2-HG - 2-Hydroxyglutarate
2-HPAA - 2-Hydroxyphenylacetic Acid
3-MG - 3-Methylglutaric Acid
3-MGA - 3-Methylglutaconic Acid
3-PHP - 3-Phosphate Hydroxypyruvate
3-Pser - 3-Phosphoserine
4AB - 4-Aminobutyraldehyde
4ABT - 4-Aminobutyrate Transaminase
4Fe-4S - Tetrakis(λ³-ιπον(1+) ion) Tetrasulfane Tetrasulfanide
4-HB - 4-Hydroxybenzoic Acid
4-HBA - 4-Hydroxybenzaldehyde
4-HBS - 4-Hydroxybenzoate Synthase
4-HCA - 4-Hydroxycinnamic Acid
4-MeI - 4-Methylimidazole
4-MeIA - 4-Methylimidazole Acetate
4-MeIAa - Methylimidazole Acetaldehyde
4-MeIAase - 4-Methylimidazole Acetate Hydrolase
5-HIA - 5-Hydroxyindoleacetic Acid
5-MTHF - 5-Methyltetrahydrofolate
5,10-MTHF - 5,10-MethyleneTetrahydroFolate
6PGL - 6-Phosphoglucono-δ-Lactone
6PG - 6-Phosphogluconate
6PGD - 6-PhosphoGluconate Dehydrogenase
AA - Amino Acids
AAA - Acetoacetic Acid
AAC - Acetoacetyl-CoA
AADC - Aromatic L-Amino Acid Decarboxylase
AAO - L-Amino-Acid Oxidase
ABCD4 - ATP-Binding Cassette 4
AC - Aconitase
ACAD8 - Isobutyryl-CoA Dehydrogenase
ACAD(L) - Long-Chain Specific Acyl-CoA Dehydrogenase
ACADM - Medium-Chain Specific Acyl-CoA Dehydrogenase
ACADS - Short-Chain Specific Acyl-CoA Dehydrogenase
ACADSB - ShortBranched Chain Acyl-CoA Dehydrogenase
ACADV - Very Long-Chain Specific Acyl-CoA Dehydrogenase
ACMS - 2-Amino-3-Carboxymuconic-6-Semialdehyde Acid
ACSM1/2B - Mitochondrial Medium-chain Acyl-CoA Synthetases
A-CoA - Acetyl-CoA
AChE - Acetylcholinesterase
ACOD - cis-Aconitate Decarboxylase
ACOT - Acyl-CoA Thioesterase
ACOX - Peroxisomal Acyl-Coenzyme A Oxidase
ACSL - Acyl-CoA Synthetase (Long-Chain)
ACSM - Acyl-CoA Synthetase (Medium-Chain)
ACSS - Acyl-CoA Synthetase (Short-Chain)
ACSVL - Acyl-CoA Synthetase (Very Long-Chain)
ACTH - Adrenocorticotropic Hormone
ADC - Arginine Decarboxylase
ADK - Adenylate Kinase (Myokinase)
ADH - Alcohol Dehydrogenase
ADHFE - Hydroxyacid-Oxoacid Transhydrogenase
ADO - 2-Aminoethanitodioxygenase
AdoCbl(III) - Adenosylcobalamin
ADP - Adenosine Diphosphate
ADS - Adenylsuccinate
ADSL - Adenylsuccinate Lyase
ADSS - Adenylosuccinate Synthetase
AFMID - Kynurenine Formamidase
AGAT - Arginine:Glycine Amidinotransferase
AGXT - Alanine-Glyoxylate Aminotransferase
AHCY - S-Adenosylhomocysteine Hydrolase
AICAR - 5-Aminoimidazole-4-Carboxamide Ribonucleotide
AIR - 5-Aminoimidazole Ribonucleotide
AIRS - AIR Synthetase
α-KB - α-Ketobutyrate
α-KG - α-Ketoglutarate
α-KGDH - alpha-Ketoglutarate Dehydrogenase (Complex)
Al - Aluminium
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
AQP9 - Aquaporin-9
ASA - Argininosuccinate
ASDC - Aspartate Decarboxylase
ASL - Argininо Succinase
Asp - Aspartate
ASPT - Aspartate Transcarbamoylase
ASS - Argininosuccinate Synthetase
AST - Aspartate Aminotransferase
