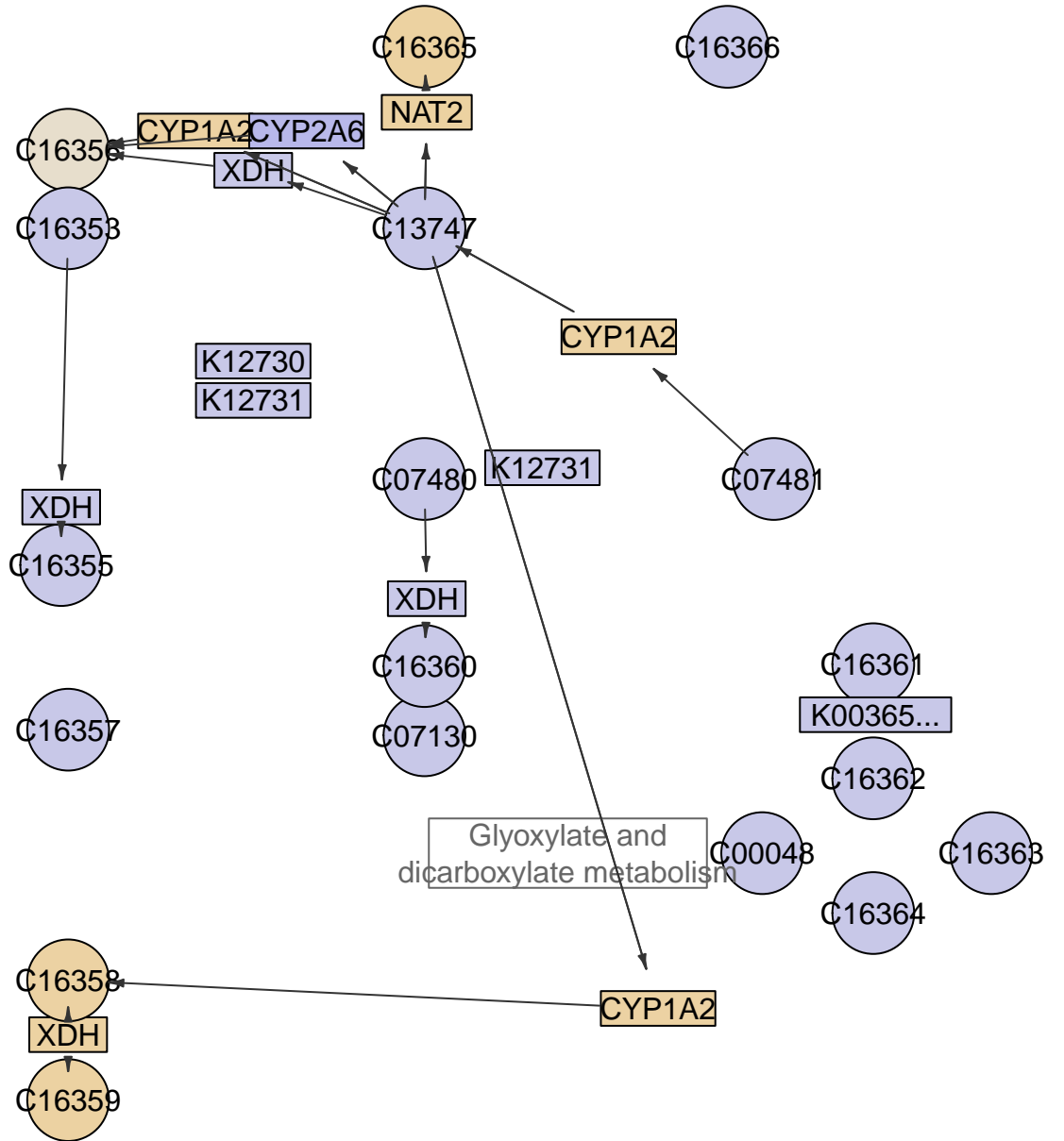
C01762

K12729

C16352

Purine metabolism

C00385

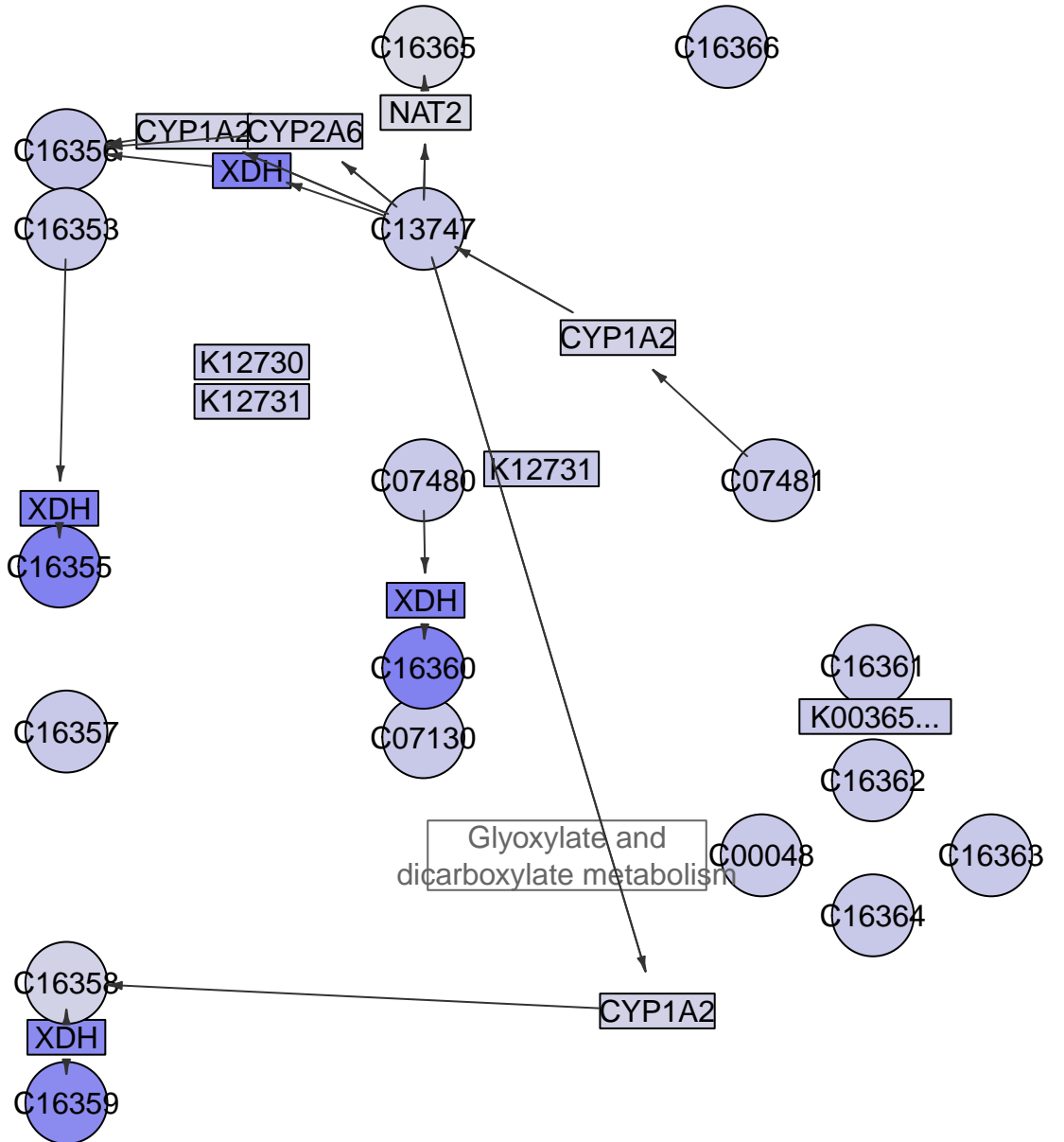


Caffeine metabolism
MPI-029

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-030

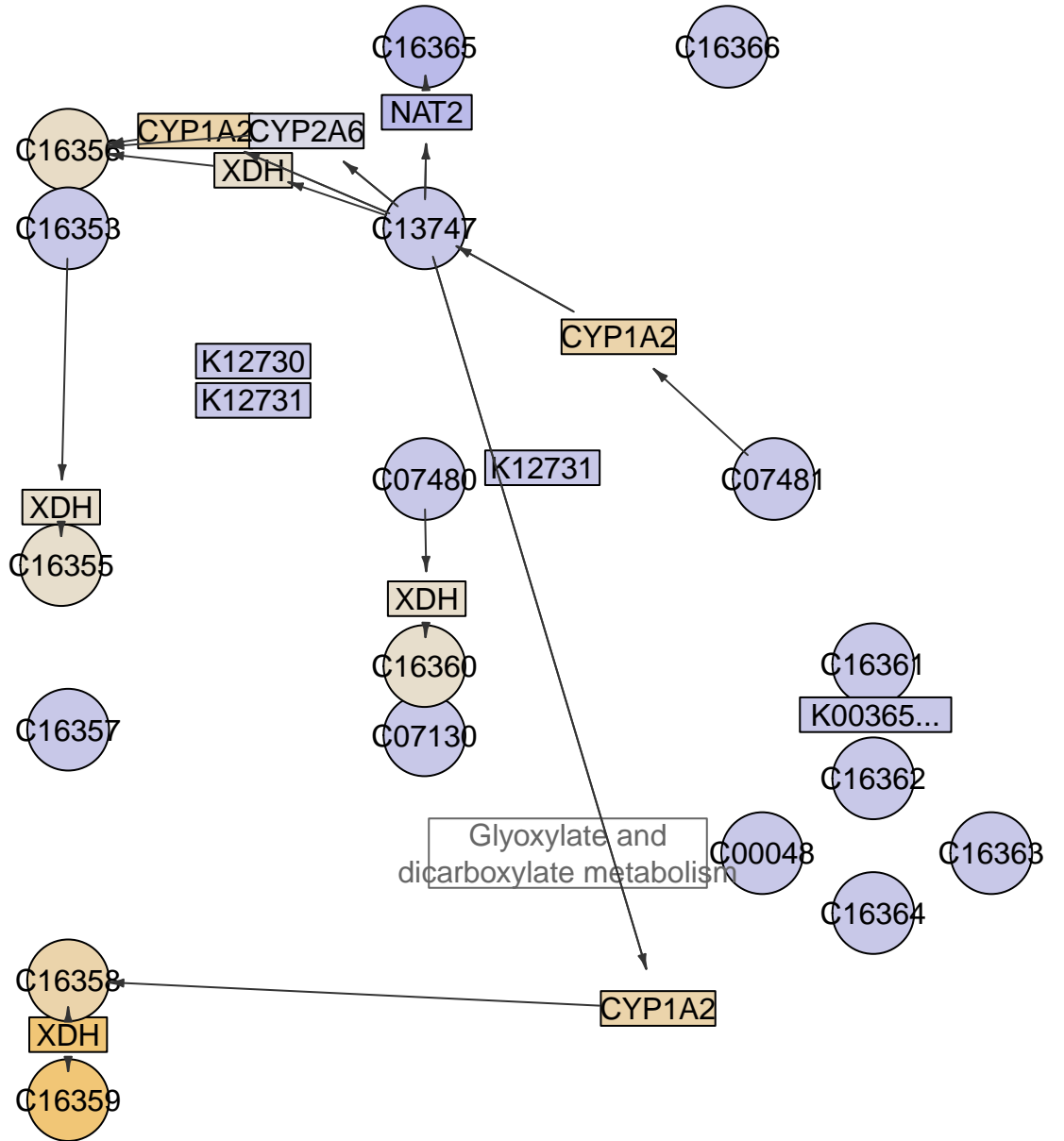
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-031

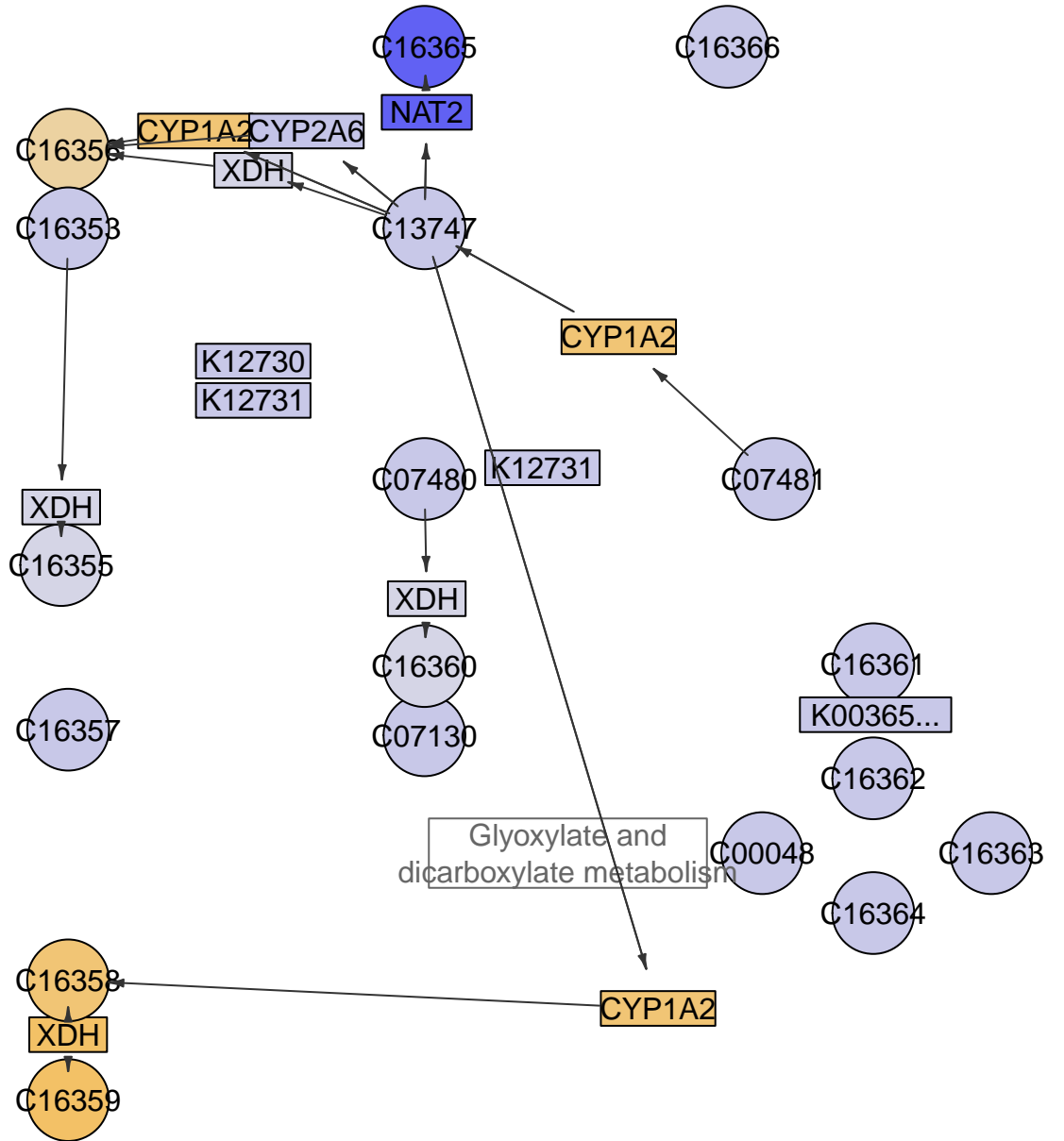
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-039

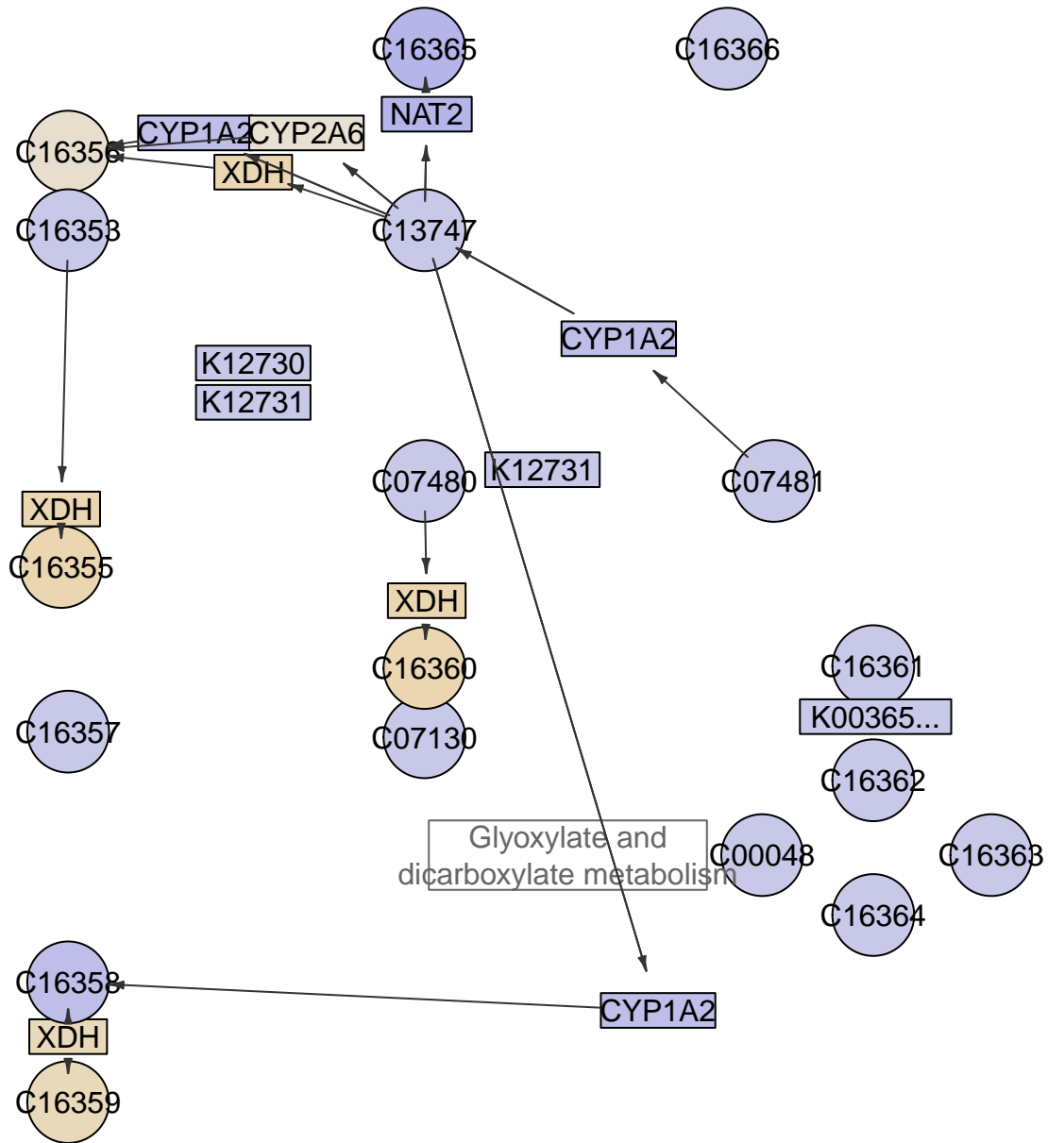
C01762

K12729

C16352

Purine metabolism

C00385

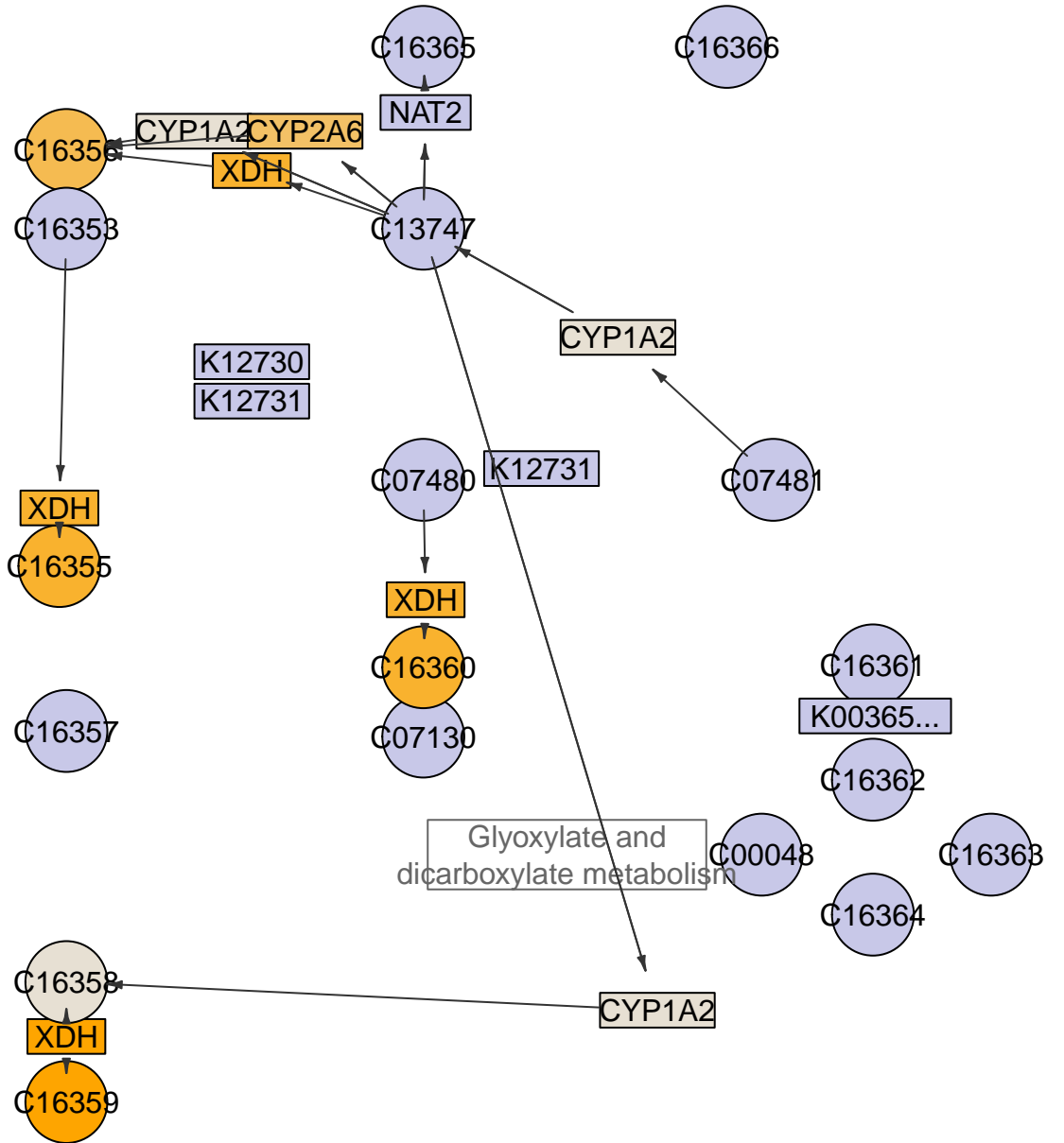


Caffeine metabolism
MPI-040

C01762

K12729

C16352



Purine metabolism

C00385

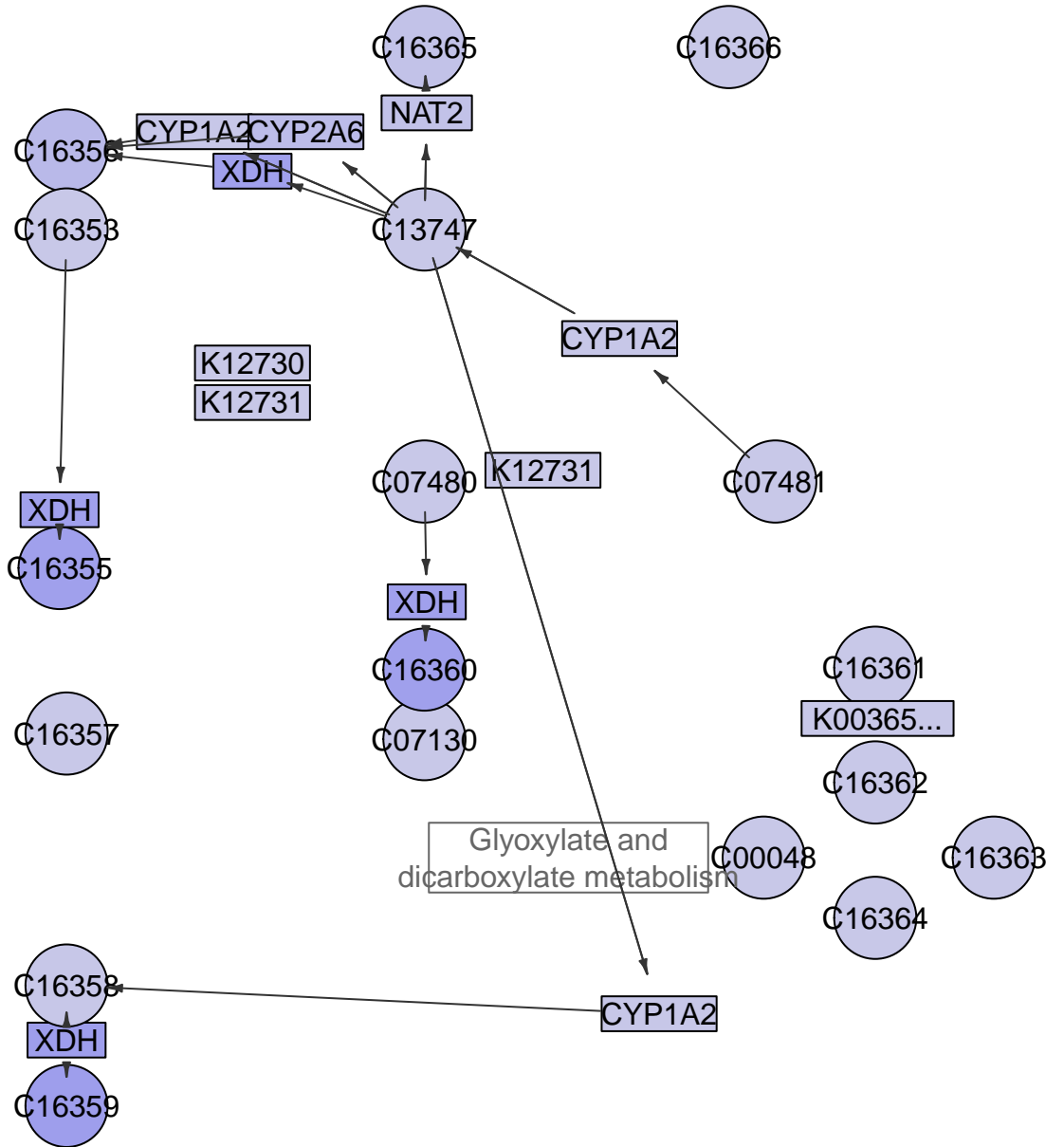
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-045

C01762

K12729

C16352



Purine metabolism

C00385

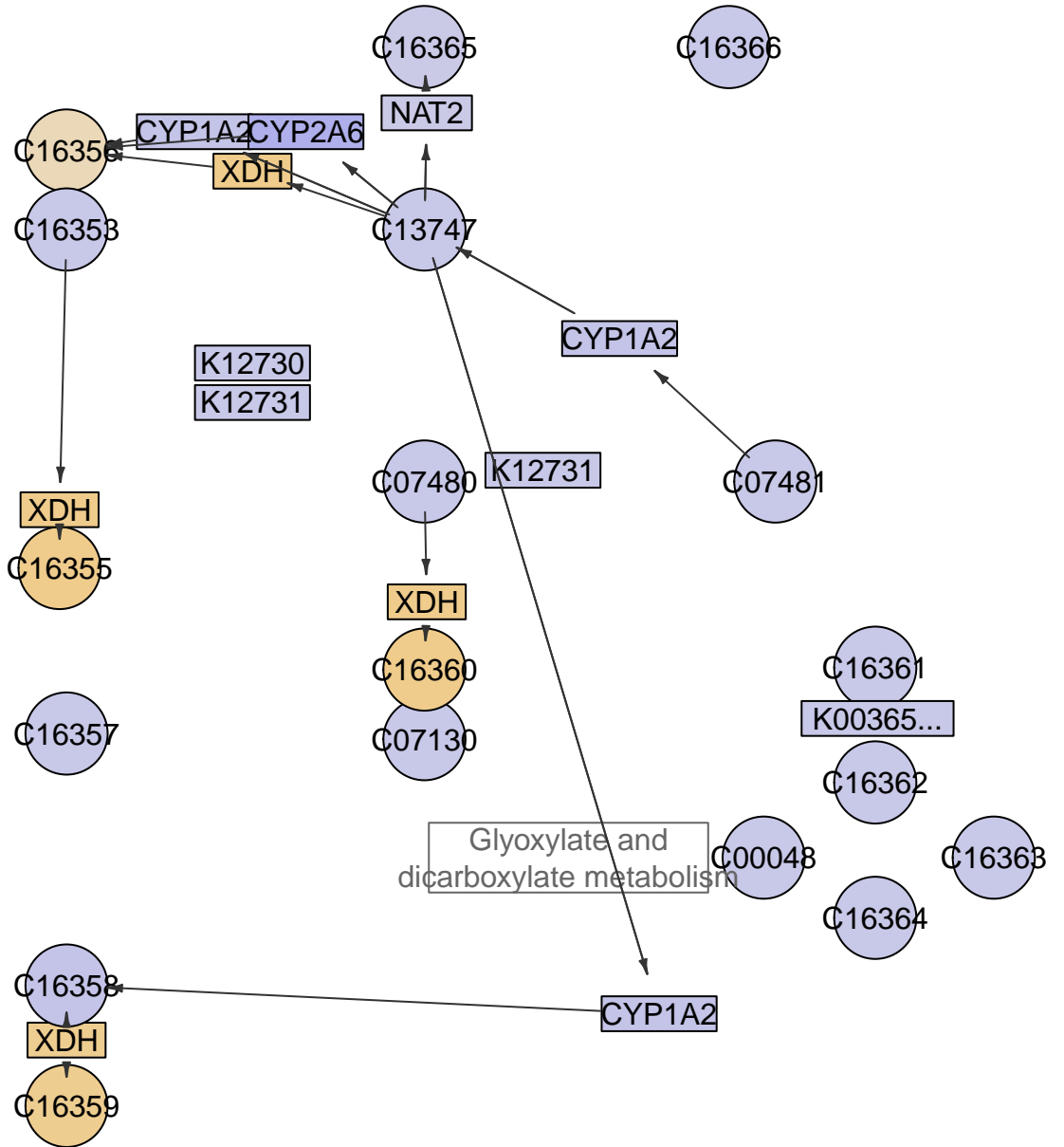
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-047

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-063

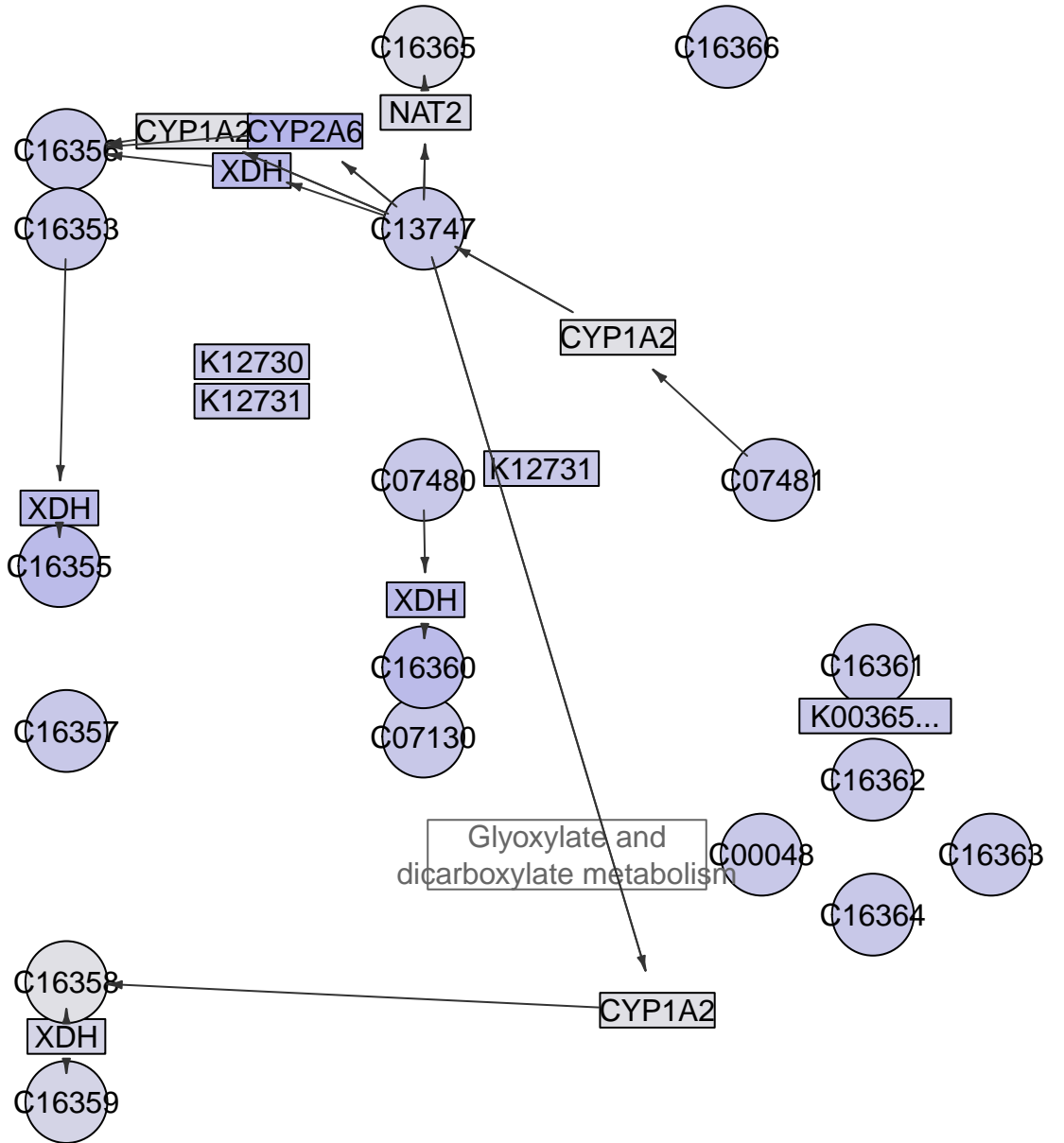
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-069

