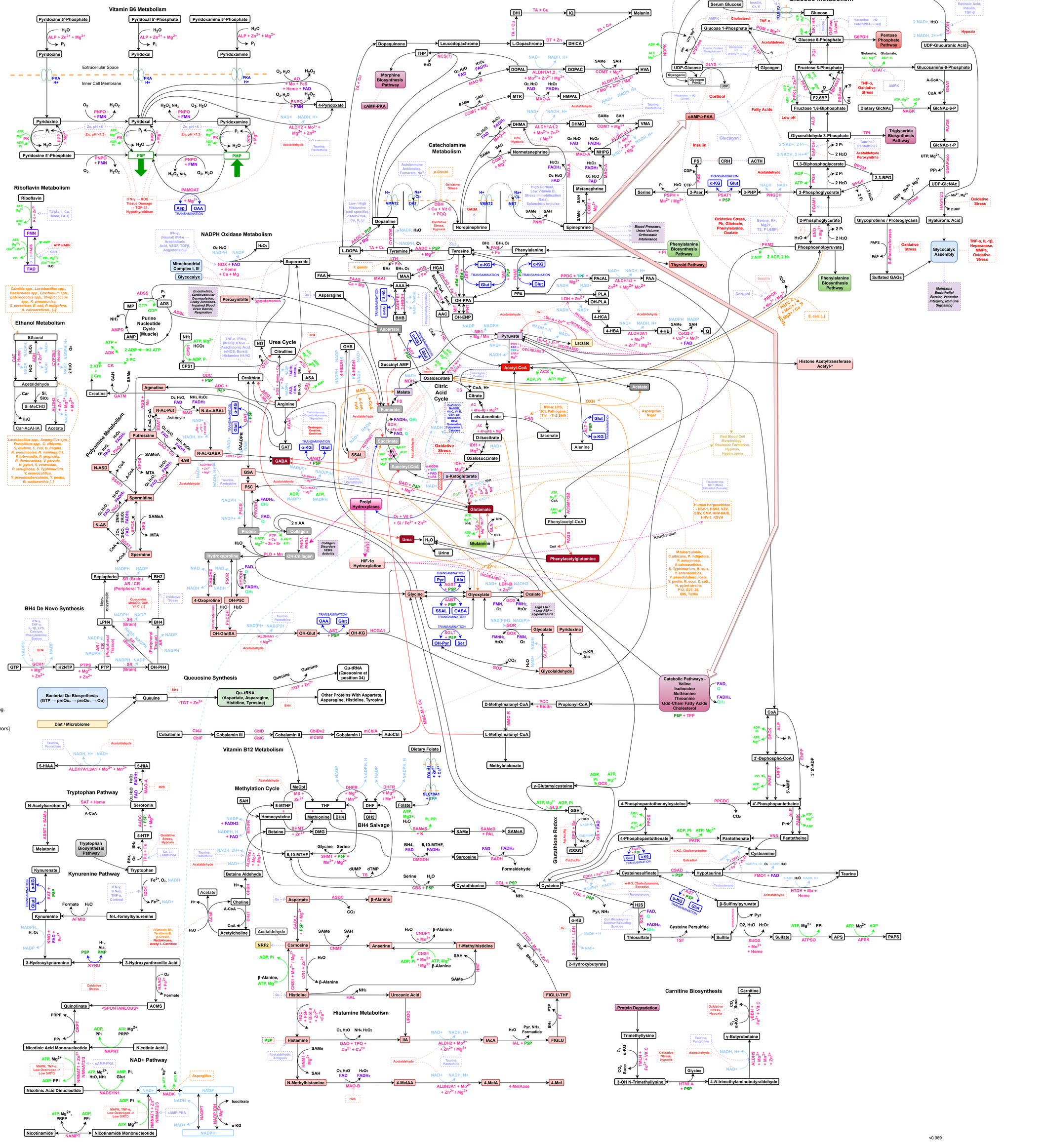
2-HG - 2-Hydroxyglutarate
3-PHP - 3-Phosphate Hydroxypyruvate
3-Pser - 3-Phosphoserine
4AB - 4-Aminobutyraldehyde
4ABT - 4-Aminobutyrate Transaminase
4HB - 4-Hydroxybenzoic Acid
4-HBA - 4-Hydroxybenzaldehyde
4Fe-4S - Tetrakis(X-ion(1+) ion) Tetrasulfane Tetrasulfanide
4-HCA - 4-Hydrocyninamic Acid
4-MeI - 4-Methylimidazole
4-MeIA - Methylimidazole Acetate
4-MeIAA - Methylimidazole Acetaldehyde
4-MeIAase - 4-Methylimidazole Acetate Hydrolase
5-HIA - 5-Hydroxyindoleacetaldehyde
5-HIAA - 5-Hydroxyindoleacetic acid
5-MTHF - 5-Methyltetrahydrofolate
5,10-MTHF - 5,10-MethyleneTetrahydroFolate
AA - Amino Acids
AAA - Acetoacetic Acid
AAC - Acetoacetyl-CoA
AAD - Acetoacetate Decarboxylase
AADC - Aromatic L-Amino Acid Decarboxylase
AAO - L-Amino-Acid Oxidase
AC - Aconitase
ACC - Acetyl-CoA Carboxylase
ACMS - 2-Amino-3-Carboxymuconic-6-Semialdehyde Acid
ACSM12B - Mitochondrial Medium-chain Acyl-CoA Synthetases
A-CoA - Acetyl-CoA
AChE - Acetylcholinesterase
ACS - Acetyl-CoA Synthetase
ACTH - Adrenocorticotropic Hormone
ADC - Arginine Decarboxylase
ADK - Adenylate Kinase (Myokinase)
ADH - Alcohol Dehydrogenase
ADHFE - Hydroxyacid-Oxoacid Transhydrogenase
AdoCbl - Adenosylcobalamin
ADP - Adenosine Diphosphate
ADSL - Adenylsuccinate lyase
ADSS - Adenylosuccinate Synthetase
AFMID - Kynurenine Formamidase
AGAT - Arginine:Glycine Amidinotransferase
AGXT - Alanine-Glyoxylate Aminotransferase
α-KB - α-Ketobutyrate
α-KG - α-Ketoglutarate
α-KGDH - alpha-Ketoglutarate Dehydrogenase
Ala - Alanine
ALD - Aldolase
ALDH - Aldehyde Dehydrogenase
ALP - Alkaline Phosphatase
ALT - Alanine Aminotransferase
AMP - Adenosine Monophosphate
AMPD - AMP Deaminase
AMPK - AMP-activated Protein Kinase
ARG1 - Arginase
AGS - Agmatinase
AR - Aldose Reductase
AO - Aldehyde Oxidase
APS - Adenosine-5'-Phosphosulfate
APSK - APS Kinase
ASA - Argininosuccinate
ASDC - Aspartate Decarboxylase
ASL - Arginino Succinase
Asp - Aspartate
ASS - Argininosuccinate Synthetase
AST - Aspartate Aminotransferase
ASMT - Acetylserotonin O-Methyltransferase
ATP - Adenosine Triphosphate
BH₂ - Dihydrobiopterin
BH₄ - Tetrahydrobiopterin
BHB - β-hydroxybutyric Acid
BHMT - Betaine-Homocysteine S-methyltransferase
BPG - Biphosphoglycerate
BPGM - BPG Mutase
BPGP - 2,3 BPG Phosphatase
Br - Bromine
Ca - Calcium
CAD - cis-Aconitate Decarboxylase
cAMP - Cyclic Adenosine Monophosphate
Car - Carnosine