ASMT - Acetylserotonin O-Methyltransferase
ATP - Adenosine Triphosphate
AUH - Methylglutaconyl-CoA Hydratase
BCKDH - Branched-Chain Alpha-Keto Acid Dehydrogenase (Complex)
BCAT - Branched-Chain-Amino-Acid Aminotransferase
BH₂ - Dihydrobiopterin
BH₄ - Tetrahydrobiopterin
BHB - β-hydroxybutyric Acid
BHMT - Betaine-Homocysteine S-methyltransferase
BPG - Bisphosphoglycerate
BPGM - BPG Mutase
BPGP - 2,3 BPG Phosphatase
Br - Bromine
Ca - Calcium
CAIR - 5-Aminoimidazole-4-Carboxylate Ribonucleotide
cAMP - Cyclic Adenosine Monophosphate
Car - Carnosine
Car-ACsl-IA - Carnosine-Acetaldehyde-Imidazolidinone Adduct
CAT - Catalase
CBS - Cystathionine B-Synthase
CSAD - Cysteine Sulfinic Acid Decarboxylase
CDO - Cysteine Dioxygenase
CDP - Cytidine 5'-Diphosphate
CK - Creatine Kinase
COL - Cystathionine gamma-Lyase
CHAC1 - Glutathione-Specific gamma-Glutamylcyclotransferase 1
ChAT - Choline Acetyltransferase
CHDH - Choline Dehydrogenase
CHK - Choline Kinase
CHPT - Cholinephosphotransferase
Cl - Chloride
CMP - Cytidine Monophosphate
CMPK - UMP-CMP Kinase
CNMT - Carnosine N-Methyl Transferase
CNDP - Cytosolic Non-Specific Dipeptidase
CO - Carbon Monoxide
CO_2 - Carbon Dioxide
Co - Cobalt
CoA - Coenzyme A
Cn - Hydrogen Cyanide
CNCbl(III) - Cyanocobalamin
Cob(III)alamin [any] - AdoCbl(III), MeCbl(III), OH-Cob(III)alamin
COMT - Catechol O-methyltransferase
CP - Carbamoyl Phosphate
CPS1 - Carbamoyl Phosphate Synthase1
CR - Carbonyl Reductase
Cr - Chromium
Cre - Creatine
CRH - Corticotrophin-Releasing Hormone
CRNS - Carnosine Synthase
CPT - Carnitine O-Palmitoyltransferase
CS - Citrate Synthase
CTP - Cytidine Triphosphate
Cu - Copper
CYP - Cytochrome P450 monooxygenase
Cys - Cysteine
DAG - Diacylglycerol
DAT - Dopamine Transporter
DAO - Diamine Oxidase
DBH - Dopamine Beta Hydroxylase
DHBA - 3,4-Dihydroxybenzeneacetic Acid
DHF - Dihydrofolate
DHFR - Dihydrofolate Reductase
DHAP - Dihydroxyacetone Phosphate
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
DHO - Dihydroorotate
DHOase - Dihydroorotase
DHODH - Dihydroorotate Dehydrogenase
DOPAC - 3,4-Dihydroxyphenylacetic Acid
DOPAL - 3,4-Dihydroxyphenylacetaldehyde
DPCK - DephosphoCoA Kinase
DT - L-Dopachrome Tautomerase
dTMP - Thymidine Monophosphate
dUMP - Deoxyuridine Monophosphate
E4P - Erythrose-4-Phosphate
ECHS1 - Enoyl-CoA Hydratase
ENO - Enolase
ENPP - Ectonucleotide Pyrophosphatase/Phosphodiesterase
ETC - Electron Transport Chain
ETHE1 - Sulphur Dioxygenase
F1,6BP - Fructose 1,6-Bisphosphate
F2,6BP - Fructose 2,6-Bisphosphate
F6P - Fructose-6-Phosphate
FAA - 4-Fumarylacetoacetic Acid
FAAS - Fumarylacetoacetase
FAD - Adeflavin
FADS - FAD Synthetase
FAICAR - 5-Formamidoimidazole-4-Carboxamide Ribonucleotide
FBPase - Fructose 1,6-Bisphosphatase
