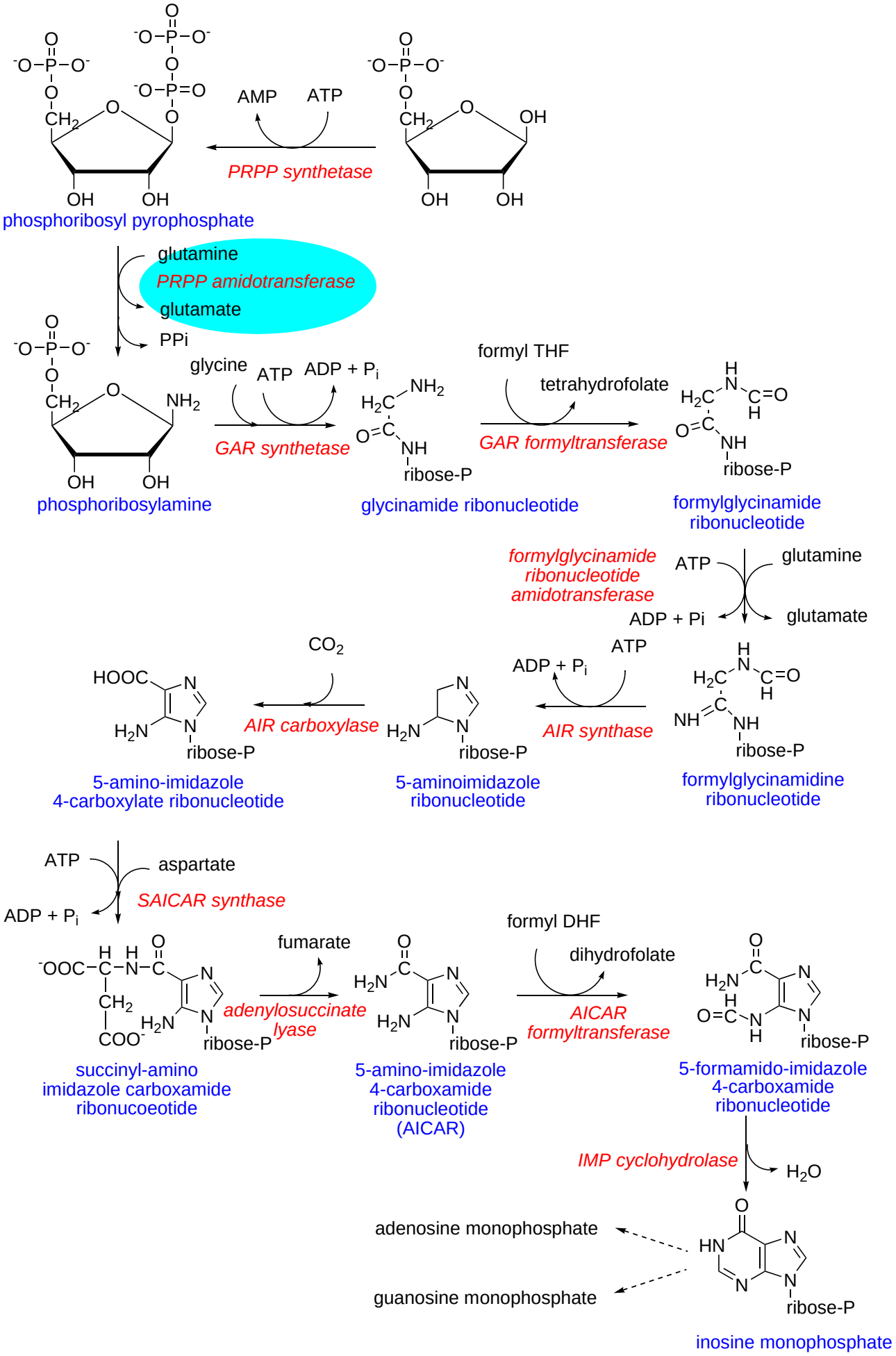
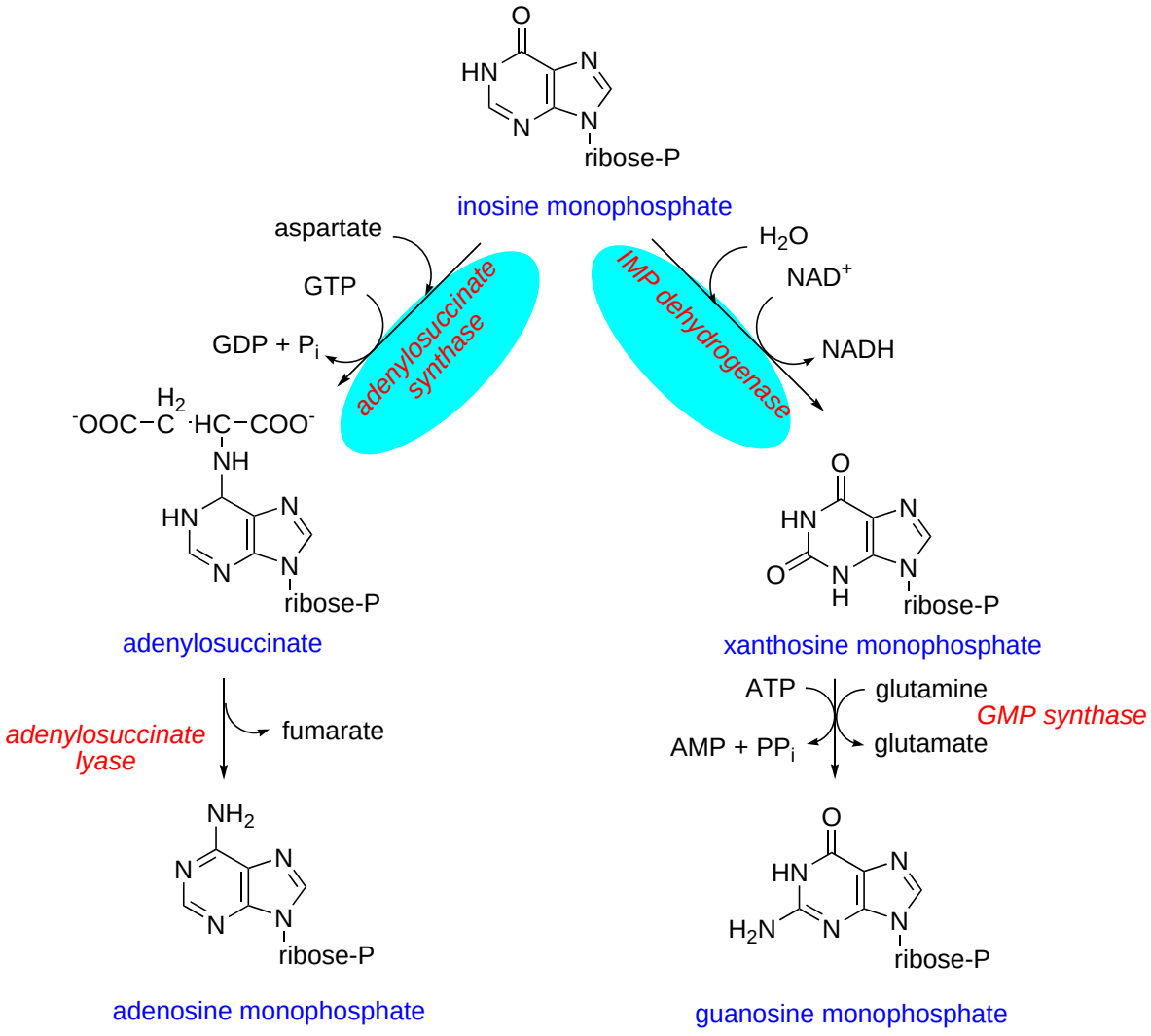

AMP
ATP
PRPP synthetase
phosphoribosyl pyrophosphate
glutamine
PRPP amidotransferase
glutamate
PPi
glycine
ATP
ADP + Pi
GAR synthetase
phosphoribosylamine
glycinamide ribonucleotide
formyl THF
tetrahydrofolate
GAR formyltransferase
formylglycinamide ribonucleotide
formylglycinamide ribonucleotide amidotransferase
ATP
glutamine
ADP + Pi
glutamate
CO2
AIR carboxylase
ADP + Pi
ATP
AIR synthase
5-amino-imidazole 4-carboxylate ribonucleotide
5-aminoimidazole ribonucleotide
formylglycinamidine ribonucleotide
ATP
aspartate
SAICAR synthase
ADP + Pi
fumarate
adenylosuccinate lyase
formyl DHF
dihydrofolate
AICAR formyltransferase
succinyl-amino imidazole carboxamide ribonucoeotide
5-amino-imidazole 4-carboxamide ribonucleotide (AICAR)
5-formamido-imidazole 4-carboxamide ribonucleotide
IMP cyclohydrolase
H2O
adenosine monophosphate
guanosine monophosphate
inosine monophosphate


inosine monophosphate
aspartate
GTP
GDP + Pi
adenylosuccinate synthase
H2O
NAD+
NADH
IMP dehydrogenase
adenylosuccinate
xanthosine monophosphate
adenylosuccinate lyase
fumarate
ATP
glutamine
GMP synthase
AMP + PPi
glutamate
adenosine monophosphate
guanosine monophosphate