Car-AcAl-IA - Carnosine-Acetaldehyde-Imidazolidinone Adduct
CAT - Catalase
CBS - Cystathionine B-Synthase
CSAD - Cysteine Sulfinic Acid Decarboxylase
CDO - Cysteamine Dioxygenase
CDP - Cytidine 5'-Diphosphate
CK - Creatine Kinase
CGL - Cystathionine gamma-Lyase
ChAT - Choline Acetyltransferase
CHDH - Choline Dehydrogenase
Cl - Chloride
CN - Carnosine Synthase
CNase - Carnosinase
CNMT - Carnosine N-Methyl Transferase
CNDP - Cytosolic Non-Specific Dipeptidase
CO₂ - Carbon Dioxide
Co - Cobalt
CoA - Coenzyme A
CoAH - CoA Hydrolase
COMT - Catechol O-methyltrans
CPS1 - Carbamoyl Phosphate Synthase1
Cr - Carbonyl Reductase
Cr - Chromium
Cre - Creatine
CRH - Corticotrophin-Releasing Hormone
CS - Citrate Synthase
CSE - Cystathionase
CTP - Cytidine 5'-Triphosphate
Cu - Copper
CYP - Cytochrome P450 monooxygenase
DAT - Dopamine Transporter
DAO - Diamine Oxidase
DBH - Dopamine Beta Hydroxylase
DHBA - 3,4-Dihydroxybenzeneacetic Acid
DHF - Dihydrofolate
DHFR - Dihydrofolate Reductase
DHI - 5,6-Dihydroxyindole
DHICA - 5,6-Dihydroxyindole-2-Carboxylic Acid
DHMA - 3,4-Dihydroxymandelaldehyde
DHMC - 3,4-Dihydroxymandelic Acid
DMG - Dimethylglycine
DMGDH - DMG Dehydrogenase
DOPAC - 3,4-Dihydroxyphenylacetic Acid
DOPAL - 3,4-Dihydroxyphenylacetaldehyde
DPCK - DephosphoCoA Kinase
DT - L-Dopachrome Tautomerase
dTMP - Thymidine Monophosphate
dUMP - Deoxyuridine Monophosphate
ENO - Enolase
ENPP - Ectonucleotide Pyrophosphatase/Phosphodiesterase
F1,6BP - Fructose 1,6-Bisphosphate
F2,6BP - Fructose 2,6-Bisphosphate
FAA - 4-Fumarylacetoacetic Acid
FAAS - Fumarylacetoacetase
FAD - Adeflavin
FADS - FAD Synthetase
FBPase - Fructose 1,6-Bisphosphatase
FBPase2 - Fructose 2,6-Bisphosphatase
Fe - Ferritin
FIGLU - Formimidoylglutamic Acid
FIGLU-THF - Formiminoglutamate-THF
FMN - Flavin Mononucleotide
FMO - Flavin Monooxygenase
FOLH - Folate Hydrolase
Fθ - Fumarase
FT - Formiminotransferase
FTCD - Formiminotransferase Cyclodeaminase
G6Pase - Glucose 6-Phosphotase
GABA - Gamma-Aminobutyric Acid
GAD - Glutamate Decarboxylase
GADL - Glutamate Decarboxylase Like
GAG - Glycosaminoglycan
GAMT - S-Adenosylmethionine:Guanidinoacetate Methyltransferase
GAPDH - Glyceraldehyde 3-Phosphate Dehydrogenase
GAT - Guanidinoacetate
γBBH - γ-Butyrobetaine Hydroxylase
GCA - γ-Glutamylcysteine Synthase
GCH1 - GTP Cyclohydrolase I
GDP - Guanosine Diphosphate
GDH - Glutamate Dehydrogenase
GFAT - Glutamine:Fructose-6P Amidotransferase