FBPase2 - Fructose 2,6-Bisphosphatase
Fe - Ferritin
FGAM - Formylglycinamidine Ribonucleotide
FGAR - Formylglycinamide Ribonucleotide
FGH - Formimidoylglutamic Acid
FIGLU-THF - Formiminoglutamate-THF
FMN - Flavin Mononucleotide
FMO - Flavin Monooxygenase
FOLH - Folate Hydrolase
FR - Flavin Reductase (uncharacterised, possibly MMACHC)
FS - Fumarase
FT - Formiminotransferase
FTase - AICAR Transformylase
FTCD - Formiminotransferase Cyclodeaminase
G3P - Glycerol-3-Phosphate
G3PP - Glycerol-3-Phosphate Phosphatase
G6Pase - Glucose 6-Phosphotase
G6PD - Glucose-6-Phosphate Dehydrogenase
GABA - Gamma-Aminobutyric Acid
GAD - Glutamate Decarboxylase
GAG - Glycosaminoglycan
GAMT - S-Adenosylmethionine:Guanidinoacetate Methyltransferase
GAP - Glyceraldehyde-3-Phosphate
GAPDH - Glyceraldehyde 3-Phosphate Dehydrogenase
GARS - GAR Synthetase
GARTase - GAR Transformylase
GAT - Guanidinoacetate
GBBH - γ-gamma-Butyrobetaine Hydroxylase
GCA - gamma-Glutamylcysteine Synthase
GCH1 - GTP Cyclohydrolase I
GCL - Glutamate-Cysteine Ligase
GDP - Guanosine Diphosphate
GDH - Glutamate Dehydrogenase
GFAT - Glutamine:Fructose-6P Amidotransferase
GGCT - γ-gamma-Glutamyl Cyclotransferases
GHB - γ-Hydroxybutyrate
GK - Glucokinase
Glc-1,6-BP - Glucose-1,6-Bisphosphate
GlcNAc - N-Acetylglucosamine
GlcNAc-1-P - GlcNAc 1-Phosphate
GlcNAc-6-P - GlcNAc 6-Phosphate
GLN - Glutaminase
Gln - Glutamine
GLS - Glutathione Synthase
Gly - Glycine
GLYCK - Glycerol Kinase
GLYDH - Glycolaldehyde Dehydrogenase
GLYP - Glycogen Phosphorylase
GLYS - Glycogen Synthase
Glut - Glutamate
GNMT - Glycine N-Methyltransferase
GOR - Glyoxylate Reductase
GOX - Glycolate Oxidase
GPD - Glycerol-3-Phosphate Dehydrogenase
GPX - Glutathione Peroxidase
GR - Glutathione Reductase
GS - Glutamine Synthetase
GS-Ado - S-Adenosylglutathione
GS-Me - S-Methylglutathione
GSA - Glutamate-5-Semialdehyde
GSH - Glutathione, reduced
GSK3β - Glycogen Synthase Kinase-3 beta
GSSG - Glutathione disulfide (oxidised)
GSSH - Glutathione Persulfide
GTP - Guanosine Triphosphate
GTase - Glycosyltransferases
H - Hydrogen
H_2O - Water
H_2O_2 - Hydrogen Peroxide
H_2S - Hydrogen Sulfide
H2NTP - 7,8-Dihydroneopterin Triphosphate
HAAO - 3-Hydroxyanthranilic Acid Dioxygenase
HAL - Histidine Ammonia-Lyase
HAS - Hyaluronic Acid Synthase
HADH - 3-Hydroxyacyl-CoA Dehydrogenase
HBDH - Hydroxybutyrate Dehydrogenase
HCDH - 3-Hydroxyacyl-CoA Dehydrogenase
HCO_3 - Bicarbonate
HDC - Histidine Decarboxylase
HK - Hexokinase
HIBADH - 3-Hydroxyisobutyrate Dehydrogenase
HIBCH - 3-Hydroxyisobutyryl-CoA Hydrolase
HICA - 2-Hydroxyisocaproate
HIF - Hypoxia-Inducible Factor
His - Histidine
HIVA - 2-Hydroxysivalerate
HGA - Homogentisic Acid
HGD - Homogentisate 1,2-Dioxygenase
