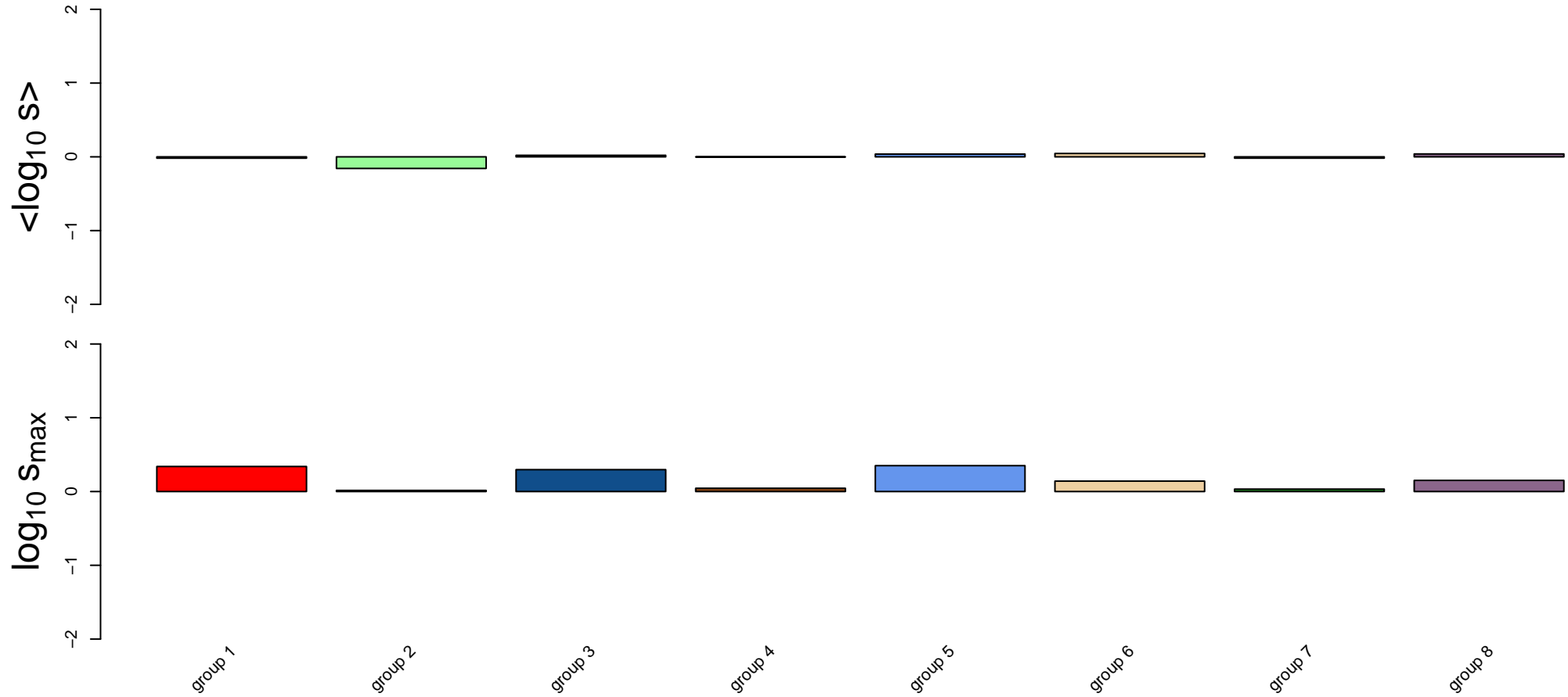
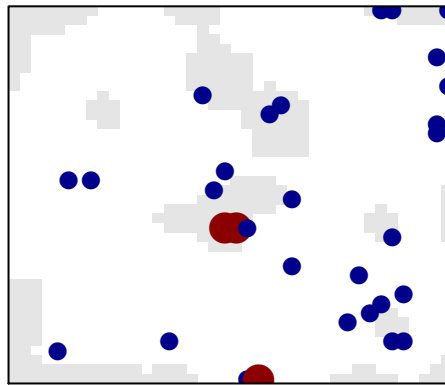
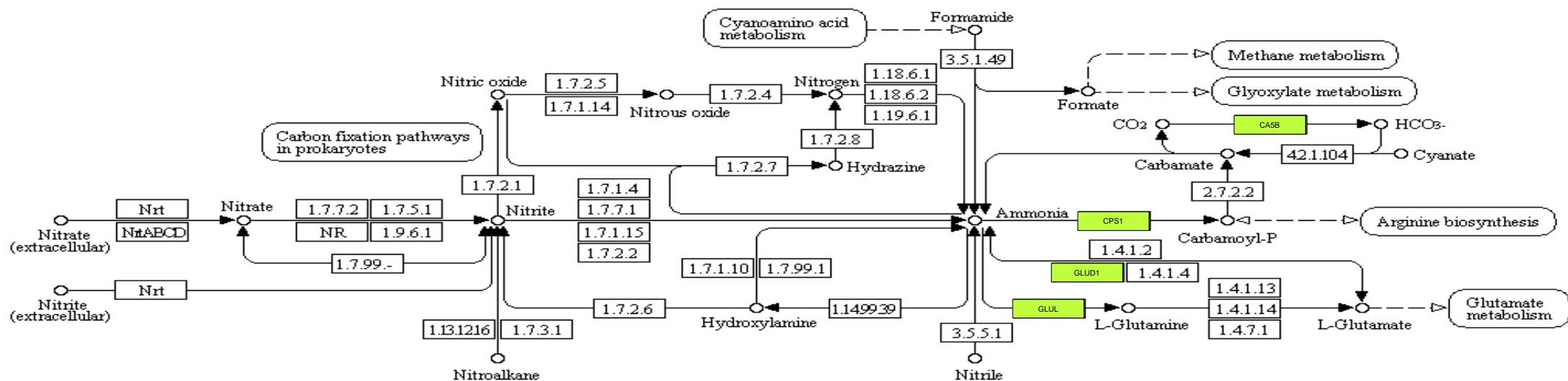