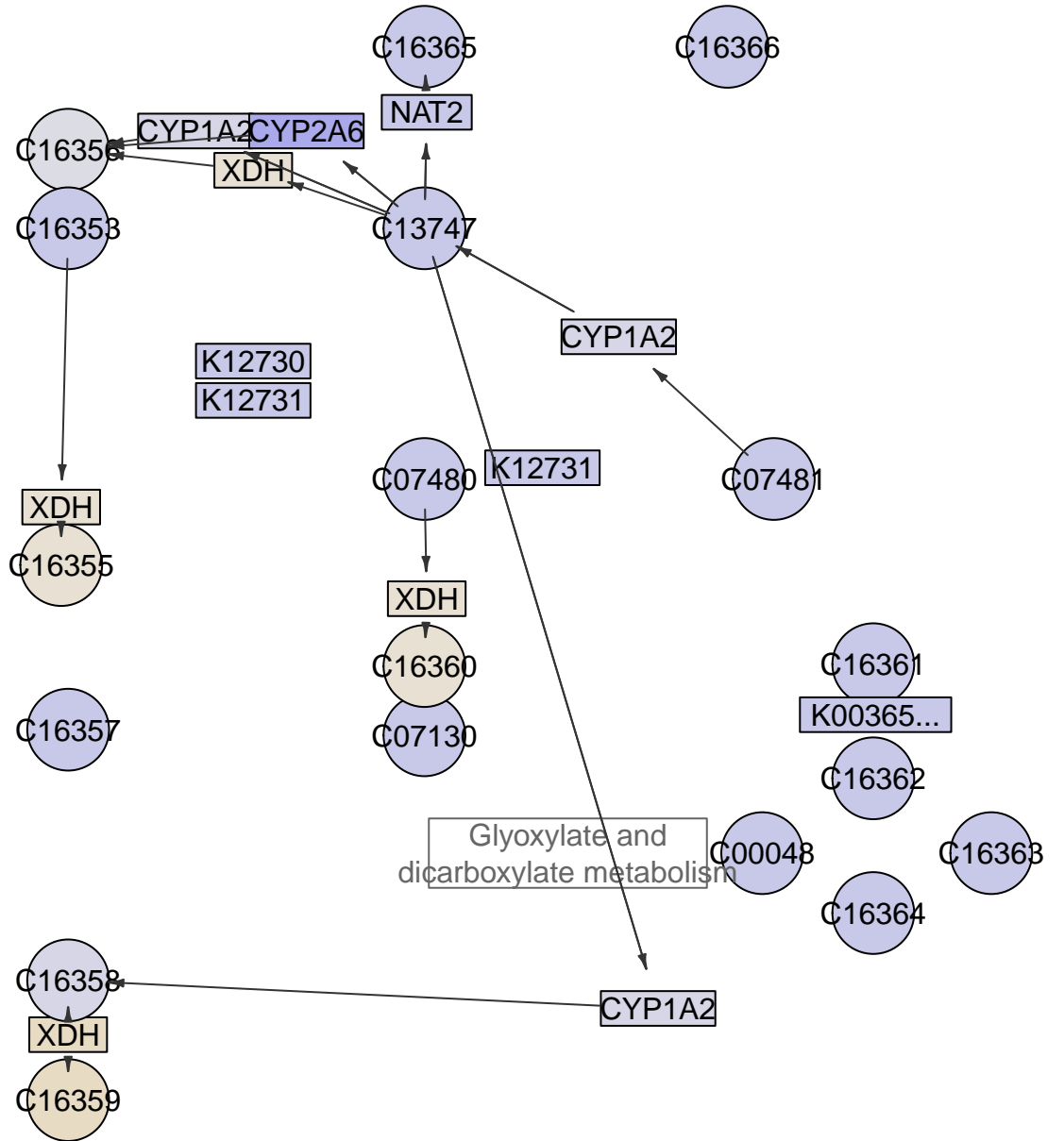
C01762

K12729

C16352

Purine metabolism

C00385

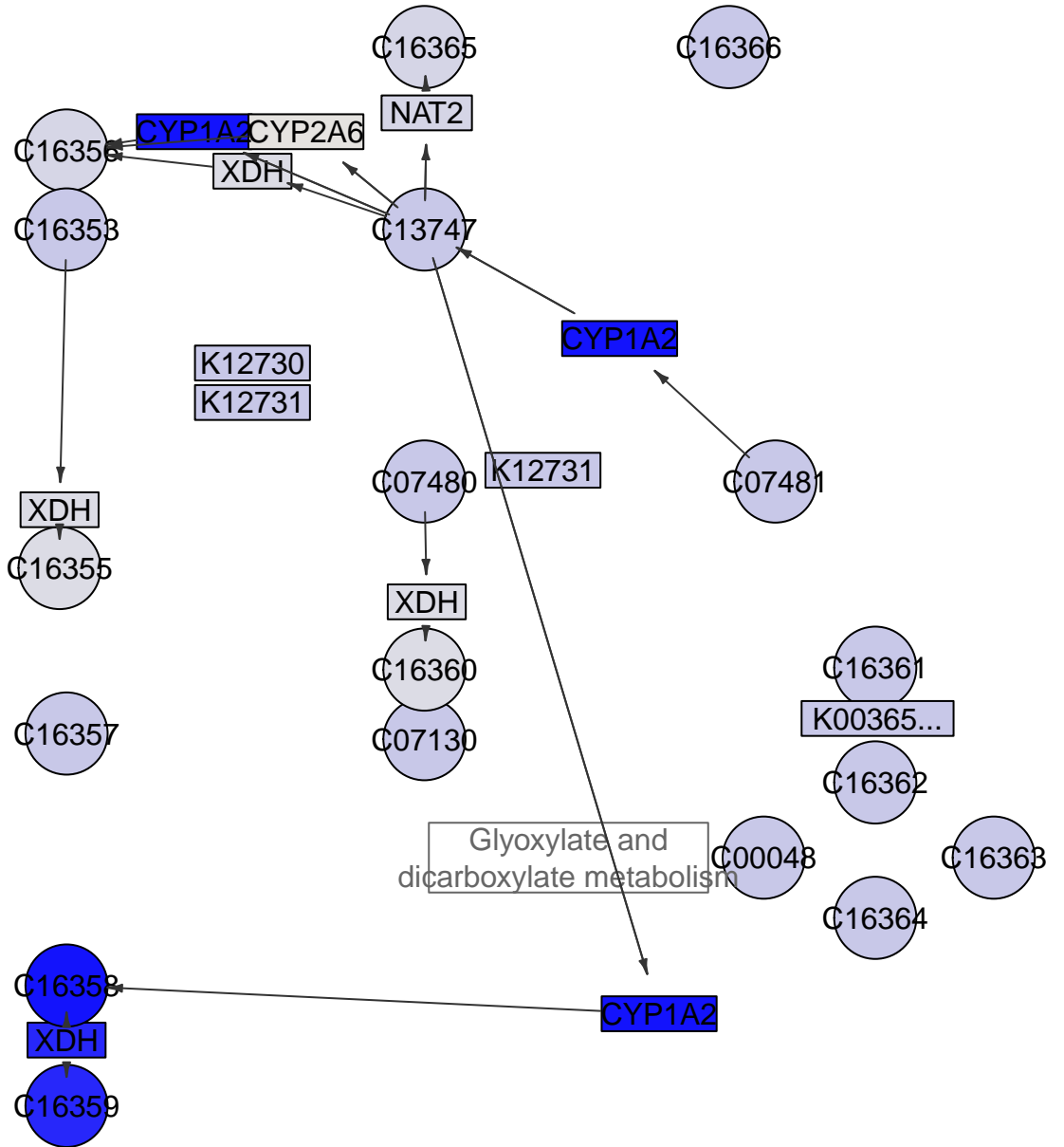


Caffeine metabolism
MPI-083

C01762

K12729

C16352



Purine metabolism

C00385

Caffeine metabolism
MPI-092

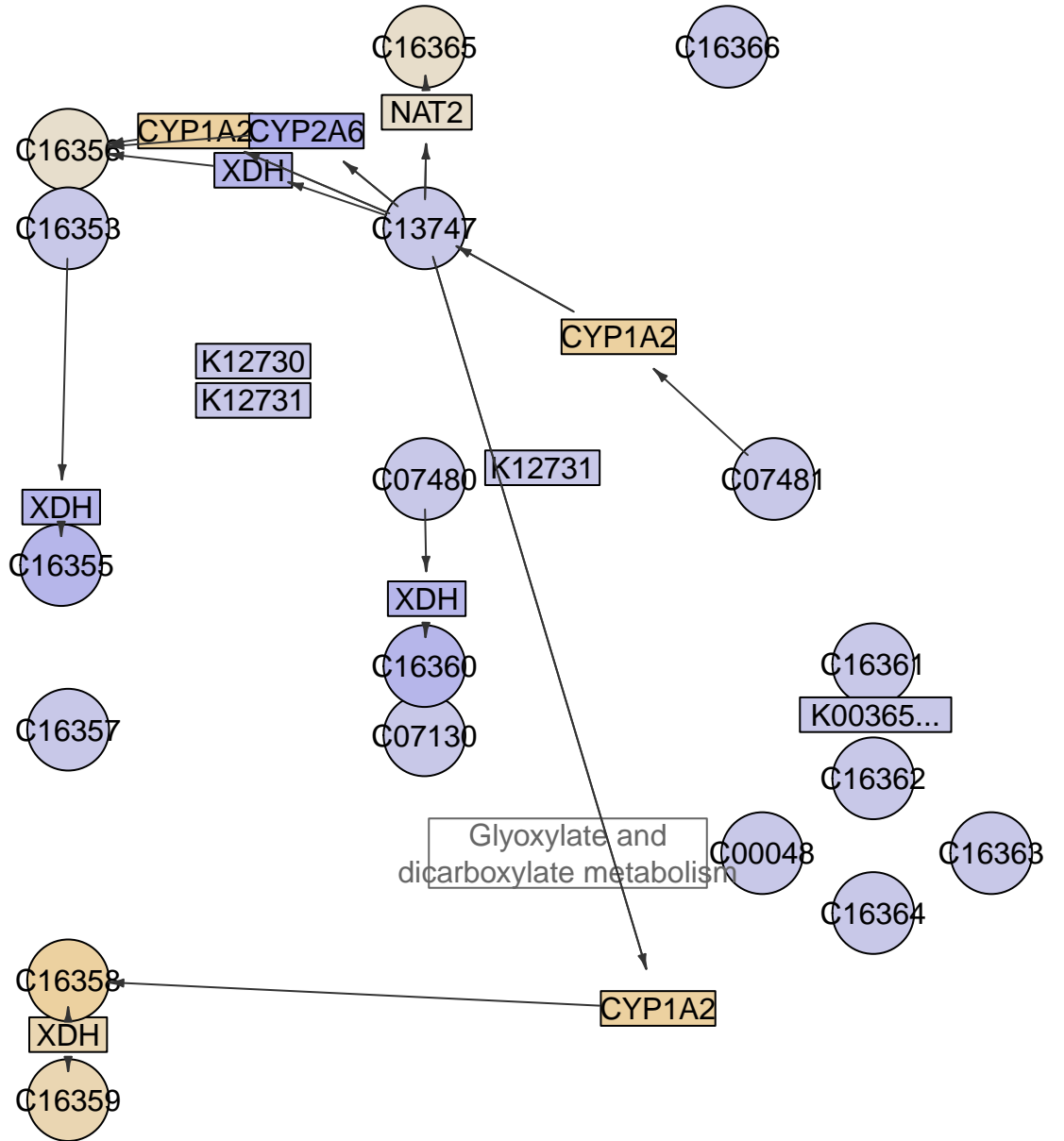
C01762

K12729

C16352

Purine metabolism

C00385

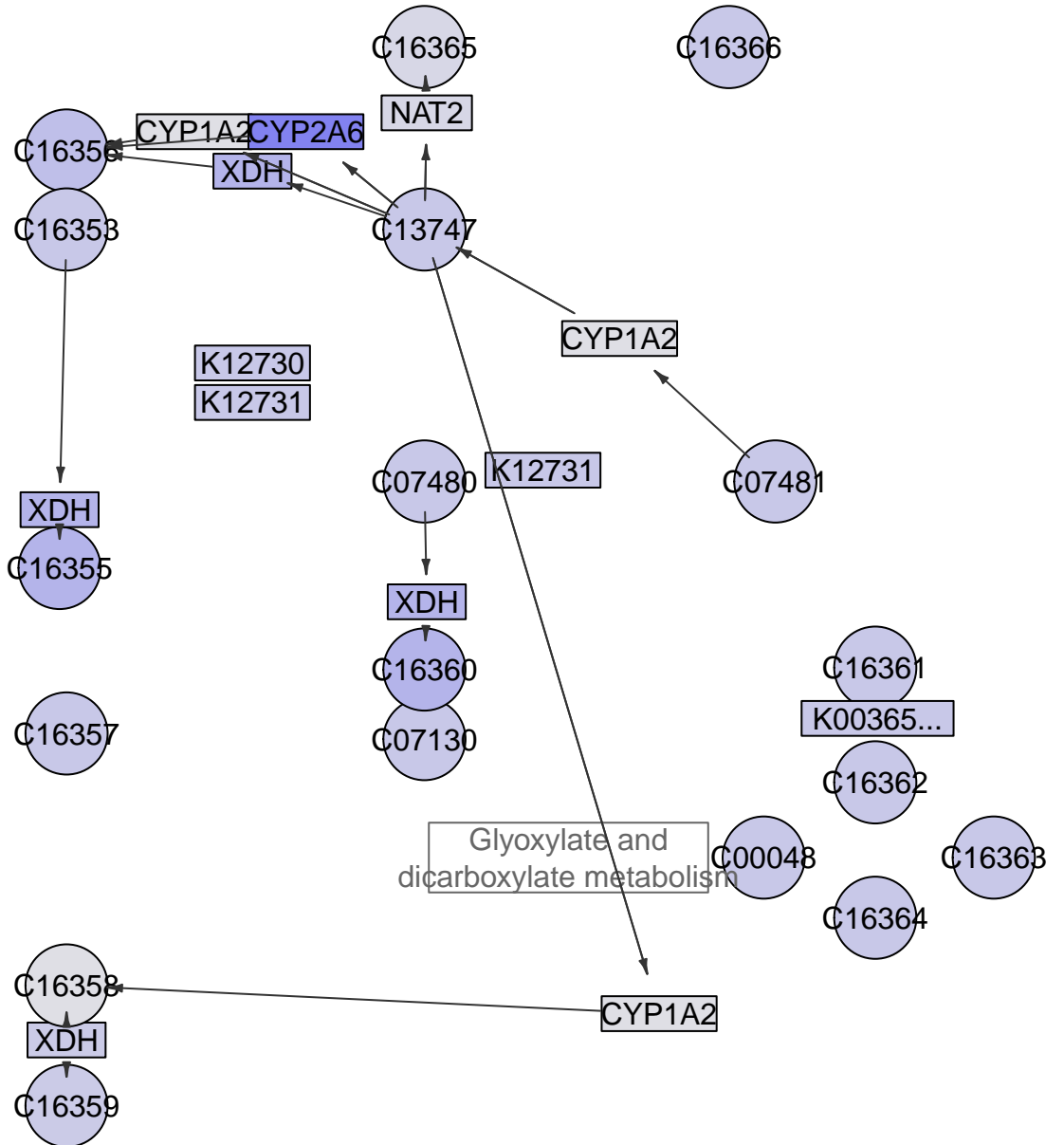


Caffeine metabolism
MPI-105

C01762

K12729

C16352



Purine metabolism

C00385

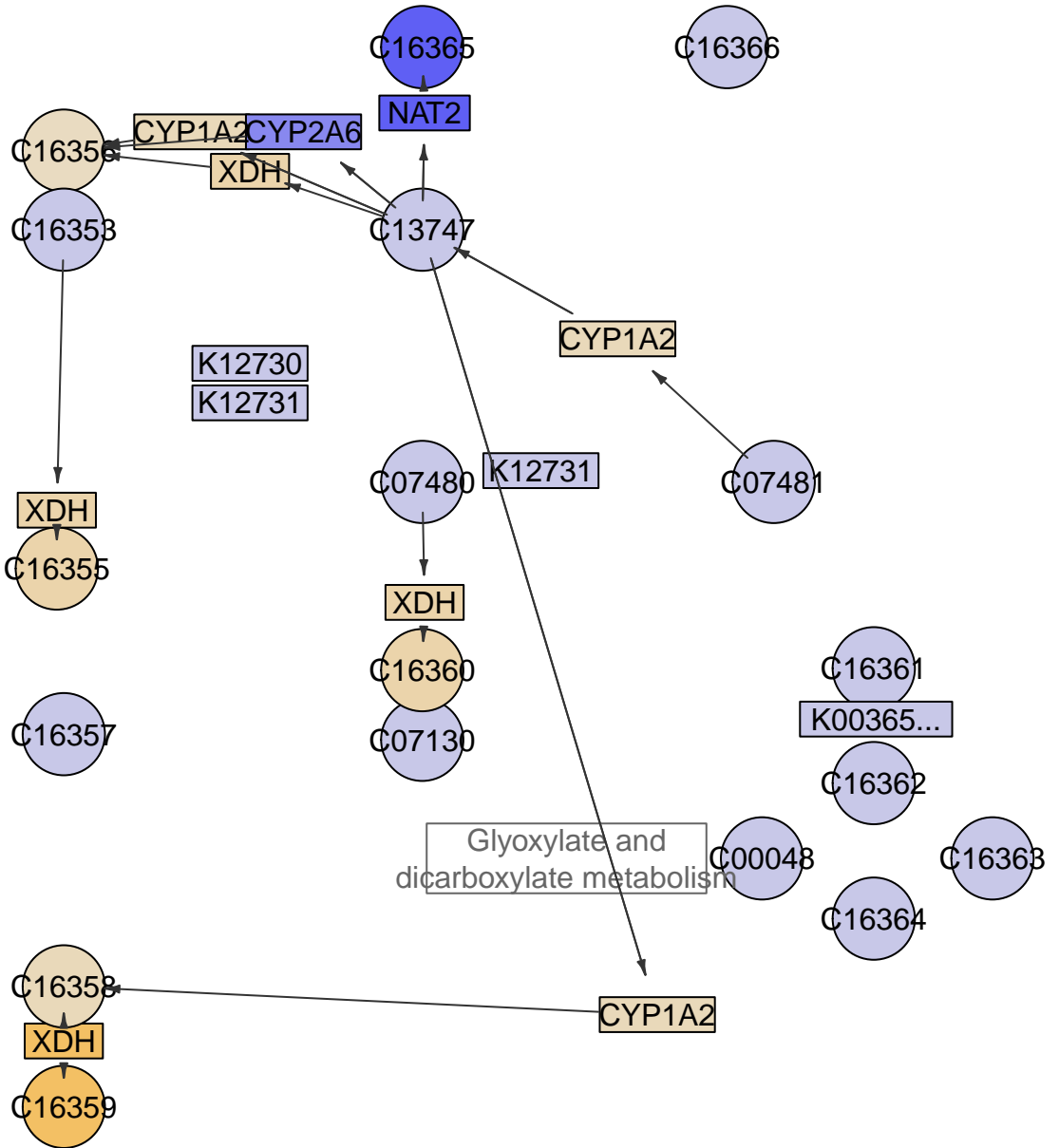
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-106

C01762

K12729

C16352



Purine metabolism

Glyoxylate and
dicarboxylate metabolism

C00385

C16358

C16359

K12730
K12731

K12731

K00365...

Caffeine metabolism
MPI-110

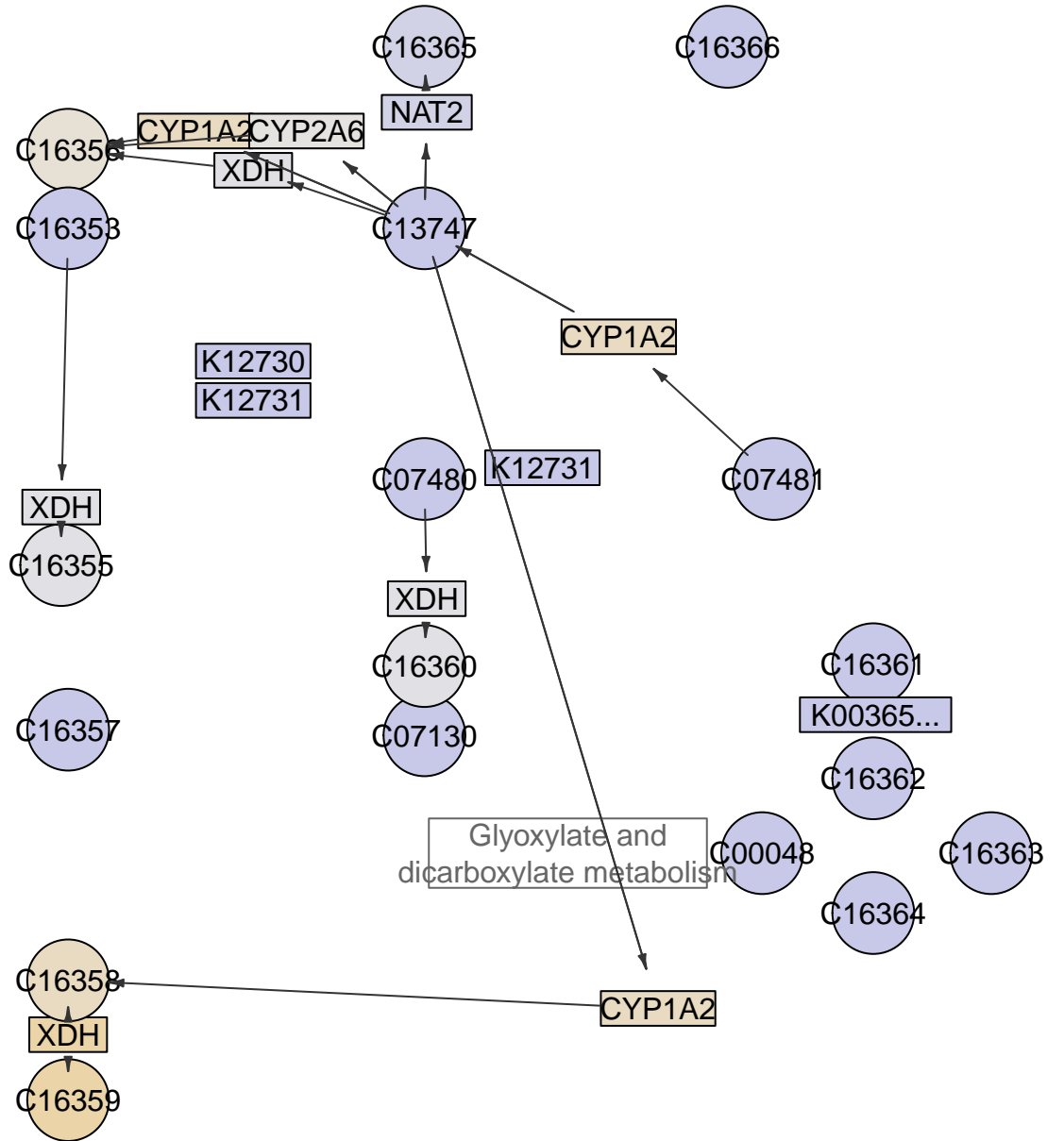
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-111

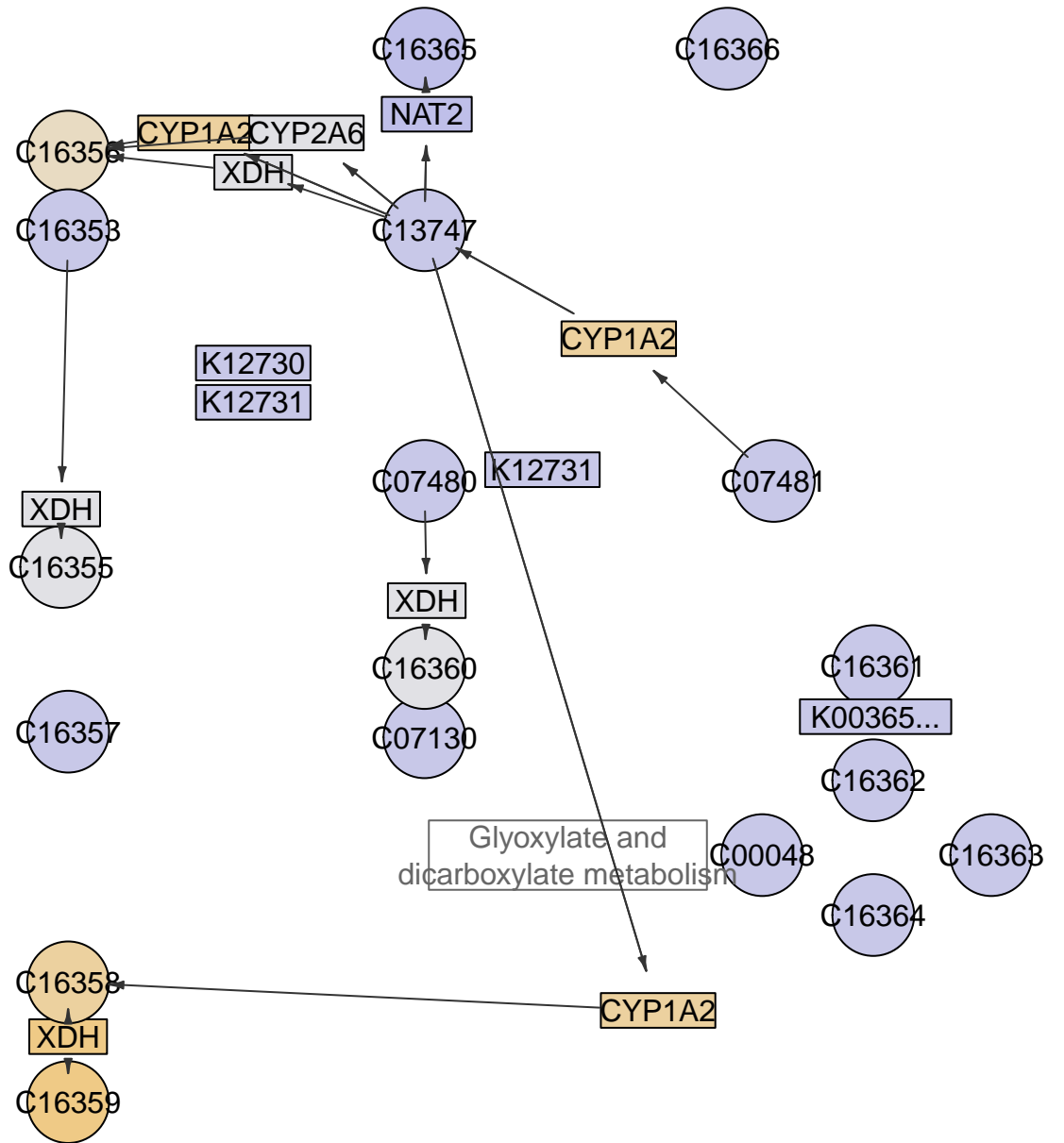
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-118

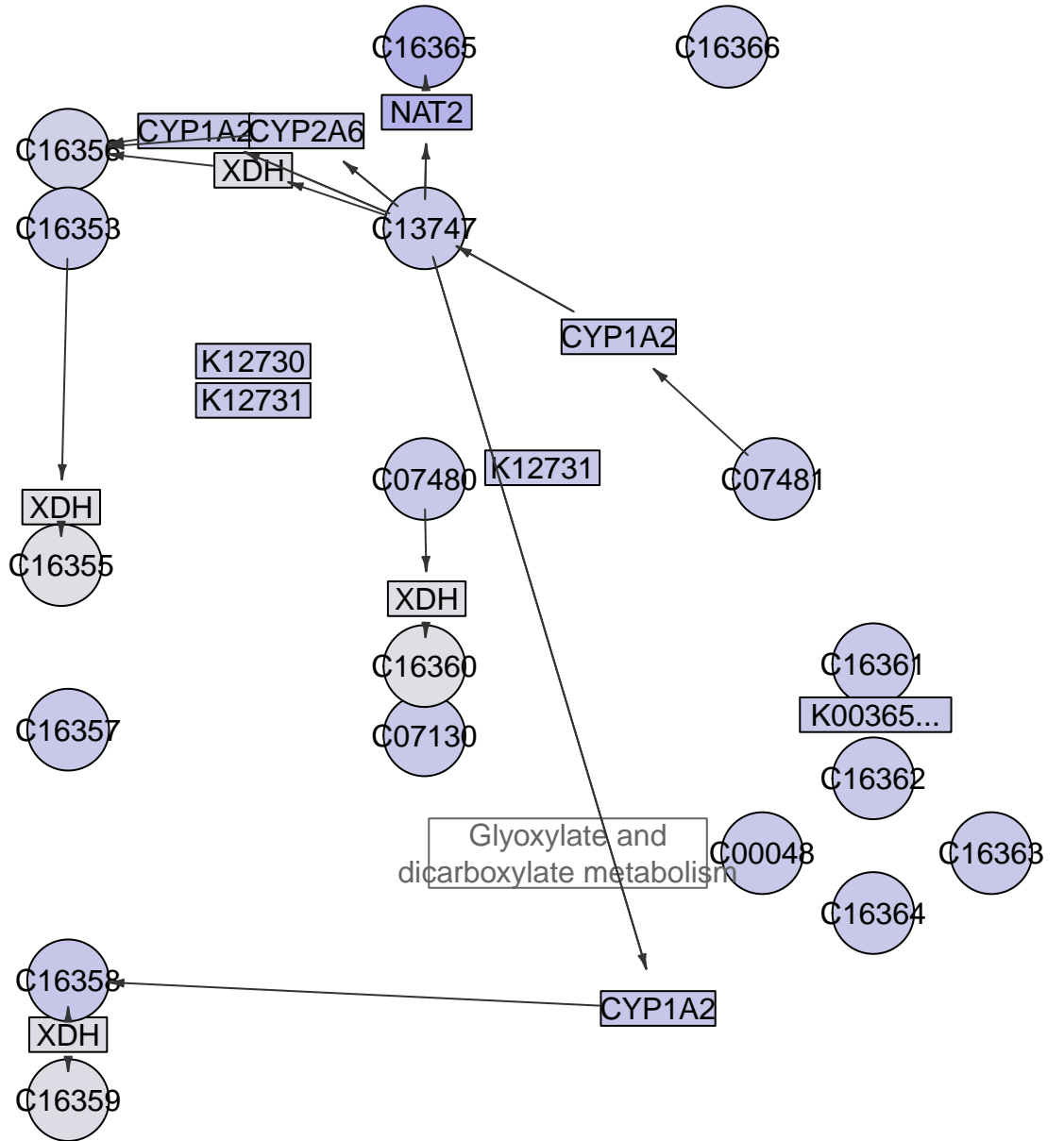
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-127

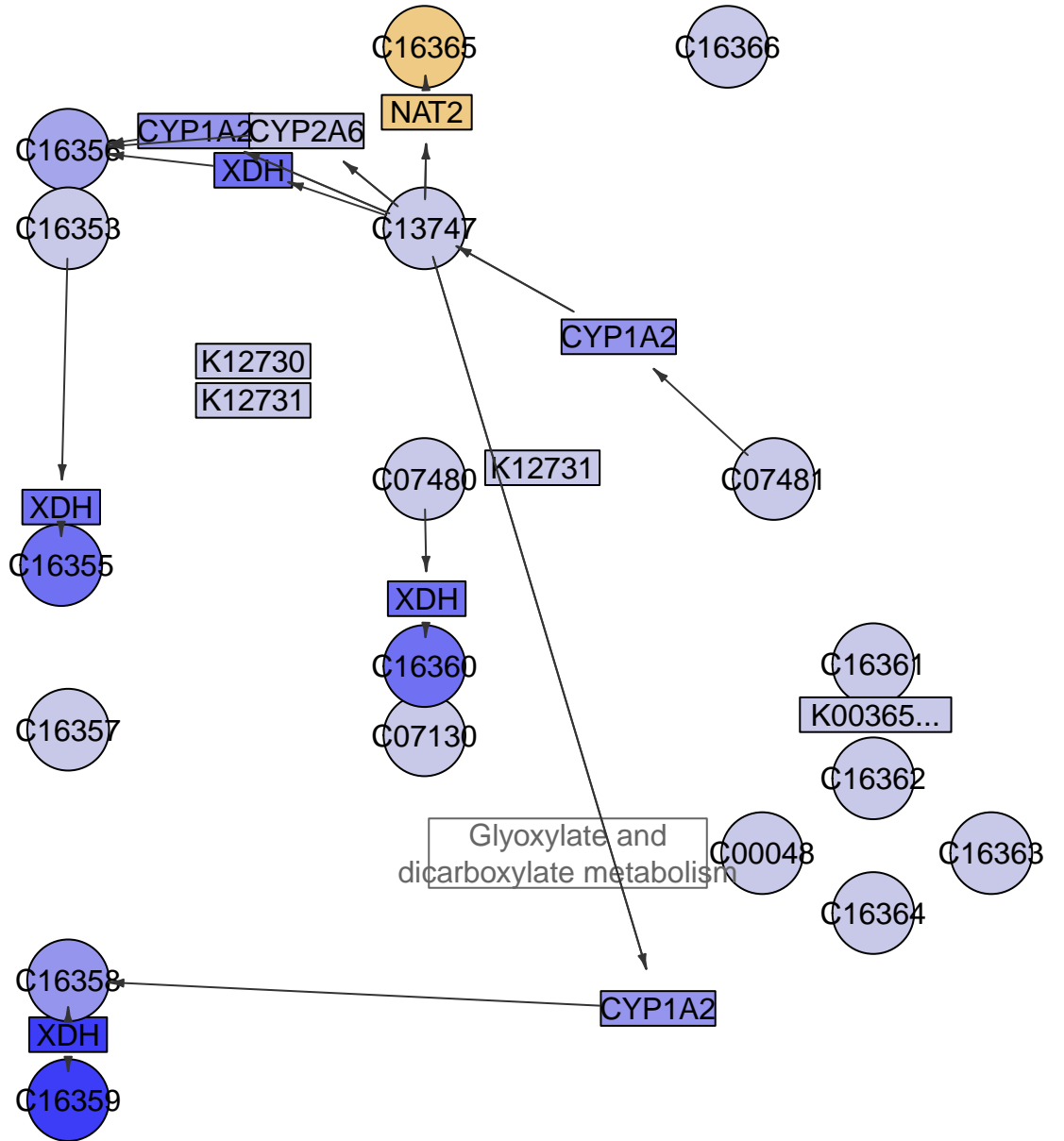
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-129