HMGCL - Hydroxymethylglutaryl-CoA Lyase
HMPAL - 3-Methoxy-4-Hydroxyphenylacetaldehyde
HMT - Histidine Methyltransferase
HOGA - 4-Hydroxy-2-Ketoglutarate Aldolase
HPCL - HydroxyPyruvate Carboxy-Lyase
HPRT - Hypoxanthine-Guanine Phosphoribosyltransferase
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 - Imidazoleacetate-Lyase
ICL - Isocitrate Lyase
IDH - Isocitrate Dehydrogenase
IDO - Indoleamine 2,3-Dioxygenase
IFN - Interferon
IMP - Inosine Monophosphate
IMPCH - IMP Cyclohydrolase
IP3 - Inositol Trisphosphate
IQ - Indole-5,6-Quinone
IVD - Isovaleryl-CoA Dehydrogenase
K - Potassium
KADC - Kojic Acid Dehydrogenase (Microbial)
KAT - Kynurenine Aminotransferase
KIC - alpha-Ketoisocaproate
KIV - alpha-Ketoisovalerate
KMBA - 2-Oxo-4-Methiolbutyric Acid
KMO - Kynurenine 3-Monooxygenase
KYNU - Kynureninase
LDH - Lactate Dehydrogenase
LMBD1 - Lysosomal Cobalamin Transport Escort Protein
LPA - Lipoamide
LPH4 - Lactoyl-PH4
MAP - Mannose 6-Phosphate
MAA - Malelylacetoacetic Acid
MAAI - Maleylacetoacetate Isomerase
MAS - Malate Synthase
MAO - Monoamine Oxidase
MCOC - Methylcrotonoyl-CoA Carboxylase
MDH - Malate Dehydrogenase
ME1 - NADP-dependent Malic Enzyme
MeCbl(III) - Methylcobalamin
MetHb - Methemoglobinemia
Mg - Magnesium
MHPG - 3-Methoxy-4-Hydroxyphenylglycolaldehyde
MIF - Macrophage Migration Inhibitory Factor
MMAA - (CblA) MA Type A protein
MMAB - (CblB) ATPCob(I)alamin Adenosyltransferase
MMACHC - (CblC) MA and Homocystinuria Type C protein
MMADHC - (CblD) MA and Homocystinuria Type D protein
MMC-M - MethylMalonyl-CoA Mutase
MMC-R - MethylMalonyl-CoA Racemase
MMP - Matrix Metalloproteinase
MMSA - Methylmalonic Semialdehyde
Mn - Manganese
Mo - Molybdenum
Mo-MPT - Mo-Molybdopterin
MPI - Mannose-6-Phosphate Isomerase
MS - Methionine Synthase
MT - Methionine Transaminase
MTA - 5'-Methylthioadenosine
MTHFR - MethyleneTetraHydroFolate Reductase
MTR - 3-Methoxytyramine
MTRR - Methionine Synthase ReductaseNa - Sodium
Na+/K+-ATPase - Sodium-Potassium ATP Pump
N-Ac-Put - N-Acetylputrescine
N-Ac-ABAL - N-Acetyl-Gamma-Aminobutyraldehyde
N-Ac-GABA - N-Acetyl-Gamma-Aminobutyrate
NAD - Nicotinamide Adenine Dinucleotide
NADK - NAD Kinase
NADPT - NAD(P)+ Transhydrogenase
NAGK - NAD Synthetase
NAGK - N-Acetylglucosamine Kinase
NAM - Nicotinamide
NAMPT - Nicotinamide Phosphoribosyltransferase
NAPRT - Nicotinate Phosphoribosyltransferase
N-AS - N-Acetylspermine
N-ASD - N-Acetylspermidine
NCS - Noncoelaurine Synthase
NDPK - Nucleoside Diphosphokinase
NET - Norepinephrine Transporter
NH_3 - Ammonia
NMNAT - Nicotinamide Mononucleotide Adenylyltransferase
NO - Nitric Oxide
NOS - Endothelial Nitric Oxide Synthase
NTSC2 - Cytosolic 5'-nucleotidase II
O_2 - Oxygen
OAA - Oxaloacetate