GHB - γ-Hydroxybutyrate
GK - Glucokinase
GlcNAc - N-Acetylglucosamine
GlcNAc-1-P - GlcNAc 1-Phosphate
GlcNAc-6-P - GlcNAc 6-Phosphate
GLN - Glutaminase
GLR - Glutathione Synthase
GLSH - Glutamate Dehydrogenase
GLYDH - Glycolaldehyde Dehydrogenase
GLYP - Glycogen Phosphorylase
GLYS - Glycogen Synthase
Glut - Glutamate
GOR - Glyoxylate Reductase
GOX - Glycolate Oxidase
GPX - Glutathione Peroxidase
GR - Glutathione Reductase
GS - Glutamine Synthetase
GSA - Glutamate-5-Semialdehyde
GSH - Glutathione, reduced
GSSG - Glutathione disulfide (oxidised)
GTP - Guanosine Triphosphate
GTase - Glycosyltransferases
H - Hydrogen
H₂O - Water
H₂O₂ - Hydrogen Peroxide
H2S - Hydrogen Sulfide
H2NTP - 7,8-Dihydroneopterin Triphosphate
HAAO - 3-Hydroxyanthranilic Acid Dioxygenase
HAL - Histidine Ammonia-Lyase
HAS - Hyaluronic Acid Synthase
HBDH - Hydroxybutyrate Dehydrogenase
HCO₃ - Bicarbonate
HK - Hexokinase
HIF - Hypoxia-Inducible Factor
HGA - Homogentisic Acid
HGD - Homogentisate 1,2-dioxygenase
HMPAL - 3-Methoxy-4-Hydroxyphenylacetaldehyde
HMT - Histidine Methyltransferase
HOGA - 4-Hydroxy-2-Ketoglutarate Aldolase
HPCL - HydroxyPyruvate Carboxy-Lyase
HT - Histidine Transaminase
HTMLA - β-hydroxy-ε-N-trimethyllysine aldolase
HTDH - Hypotaurine Dehydrogenase
HVA - Homovanillic Acid
HYPDH - 4-Hydroxyproline Dehydrogenase
I - Iodine
IAA - Imidazole Acetaldehyde
IAcA - Imidazole Acetic Acid
IAL - Imidazolacetate-Lyase
ICL - Isocitrate Lyase
IDH - Isocitrate Dehydrogenase
IDO - Indoleamine 2,3-Dioxygenase
IFN - Interferon
IMP - Inosinic Acid
IP3 - Inositol Trisphosphate
Iq - Indole-5,6-Quinone
K - Potassium
KAT - Kynurenine Aminotransferase
KMO - Kynurenine 3-Monooxygenase
KYNU - Kynureninase
LDH - Lactate Dehydrogenase
LPA - Lipoamide
LPH4 - Lactoyl-PH4
MAA - Malealacetoacetic Acid
MAAI - Maleylacetoacetate Isomerase
MAS - Malate Synthase
MAO - Monoamine Oxidase
MDH - Malate Dehydrogenase
ME1 - NADP-dependent Malic Enzyme
MeCBL - Methylcobalamin
Mg - Magnesium
MHPG - 3-Methoxy-4-Hydroxyphenylglycolaldehyde
MIF - Macrophage Migration Inhibitory Factor
MMC-M - MethylMalonyl-CoA Mutase
MMC-R - MethylMalonyl-CoA Racemase
MMP - Matrix Metalloproteinase
Mn - Manganese
Mo - Molybdenum
MS - Methionine Synthase
MTA - 5'-Methylthioadenosine
MTHFR - MethyleneTetraHydroFolate Reductase
MTR - 3-Methoxytyramine
Na - Sodium
N-Ac-Put - N-Acetyl-Putrescine
N-Ac-ABAL - N-Acetyl-Gamma-Aminobutyraldehyde