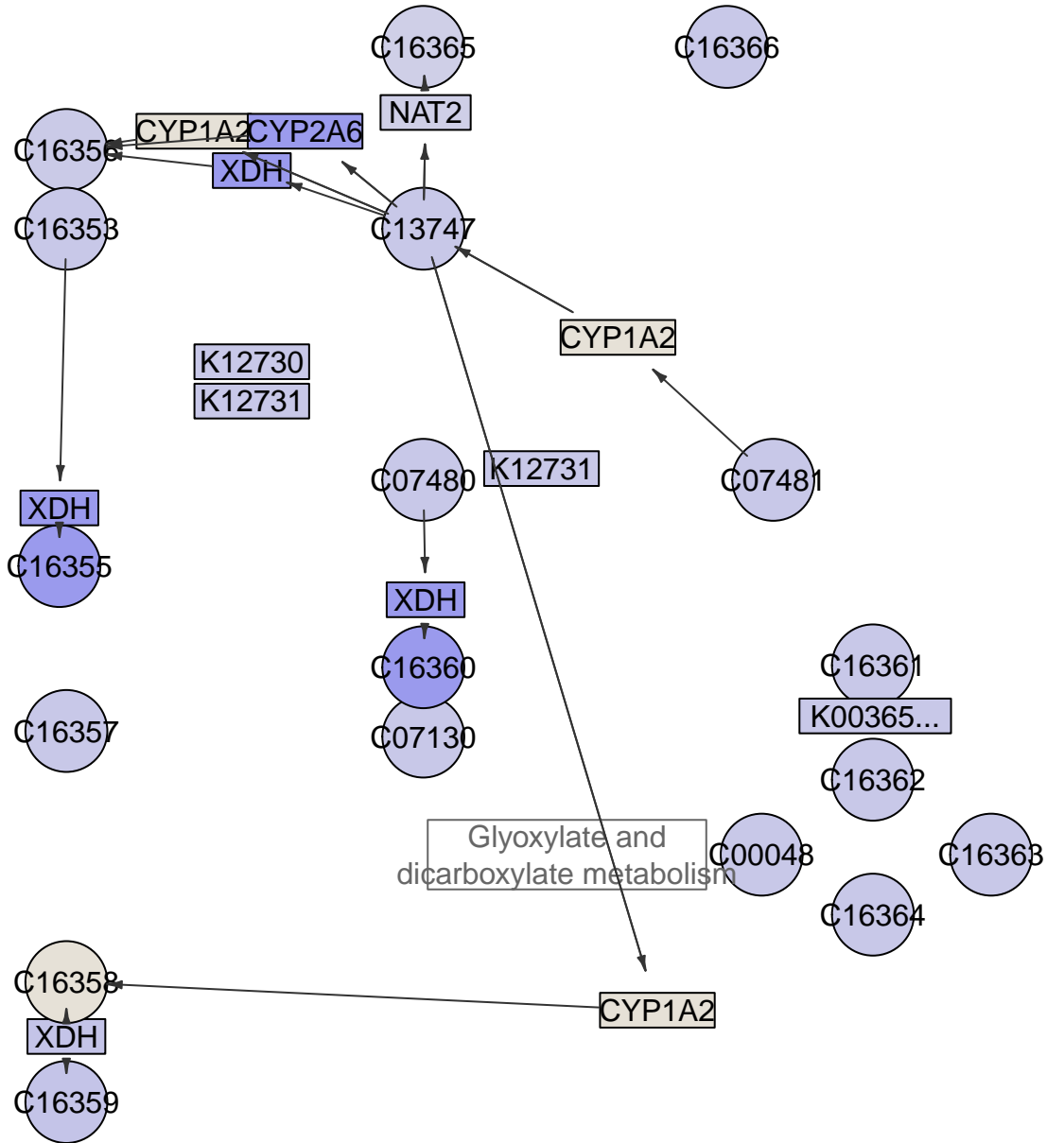
C01762

K12729

C16352

Purine metabolism

C00385

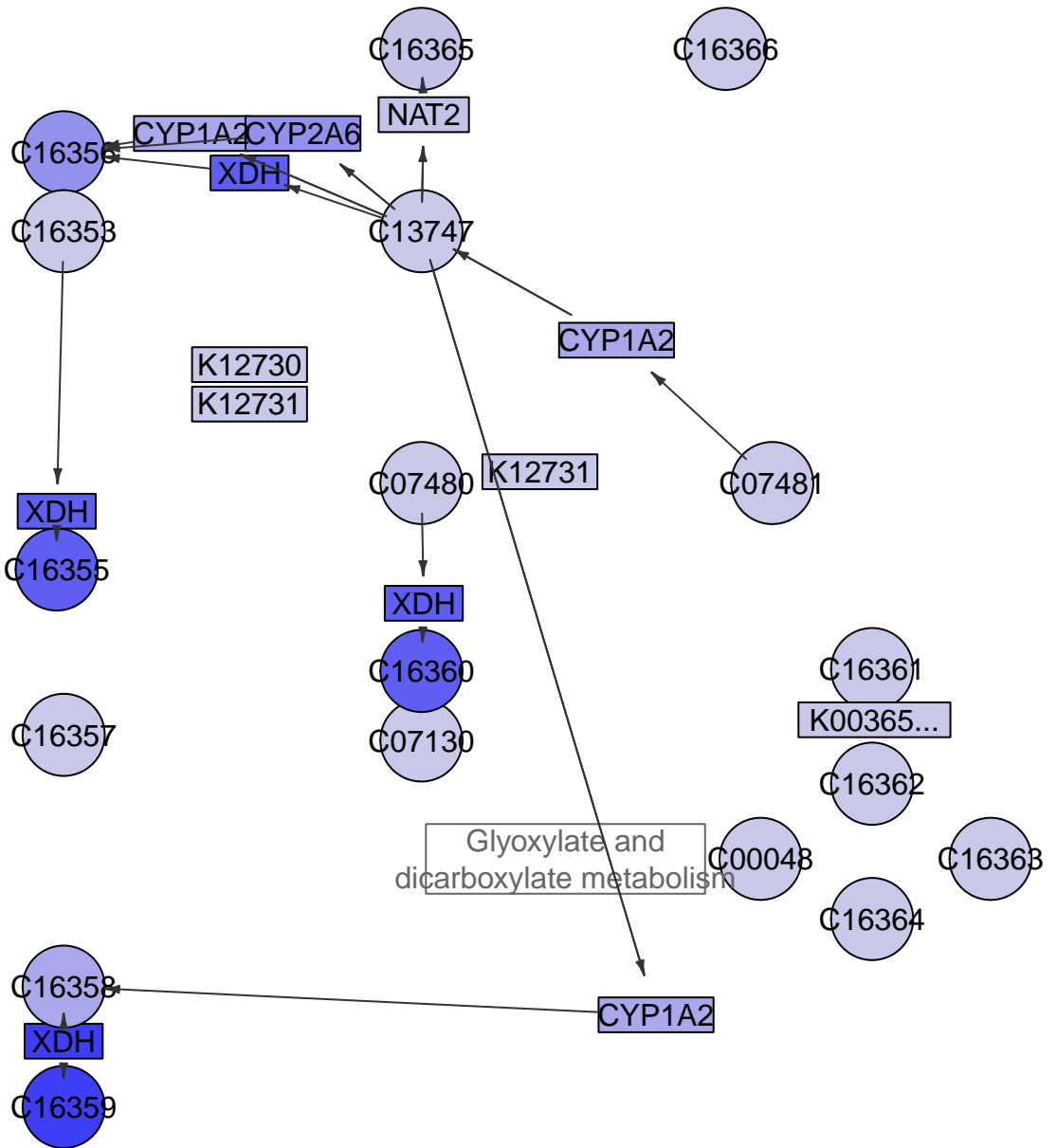


Caffeine metabolism
MPI-133

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-134

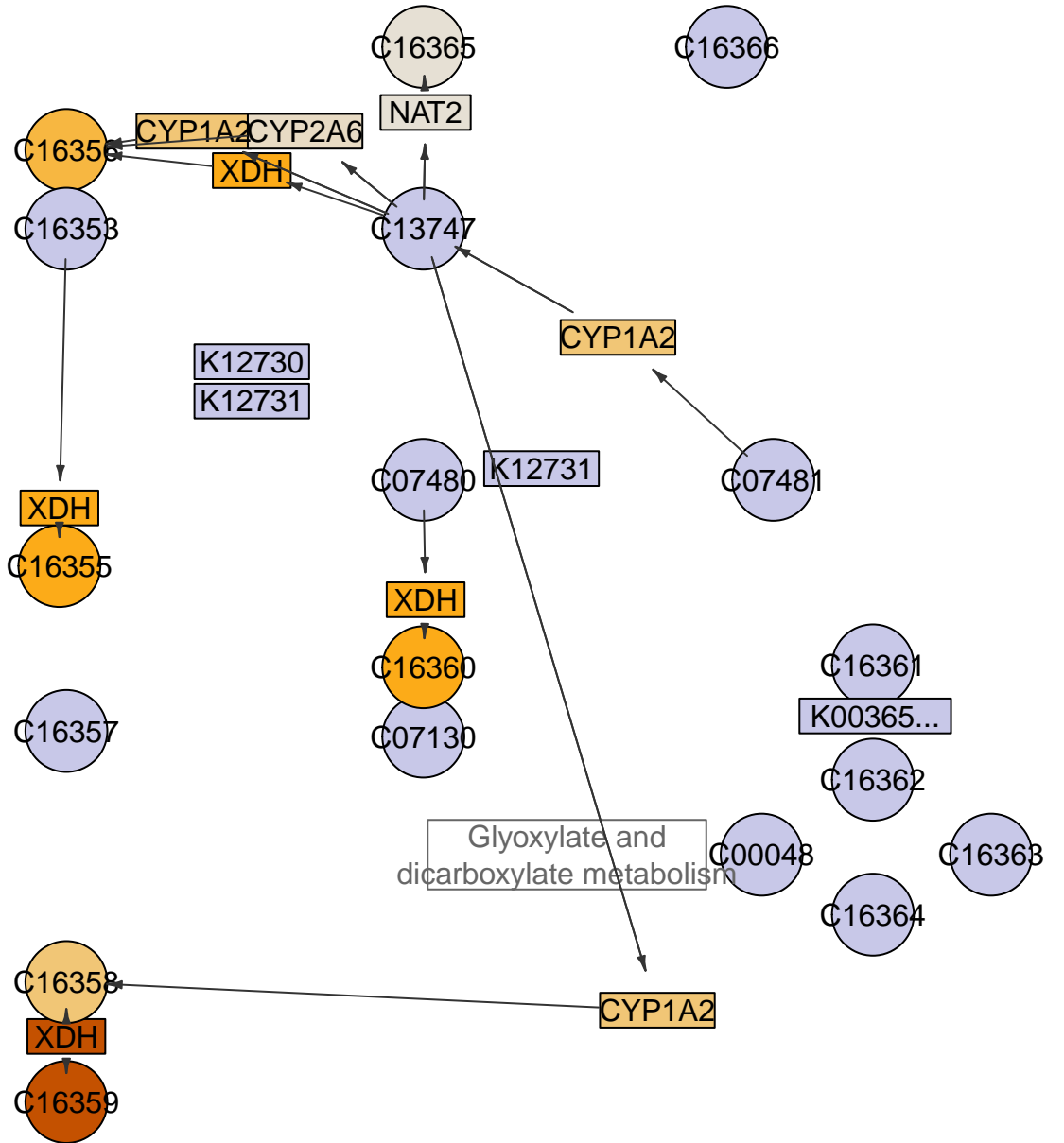
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-135

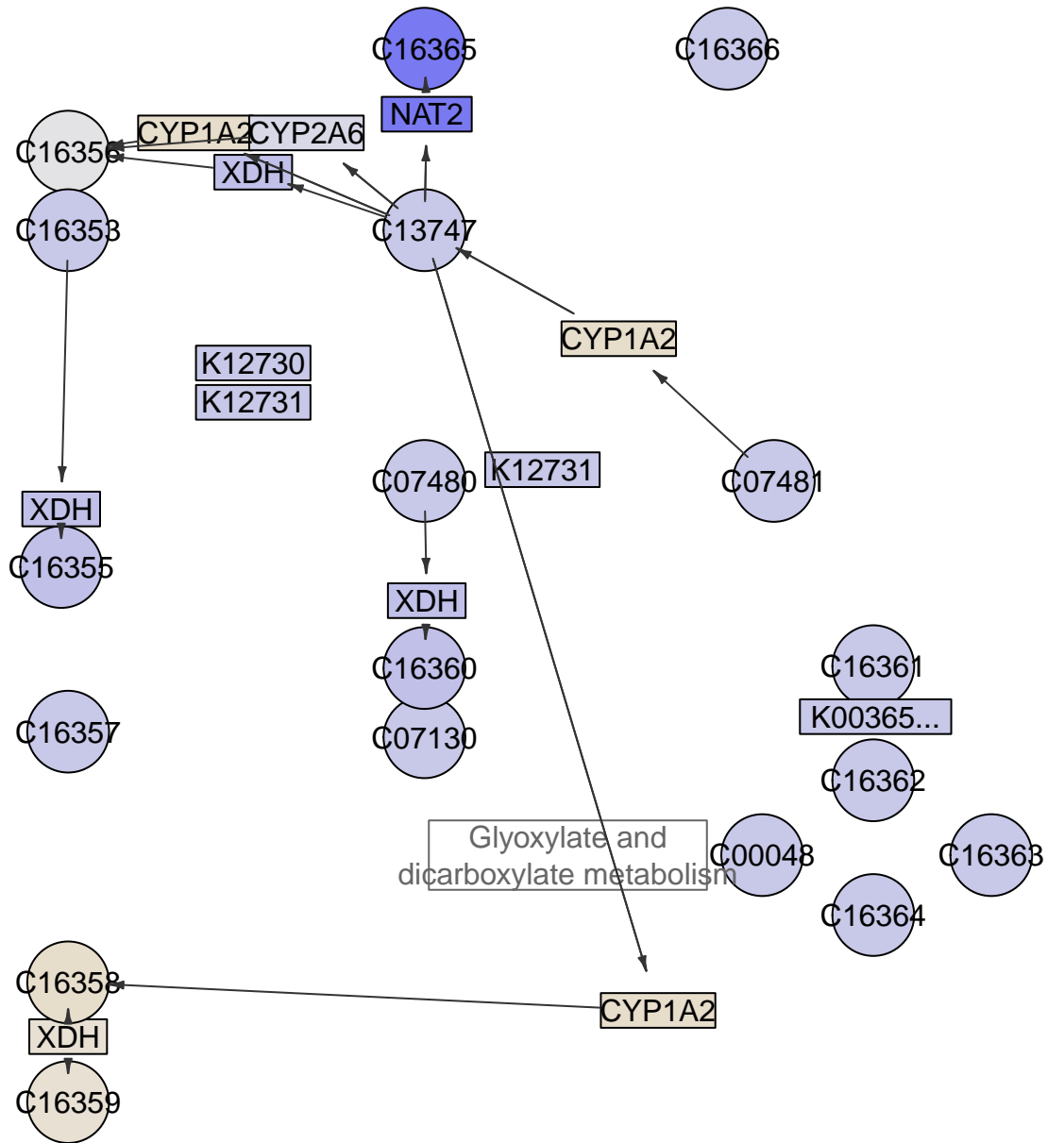
C01762

K12729

C16352

Purine metabolism

C00385

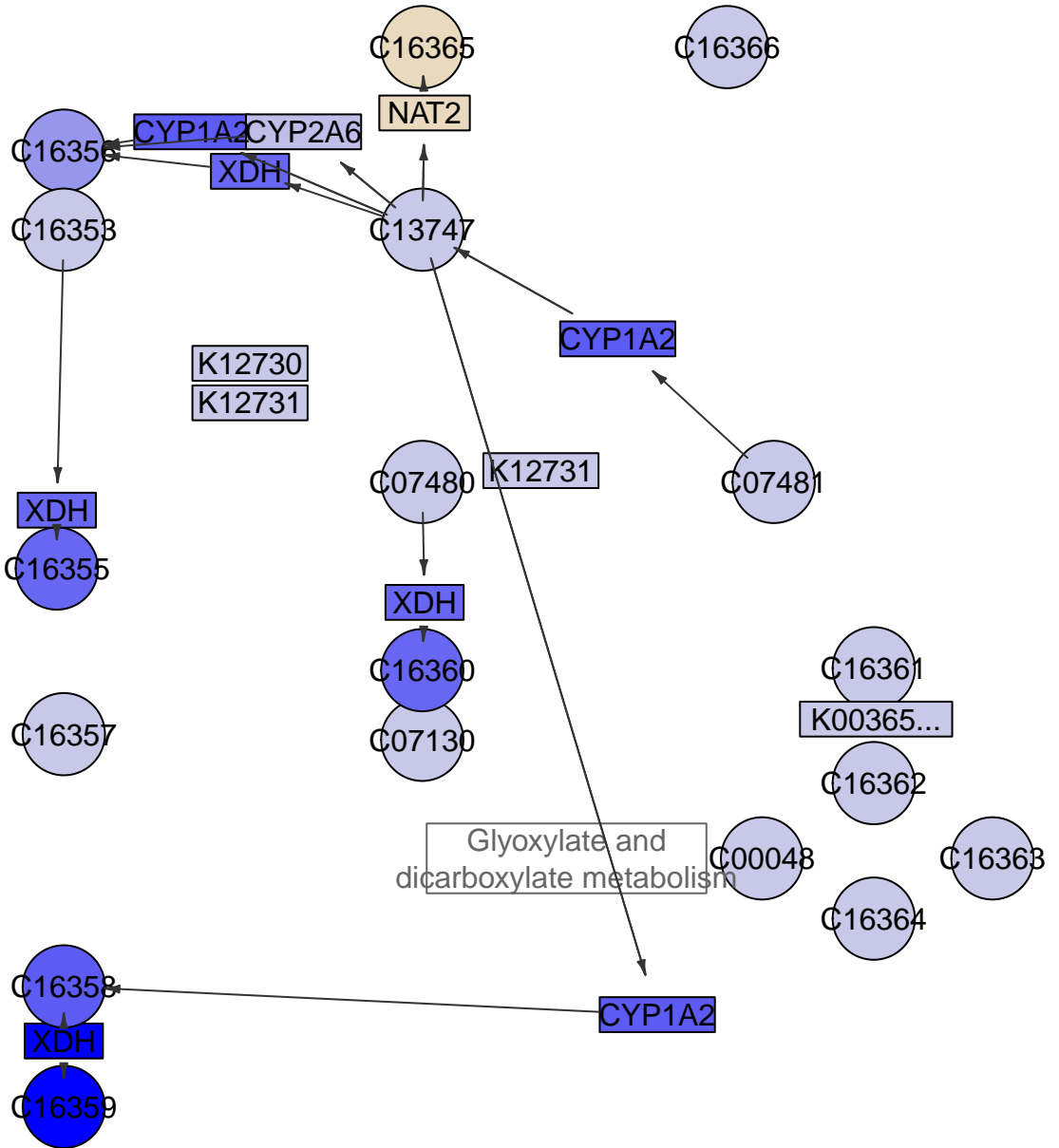


Caffeine metabolism
MPI-141

C01762

K12729

C16352



Purine metabolism

C00385

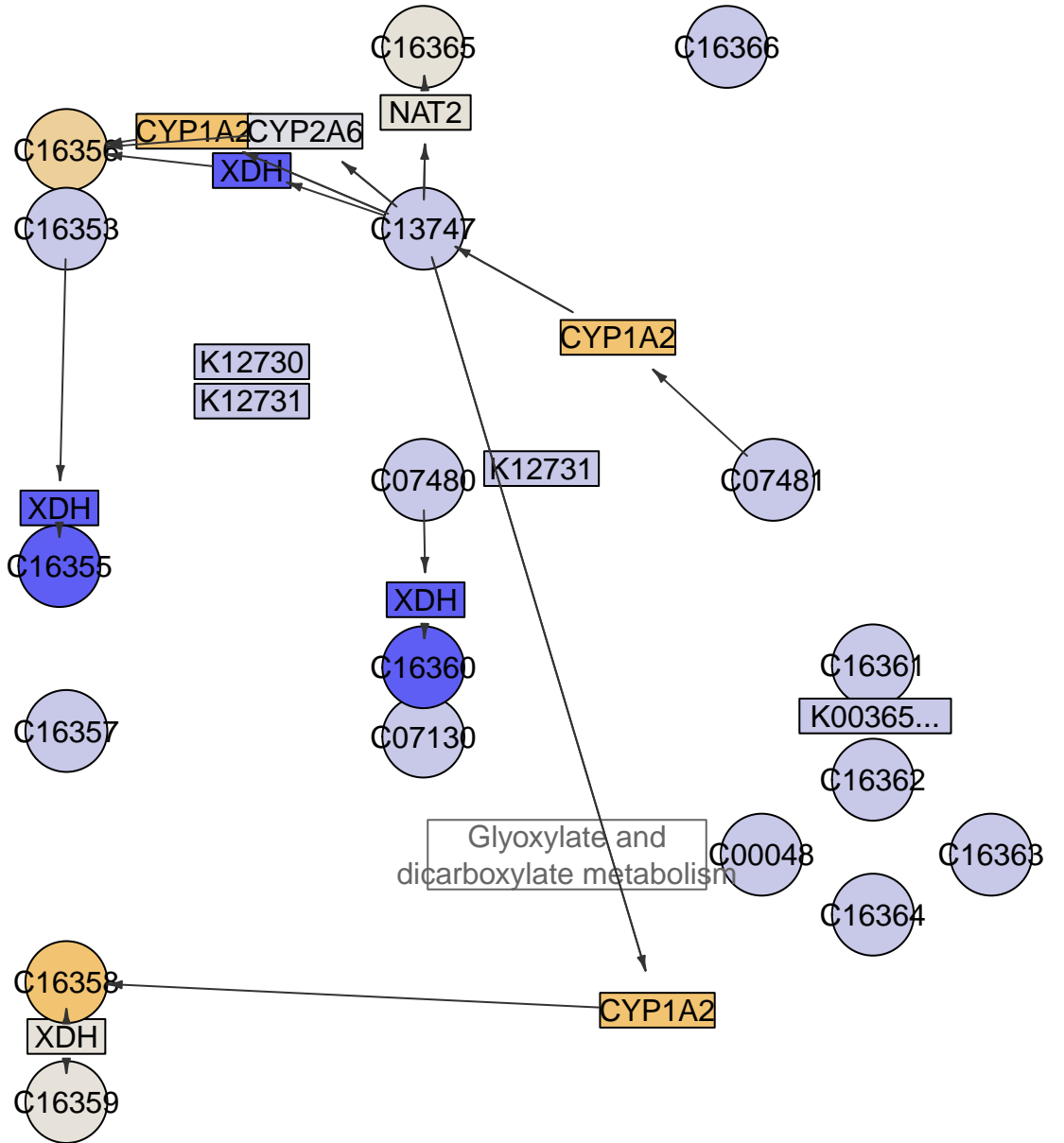
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-142

C01762

K12729

C16352



Purine metabolism

C00385

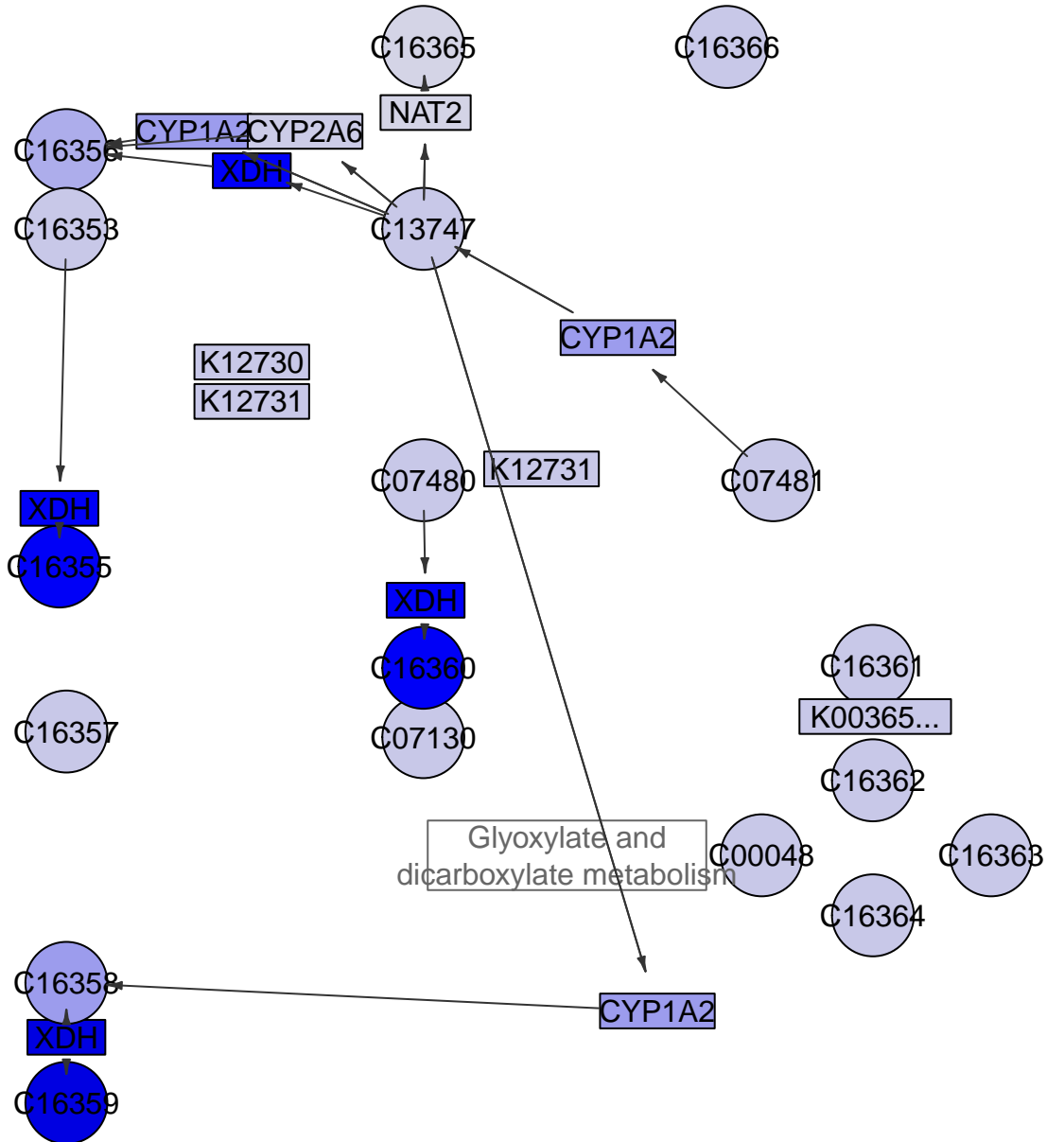
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-149

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-150

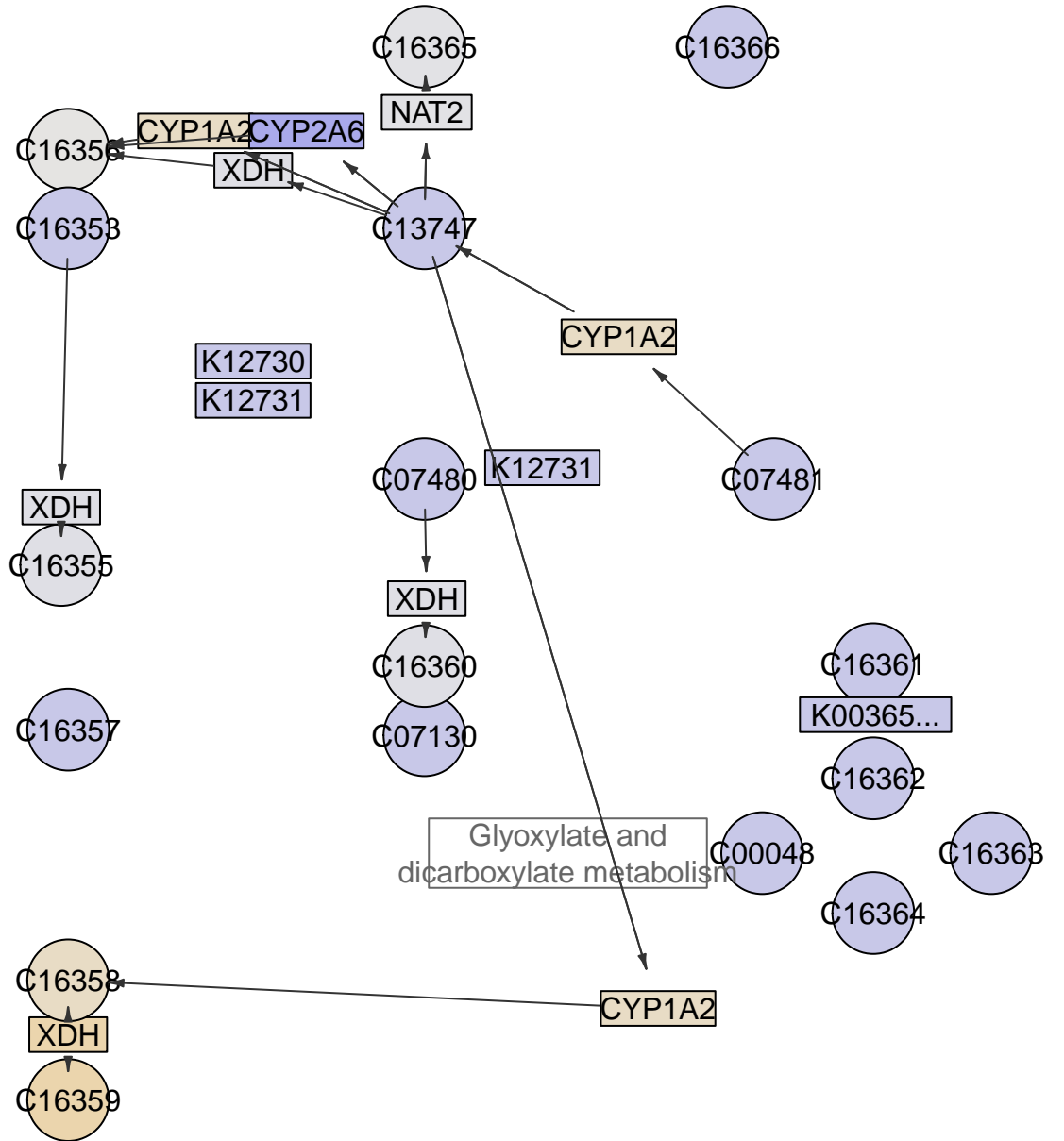
C01762

K12729

C16352

Purine metabolism

C00385

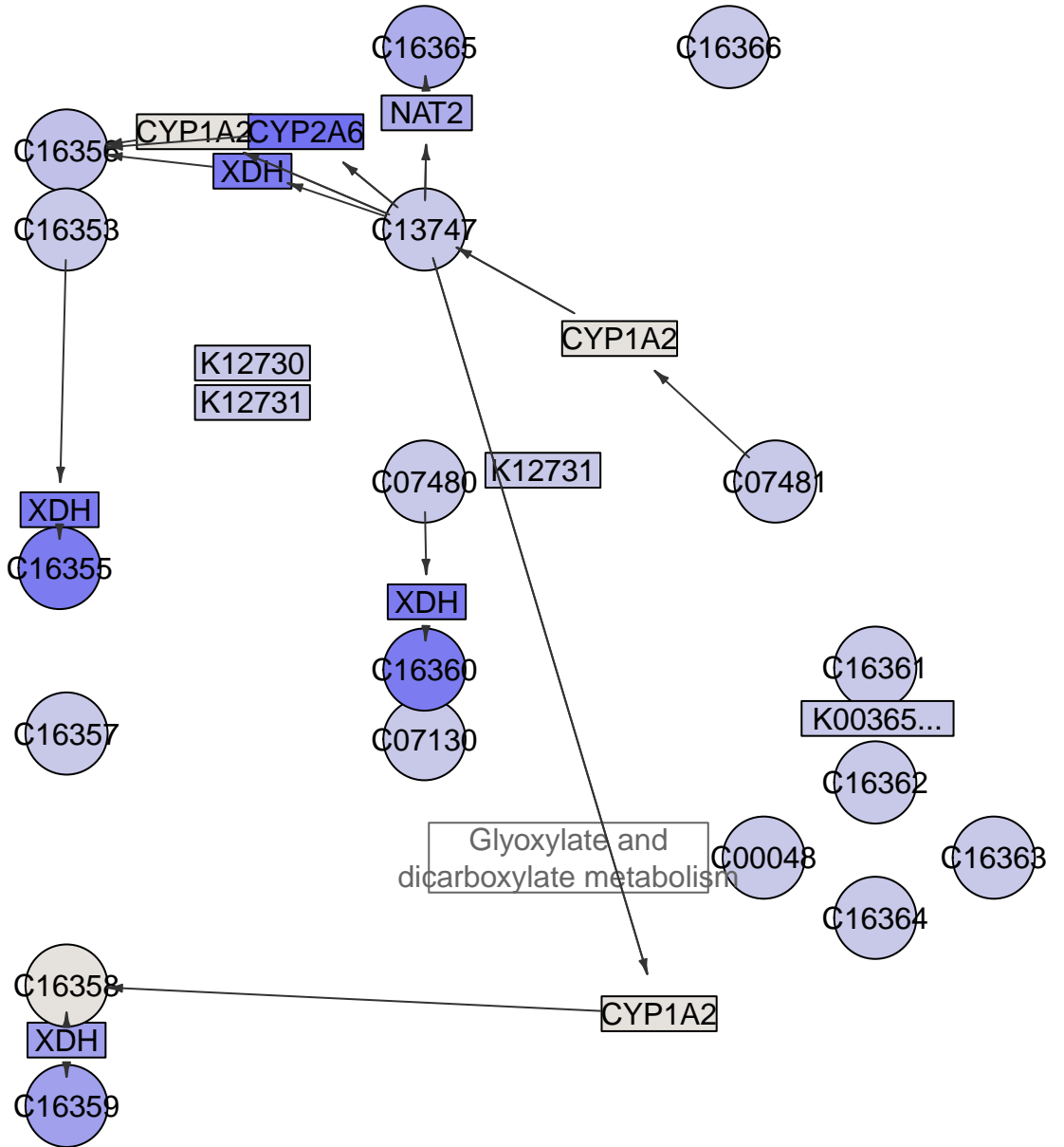


Caffeine metabolism
MPI-152

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-163

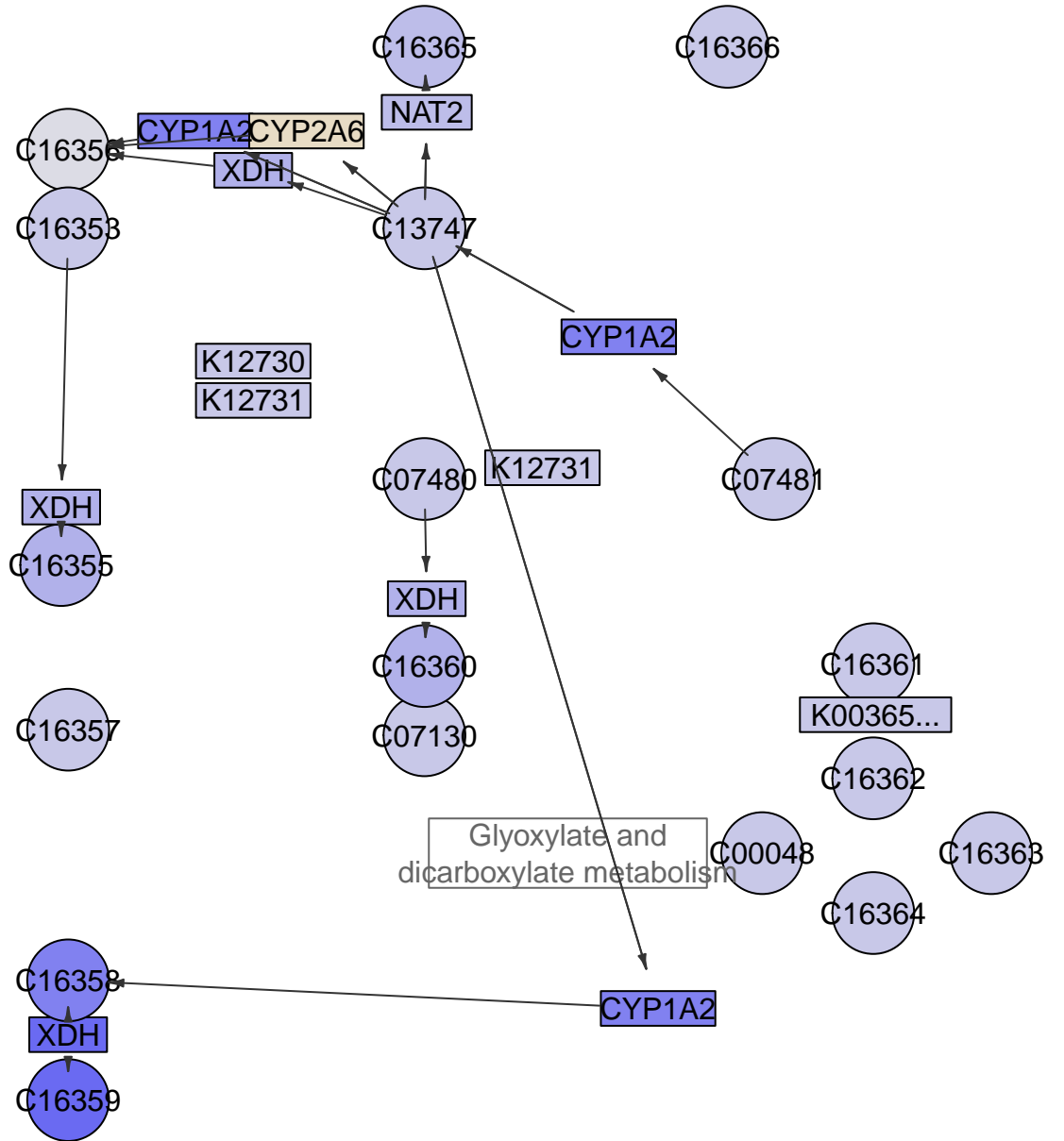
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-164