OAADPR - 2'-O-Acetyl-ADP-Ribose
OAT - Ornithine Aminotransferase
ODC - Ornithine Decarboxylase
OH-Cob(III)alamin - Hydroxycobalamin
OH-ENP - 4-Hydroxy-Enol-Phenylpyruvate
OH-Glut - 4-Hydroxyglutamate
OH-GluSSA - 4-Hydroxyglutamate Semialdehyde
OH-PA - 4-Hydroxy-2-Ketoglutarate
OH-P5C - Pyroline Hydroxycarboxylate
OH-PA - 4-Hydroxyphenylacetaldehyde
OH-PAA - 4-Hydroxyphenylacetic Acid
OH-PD - 4-Hydroxyphenylpyruvate Dioxygenase
OH-PH4 - 1-Hydroxy-2-Oxopyrid Tetrahydropterin
OH-PLA - Hydroxyphenyllactic Acid
OH-PPA - 4-Hydroxyphenylpyruvic Acid
OH-PPL - 4-Hydroxyphenyl-Pyruvate Dioxygenase
OH-Pyr - Hydroxypyruvate
OMP - Orotidine-5'-Monophosphate
OMPDC - OMP Decarboxylase
OPRT - Orotate Phosphoribosyltransferase
OTC - Ornithine Transcarbamoylase
Ox - Oxalate
OXH - Oxaloacetase (Microbial)
P5C - Pyroline-5-Carboxylate
P5CR - P5C Reductase
P5P - Pyridoxal 5'-Phosphate
PAA - Phenylacetic Acid
PAcAL - Phenylacetaldehyde
PAGM - Phosphoacetylglucosamine Mutase
PAGN - Phenylacetylglutamine
PAGS - Phenylacetylglutamine Synthetase
PAH - Phenylalanine Hydroxylase
PACS,C - AIR carboxylase
PACS,N - SAICAR synthetase
PAL - Pyruvaldehyde
PAMOAT - Pyridoxamine:Oxaloacetate Aminotransferase
PBK - Pantothenic Kinase
PAO - Polyamine Oxidase
PAP - Adenosine 3',5'-Diphosphate
PAPS - 3'-Phosphoadenosine-5'-Phosphosulfate
PAT - Phenylalanine Aminotransferase
PATK - Panthenate Kinase
PCB - Pyruvate Carboxylase
PC - Phosphatidylcholine
PCC - Propionyl-CoA Carboxylase
PCre - Phosphocreatine
PCYT1A - Choline-Phosphate Cytidyltransferase
PDH - Pyruvate Dehydrogenase (Complex)
PDH-QP - O-Phospho-L-Seryl-PDH E1 alpha Subunit
PDK - Pyruvate Dehydrogenase Kinase
PDP - Pyruvate Dehydrogenase Phosphatase
PE - Phosphatidylethanolamine
PEPC - Phosphoenolpyruvate Carboxylase
PEPCK - Phosphoenolpyruvate Carboxykinase
PFAS - Phosphoribosylformylglycinamidine Synthase
PFK-1 - Phosphofructokinase
PFK-2 - 6-Phosphofructo-2-Kinase
PGAM - Phosphoglycerate Mutase
PGC1α - PPAR-gamma Coactivator 1-Alpha
PGI - Phosphoglucose Isomerase
PGK - Phosphoglycerate Kinase
PGLS - 6-Phosphogluconolactonase
PGM - Phosphoglucomutase
PHACA - Phenylacetate 2-Hydroxylase
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 C
PKC - Protein Kinase C
PLA - Phenylactic Acid
PLD - Prolidase
PMP - Pyridoxamine 5'-Phosphate
PNMT - Phenylethanolamine N-Methyltransferase
PNP - Purine Nucleoside Phosphorylase
PNPO - Pyridoxine 5'-Phosphate Oxidase
PPA - Phenylpyruvic Acid
PPAR - Peroxisome Proliferator-Activated Receptor
PPAT - Amidophosphoribosyltransferase
PPM - Pyridoxal Phosphate Phosphatase
PP - Pyrophosphate
PPCDC - Phosphopantothenoylcysteine Decarboxylase
PPCS - Phosphopantothenoylcysteine Synthetase
PPDC - Phenylpyruvate Decarboxylase