Nitrogen metabolism

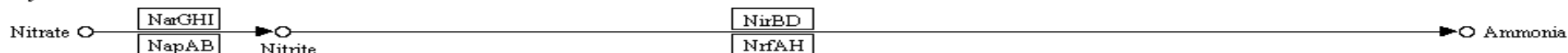
all genes



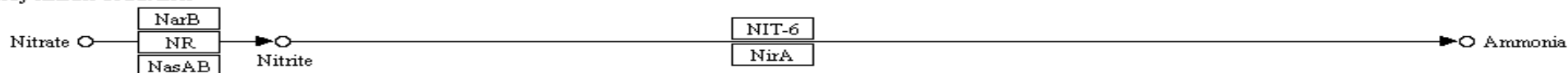


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

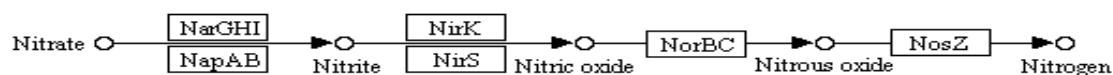
Dissimilatory nitrate reduction



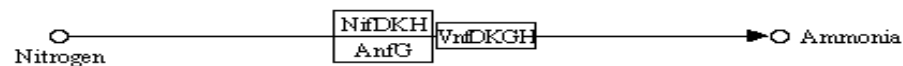
Assimilatory nitrate reduction



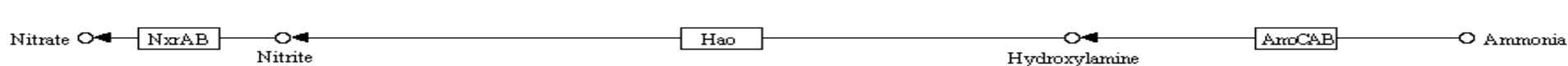
Denitrification



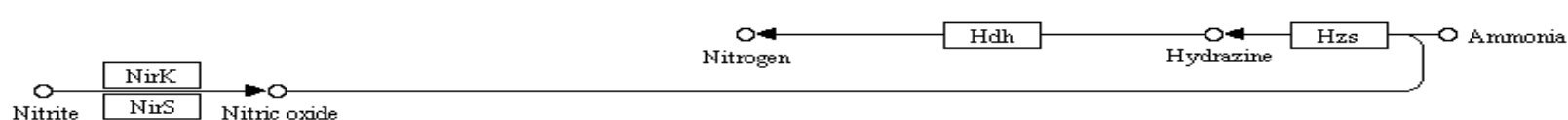
Nitrogen fixation



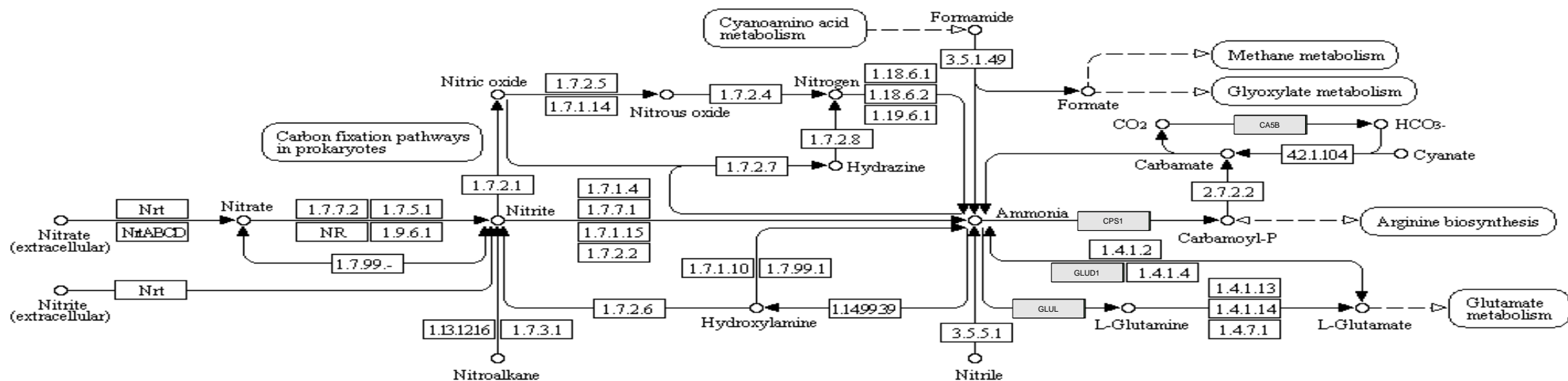
Nitrification