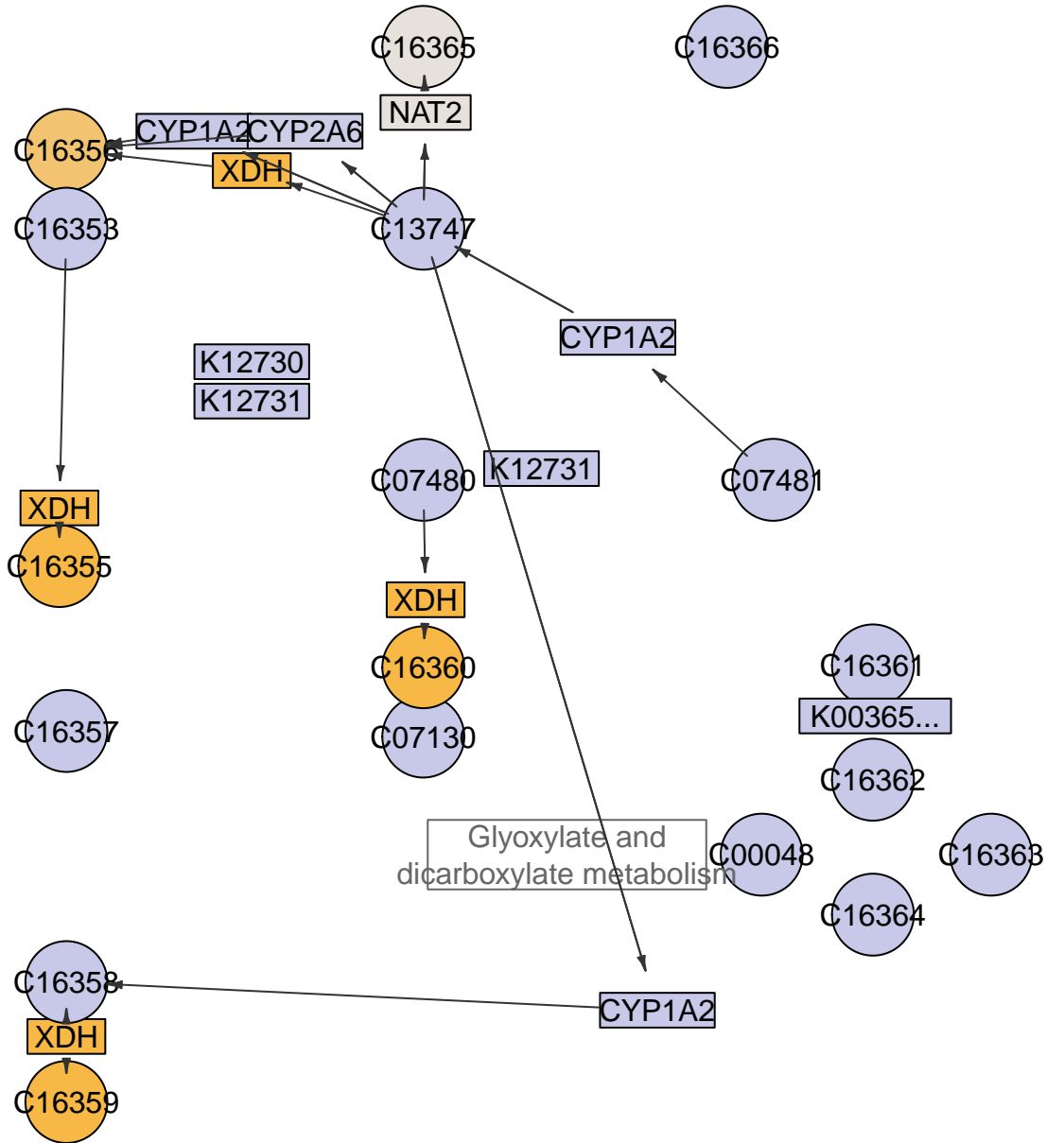
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-173

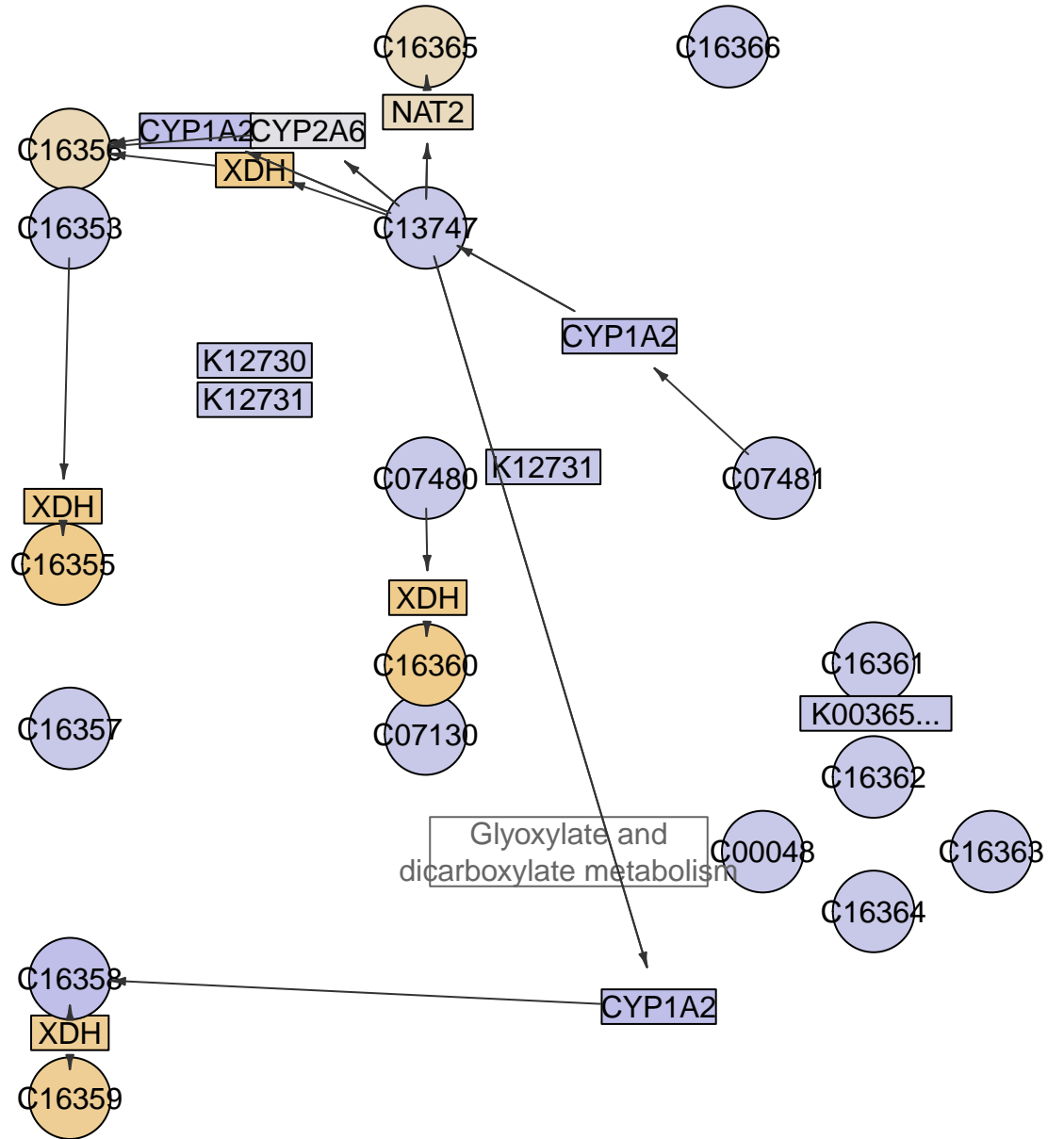
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-174

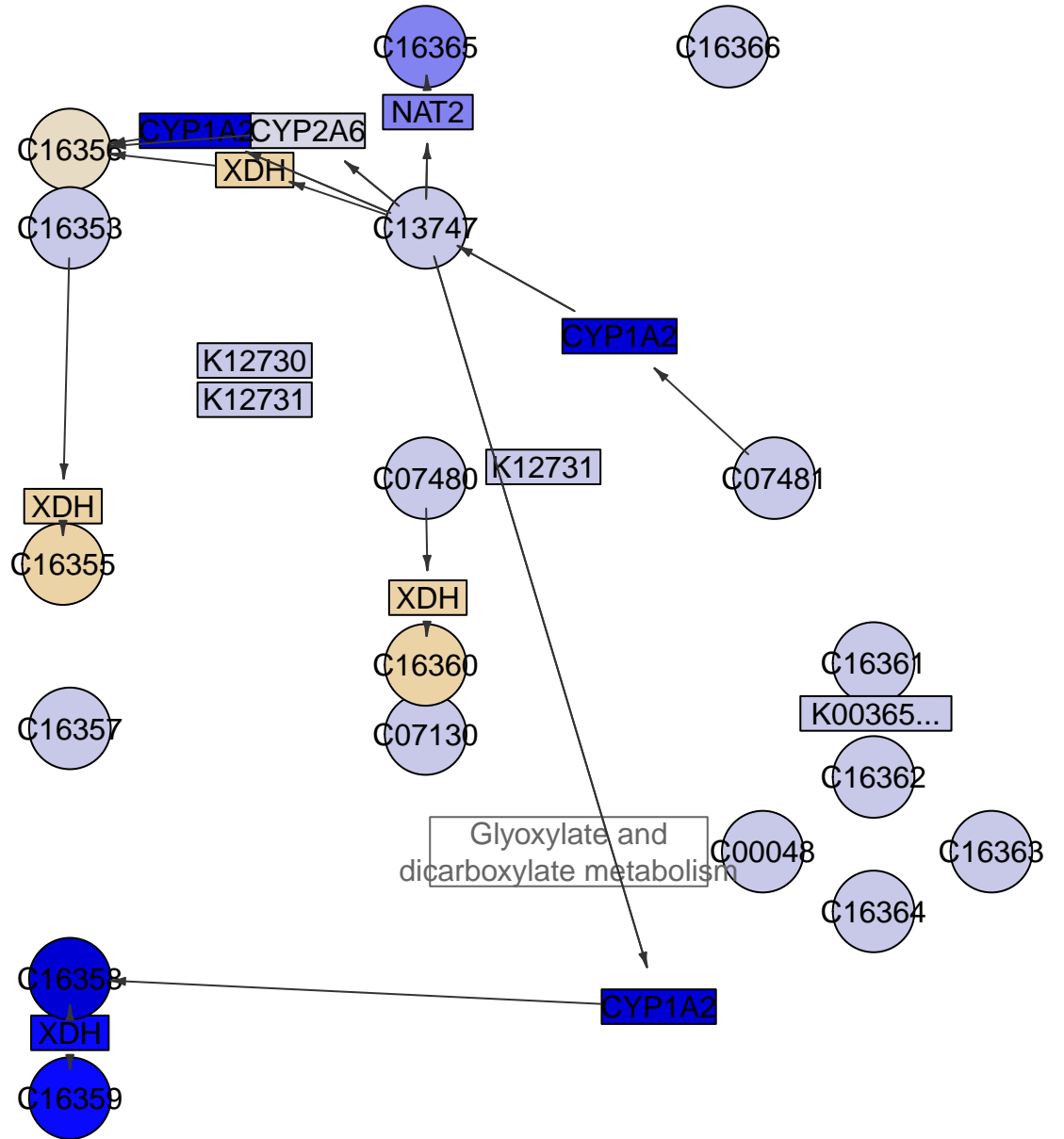
C01762

K12729

C16352

Purine metabolism

C00385



Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-178

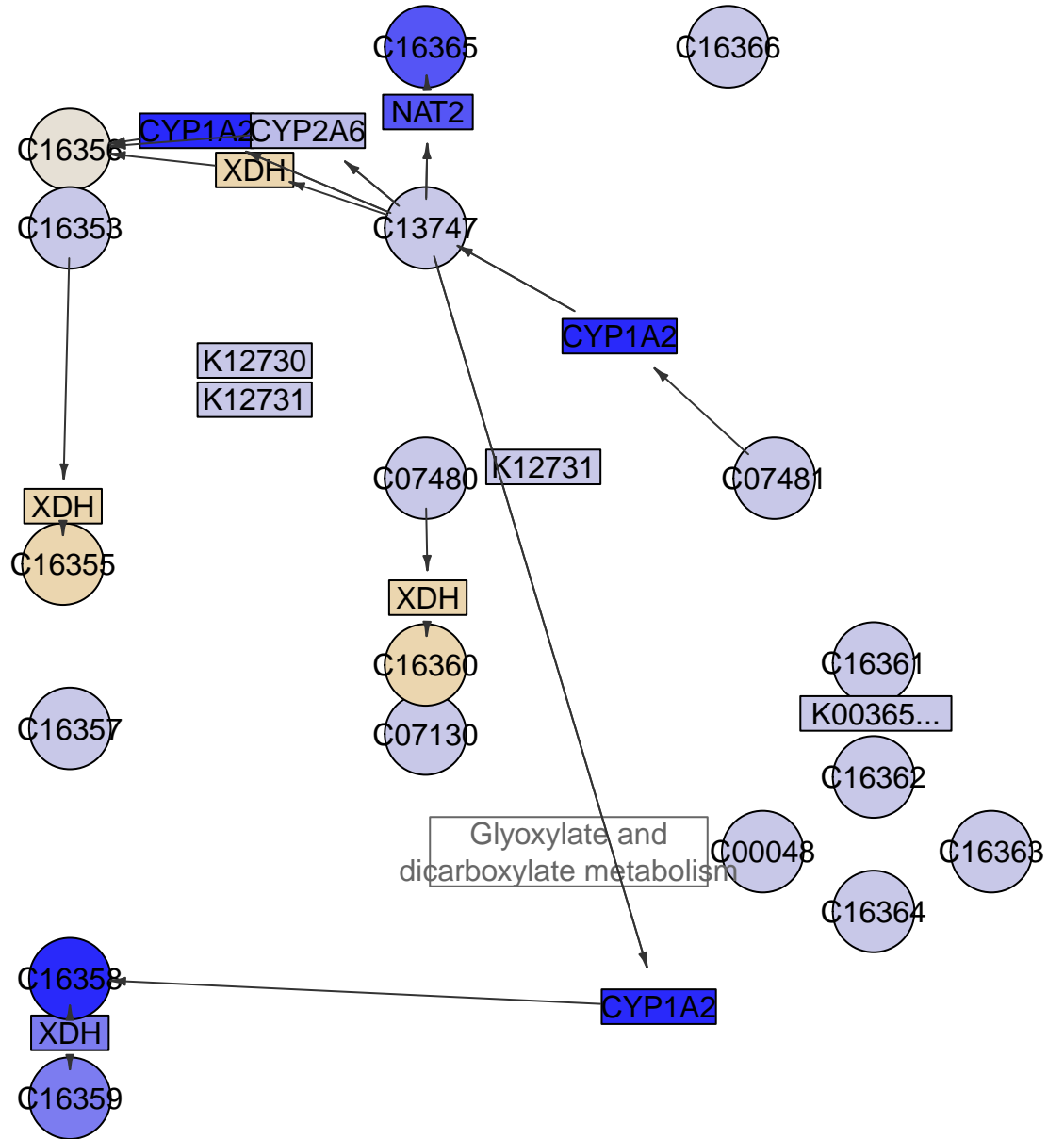
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-179

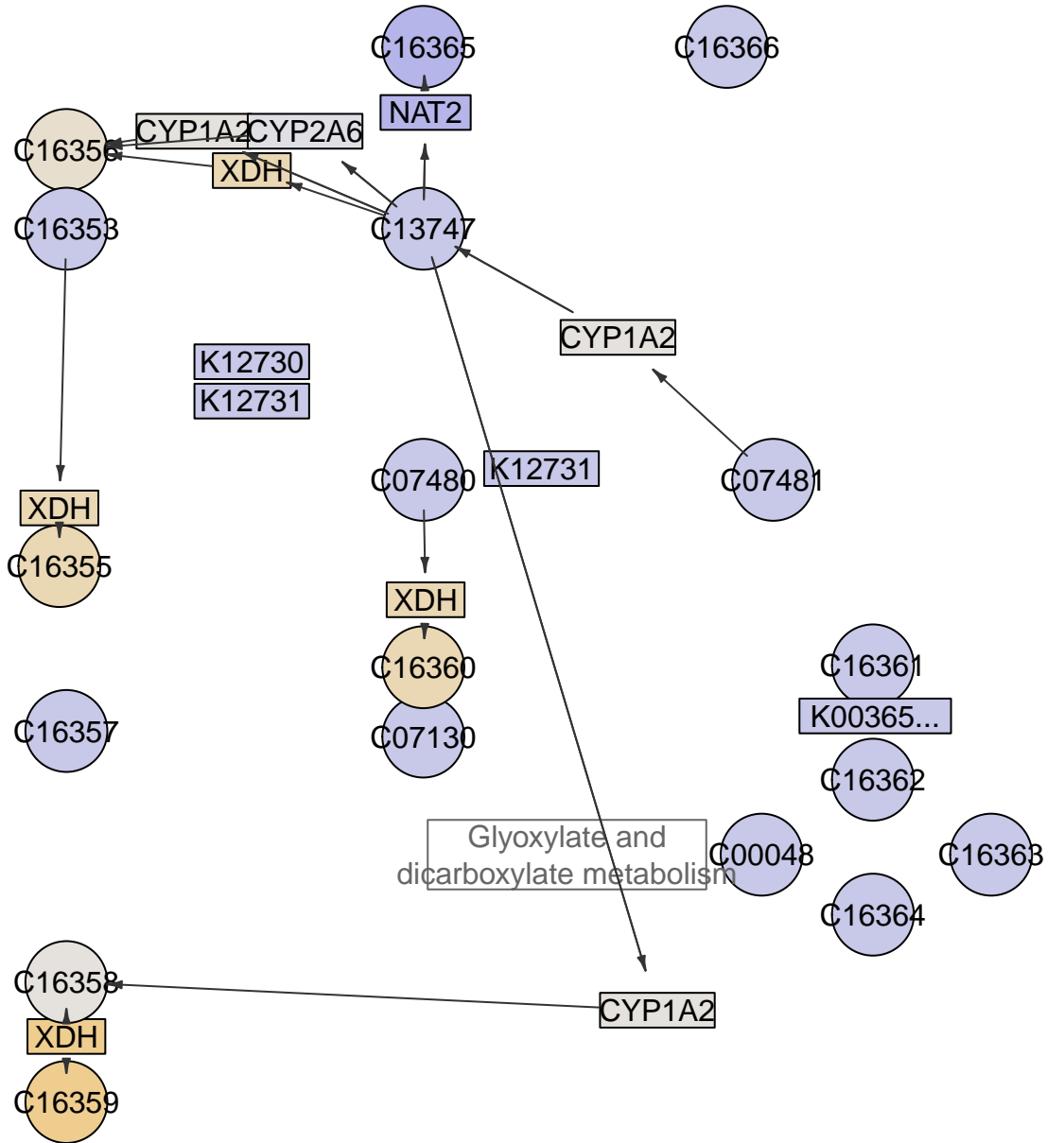
C01762

K12729

C16352

Purine metabolism

C00385

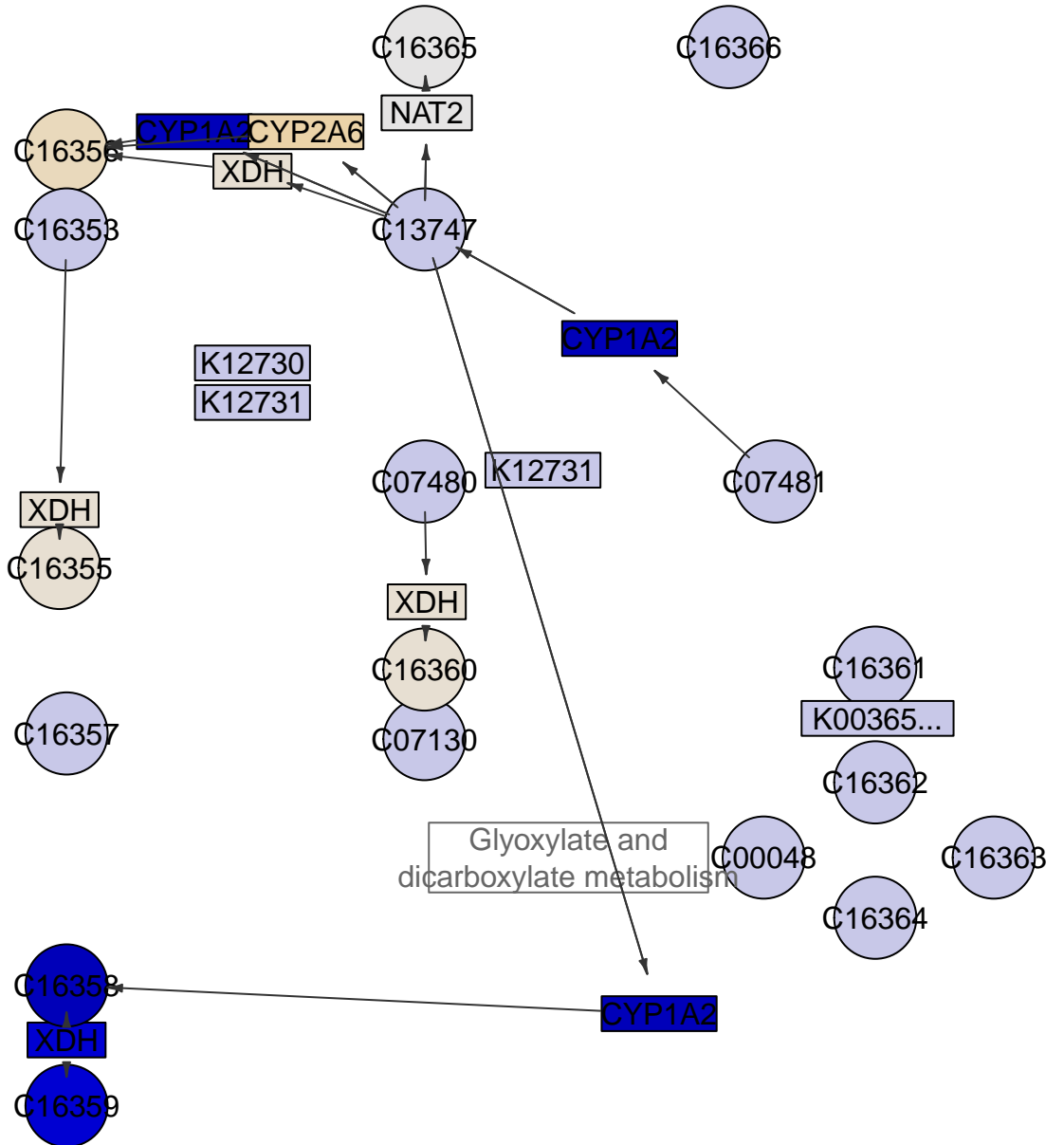


Caffeine metabolism
MPI-180

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-182

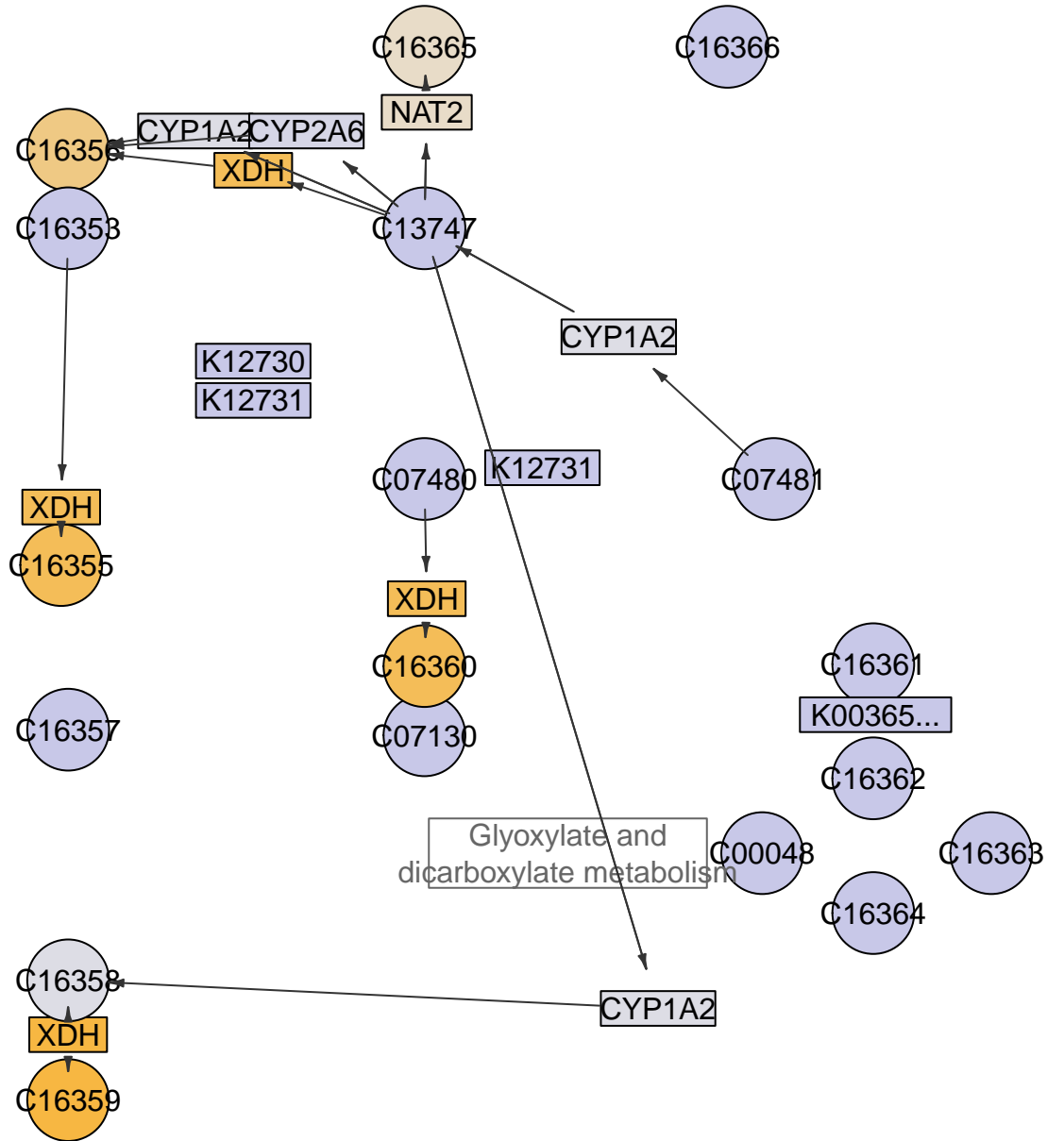
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-183

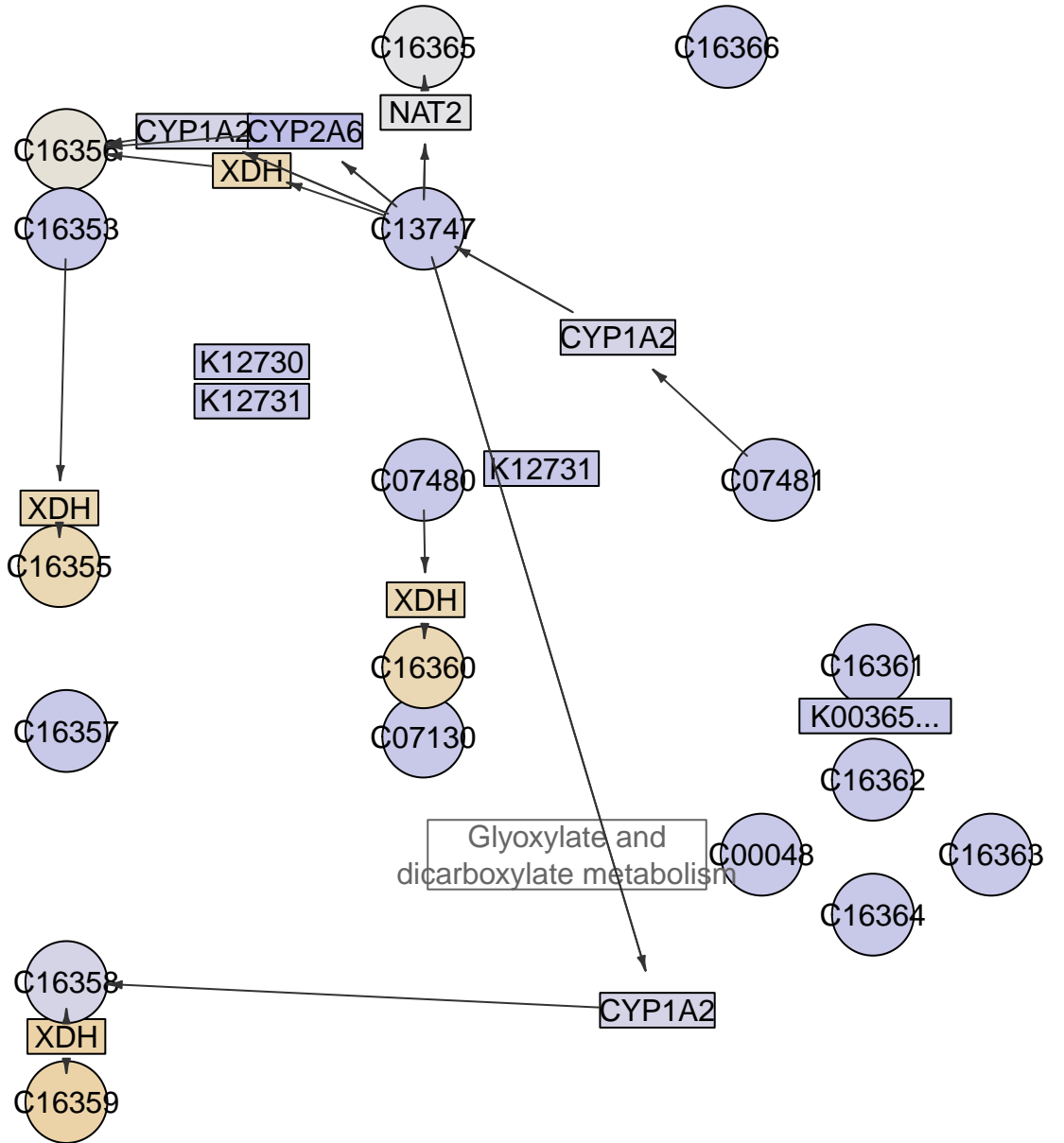
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-186