PPh - Triphosphate
PQQ - Pyrroloquinoline Quinone
PRA - 5-Phosphoribosylamine
PRODH - Proline Dehydrogenase
PRPP - 5-Phosphoribosyl-1-Pyrophosphate
PRPS - Phosphoribosyl Pyrophosphate Synthetase
PSP - Protein Synthesis Pathway
PS - Phosphatidylserine
PSAT - Phosphoserine Aminotransferase
PSPH - Phosphoserine Phosphatase
PSS - Phosphatidylserine Synthase
PTP - 6-Pyruvoyl-Tetrahydropterin
PTPS - 6-Pyruvoyl-Tetrahydropterin Synthase
Pyr - Pyruvate
Q - Ubiquinone (Coenzyme Q10)
Q_2 - Ubiquinol (Reduced Coenzyme Q10)
Qu - Quinine
Quo - Queuosine
QRPT - Quinolinate Phosphoribosyltransferase
R1P - Ribose-1-Phosphate
R5P - Ribose-5-Phosphate
RBKS - Ribokinase
RET - Reverse Electron Transfer (Inner Mitochondrial Membrane)
RK - Riboflavin Kinase
ROS - Reactive Oxygen Species
RPE - Ribulose-5-Phosphate 3-Epimerase
RPIA - Ribose-5-Phosphate Isomerase A
RuBP - Ribulose-5-Phosphate
S7P - Sedoheptulose-7-Phosphate
SAH - S-Adenosyl-L-Homocysteine
SAICAR - 5-Aminoimidazole-4-(N-succinylcarboxamide) Ribonucleotide
SAMe - S-Adenosylmethionine
SAMeA - S-Adenosylmethionamine
SAMeD - S-Adenosylmethionine Decarboxylase
SAMeS - S-Adenosylmethionine Synthase
SARDH - Sarcosine Dehydrogenase
SAT - Serotonin N-Acetyltransferase
SCOT - Succinyl-CoA:3-ketoacid CoA Transferase
SCS - Succinyl-CoA Synthetase
SDH - Succinate Dehydrogenase
Se - Selenium
Ser - Serine
SGLT - Serine-Glyoxylate Transaminase
SHMT - Serine Hydroxymethyltransferase
Si - Silicon
SLC - Solute Carrier
SORD - Sorbitol Dehydrogenase
SPDS - Spermidine Synthase
SPOX - Spermine Oxidase
SPS - Spermine Synthase
SQOR - Sulfide Quinone Oxidoreductase
SR - Sepiapterin Reductase
SSAL - Succinic Semialdehyde
SSAT1 - Spermidine/Spermine-N1-Acetyltransferase
Succ - Succinate
SULTx - Sulfotransferases
SUOX - Sulfite Oxidase
T3 - Triiodothyronine
TA - Tyrosinase
TALDO1 - Transaldolase 1
TAT - Tyrosine Aminotransferase
TDC - Tyrosine Decarboxylase
TGF - Transforming Growth Factor
TGT - tRNA Guanine Transglycosylase
TH - Tyrosine Hydroxylase
ThDP - Thiamine Diphosphate
THF - Tetrahydrofolate
THL - Thiolase
THP - Tetrahydropapaveroline
TKT - Transketolase
TMLH - Trimethyllysine Hydroxylase
TNF - Tumour Necrosis Factor
TPH - Tryptophan Hydroxylase
TPI - Triose Phosphate Isomerase
TPP - Thiamine Pyrophosphate
TPQ - Topaquinone
TRP - Thioredoxin-related Protein
TS - Thymidylate Synthase
TST - Thiosulfate Sulfurtransferase
UCK - Uridine-Cytidine Kinase
UDP - Uridine Diphosphate
UGPase - UDP-Glucose Pyrophosphorylase
UGAPase - UDP-GlcNAc Pyrophosphorylase
UMP - Uridine Monophosphate
UPP - Uridine Phosphorylase
UPRT - Uracil Phosphoribosyltransferase
UROC - Urocanase
UTP - Uridine Triphosphate
V - Vanadium
V-ATPase - Vesicular H+-ATP Pump
