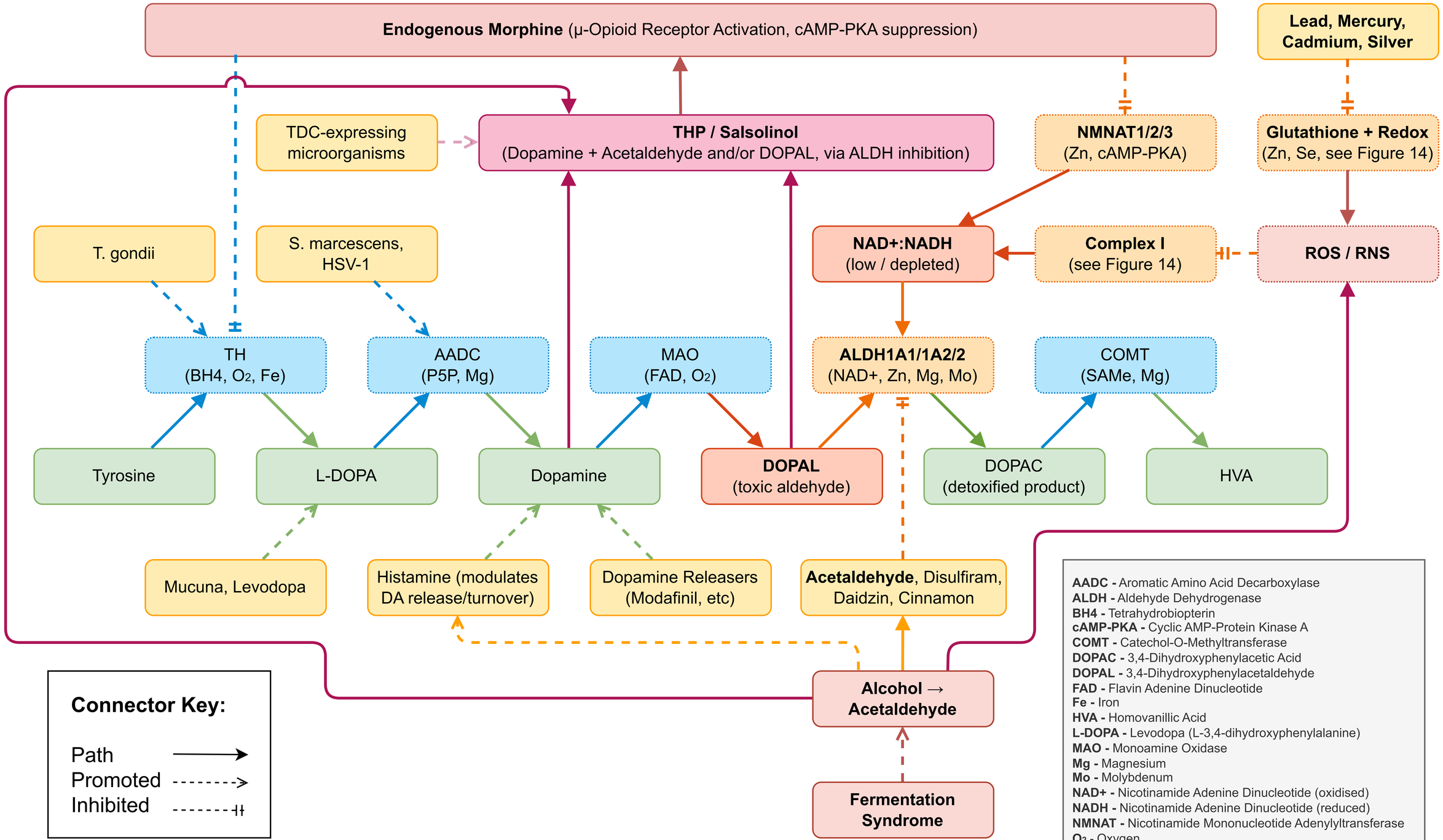

AADC - Aromatic Amino Acid Decarboxylase
ALDH - Aldehyde Dehydrogenase
BH4 - Tetrahydrobiopterin
cAMP-PKA - Cyclic AMP-Protein Kinase A
COMT - Catechol-O-Methyltransferase
DOPAC - 3,4-Dihydroxyphenylacetic Acid
DOPAL - 3,4-Dihydroxyphenylacetaldehyde
FAD - Flavin Adenine Dinucleotide
Fe - Iron
HVA - Homovanillic Acid
L-DOPA - Levodopa (L-3,4-dihydroxyphenylalanine)
MAO - Monoamine Oxidase
Mg - Magnesium
Mo - Molybdenum
NAD+ - Nicotinamide Adenine Dinucleotide (oxidised)
NADH - Nicotinamide Adenine Dinucleotide (reduced)
NMNAT - Nicotinamide Mononucleotide Adenylyltransferase
O_2 - Oxygen
P5P - Pyridoxal 5'-Phosphate
ROS/RNS - Reactive Oxygen / Nitrogen Species
SAMe - S-Adenosylmethionine
TDC - Tyrosine Decarboxylase
TH - Tyrosine Hydroxylase
THP - Tetrahydropapaveroline
Zn - Zinc

Figure 13. Pathway Diagram: The role of endogenous morphine synthesis in NAD+ deficiency.

ME/CFS: Correcting Chronic Mitochondrial Dysfunction

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