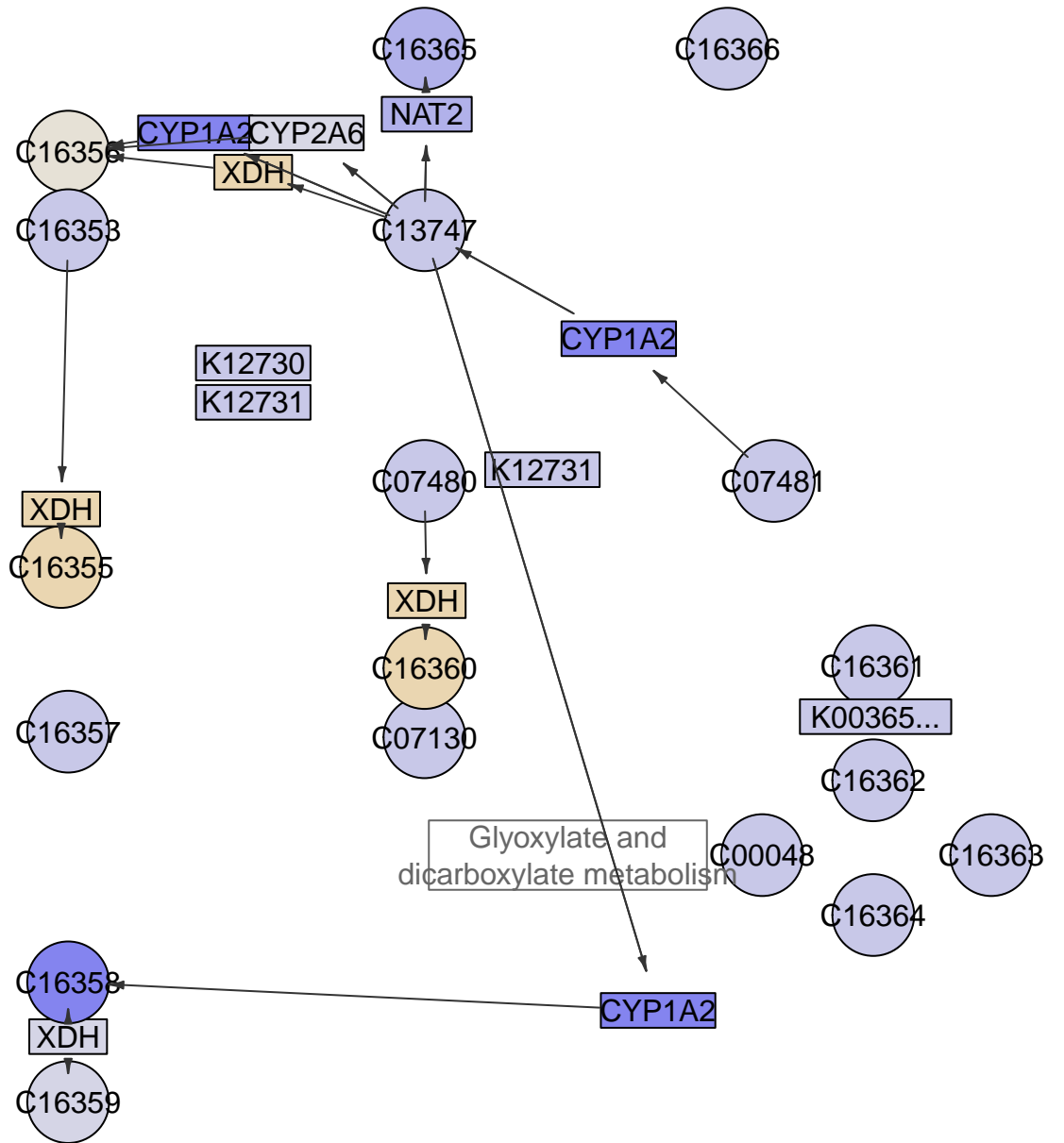
C01762

K12729

C16352

Purine metabolism

C00385

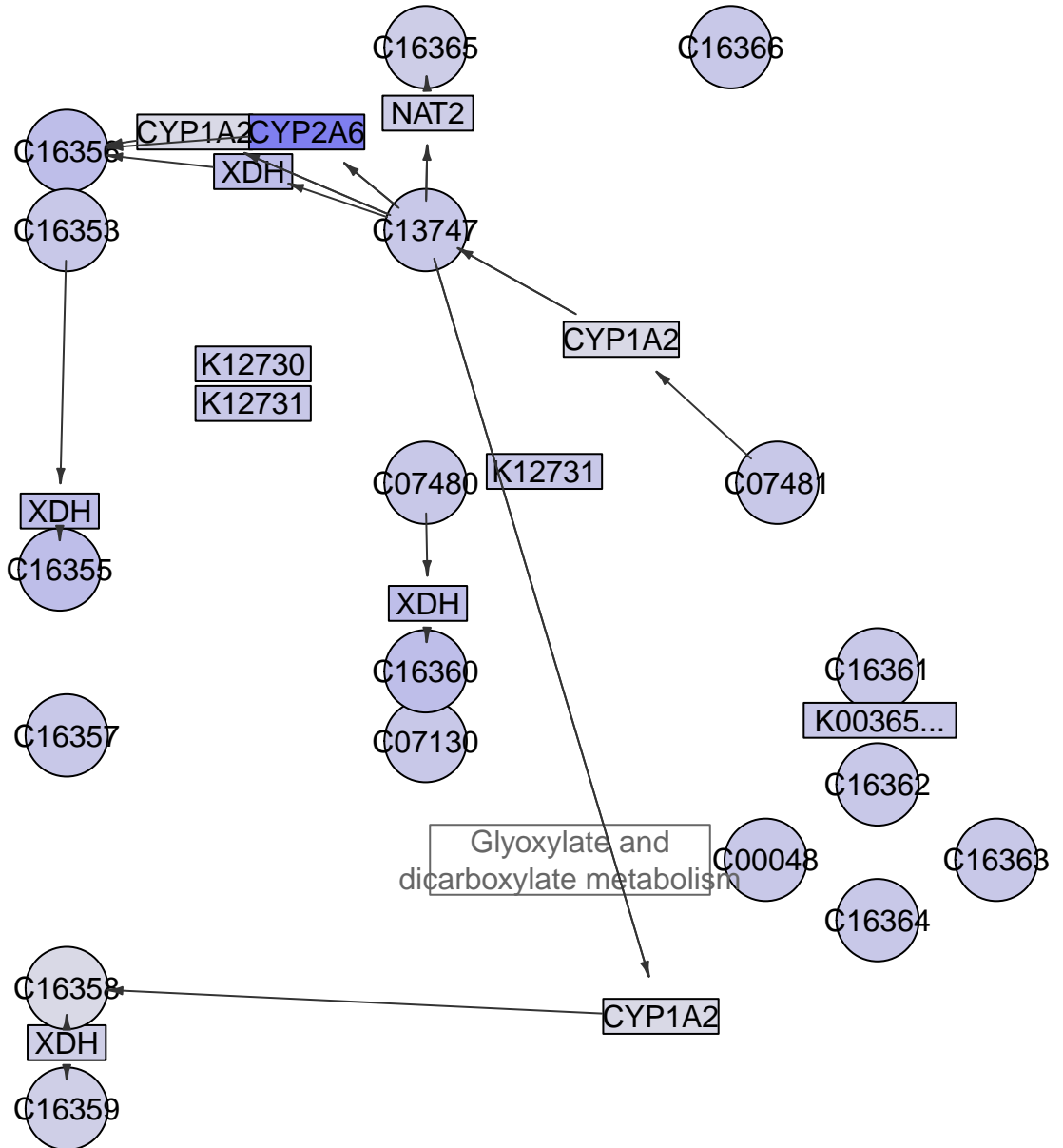


Caffeine metabolism
MPI-188

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-189

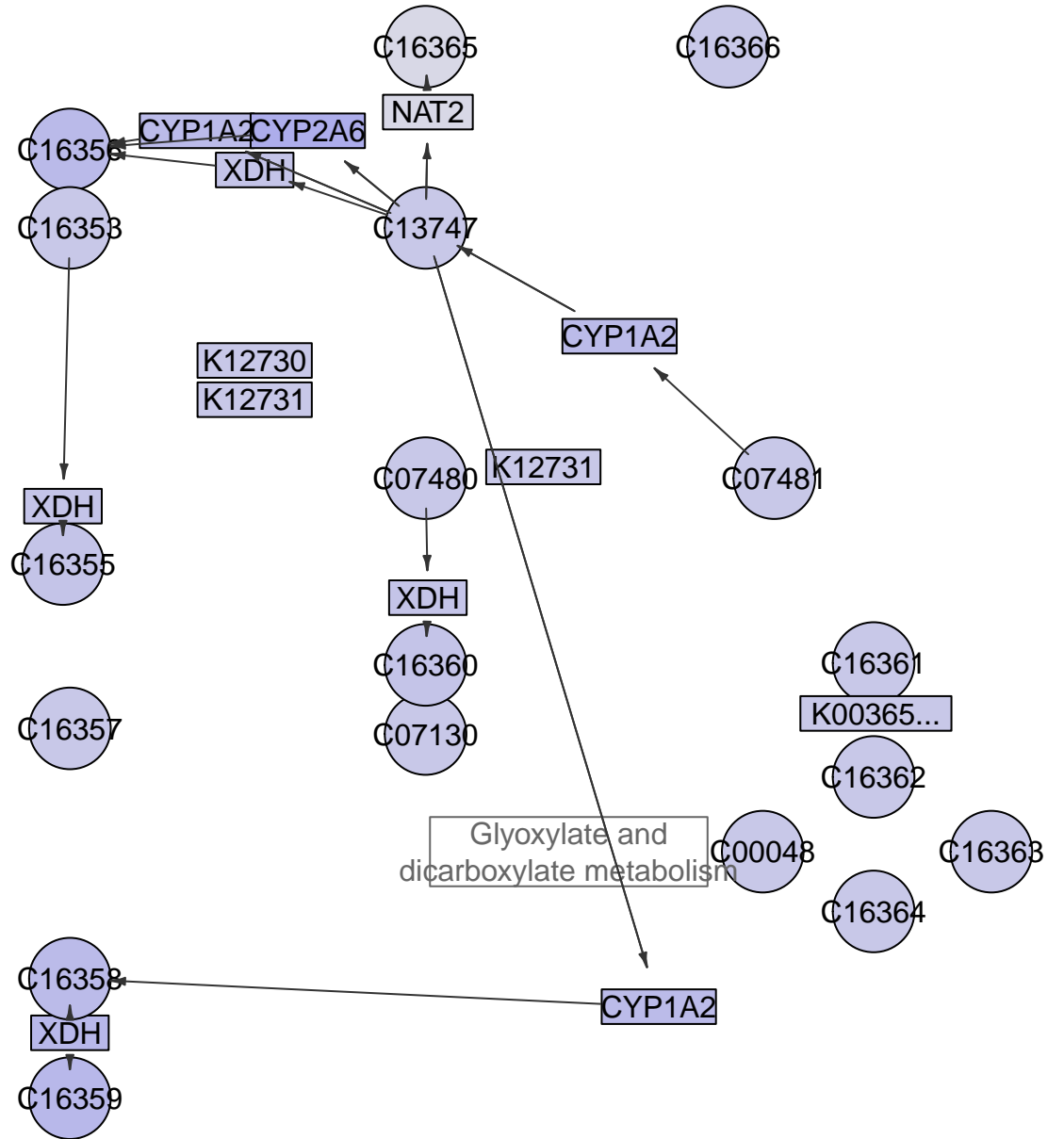
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-190

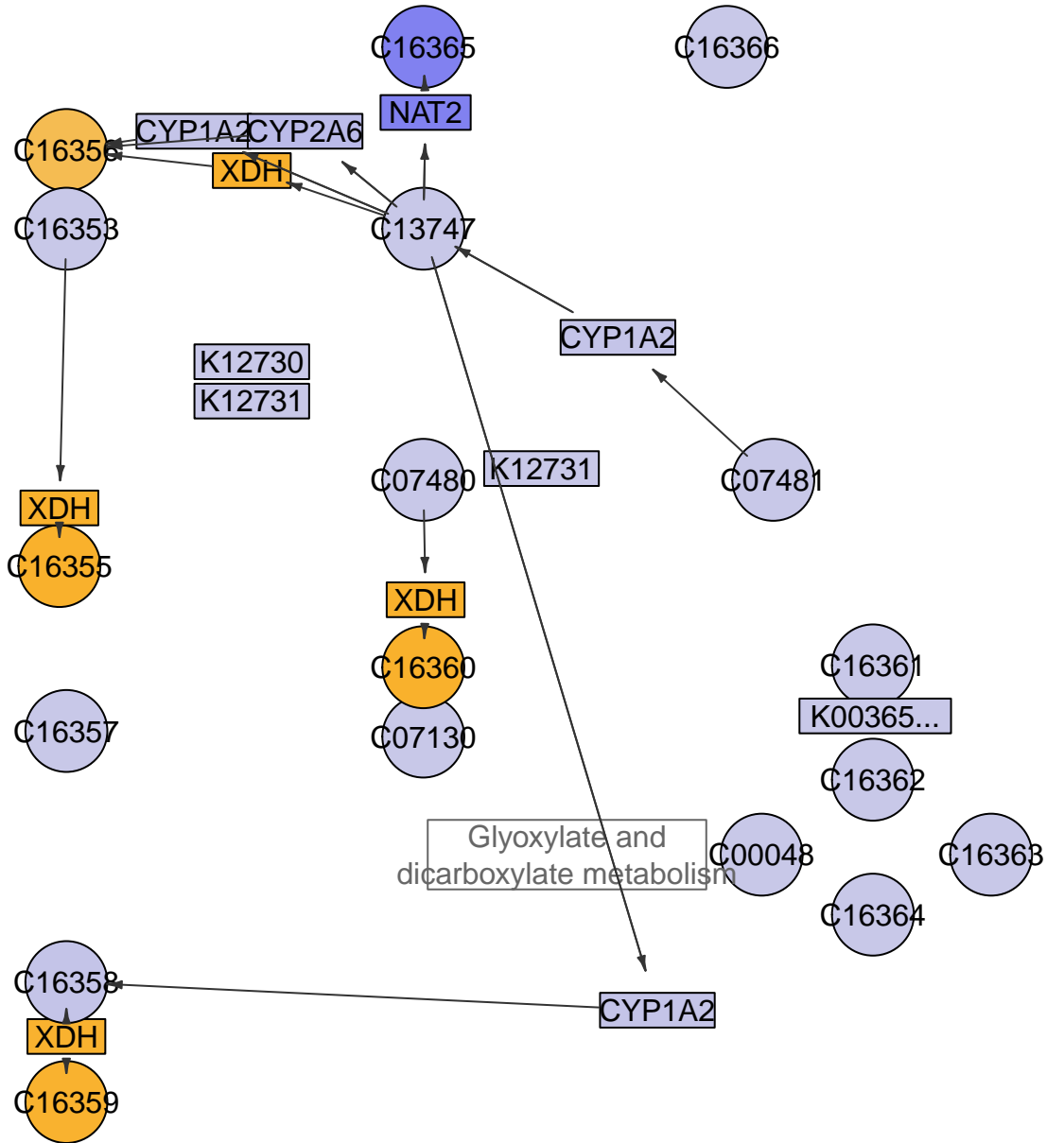
C01762

K12729

C16352

Purine metabolism

C00385

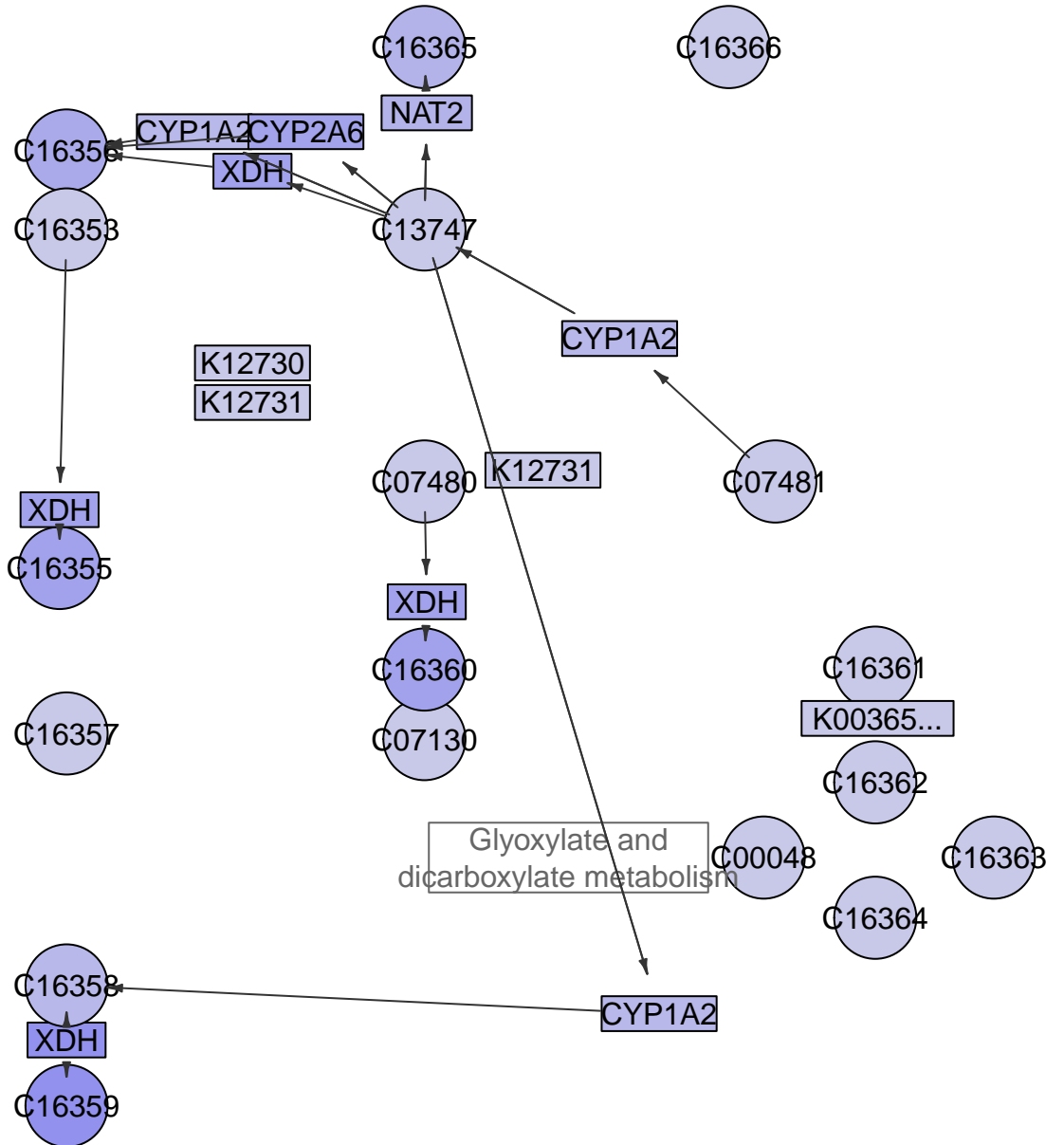


Caffeine metabolism
MPI-191

C01762

K12729

C16352



Purine metabolism

C00385

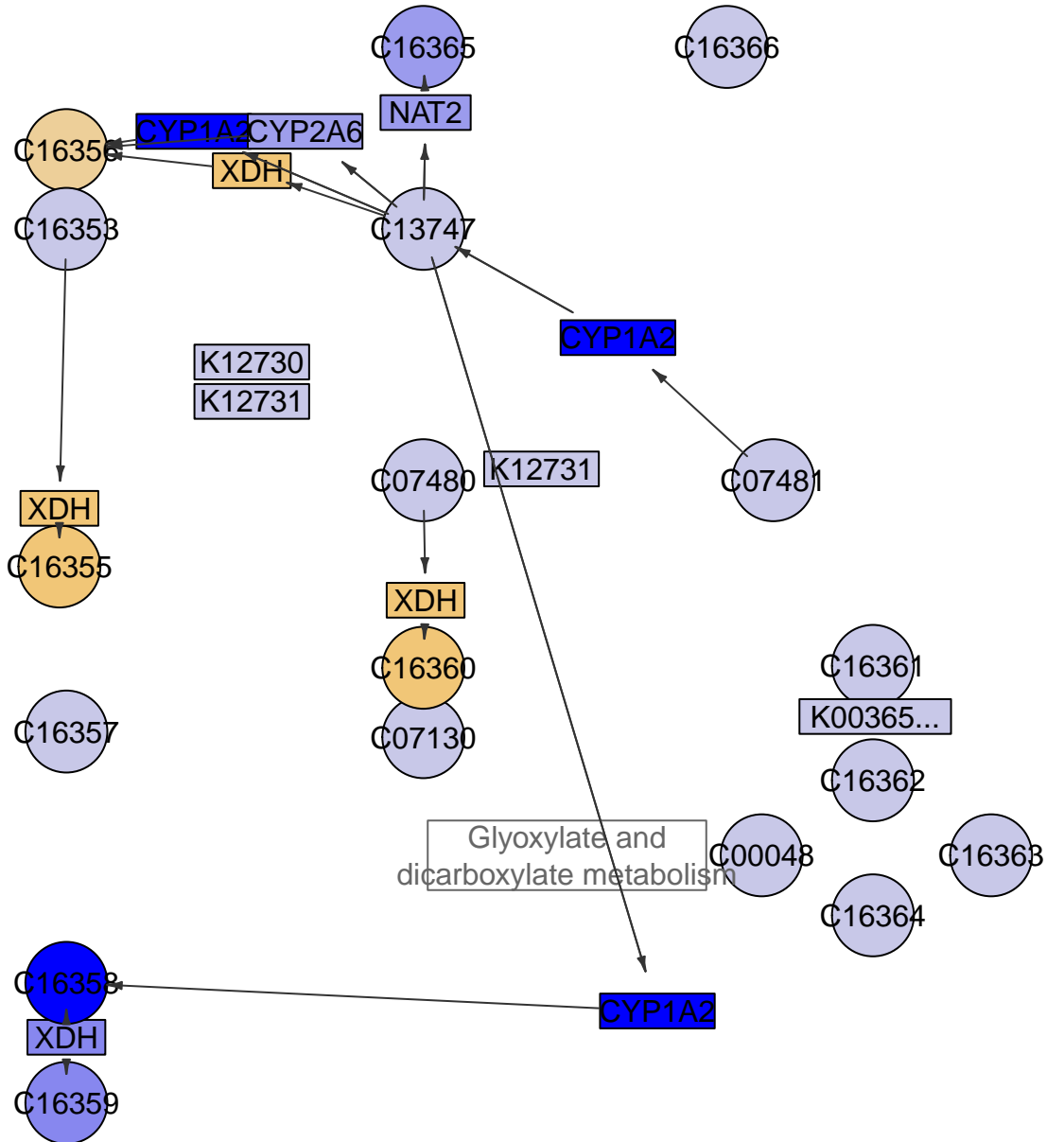
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-194

C01762

K12729

C16352



Purine metabolism

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-195

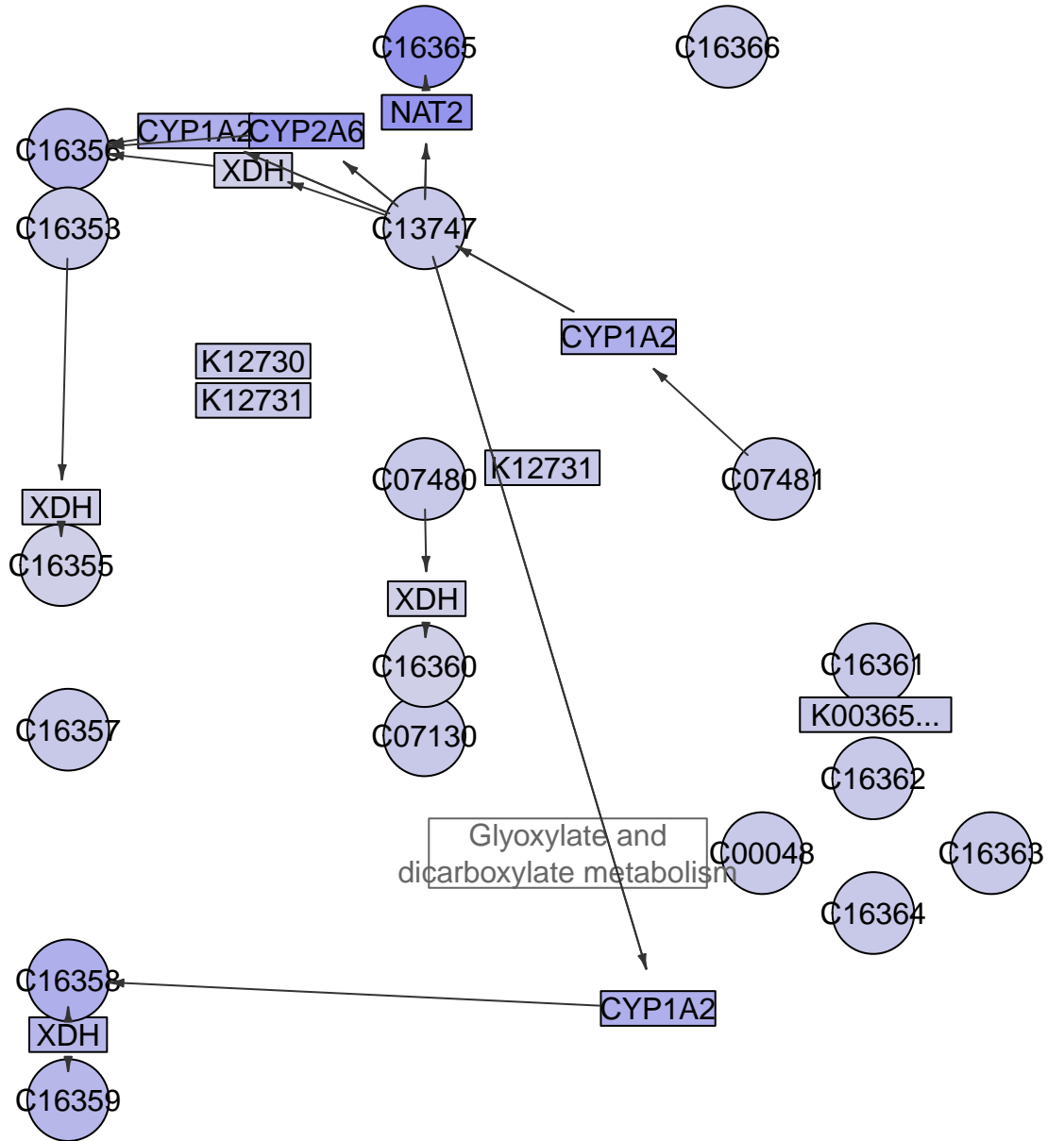
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-196

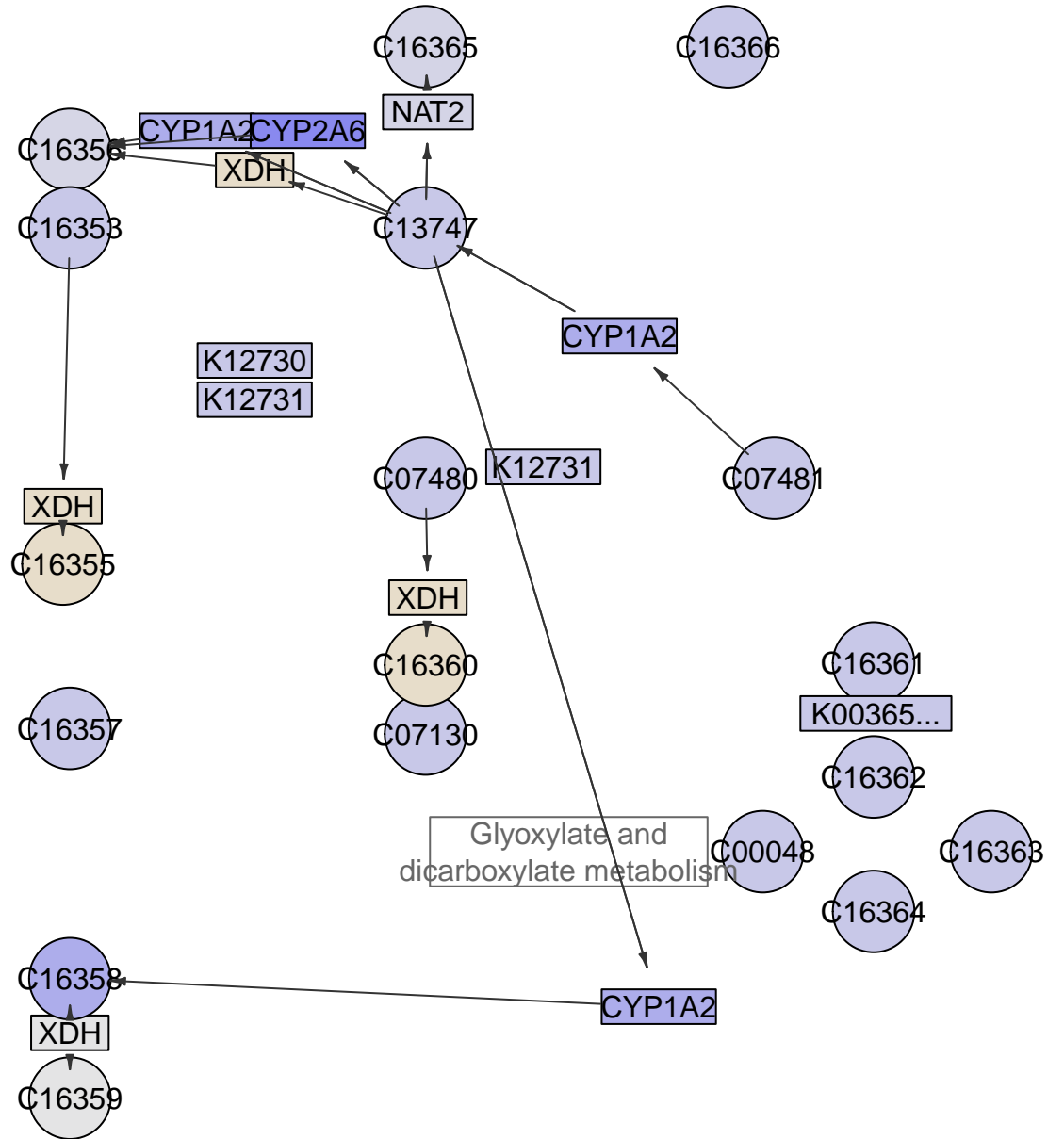
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-198

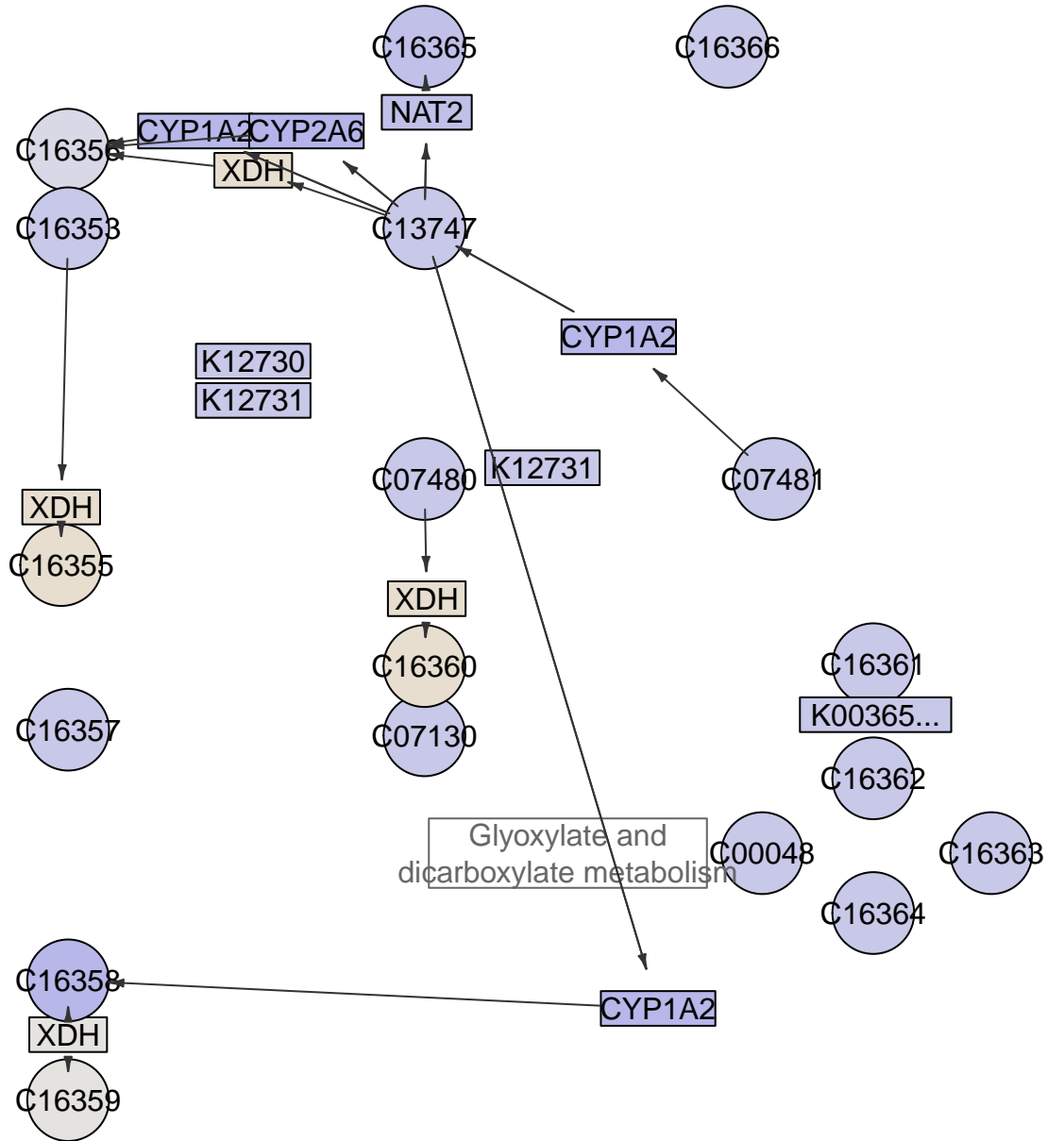
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-199