Vit C - Ascorbic Acid
Vit E - Tocopherols, Tocotrienols
VMA - Vanillylmandelic Acid
VMAT - Vesicular Monoamine Transporter
VNN - Vanin-1 (Pantetheinase)
XO - Xanthine Oxidase
Xu5P - Xylulose-5-Phosphate
Zn - Zinc

COLOUR KEY (Labels)

ATP, ADP, AMP, GTP, GDP, GMP, CTP, CDP, CMP, UTP, UDP, UMP
TPP
FAD, FMN

NAD+, NADH, NADP, NADPH
P5P
Q, QH_2
REACTION
TRANSAMINATION
TRANSPORTERS
MICROBIAL / PATHOGENIC
PROMOTER
INHIBITOR
*MDX OAT MARKER#
(Others - Illustrative)

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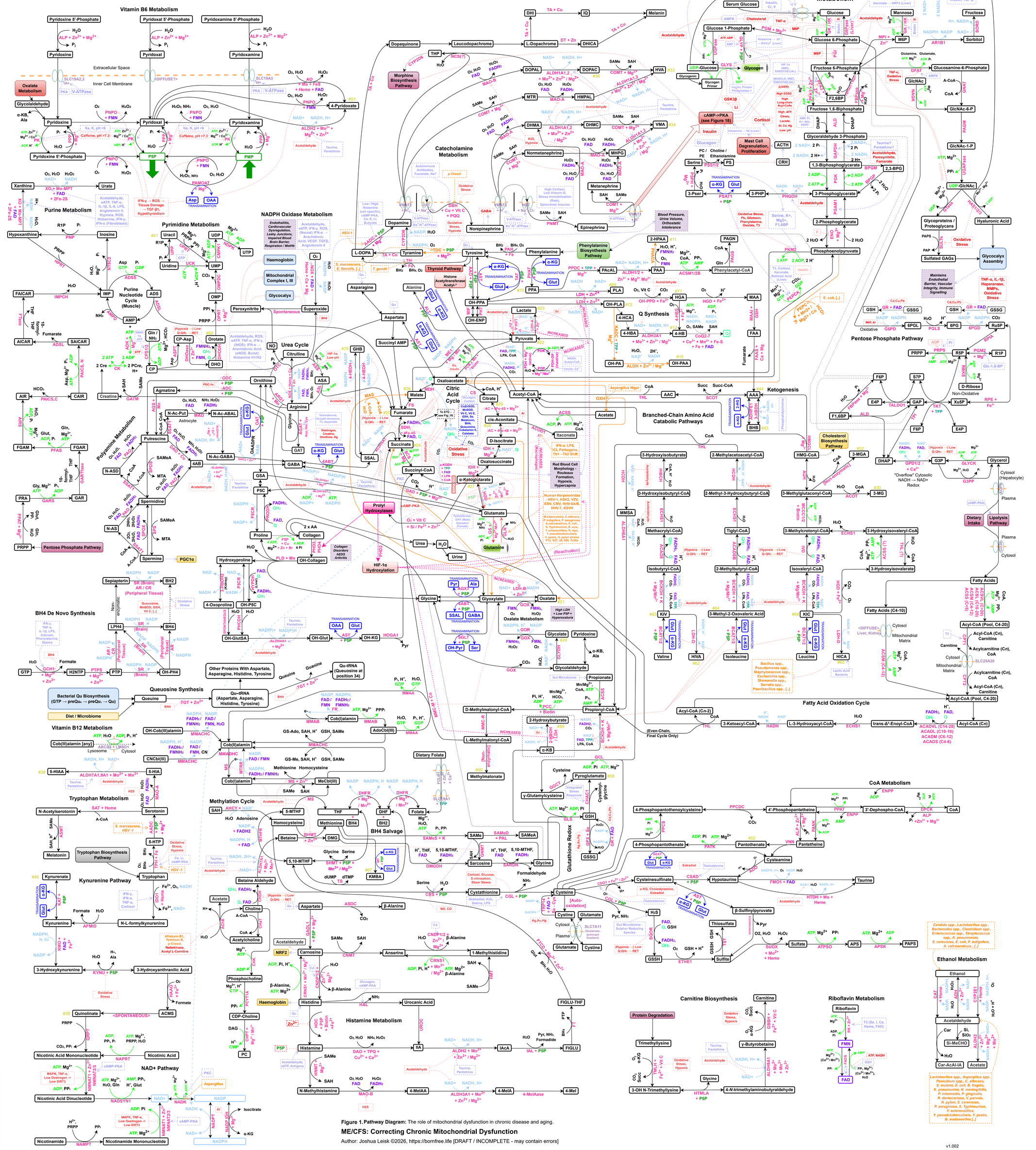
Vitamin B6 Metabolism
Extracellular Space
Inner Cell Membrane
Oxalate Metabolism
Glycolaldehyde
Purine Metabolism
Pyrimidine Metabolism
Purine Nucleotide Cycle (Muscle)
Urea Cycle
Citric Acid Cycle
Catecholamine Metabolism
NADPH Oxidase Metabolism
Sugars Metabolism
Glycogen
Glycogenolysis
Glycogenesis
Pentose Phosphate Pathway
Q Synthesis
Ketogenesis
Branched-Chain Amino Acid Catabolic Pathways
Cholesterol Biosynthesis Pathway
Fatty Acid Oxidation Cycle
Glycolysis
Gluconeogenesis
Oxidative Phosphorylation
Electron Transport Chain
Mitochondrial Complex I, III
Haemoglobin
Glycocalyx
Glycoproteins / Proteoglycans
Hyaluronic Acid
Sulfated GAGs
Glycocalyx Assembly
Maintains Endothelial Barrier, Vascular Integrity, Immune Signalling
TNF-α, IL-1β, Heparanase, MMPs, Oxidative Stress
Phenylalanine Biosynthesis Pathway
Thyroid Pathway
Histone Acetyltransferase Acetyl-*
Blood Pressure, Urine Volume, Orthostatic Intolerance
Mast Cell Degranulation, Proliferation
Insulin
Glucagon
Cortisol
cAMP->PKA (see Figure 18)
Dopamine
Norepinephrine
Epinephrine
Tyrosine
L-DOPA
Phenylalanine
Tryptophan
Serotonin
Melatonin
Kynurenine
Kynurenic Acid
3-Hydroxykynurenine
3-Hydroxyanthranilic Acid
Quinolinate
Nicotinic Acid Mononucleotide
Nicotinic Acid Dinucleotide
Nicotinamide
Nicotinamide Mononucleotide
NAD+ Pathway
Polyamine Metabolism
Spermidine
Spermine
Putrescine
Agmatine
Arginine
Glycine
Proline
Hydroxyproline
Collagen
Glutamine
Glutamate
Glutathione Redox
GSH
GSSG
Methionine
Cysteine
Taurine
Hypotaurine
Sulfate
Sulfite
Thiosulfate
Carnitine Biosynthesis
Protein Degradation
Trimethyllysine
3-OH N-Trimethyllysine
4-N-trimethylaminobutyraldehyde
γ-Butyrobetaine
Riboflavin Metabolism
Riboflavin
FMN
FAD
Ethanol Metabolism
Ethanol
Acetaldehyde
Acetate
Histamine Metabolism
Histidine
Urocanic Acid
Methylation Cycle
BH4 Salvage
Dietary Folate
Methylmalonate
CoA Metabolism
Pantothenate
Cysteamine
Cytosol
Mitochondrial Matrix
Plasma
Dietary Intake
Lipolysis Pathway
Candida spp., Lactobacillus spp., Bacteroides spp., Clostridium spp., Enterococcus spp., Streptococcus spp., K. pneumoniae, S. cerevisiae, E. coli, P. indigofera, A. calcoaceticus, [..]