Anammox

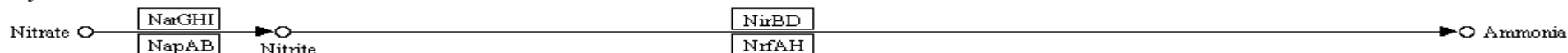


Nitrogen_metabolism
sink nodes

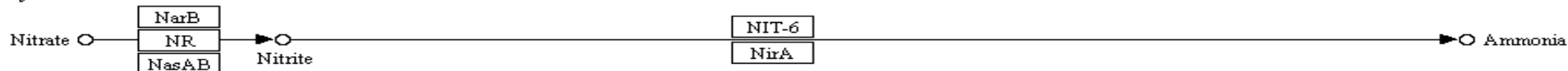


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

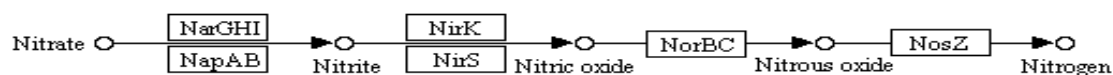
Dissimilatory nitrate reduction



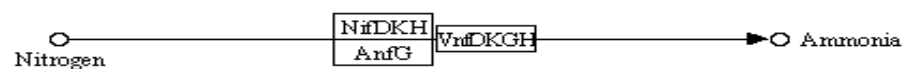
Assimilatory nitrate reduction



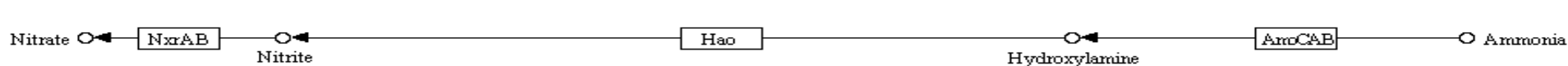
Denitrification



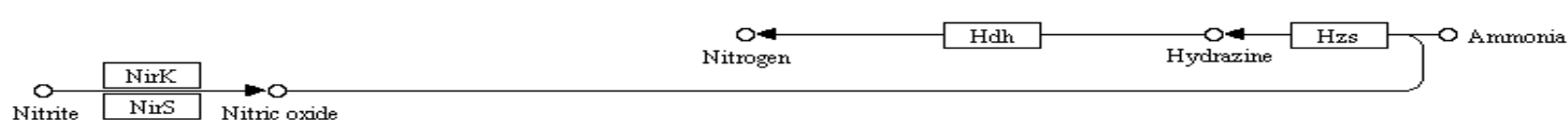
Nitrogen fixation

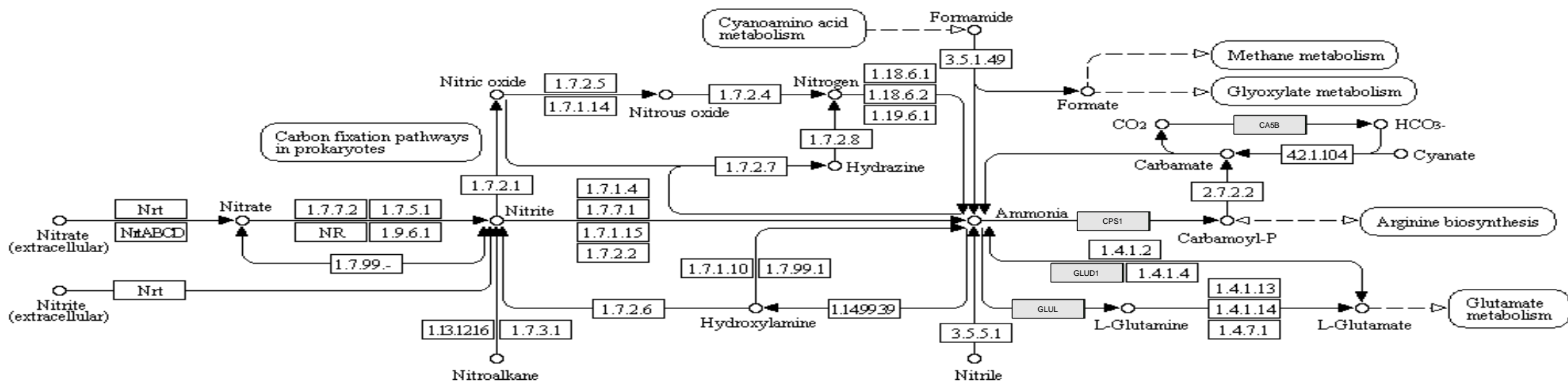