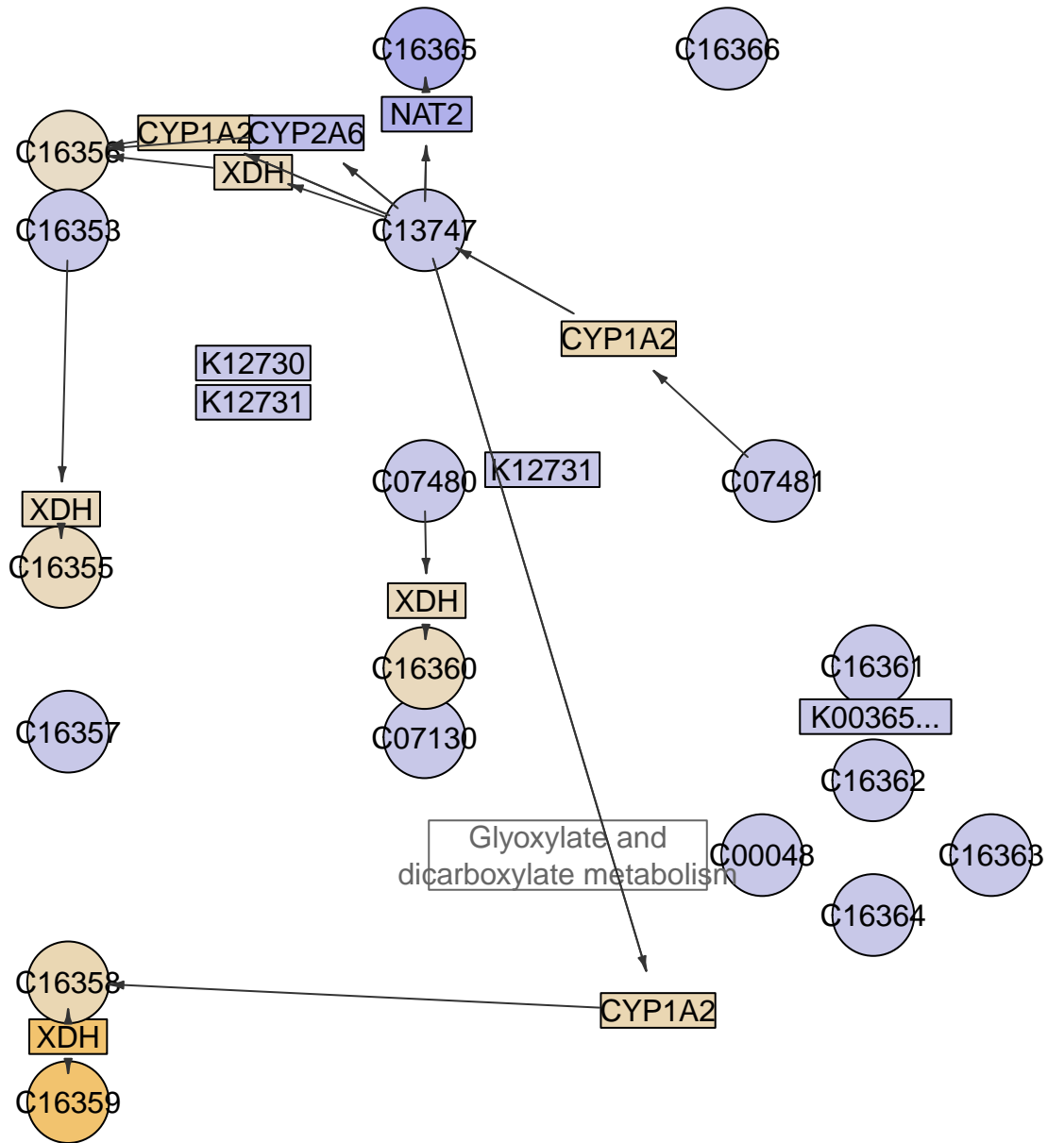
C01762

K12729

C16352

Purine metabolism

C00385

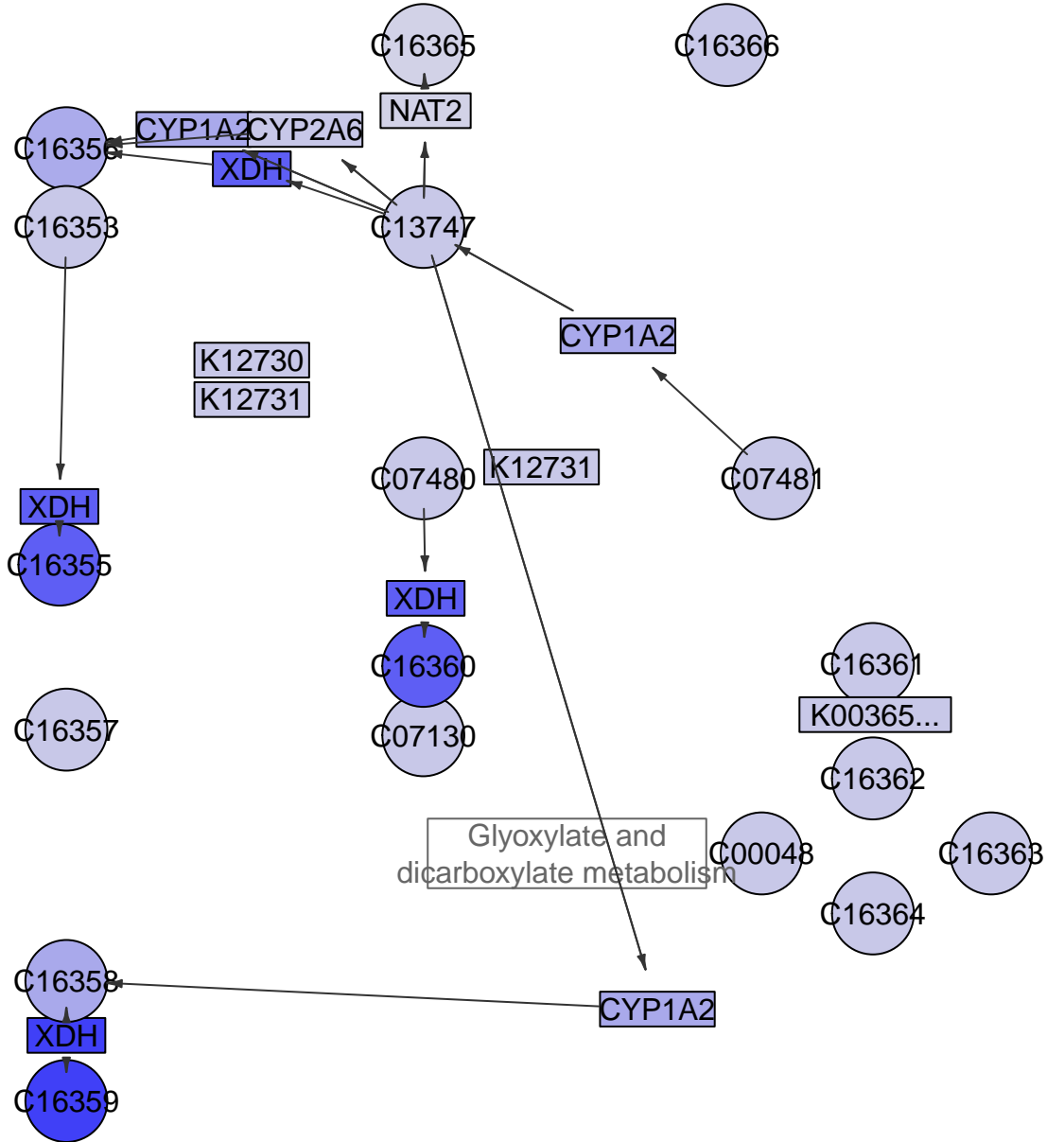


Caffeine metabolism
MPI-202

C01762

K12729

C16352



Purine metabolism

C00385

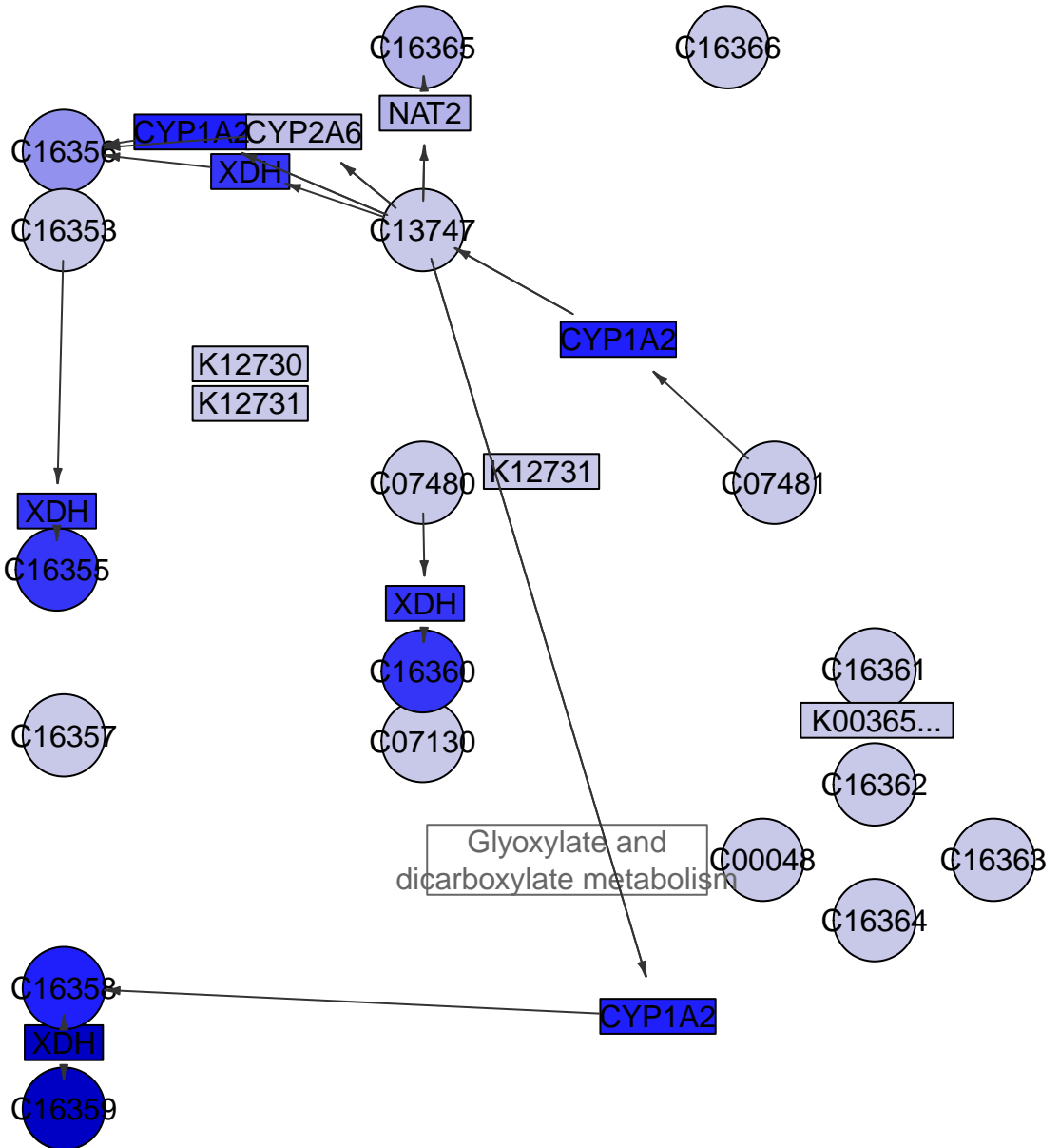
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-204

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-205

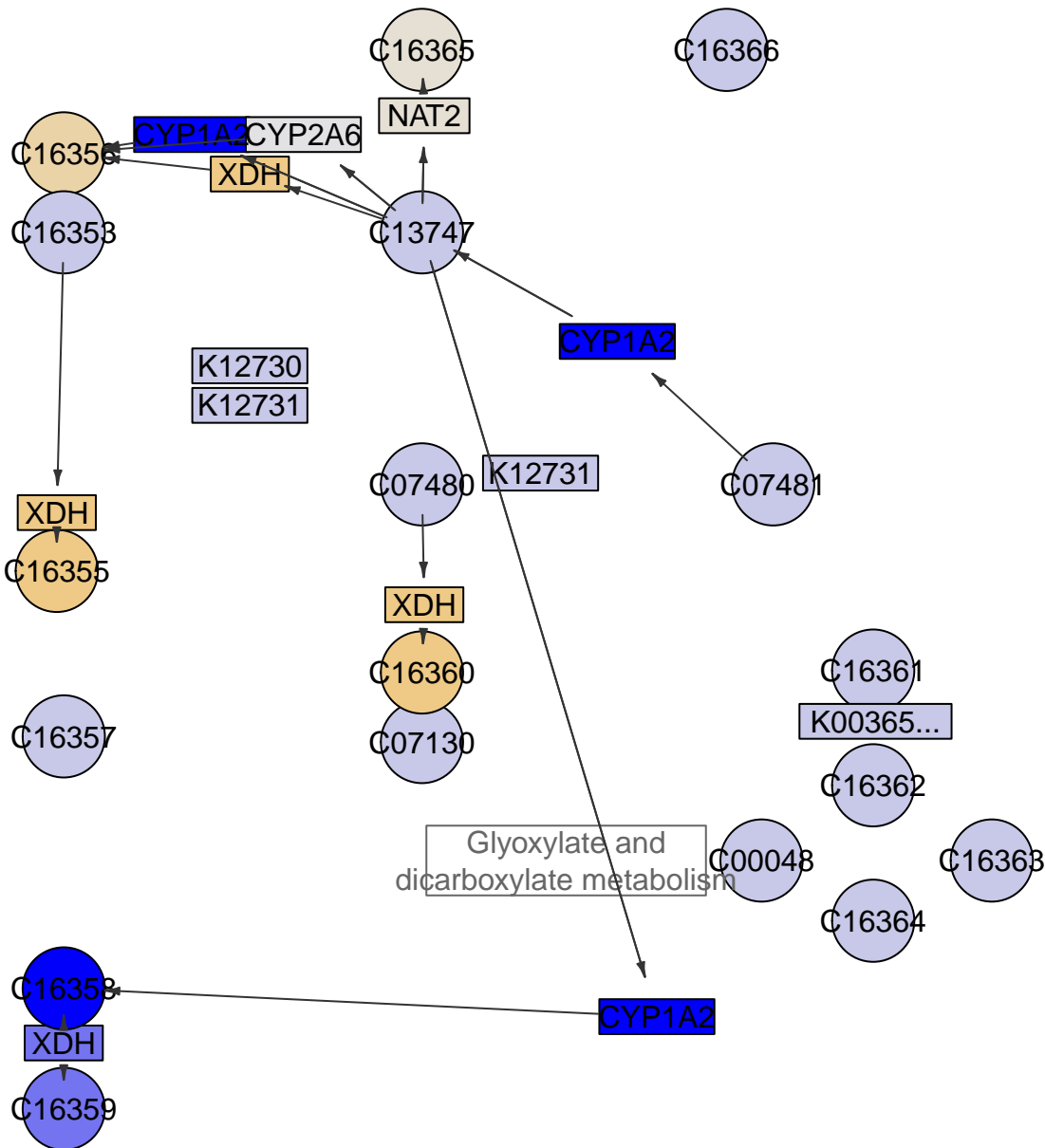
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-206

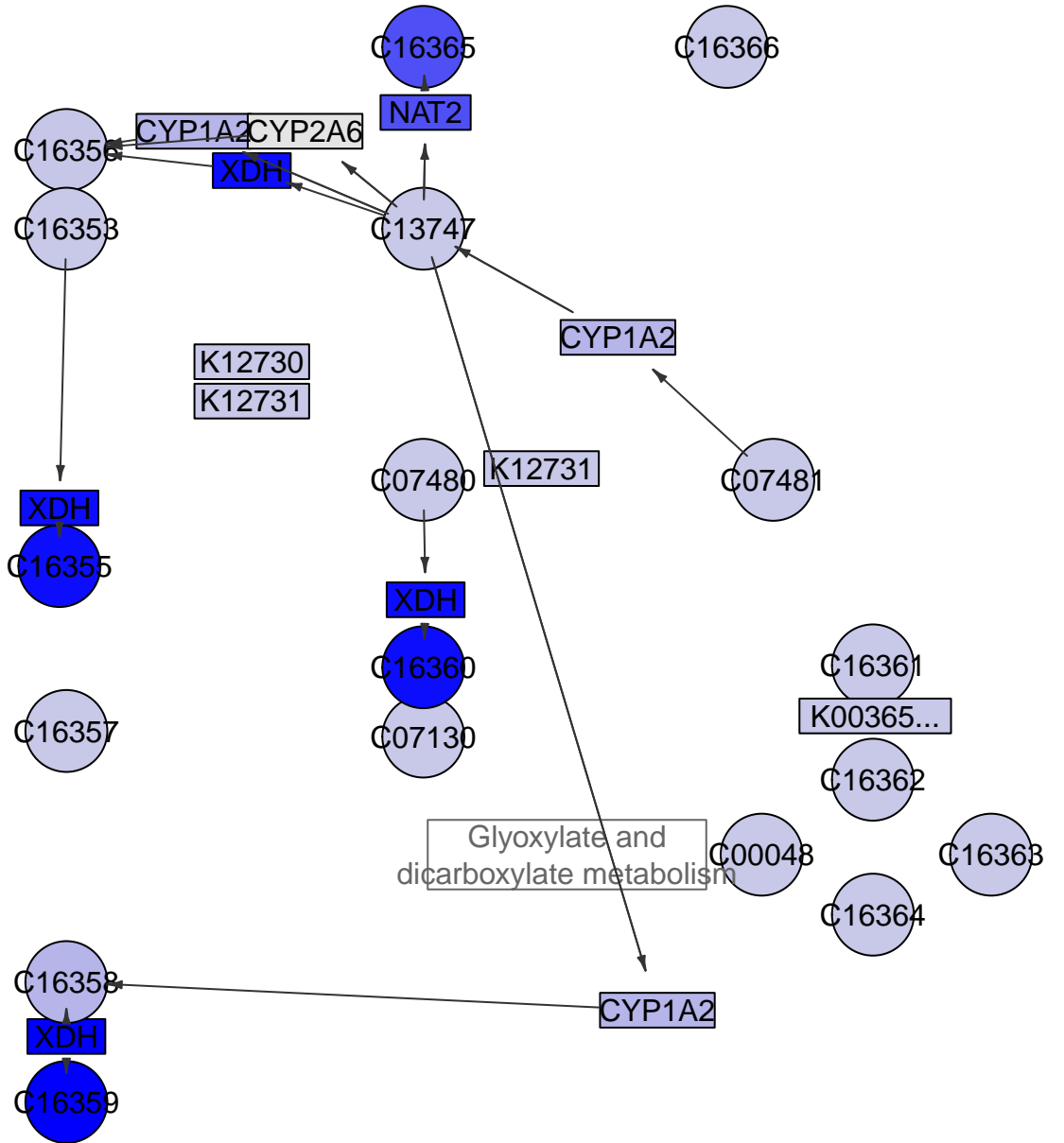
C01762

K12729

C16352

Purine metabolism

C00385

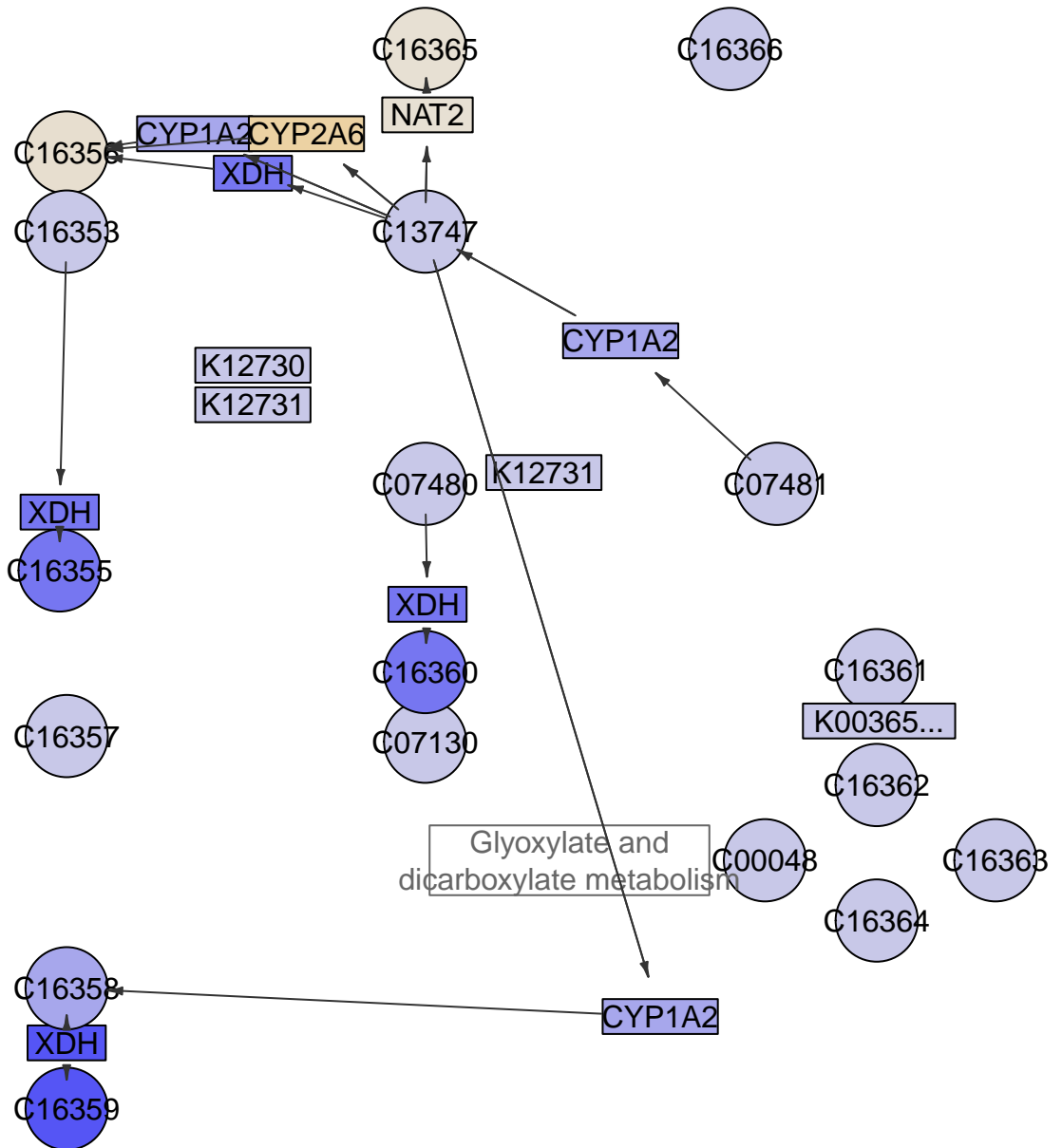


Caffeine metabolism
MPI-207

C01762

K12729

C16352



Purine metabolism

C00385

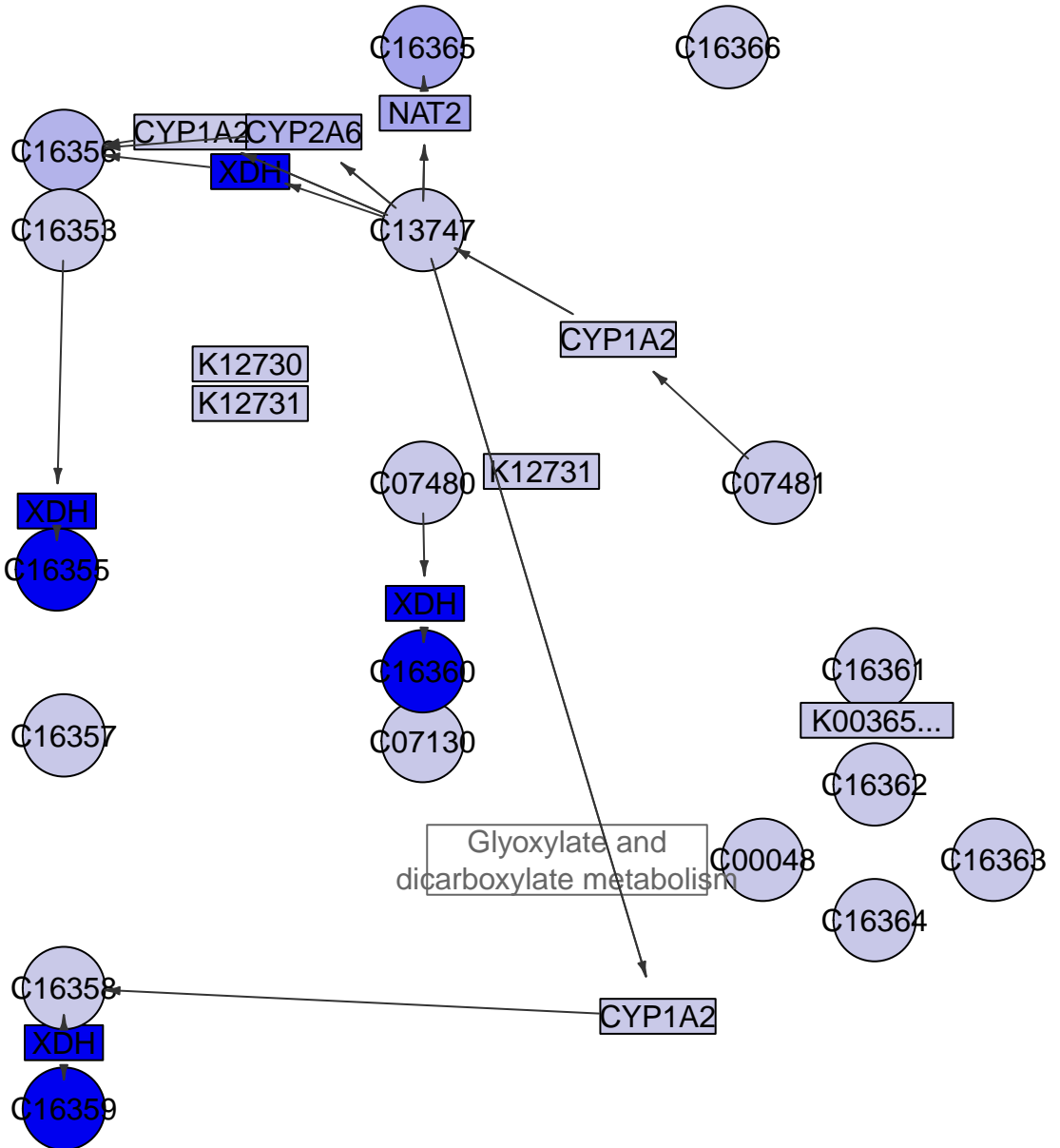
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-210

C01762

K12729

C16352



Purine metabolism

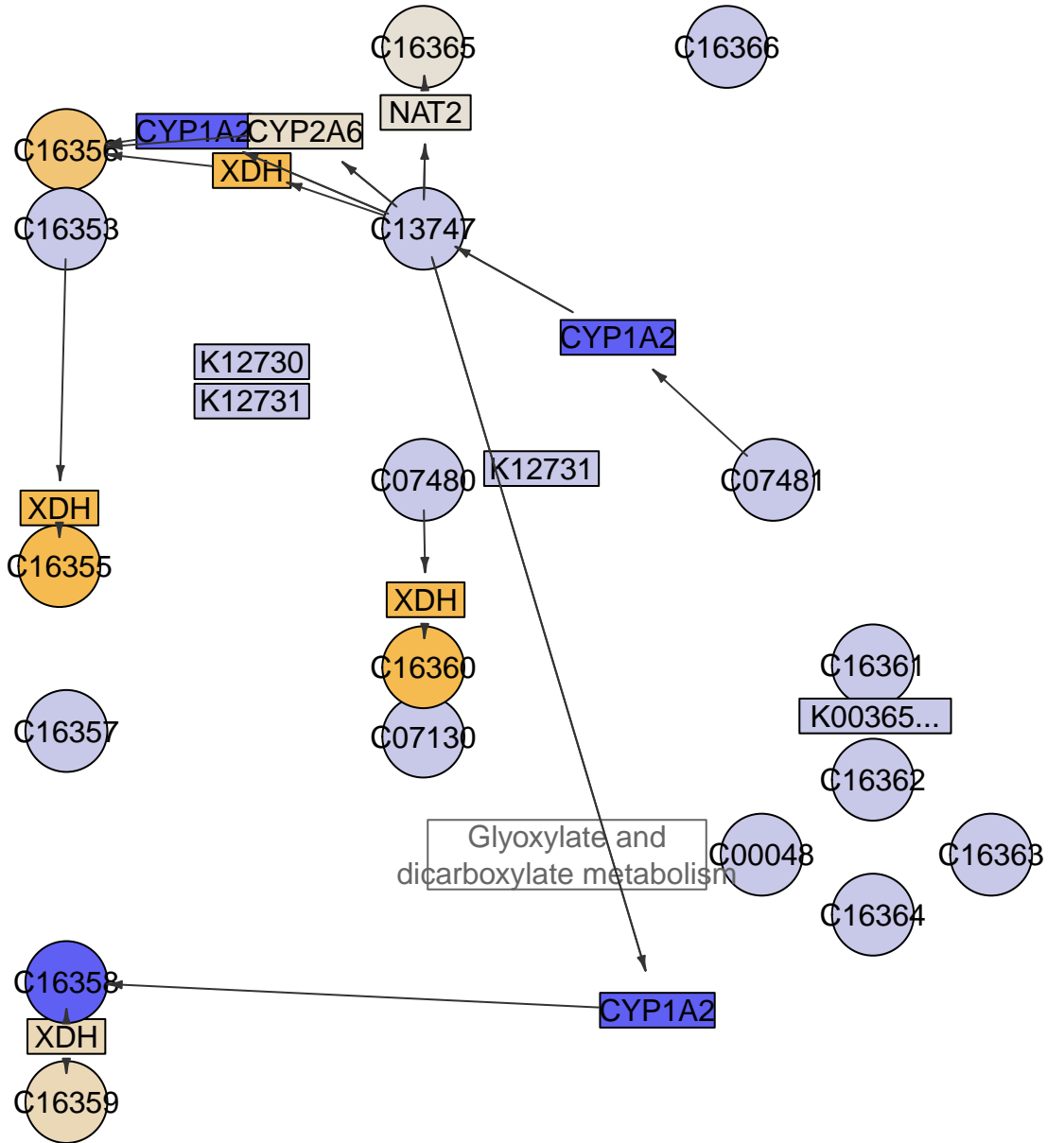
C00385

Caffeine metabolism
MPI-212

C01762

K12729

C16352



Purine metabolism

C00385

C16358

XDH

C16359

Glyoxylate and
dicarboxylate metabolism

C00048

C16361

K00365...

C16362

C16364

C16363

Caffeine metabolism
MPI-213

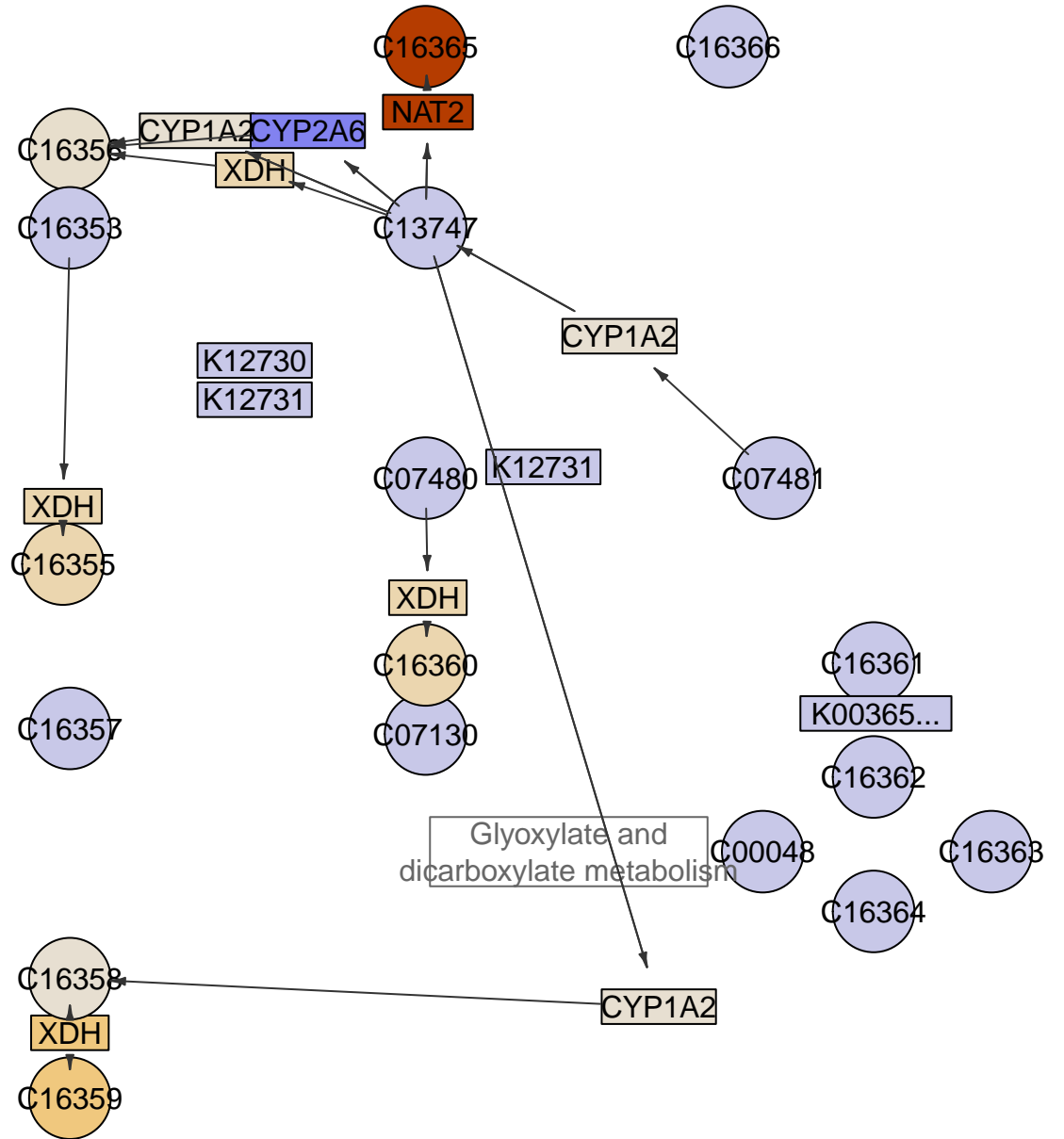
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-219

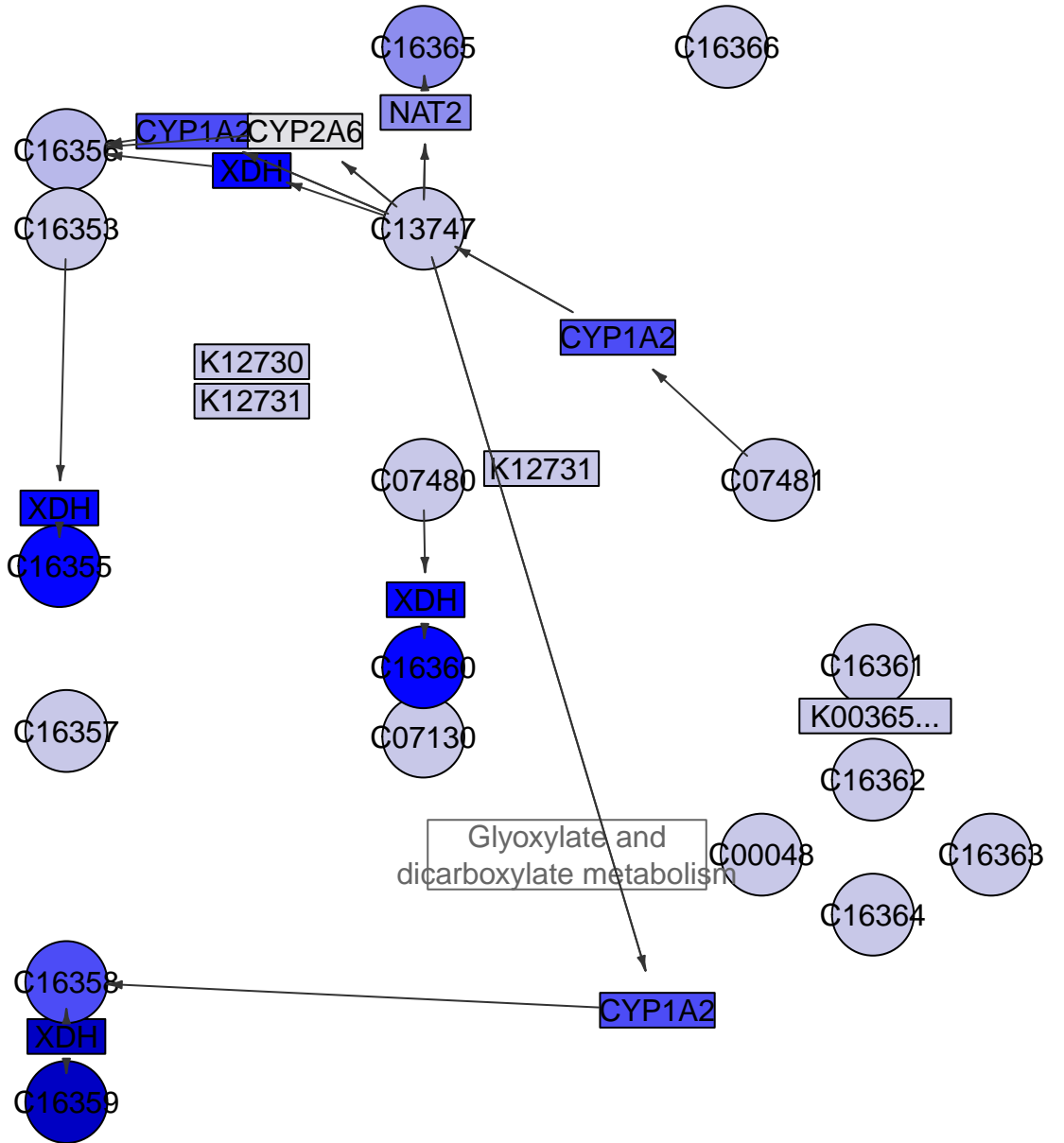
C01762

K12729

C16352

Purine metabolism

C00385

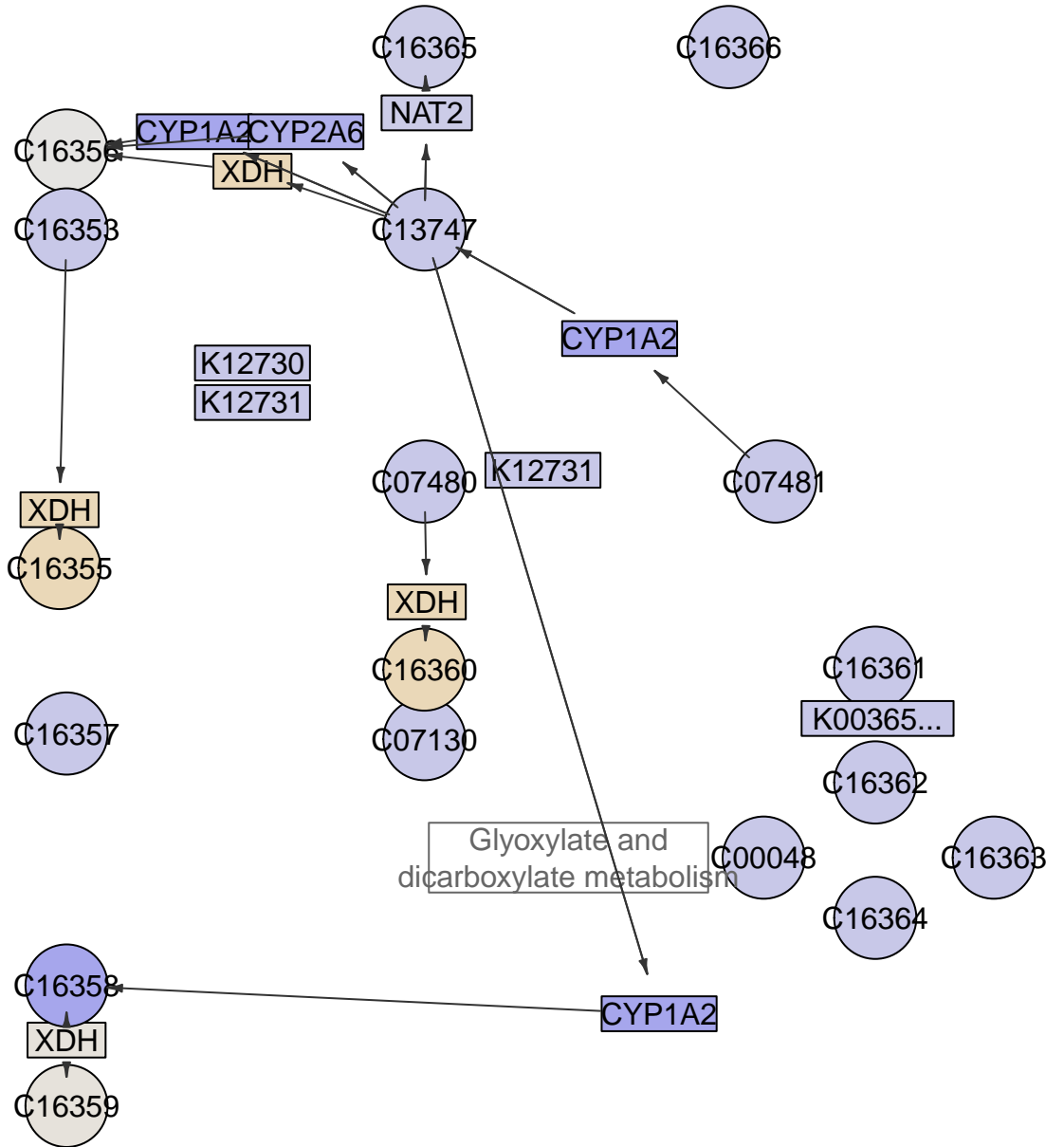


Caffeine metabolism
MPI-221

C01762

K12729

C16352



Purine metabolism

C00385

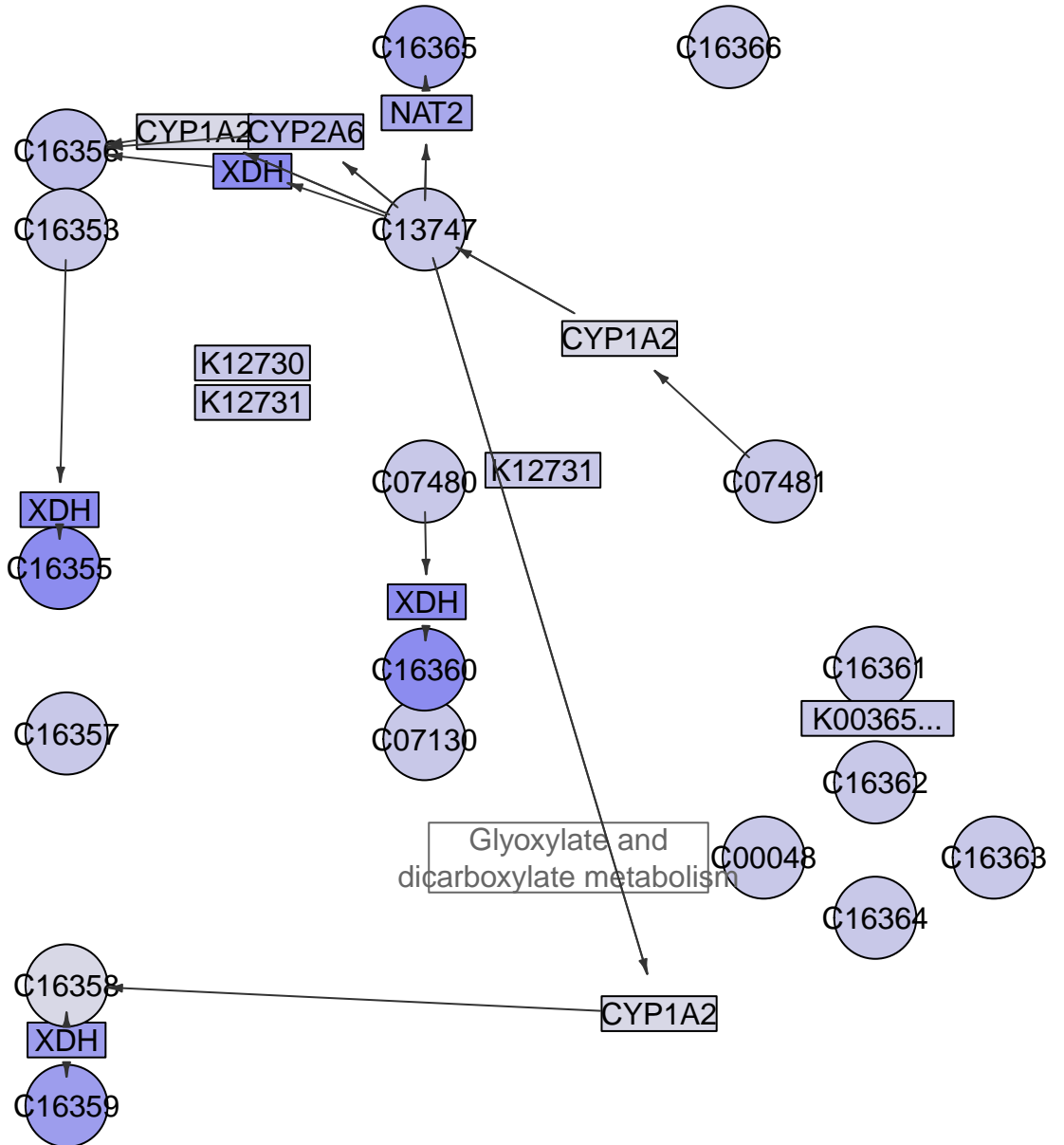
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-223a