N-Ac-GABA - N-Acetyl-Gamma-Aminobutyric Acid
NAD - Nicotinamide Adenine Dinucleotide
NADK - NAD Kinase
NADPT - NAD(P)+ Transhydrogenase
NADSYN - NAD Synthetase
NAGK - N-Acetylglucosamine Kinase
NAM - Nicotinamide
NAMPT - Nicotinamide Phosphoribosyltransferase
NAPRT - Nicotinate Phosphoribosyltransferase
N-AS - N-Acetylspermine
N-ASD - N-Acetylaspermidine
NCS - Norcoclaurine Synthase
NDPK - Nucleoside Diphosphokinase
NET - Norepinephrine Transporter
NH₃ - Ammonia
NMNAT - Nicotinamide Mononucleotide Adenylyltransferase
NO - Nitric Oxide
NOS - Endothelial Nitric Oxide Synthase
O₂ - Oxygen
OAA - Oxaloacetate
OAT - Ornithine Aminotransferase
ODC - Ornithine Decarboxylase
OH-ENP - 4-Hydroxy-Enol-Phenylpyruvate
OH-Glut - 4-Hydroxyglutamate
OH-GluSA - 4-Hydroxyglutamate Semialdehyde
OH-KG - 4-Hydroxy-2-Ketoglutarate
OH-PPC - Pyroline Hydroxycarboxylate
OH-PD - 4-Hydroxyphenylpyruvate Dioxygenase
OH-PH4 - 1-Hydroxy-2-Oxopropyl Tetrahydropterin
OH-PLA - Hydroxyphenylactic Acid
OH-PPA - 4-Hydroxyphenylpyruvic Acid
OH-Pyr - Hydroxypyruvate
OAADPR - 2'-O-Acetyl-ADP-Ribose
OTC - Ornithine Transcarbamoylase
OX - Oxalate
OXH - Oxaloacetase
P5C - Pyroline-5-Carboxylate
P5CR - P5C Reductase
P5P - Pyridoxal 5'-Phosphate
PAA - Phenylacetic Acid
PAcAL - Phenylacetaldehyde
PAGM - Phosphoacetylglucosamine Mutase
PAGS - Phenylacetylglutamine Synthetase
PAH - Phenylalanine Hydroxylase
PAL - Phenylalanine
PAMOAT - Pyridoxamine:Oxaloacetate Aminotransferase
PANK - Pantetheine Kinase
PAO - Polyamine Oxidase
PAP - Adenosine 3',5'-Diphosphate
PAPS - 3'-Phosphoadenosine-5'-Phosphosulfate
PAT - Phenylalanine Aminotransferase
PATK - Pantetheinate Kinase
Pc - Phosphocreatine
PCB - Pyruvate Carboxylase
PCC - Propionyl-CoA Carboxylase
PDH - Pyruvate Dehydrogenase
PEPC - Phosphoenolpyruvate Carboxylase
PEPCK - Phosphoenolpyruvate Carboxykinase
PFK-1 - Phosphofructokinase
PFK-2 - 6-Phosphofructo-2-Kinase
PGAM - Phosphoglycerate Mutase
PGI - Phosphoglucose Isomerase
PGK - Phosphoglycerate Kinase
PGM - Phosphoglucomutase
PHCDH - Pyroline-3-hydroxy-5-carboxylate Dehydrogenase
PHD - Prolyl Hydroxylase
PHGDH - Phosphoglycerate Dehydrogenase
PHT - Phenylpyruvate Tautomerase
Pi - Phosphate
PK - Pyridoxal Kinase
PKM - Pyruvate Kinase
PKA - Protein Kinase A
PLA - Phenylactic Acid
PLD - Prolidase
PMP - Pyridoxamine 5'-Phosphate
PNMT - Phenylethanolamine N-Methyltransferase
PNPO - Pyridoxine 5'-Phosphate Oxidase