Nitrification



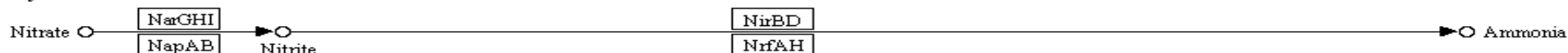
Anammox



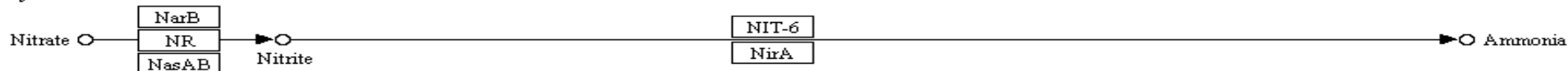


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

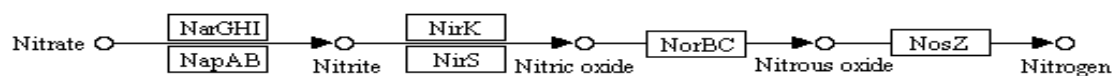
Dissimilatory nitrate reduction



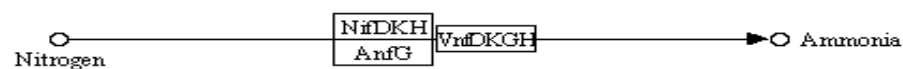
Assimilatory nitrate reduction



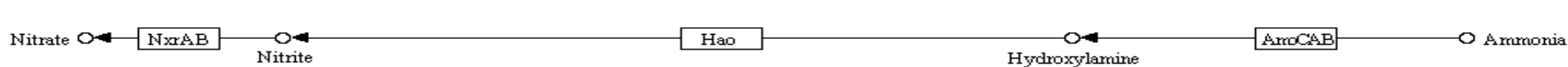
Denitrification



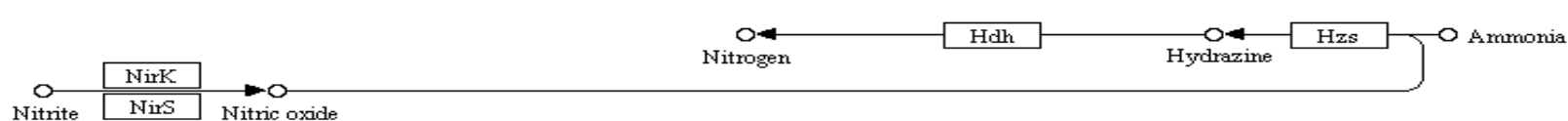
Nitrogen fixation



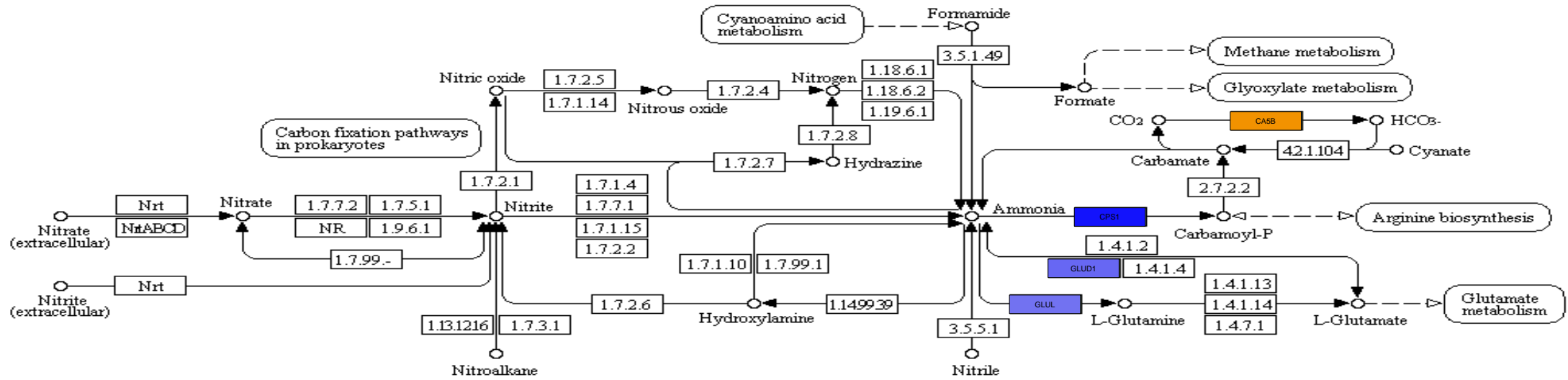
Nitrification



Anammox