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-226

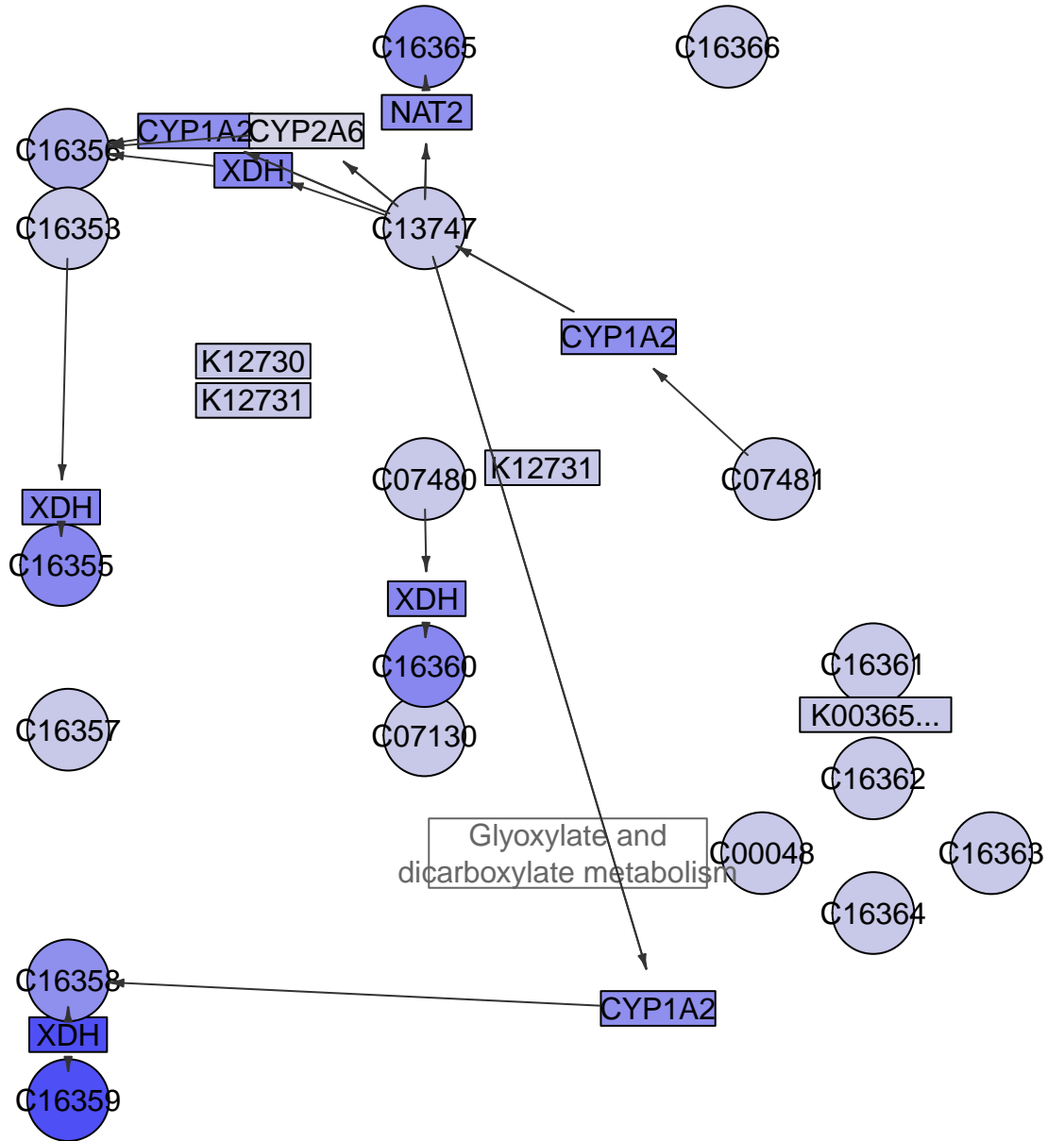
C01762

K12729

C16352

Purine metabolism

C00385



Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-229

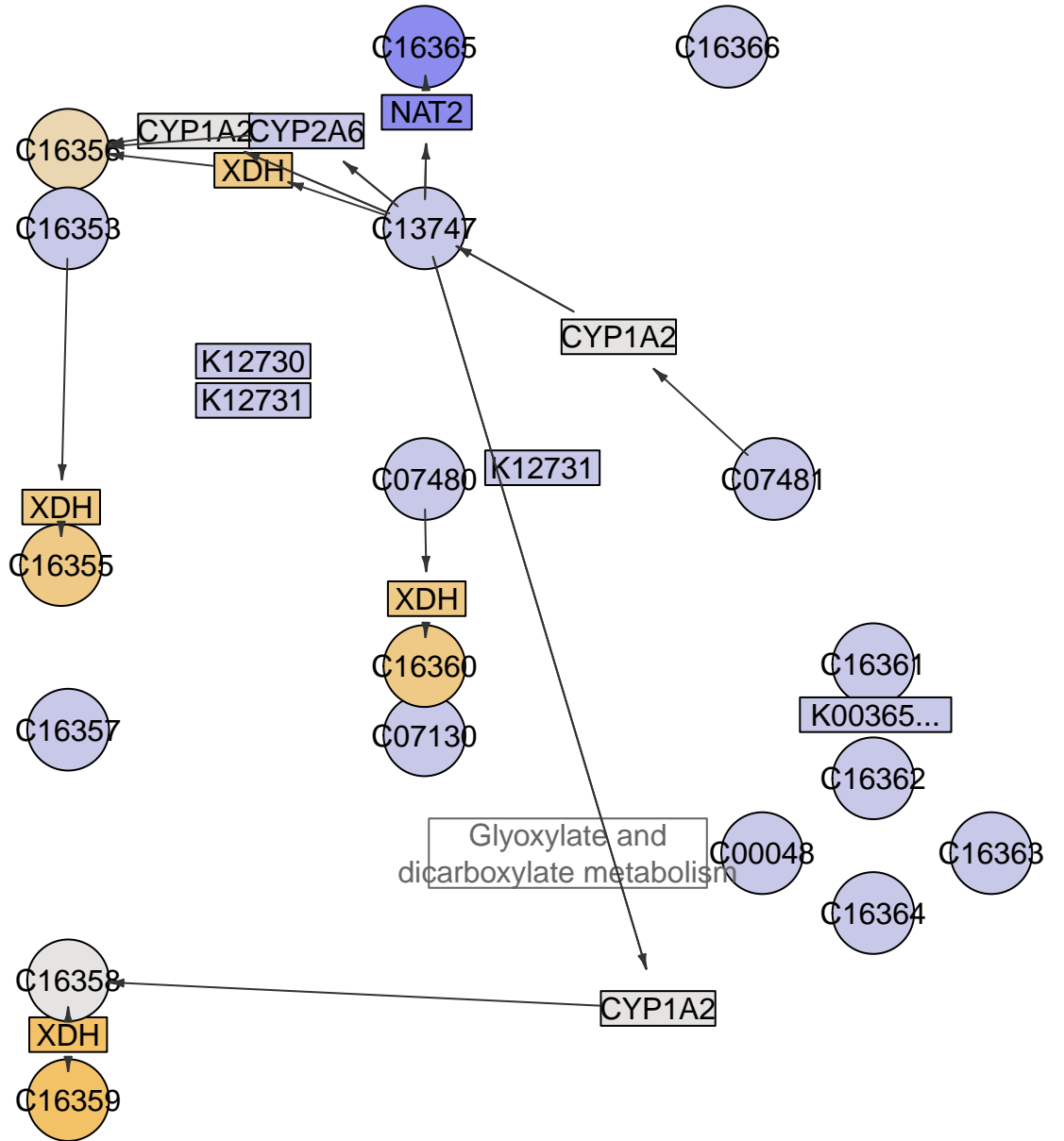
C01762

K12729

C16352

Purine metabolism

C00385

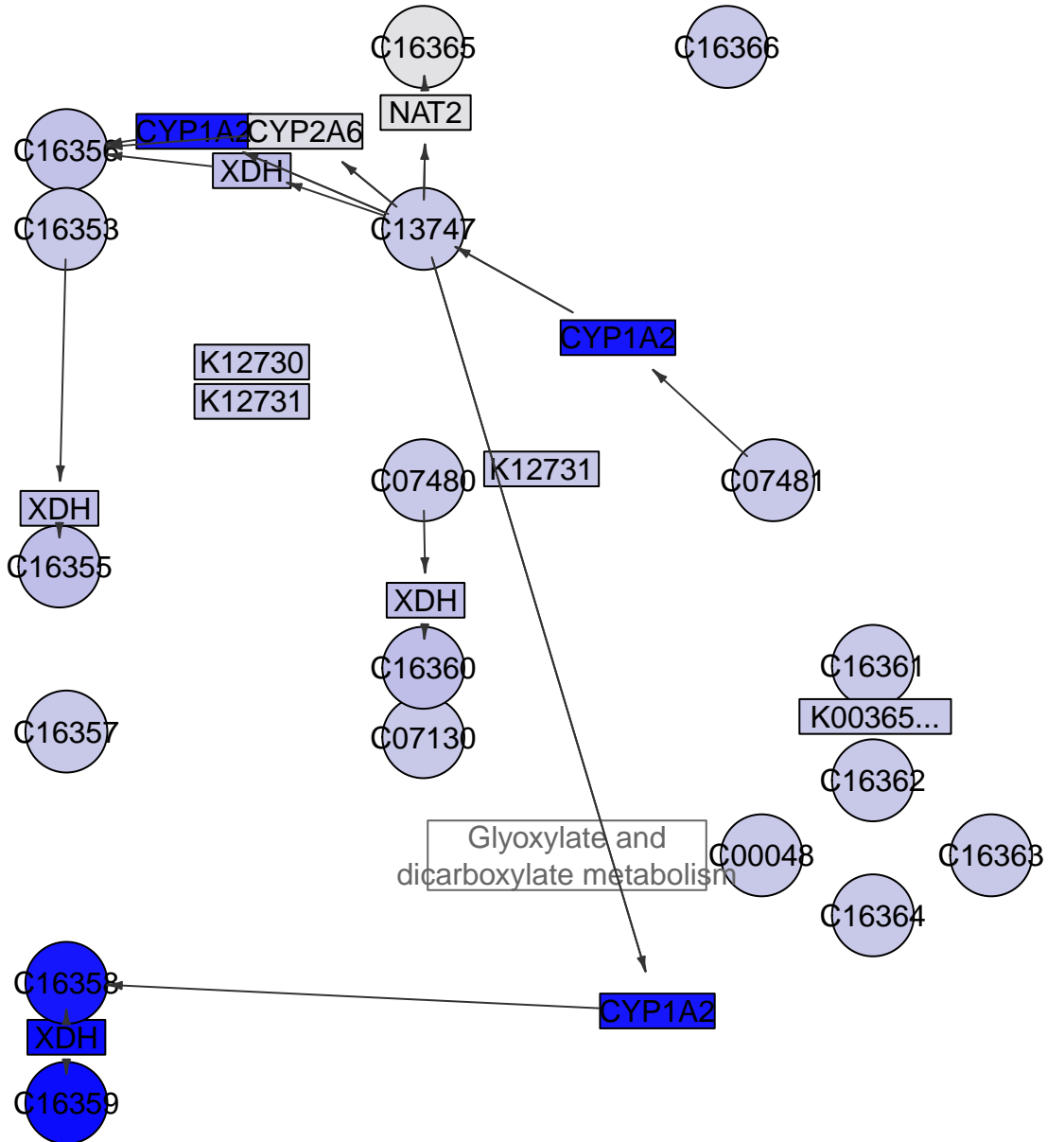


Caffeine metabolism
MPI-230

C01762

K12729

C16352



Purine metabolism

C00385

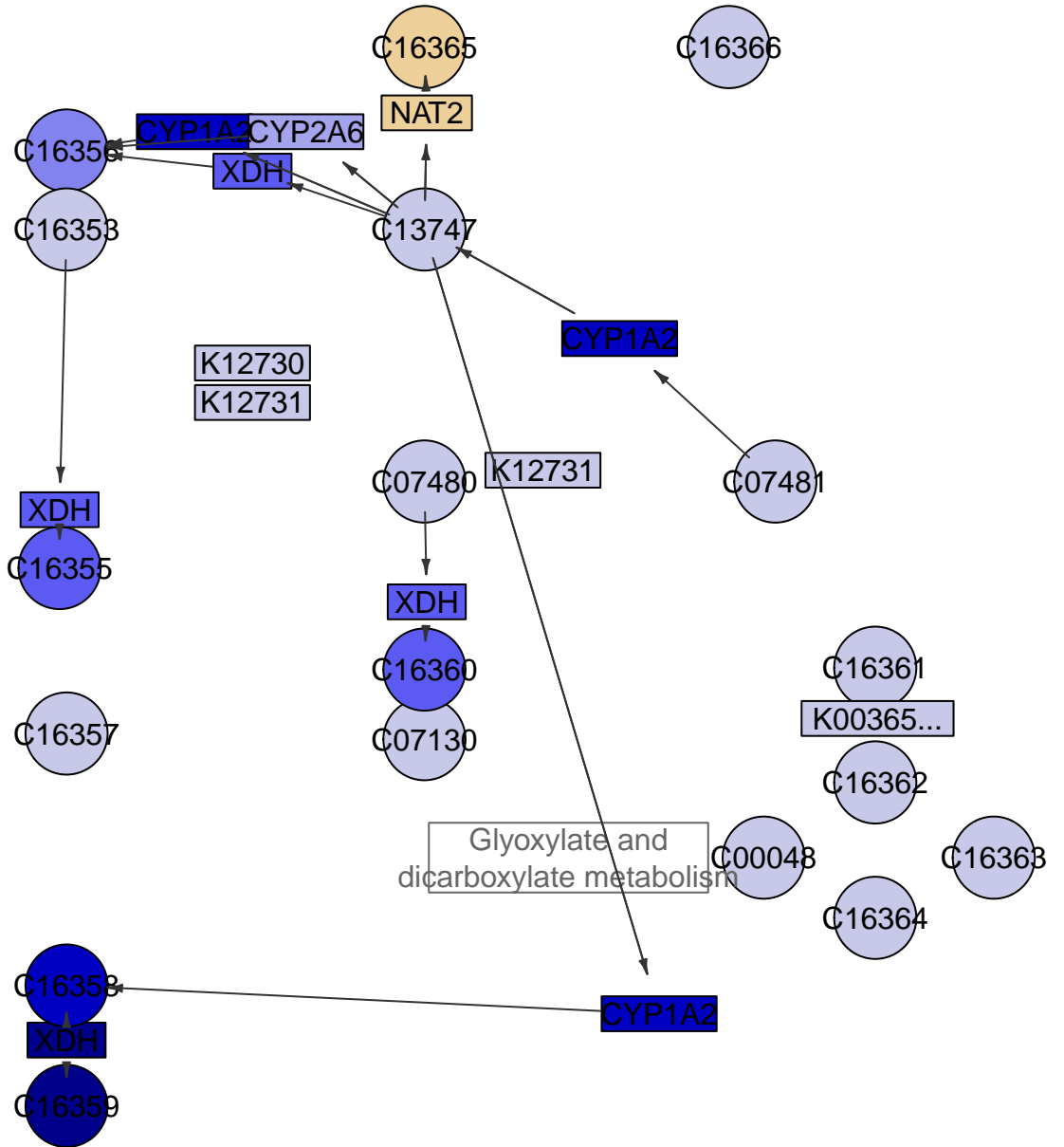
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-231

C01762

K12729

C16352



Purine metabolism

Glyoxylate and
dicarboxylate metabolism

C00385

C16358

C16359

C07480

C16360

C07130

K12731

C00048

C16361

C16362

C16364

C16363

C16366

C16365

C16355

C16353

C16355

C16355

C16355

C16355

C16357

C16357

C16357

C16357

C16357

C16357

CYP1A2

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

CYP2A6

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

NAT2

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

XDH

CYP1A2

CYP1A2

CYP1A2

CYP1A2

CYP1A2

CYP1A2

CYP1A2

CYP1A2

CYP1A2

CYP1A2

K00365...

K00365...

K00365...

K00365...

K00365...

K00365...

C16361

C16362

C16363

C16364

C16365

C16366

C16367

C16368

C16369

C16370

C16371

C16372

C16373

C16374

C16375

C16376

C16377

C16378

C16379

C16380

C16381

C16382

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C16384

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C16408

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C16501

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C16504

C16505

C16506

C16507

C16508

C16509

C16510

C16511

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C16556

C16557

C16558

C16559

C16560

C16561

C16562

C16563

C16564

C16565

C16566

C16567

C16568

C16569

C16570

C16571

C16572

C16573

C16574

C16575

C16576

C16577

C16578

C16579

Caffeine metabolism
MPI-232

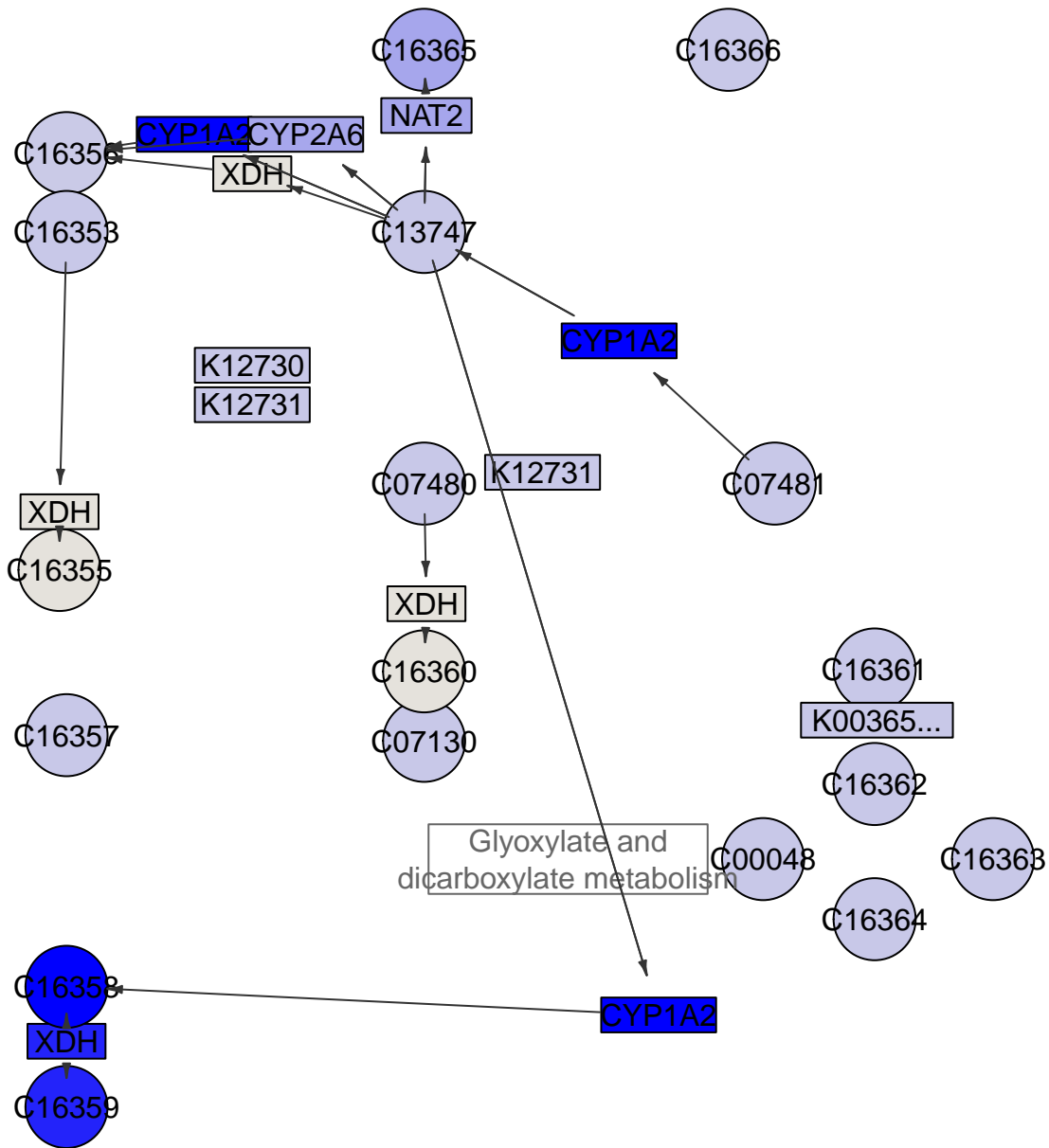
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-233

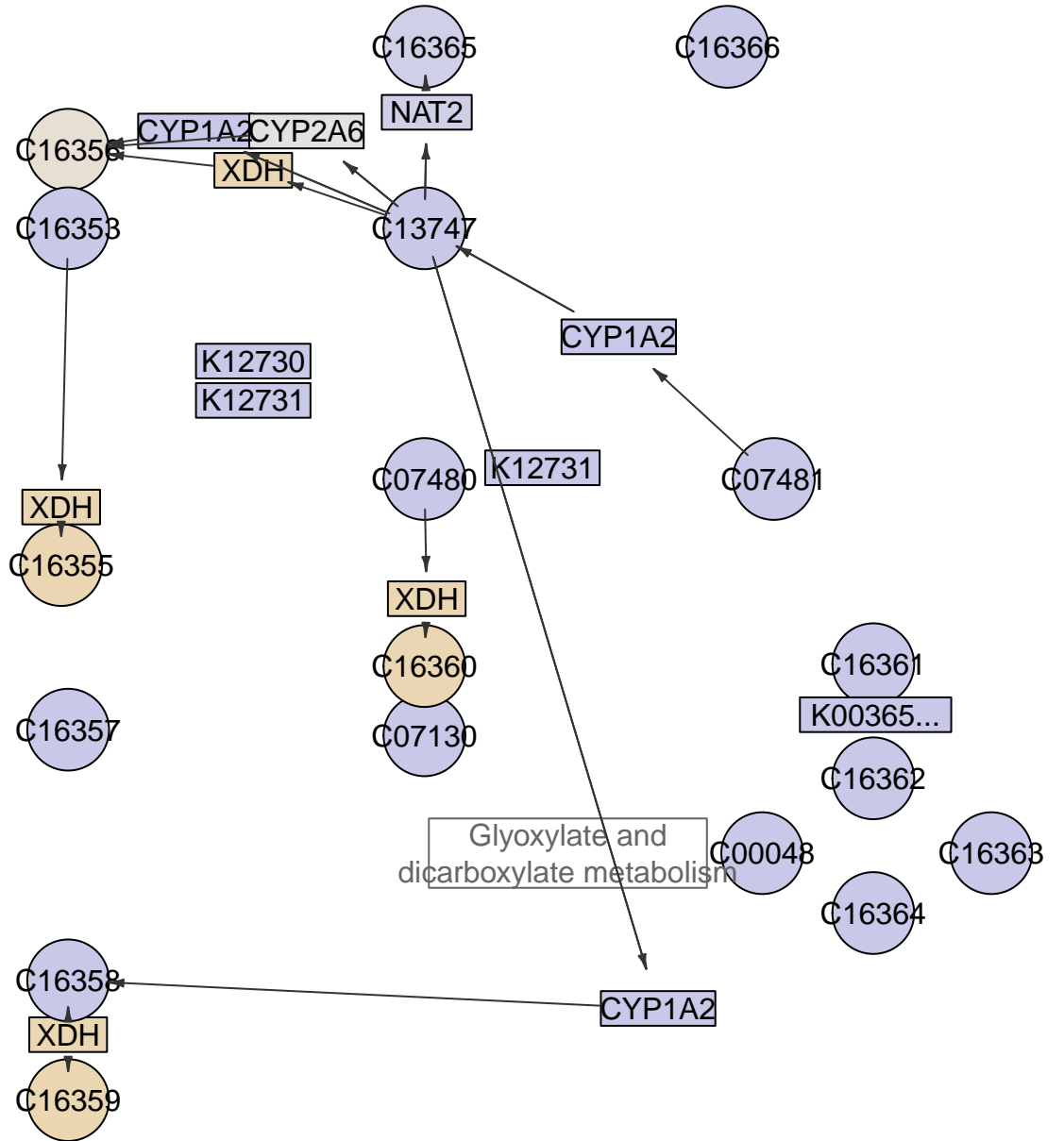
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-234

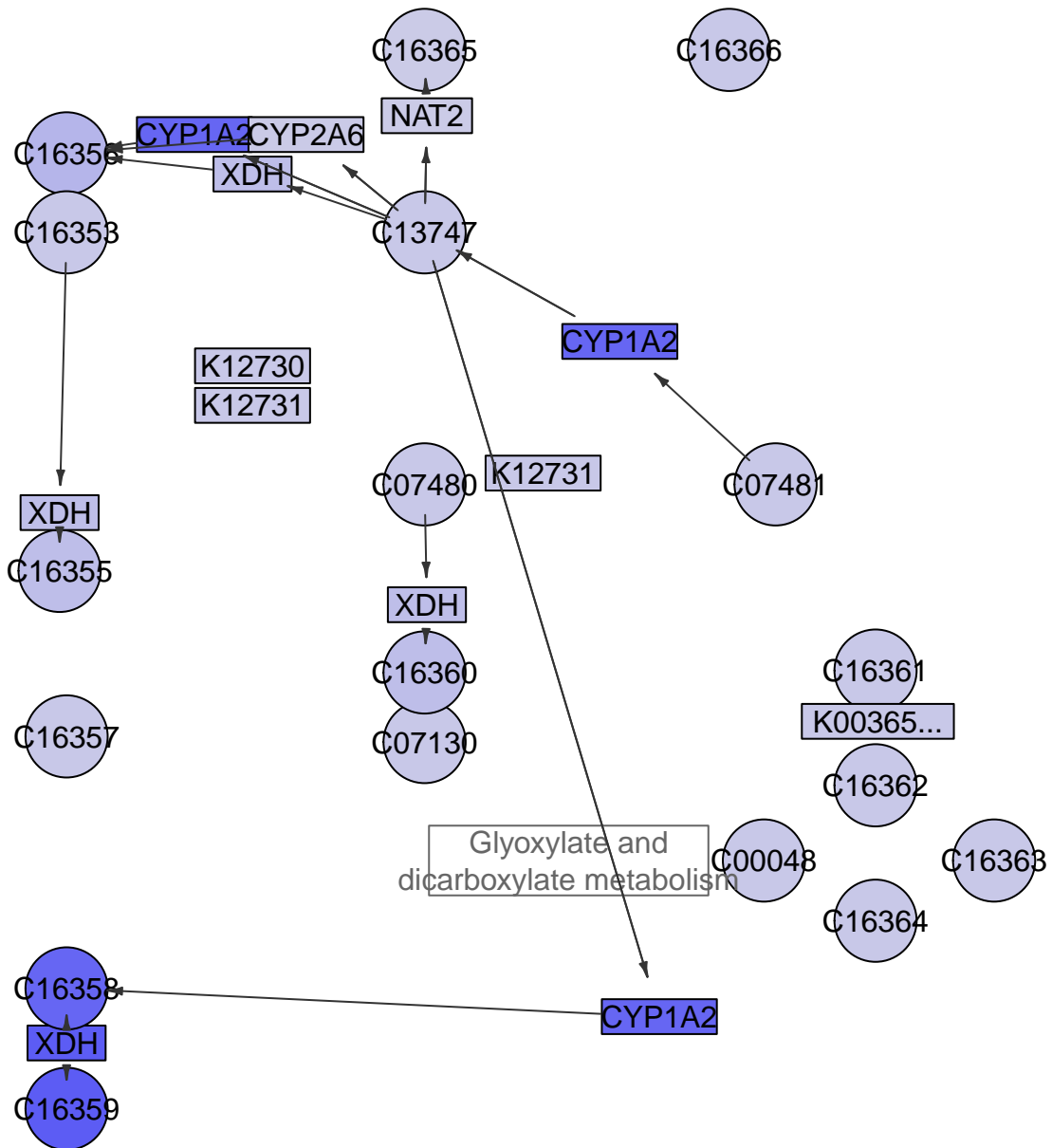
C01762

K12729

C16352

Purine metabolism

C00385

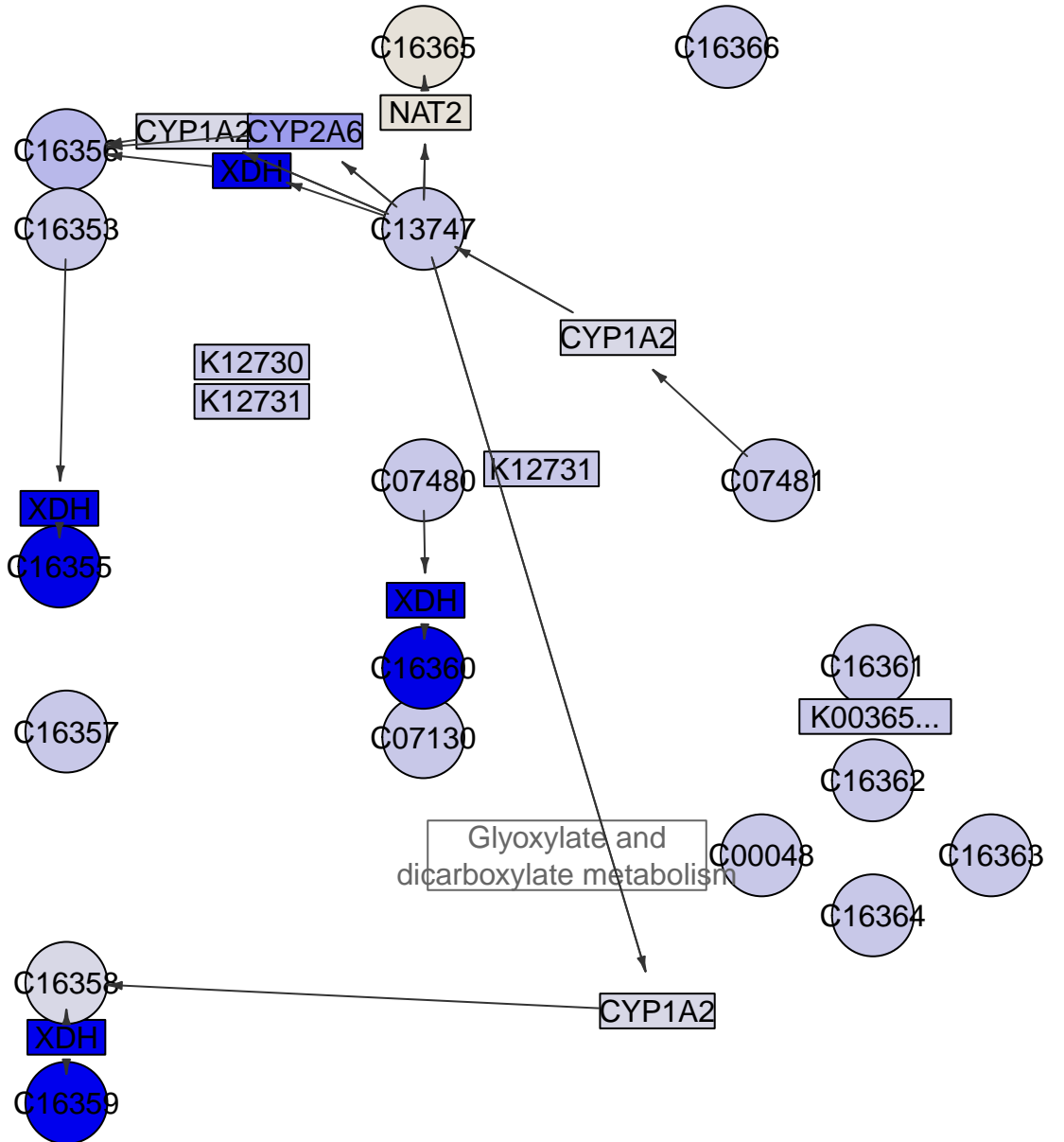


Caffeine metabolism
MPI-235

C01762

K12729

C16352



Purine metabolism

C00385

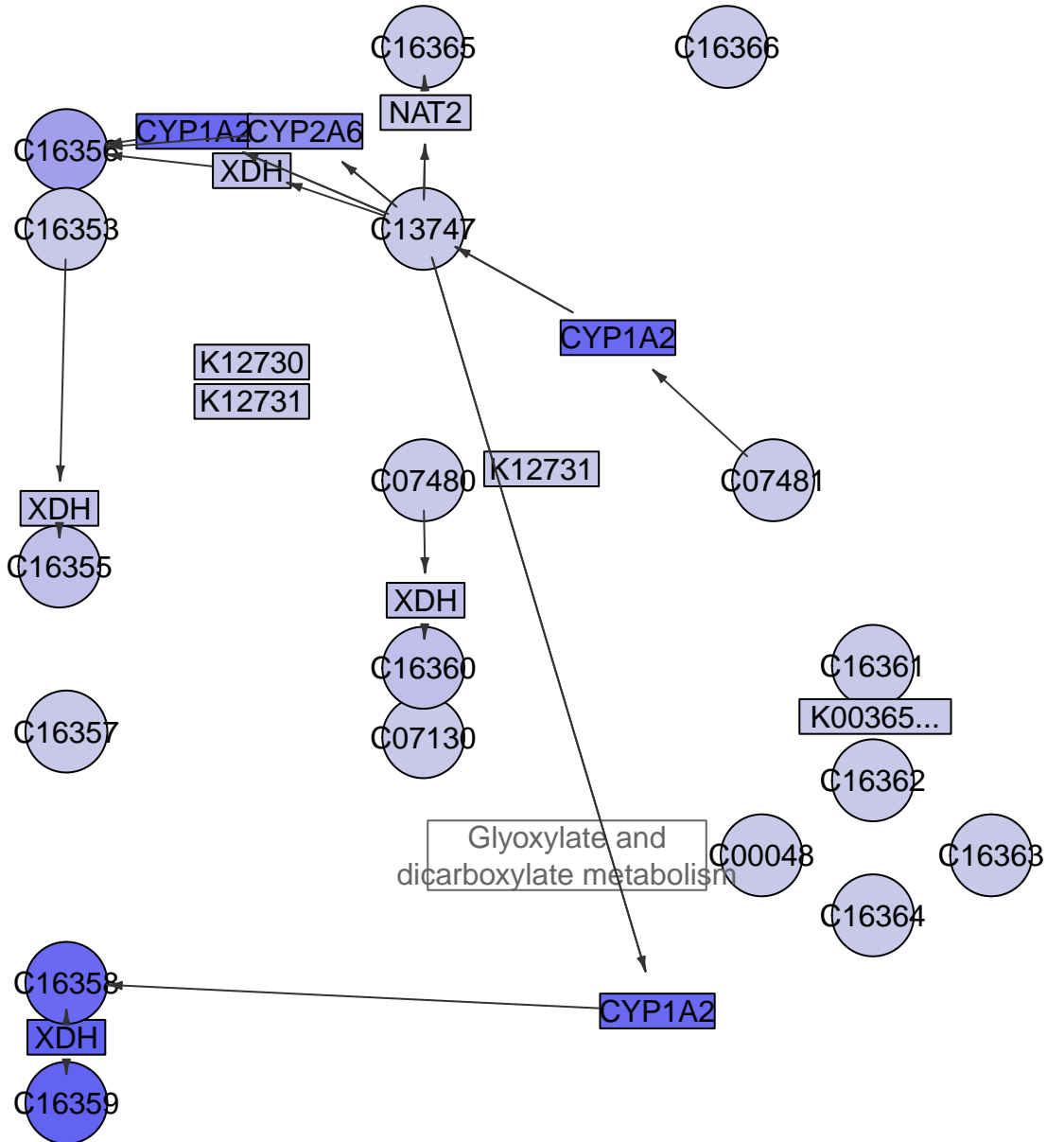
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-239