PPA - Phenylpyruvic Acid
PPP - Pyridoxal Phosphate Phosphatase
PP - Pyrophosphate
PPCDC - Phosphopantothenoylcysteine Decarboxylase
PPCS - Phosphopantothenoylcysteine Synthetase
PPDC - Phenylpyruvate Decarboxylase
PQQ - Pyrroloquinoline Quinone
PRODH - Proline Dehydrogenase
PRPP - 5-Phosphoribosyl-1-Pyrophosphate
PSP - Protein Synthesis Pathway
PS - Phosphatidyl Serine
PSAT - Phosphoserine Aminotransferase
PSPH - Phosphoserine Phosphatase
PSS - Phosphatidylserine Synthase
PTP - 6-Pyruvoyl-Tetrahydropterin
PTPS - 6-Pyruvoyl-tetrahydropterin Synthase
Pyr - Pyruvate
Q - Ubiquinone (Coenzyme Q10)
Qₕ - Ubiquinol (Reduced Coenzyme Q10)
Qu - Queuine
Qua - Quinoxaline
QRPT - Quinolinate Phosphoribosyltransferase
RK - Riboflavin Kinase
ROS - Reactive Oxygen Species
SADH - Sarcosine Dehydrogenase
SAH - S-Adenosyl-L-Homocysteine
SAMe - S-Adenosylmethionine
SAMeA - S-Adenosylmethionamine
SAMeD - S-Adenosylmethionine Decarboxylase
SAMeS - S-Adenosylmethionine Synthase
SAT - Serotonin N-Acetyltransferase
SCOT - Succinyl-CoA:3-ketoacid CoA Transferase
SCS - Succinyl-CoA Synthetase
SDH - Succinate Dehydrogenase
Se - Selenium
Ser - Serine
SGLT - Serine-Glycolate Transaminase
SHMT - Serine Hydroxymethyltransferase
Si - Silicon
SLC - Solute Carrier
SPDS - Spermidine Synthase
SPOX - Spermine Oxidase
SPS - Spermine Synthase
SQR - Sulfide Quinone Oxidoreductase
SR - Sepiapterin Reductase
SSALs - Succinic Semialdehyde
SSAT1 - Spermidine/Spermine-N1-Acetyltransferase
Succ - Succinate
SUOX - Sulfite Oxidase
T3 - Triiodothyronine
TA - Tyrosinase
TAT - Tyrosine Aminotransferase
TGF - Transforming Growth Factor
TGT - tRNA Guanine Transglycosylase
TH - Tyrosine Hydroxylase
THF - Tetrahydrofolate
THL - Thiolase
THP - Tetrahydropapaveroline
TMLH - Trimethyllysine Hydroxylase
TNF - Tumour Necrosis Factor
TPH - Tryptophan Hydroxylase
TPI - Triose Phosphate Isomerase
TPP - Thiamine Pyrophosphate
TPQ - Topaquinone
TS - Thymidylate Synthase
TST - Thiosulfate Sulfurtransferase
UDP - Uridine Diphosphate
UROC - Urocanase
UGPase - UDP-Glucose Pyrophosphorylase
UGAPase - UDP-GlcNAc Pyrophosphorylase
UTP - Uridine Triphosphate
V - Vanadium
Vit C - Ascorbic Acid
Vit E - Tocopherols, Tocotrienols
VMA - Vanillymandelic Acid
VMAT - Vesicular Monoamine Transporter
VNN - Vanin-1 (Pantetheinase)
Zn - Zinc


Vitamin B6 Metabolism
Glucose Metabolism
Catecholamine Metabolism
Riboflavin Metabolism
NADPH Oxidase Metabolism