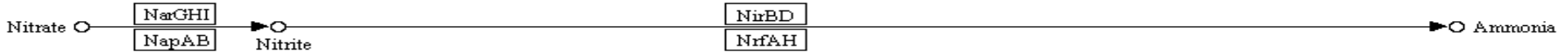


Nitrogen_metabolism
group 1

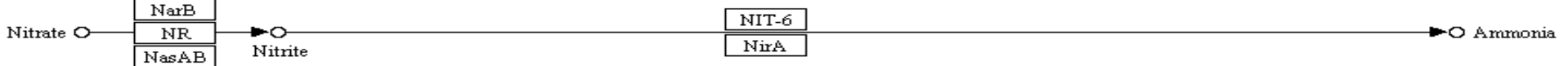


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

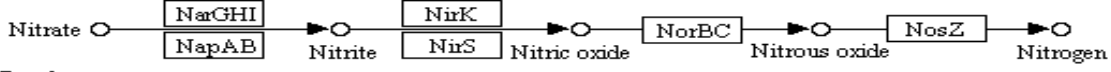
Dissimilatory nitrate reduction



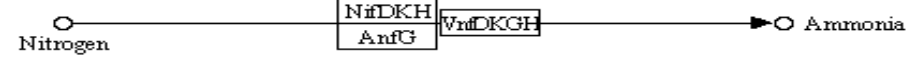
Assimilatory nitrate reduction



Denitrification



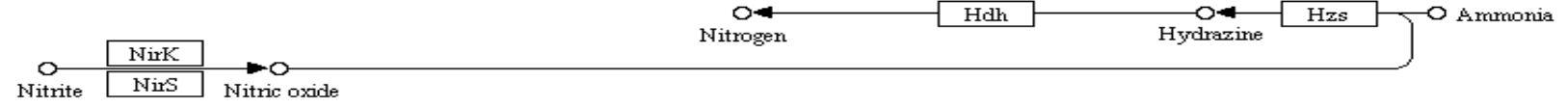
Nitrogen fixation



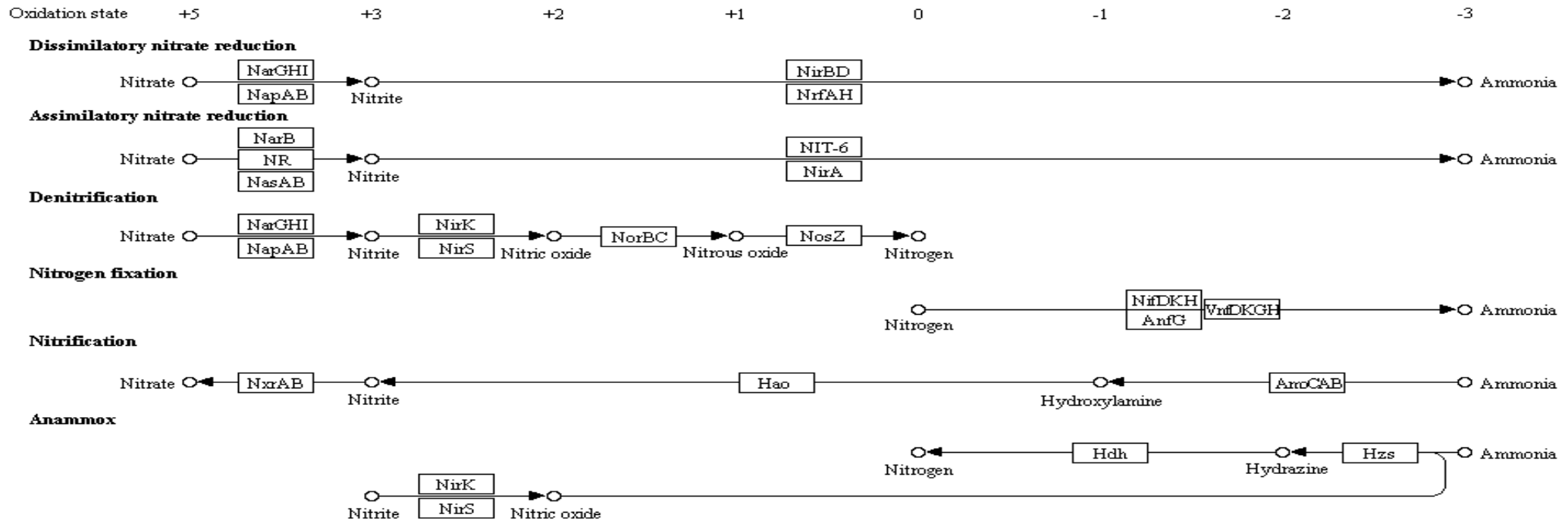
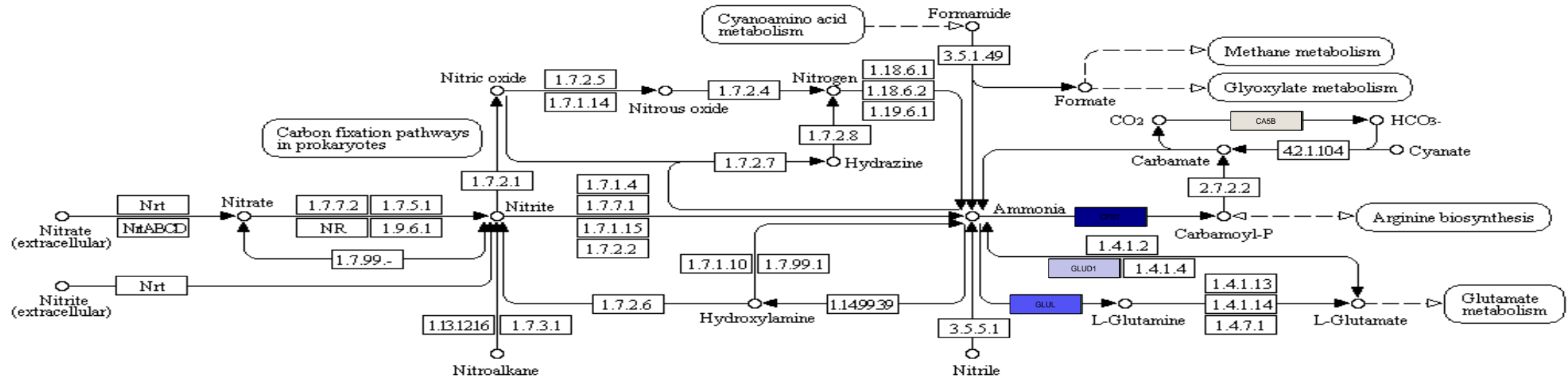
Nitrification