C01762

K12729

C16352



Purine metabolism

C00385

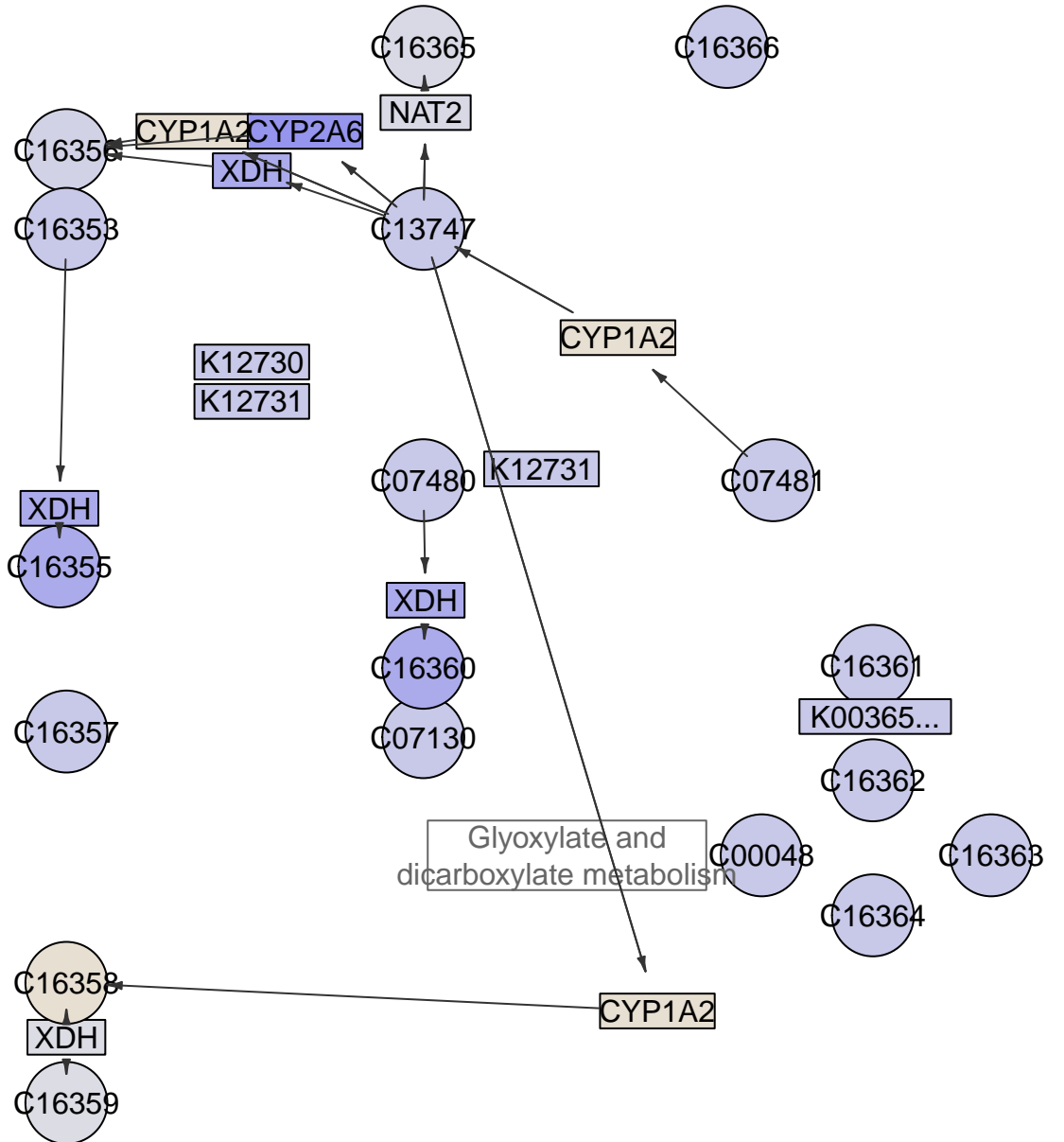
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-241

C01762

K12729

C16352



Purine metabolism

C00385

Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-243

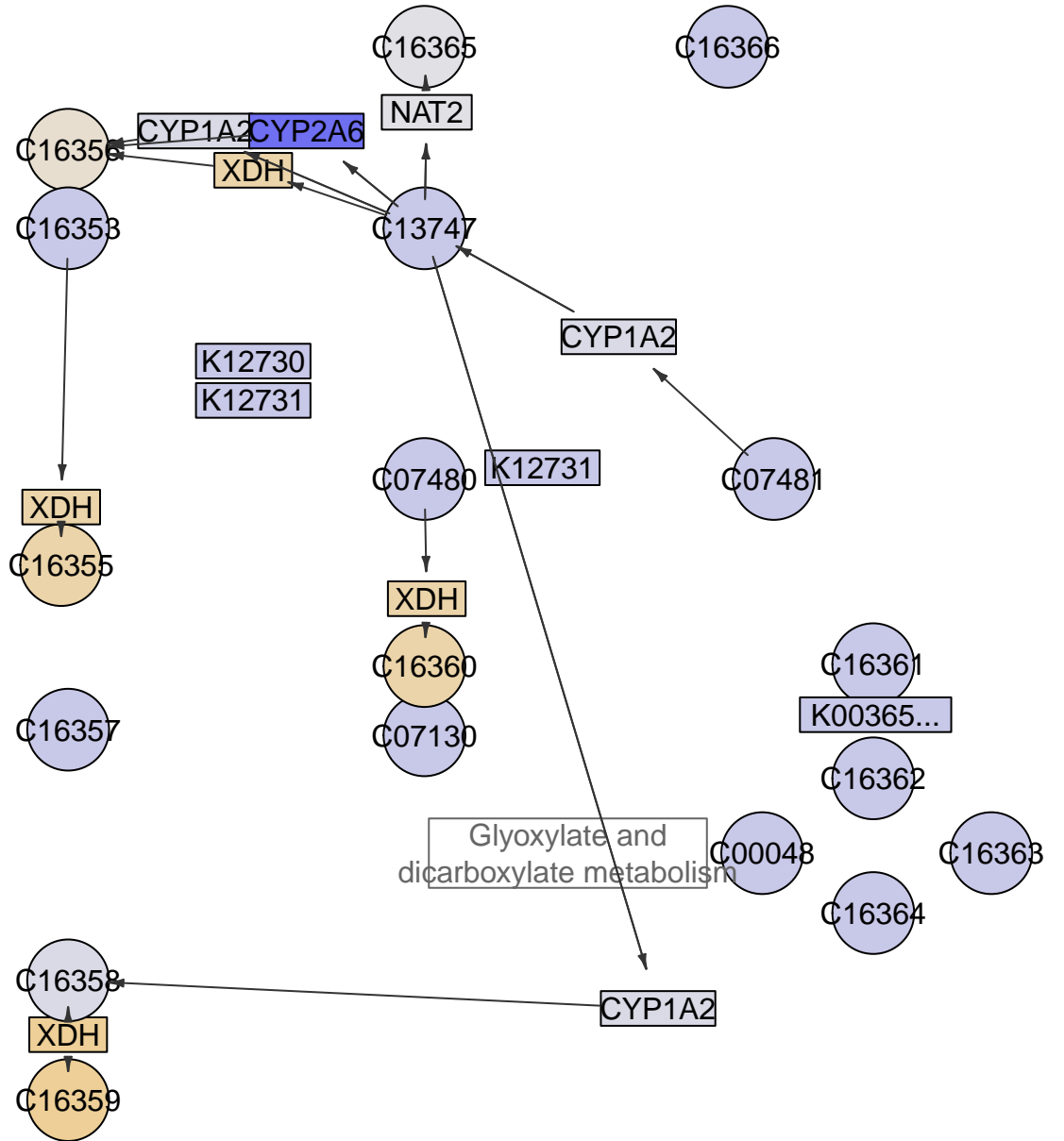
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-244

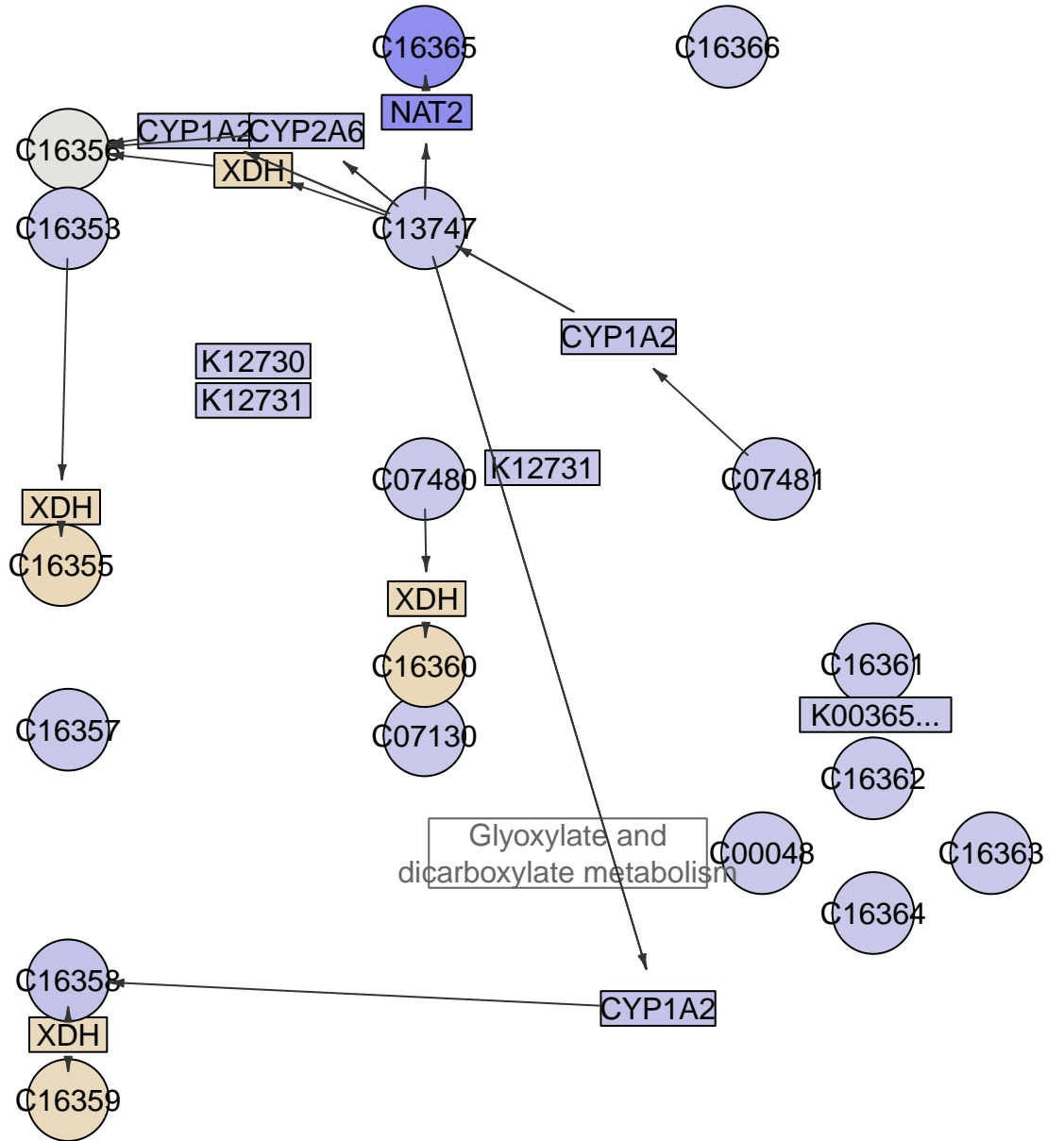
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-246

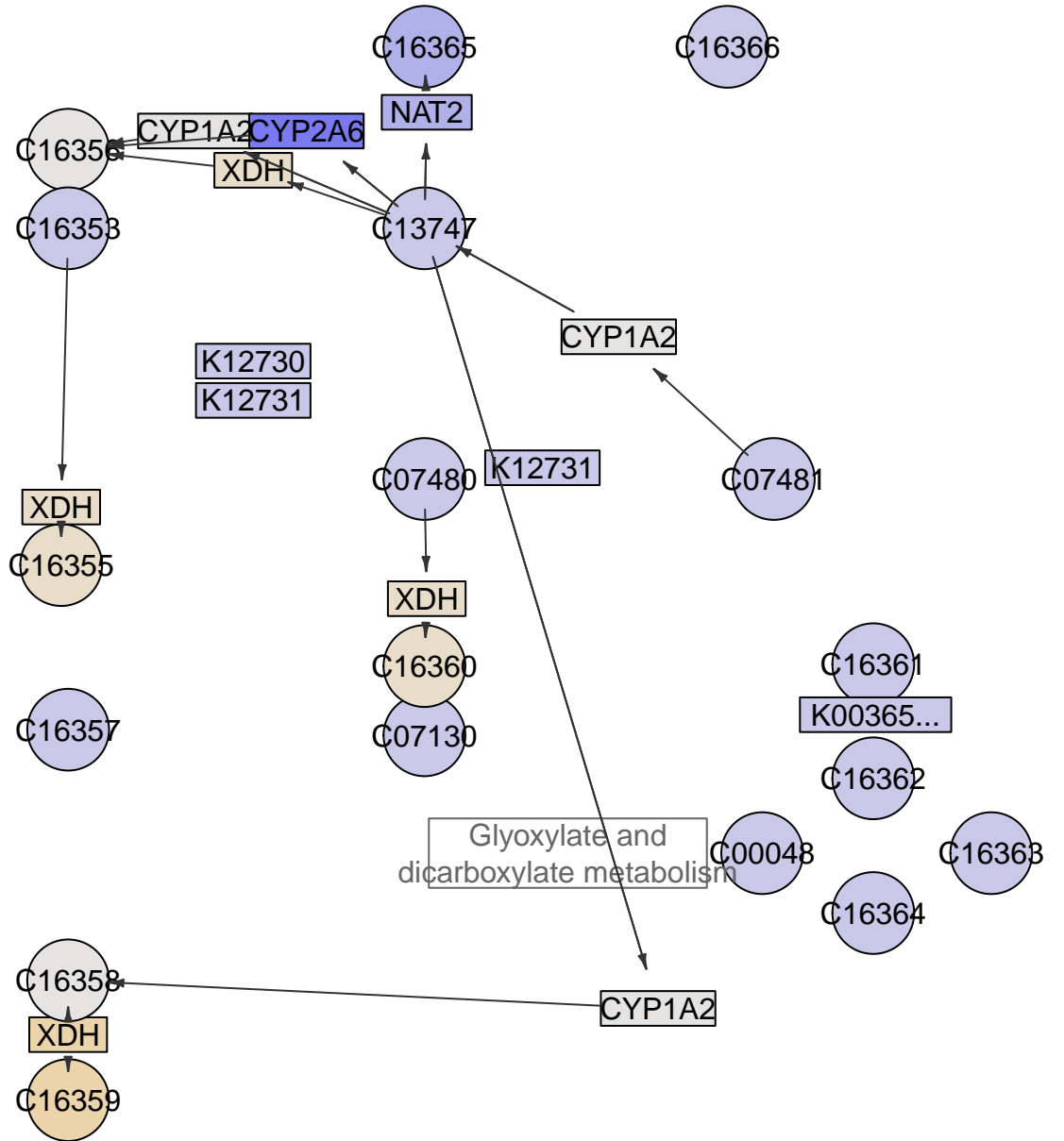
C01762

K12729

C16352

Purine metabolism

C00385



Caffeine metabolism
MPI-247

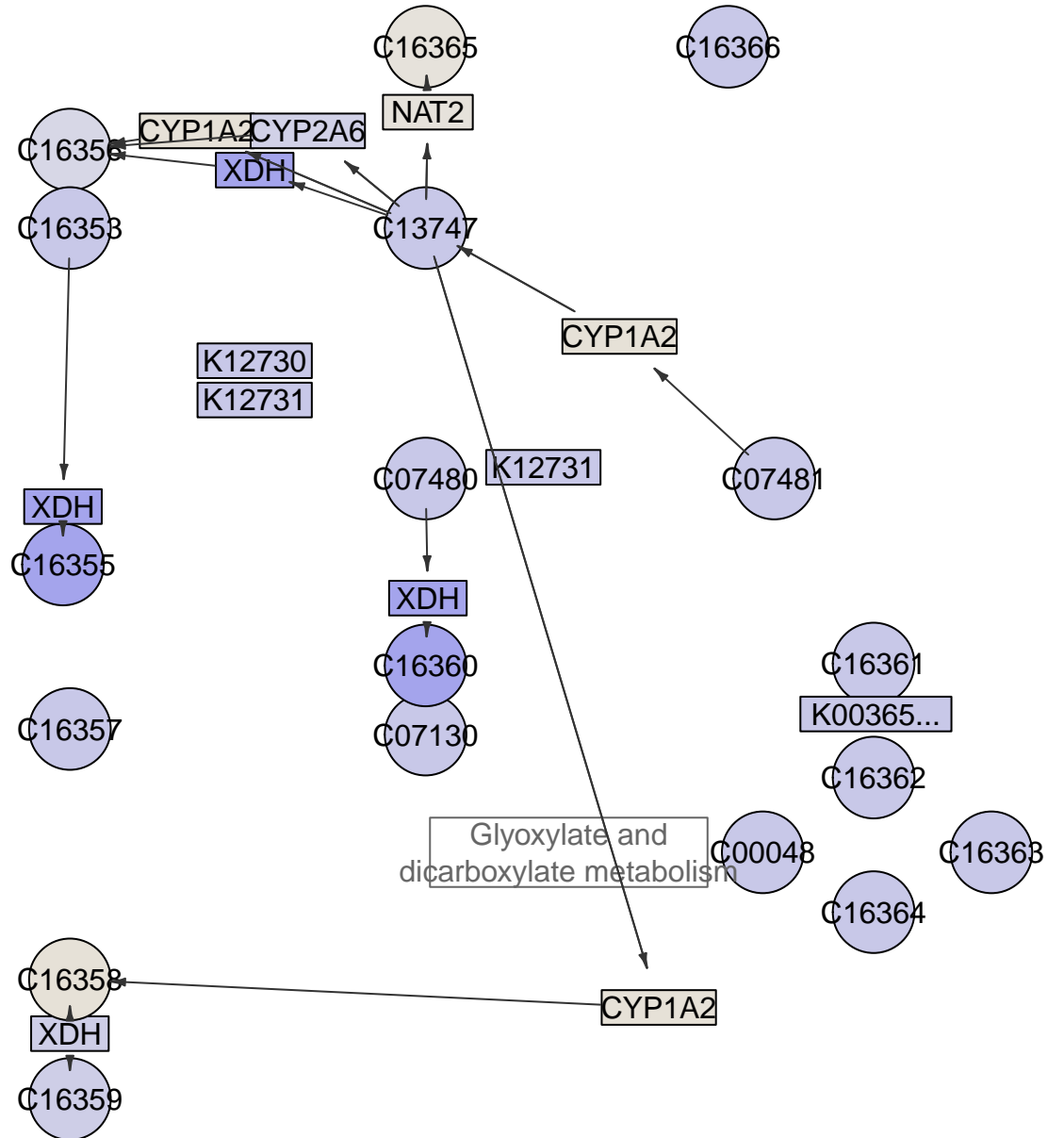
C01762

K12729

C16352

Purine metabolism

C00385

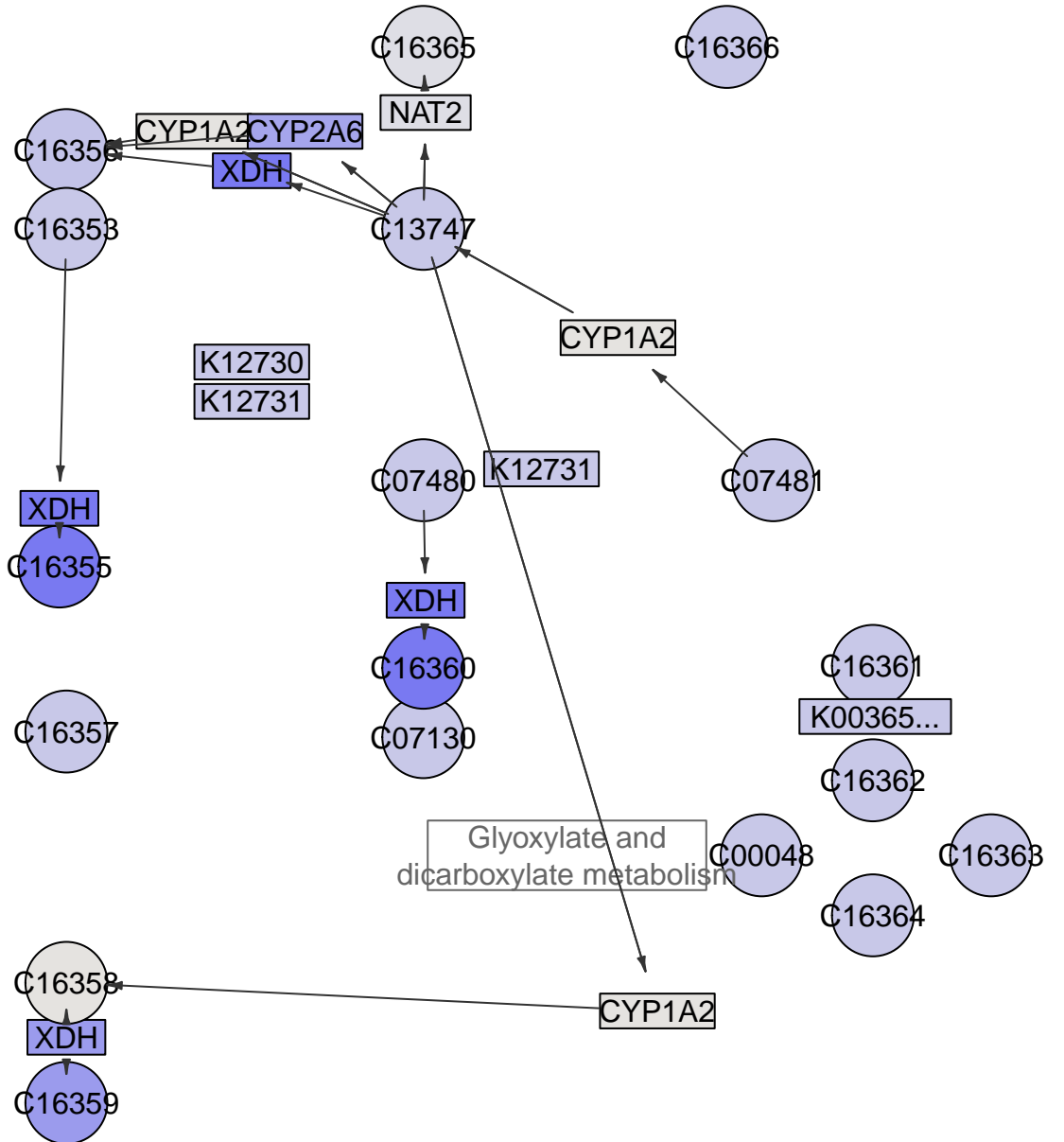


Caffeine metabolism
MPI-251

C01762

K12729

C16352



Purine metabolism

C00385

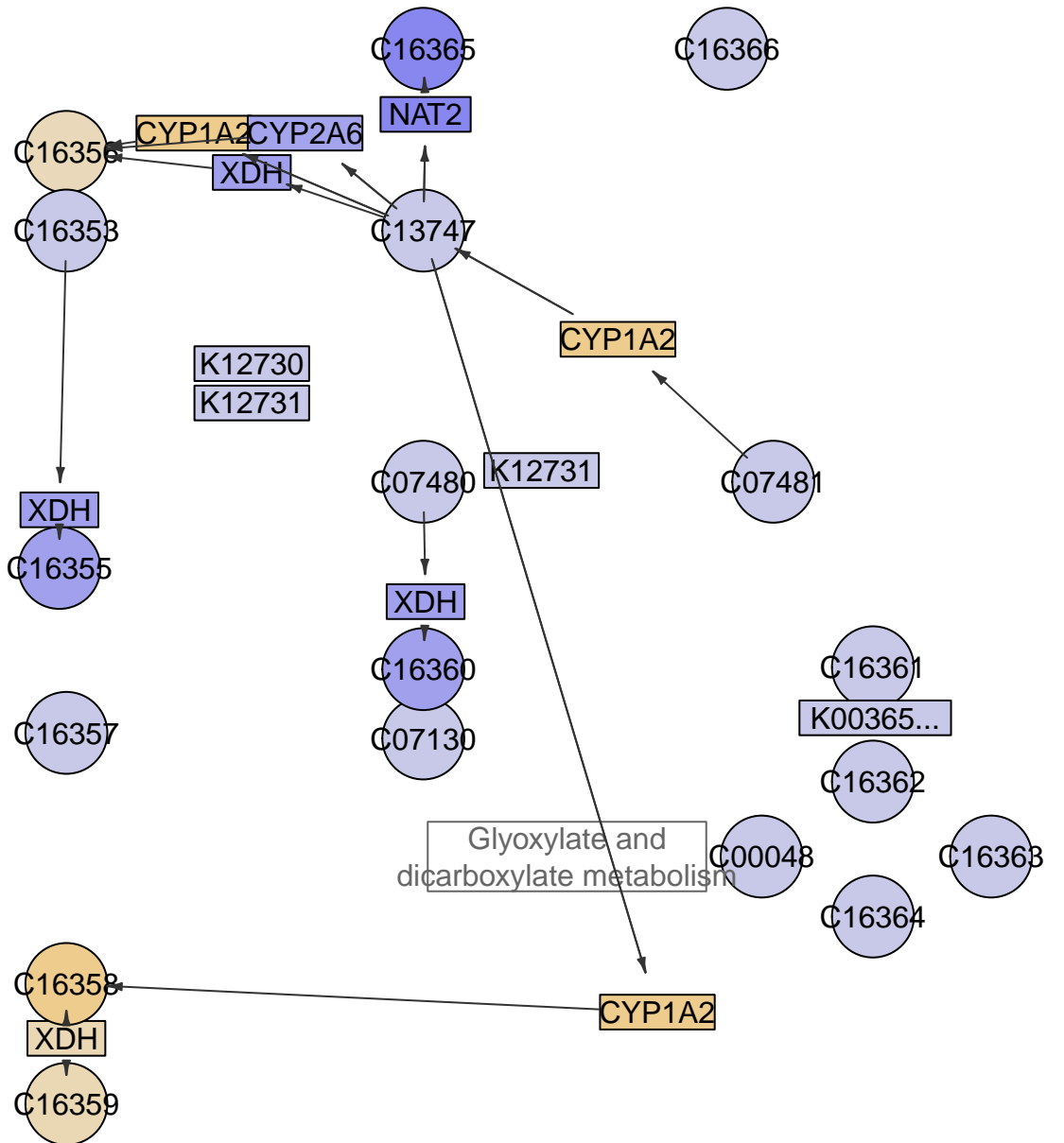
Glyoxylate and
dicarboxylate metabolism

Caffeine metabolism
MPI-255

C01762

K12729

C16352



Purine metabolism

C00385

C16358
XDH
C16359

Glyoxylate and
dicarboxylate metabolism

C00048
C16361
K00365...
C16362
C16363
C16364

Caffeine metabolism
MPI-223b

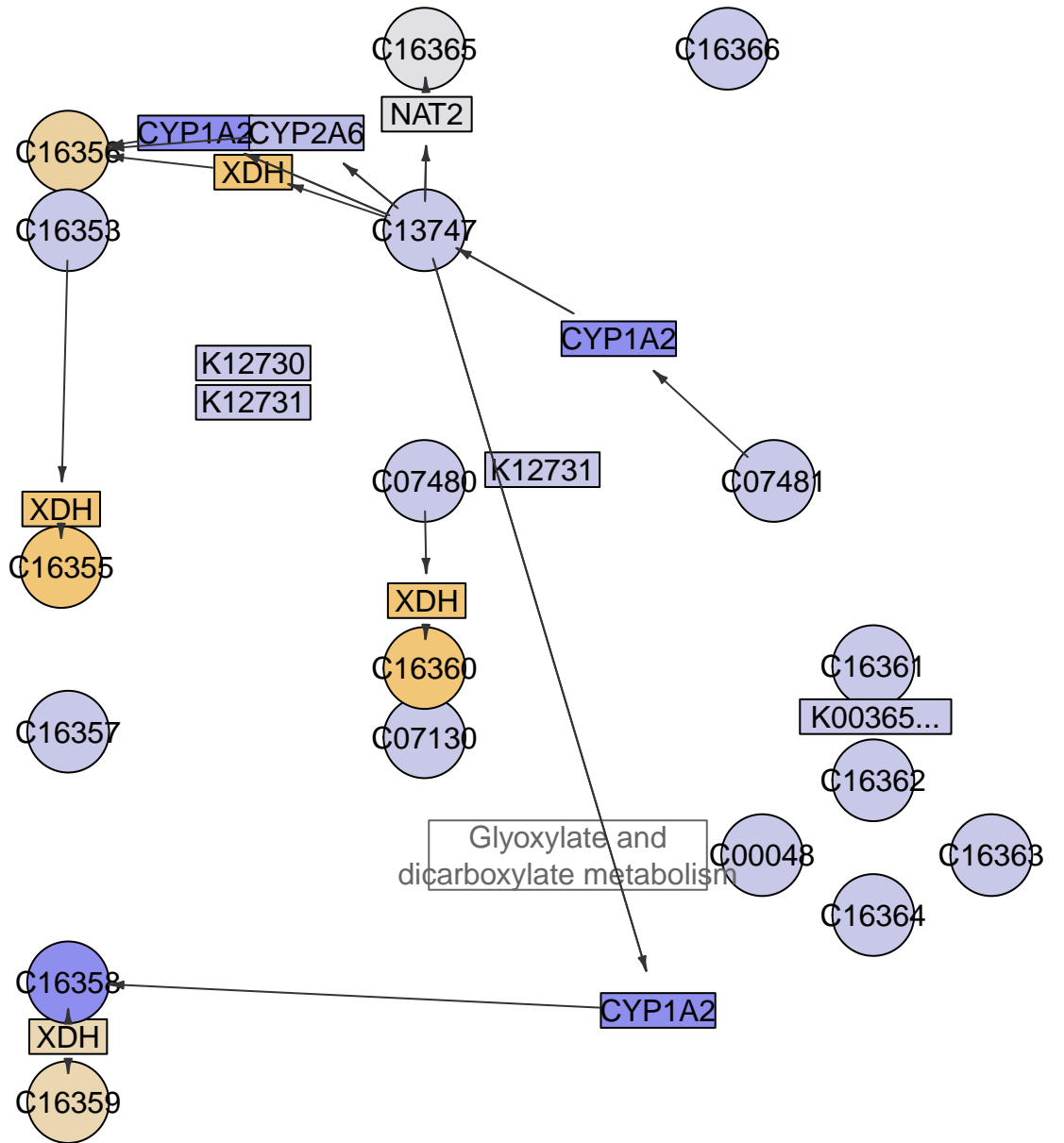
C01762

K12729

C16352

Purine metabolism

C00385



Glyoxylate and
dicarboxylate metabolism