Lactobacillus spp., Aspergillus spp., Penicillium spp., C. albicans, S. mutans, E. coli, B. fragilis, K. pneumoniae, N. meningitidis, P. intermedia, P. gingivalis, R. dentocariosa, V. parvula, H. pylori, S. cerevisiae, P. aeruginosa, S. Typhimurium, Y. enterocolitica, R. equi, Y. pseudotuberculosis, Y. pestis, H. pylori strains P12, G27, 26, 695, Tx30a
M.tuberculosis, C.albicans, P. indigofera, P. aeruginosa, A.calcoaceticus, E. coli, S. Typhimurium, B. suis, Y. enterocolitica, R. equi, Y. pseudotuberculosis, Y. pestis, H. pylori strains P12, G27, 26, 695, Tx30a
Bacillus spp., Pseudomonas spp., Staphylococcus spp., Escherichia spp., Shewanella spp., Serratia spp., Paenibacillus spp., [..]
Human Herpesviridae - HSV-1, HSV2, VZV, EBV, CMV, HHV-6A/B, HHV-7, KSVH
Red Blood Cell Morphology - Rouleaux Formation, Hypoxia, Hypercapnia
High LDH + Low P5P = Hyperoxaluria
Oxidative Stress
Aspergillus Niger
Aflatoxin B1, Territrem B, p-Cresol, Nattokinase, Acetyl L-Carnitine
Bacterial Qu Biosynthesis (GTP → preQ₀ → preQ₁ → Qu)
Diet / Microbiome
Queuosine Synthesis
Vitamin B12 Metabolism
Tryptophan Metabolism
Tryptophan Biosynthesis Pathway
Kynurenine Pathway
BH4 De Novo Synthesis
Pentose Phosphate Pathway
Prolyl Hydroxylases
HIF-1α Hydroxylation
Collagen Disorders hEDS Arthritis
Oxalate Metabolism
Oxaloacetate
Succinate
Succinyl-CoA
α-Ketoglutarate
Malate
Fumarate
Citrate
cis-Aconitate
Isocitrate
Pyruvate
Acetyl-CoA
Lactate
Ketogenesis
Acetoacetyl-CoA
HMG-CoA
Acetoacetate
Propionyl-CoA
Methylmalonyl-CoA
Succinyl-CoA
Fatty Acids
Acyl-CoA (Pool, C4-20)
Acyl-CoA (Cn), Carnitine
Acylcarnitine (Cn), Carnitine
Acyl-CoA (Cn), Carnitine
Acyl-CoA (Pool, C4-20)
Acyl-CoA (Cn-2)
Acyl-CoA (Cn)
Fatty Acids (C4-10)
Fatty Acids (C4-12)
Fatty Acids (C4-20)
Glycerol
Glycerol-3-P
DHAP
Glycerol 3-Phosphate
Glycerol-1-P
Glycerol-1,2-BP
Glycerol-1,3-BP
Glycerol-1,2-CP
Glycerol-1,3-CP
Glycerol-1-P-2-Choline
Glycerol-1-P-3-Choline
Glycerol-1-P-2-Ethanolamine
Glycerol-1-P-3-Ethanolamine
Glycerol-1-P-2-Serine
Glycerol-1-P-3-Serine
Glycerol-1-P-2-Inositol
Glycerol-1-P-3-Inositol
Glycerol-1-P-2-Glycerol
Glycerol-1-P-3-Glycerol
Glycerol-1-P-2-Ethanolamine-1-P
Glycerol-1-P-3-Ethanolamine-1-P
Glycerol-1-P-2-Serine-1-P
Glycerol-1-P-3-Serine-1-P
Glycerol-1-P-2-Inositol-1-P
Glycerol-1-P-3-Inositol-1-P
Glycerol-1-P-2-Glycerol-1-P
Glycerol-1-P-3-Glycerol-1-P
Glycerol-1-P-2-Ethanolamine-1-P-3-Ethanolamine-1-P
Glycerol-1-P-2-Serine-1-P-3-Serine-1-P
Glycerol-1-P-2-Inositol-1-P-3-Inositol-1-P
Glycerol-1-P-2-Glycerol-1-P-3-Glycerol-1-P
Glycerol-1-P-2-Ethanolamine-1-P-3-Ethanolamine-1-P-2-Serine-1-P-3-Serine-1-P
Glycerol-1-P-2-Inositol-1-P-3-Inositol-1-P-2-Glycerol-1-P-3-Glycerol-1-P-2-Ethanolamine-1-P-3-Ethanolamine-1-P-2-Serine-1-P-3-Serine