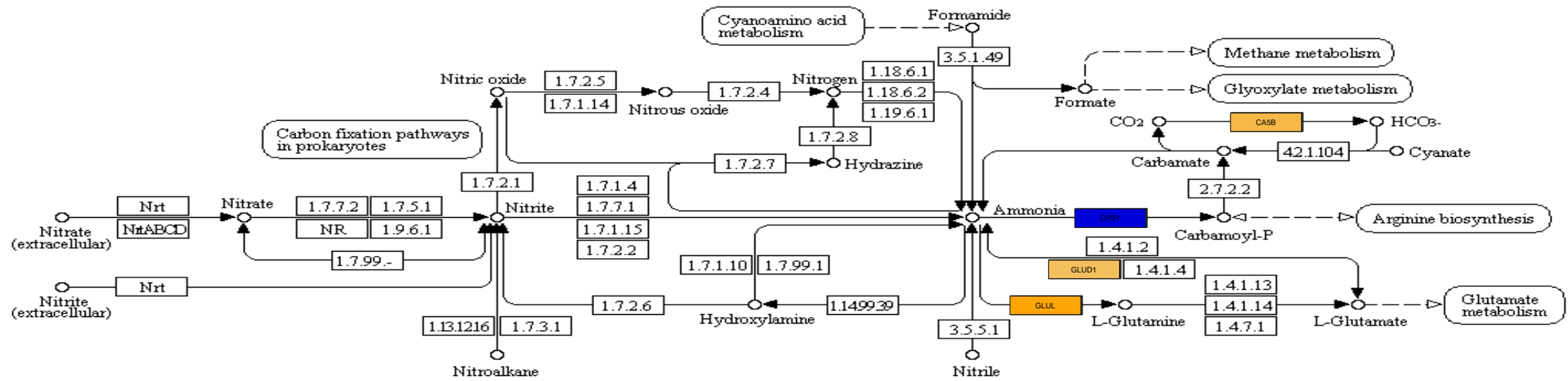


Anammox



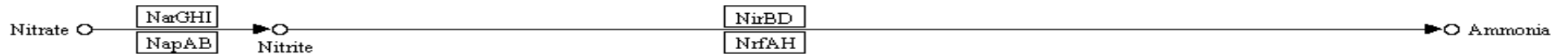
Nitrogen_metabolism
group 2



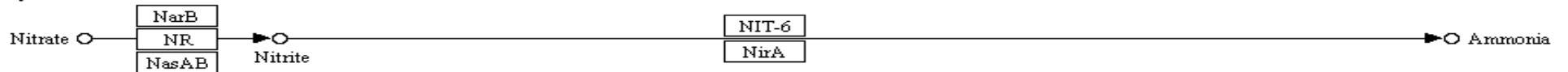


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

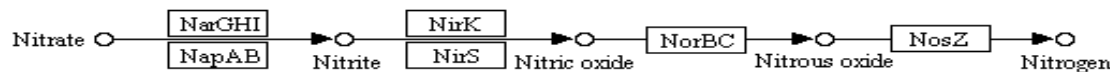
Dissimilatory nitrate reduction



Assimilatory nitrate reduction



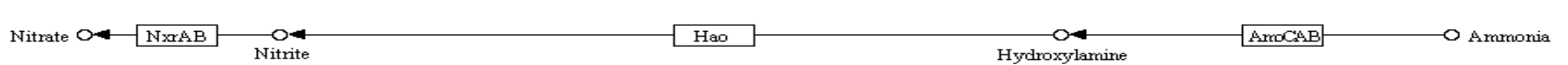
Denitrification



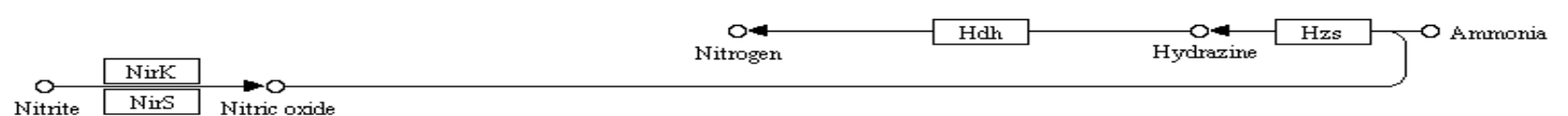
Nitrogen fixation

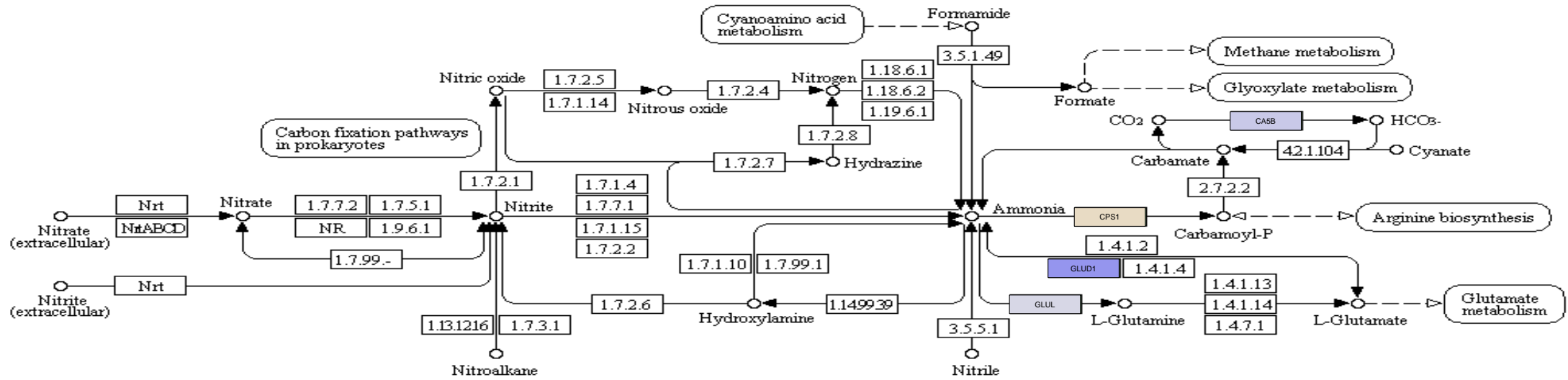