Ethanol Metabolism
Purine Nucleotide Cycle (Muscle)
Urea Cycle
Citric Acid Cycle
Polyamine Metabolism
Tryptophan Pathway
Kynurenine Pathway
NAD+ Pathway
BH4 De Novo Synthesis
Queuosine Synthesis
Vitamin B12 Metabolism
Methylation Cycle
BH4 Salvage
Glutathione Redox
Histamine Metabolism
Carnitine Biosynthesis
Phenylalanine Biosynthesis Pathway
Thyroid Pathway
Glycolysis / Gluconeogenesis
Glycogenolysis
Glycogenesis
Pentose Phosphate Pathway
Triglyceride Biosynthesis Pathway
Glycoproteins / Proteoglycans
Hyaluronic Acid
Sulfated GAGs
Glycocalyx Assembly
Histone Acetyltransferase Acetyl-*
Catabolic Pathways - Valine Isoleucine Methionine Threonine Odd-Chain Fatty Acids Cholesterol
Bacterial Qu Biosynthesis (GTP → preQu₀ → preQu₁ → Qu)
Diet / Microbiome
Mitochondrial Complex I, III
Glycocalyx
Morphine Biosynthesis Pathway
cAMP-PKA
Reactivation
Oxidative Stress
Fatty Acids
Insulin
Glucagon
Cortisol
Low pH
Candida spp., Lactobacillus spp., Bacteroides spp., Clostridium spp., Enterococcus spp., Streptococcus spp., K. pneumoniae, S. cerevisiae, E. coli, P. indigofera, A. calcoaceticus, [..]
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Human Herpesviridae, - HSV-1, HSV-2, VZV, EBV, CMV, HHV-6A/B, HHV-7, KSVH
Maintains Endothelial Barrier, Vascular Integrity, Immune Signaling
Oxidative Stress, Pb, Gliotoxin, Phenylalanine, Oxalate
Red Blood Cell Morphology Rouleaux Formation, Hypoxia, Hypercapnia
Aspergillus Niger
Aflatoxin B1, Territrem B, p-Cresol, Nattokinase, Acetyl L-Carnitine
Collagen Disorders AED2 Arthritis
High LDH + Low P5P = Hyperoxaluria
Glycolate
Pyridoxine
Glycolaldehyde
Glycine
Glyoxylate
Oxalate
Serine
Cysteine
Cystathionine
Taurine
Hypotaurine
Cysteinesulfinate
Cysteamine
Pantetheine
Pantothenate
4'-Phosphopantetheine
3'-Dephospho-CoA
CoA
γ-Glutamylcysteine
GSH
GSSG
Methionine
Homocysteine
Betaine
DMG
Sarcosine
Formaldehyde
Choline
Acetylcholine
Betaine Aldehyde
Histidine
Histamine
Urocanic Acid
Carnosine
Anserine
1-Methylhistidine
β-Alanine
Succinate
Succinyl-CoA
α-Ketoglutarate
Glutamate
Glutamine
Urea
Urine
Phenylacetyl-CoA
Phenylacetylglutamine
Propionyl-CoA
D-Methylmalonyl-CoA
L-Methylmalonyl-CoA
Methylmalonate
Acetyl-CoA
Acetate
Lactate
Pyruvate
Oxaloacetate
Malate
Fumarate
Citrate
cis-Aconitate
D-Isocitrate
Oxalosuccinate
Itaconate
Alanine
Glucose
Glucose 6-Phosphate
Fructose 6-Phosphate
Fructose 1,6-Biphosphate
Glyceraldehyde 3-Phosphate