Nitrification



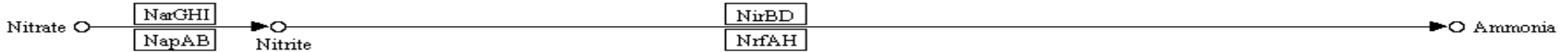
Anammox



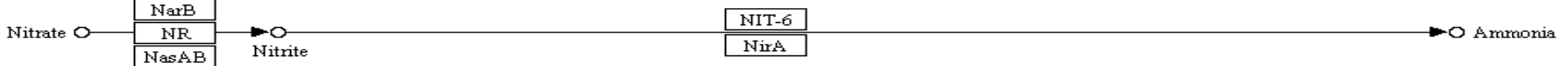


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

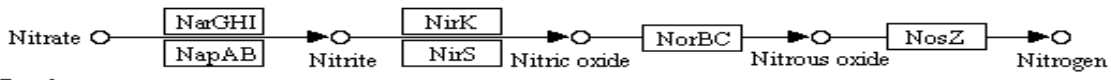
Dissimilatory nitrate reduction



Assimilatory nitrate reduction



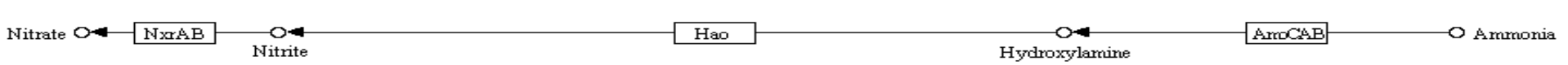
Denitrification



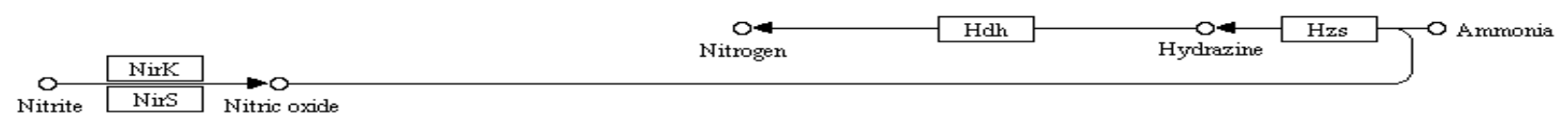
Nitrogen fixation

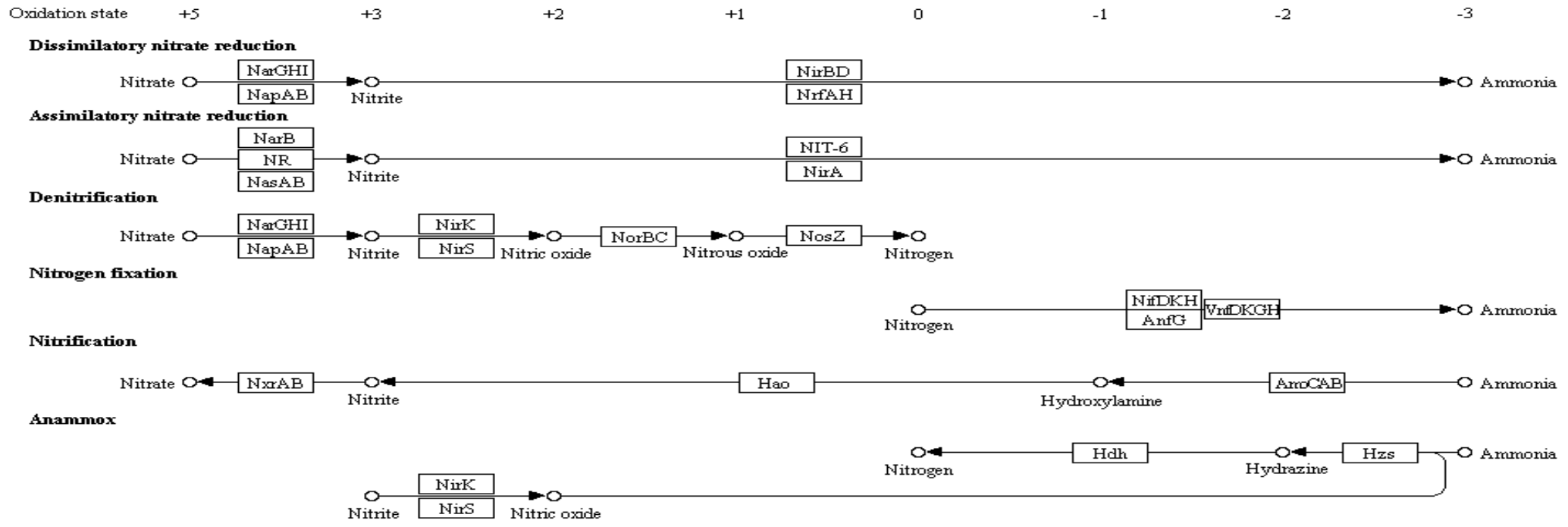
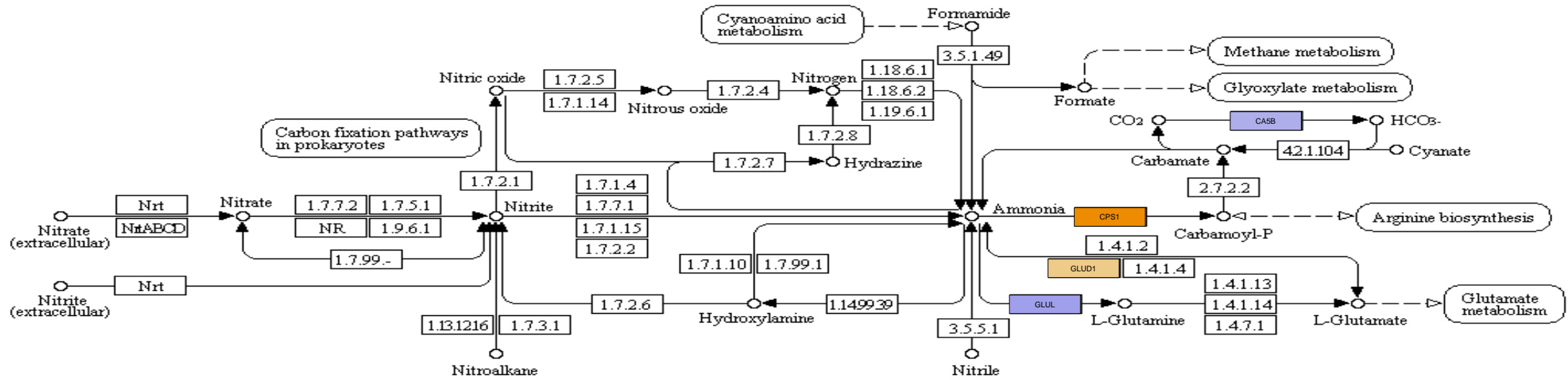