1,3-Biphosphoglycerate
2,3-BPG
3-Phosphoglycerate
2-Phosphoglycerate
Phosphoenolpyruvate
Glycogen
Glucose 1-Phosphate
UDP-Glucose
UDP-Glucuronic Acid
Glucosamine-6-Phosphate
GlcNAc-6-P
GlcNAc-1-P
UDP-GlcNAc
Dopamine
Norepinephrine
Epinephrine
Normetanephrine
Metanephrine
Tyrosine
L-DOPA
Phenylalanine
Melatonin
Serotonin
5-HTP
Tryptophan
Kynurenine
3-Hydroxykynurenine
3-Hydroxyanthranilic Acid
Quinolinate
Nicotinic Acid Mononucleotide
Nicotinic Acid Dinucleotide
Nicotinic Acid
Nicotinamide
Nicotinamide Mononucleotide
Spermidine
Spermine
Putrescine
Agmatine
Arginine
Ornithine
Creatine
Aspartate
Asparagine
Succinyl AMP
Adenosine
Inosine
Hypoxanthine
Xanthine
Uric Acid
Superoxide
Peroxynitrite
Spontaneous
Mitochondrial Complex I, III
Glycolaldehyde
Acetaldehyde
Ethanol
Acetaldehyde
Car
Si, SiO₂
Si-MeCHO
Car-AcAl-IA
Acetate
H₂O
Tryptophan Biosynthesis Pathway
Tryptophan Pathway
Kynurenine Pathway
Methylation Cycle
BH4 Salvage
Glutathione Redox
Histamine Metabolism
Carnitine Biosynthesis
Protein Degradation
Trimethyllysine
3-OH N-Trimethyllysine
4-N-trimethylaminobutyraldehyde
γ-Butyrobetaine
Carnitine
Glycine
HTMLA + P5P
Vitamin B12 Metabolism
Methylmalonyl-CoA
Propionyl-CoA
Succinyl-CoA
Succinate
Fumarate
Malate
Oxaloacetate
Citrate
Isocitrate
α-KG
Succinyl-CoA
Succinate
Fumarate
Malate
Oxaloacetate
Citrate
Isocitrate
α-KG
Glutamate
Glutamine
Urea
Urine
Phenylacetyl-CoA
Phenylacetylglutamine
Propionyl-CoA
D-Methylmalonyl-CoA
L-Methylmalonyl-CoA
Methylmalonate
Acetyl-CoA
Acetate
Lactate
Pyruvate
Oxaloacetate
Malate
Fumarate
Citrate
cis-Aconitate
D-Isocitrate
Oxalosuccinate
Itaconate
Alanine
Glucose
Glucose 6-Phosphate
Fructose 6-Phosphate
Fructose 1,6-Biphosphate
Glyceraldehyde 3-Phosphate
1,3-Biphosphoglycerate
2,3-BPG
3-Phosphoglycerate
2-Phosphoglycerate
Phosphoenolpyruvate
Glycogen
Glucose 1-Phosphate
UDP-Glucose
UDP-Glucuronic Acid
Glucosamine-6-Phosphate
GlcNAc-6-P
GlcNAc-1-P
UDP-GlcNAc
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Pyridoxine
Glycolaldehyde
Glycine
Glyoxylate
Oxalate
Serine
Cysteine
Cystathionine
Taurine
Hypotaurine
Cysteinesulfinate
Cysteamine
Pantetheine
Pantothenate
4'-Phosphopantetheine
3'-Dephospho-CoA
CoA
γ-Glutamylcysteine
GSH
GSSG
Methionine
Homocysteine
Betaine
DMG
Sarcosine
Formaldehyde
Choline
Acetylcholine
Betaine Aldehyde
Histidine
Histamine
Urocanic Acid
Carnosine
Anserine
1-Methylhistidine
β-Alanine
Succinate
Succinyl-CoA
α-Ketoglutarate