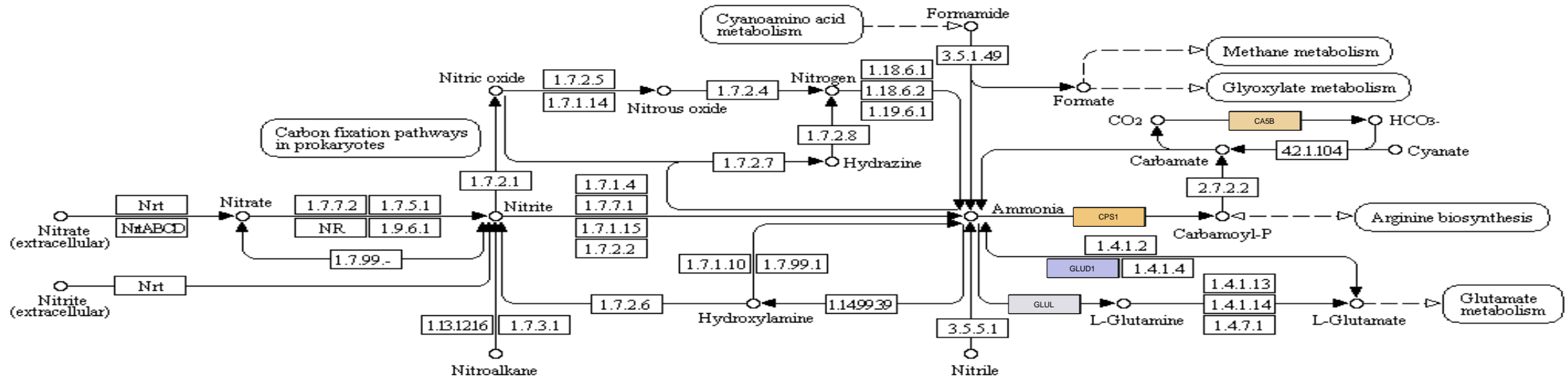
Nitrification



Anammox

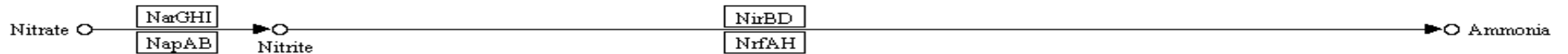




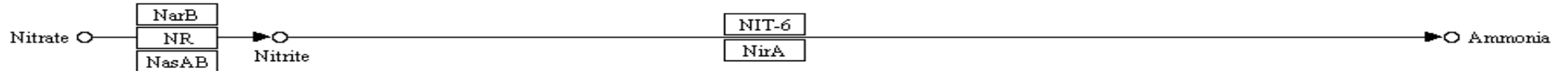


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

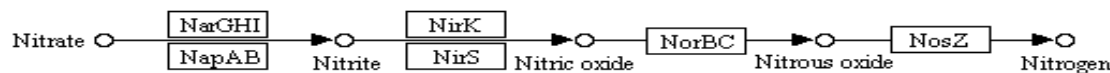
Dissimilatory nitrate reduction



Assimilatory nitrate reduction



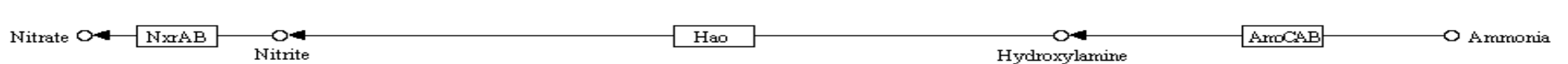
Denitrification



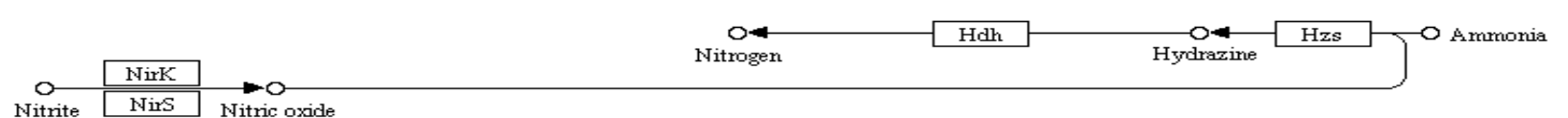
Nitrogen fixation

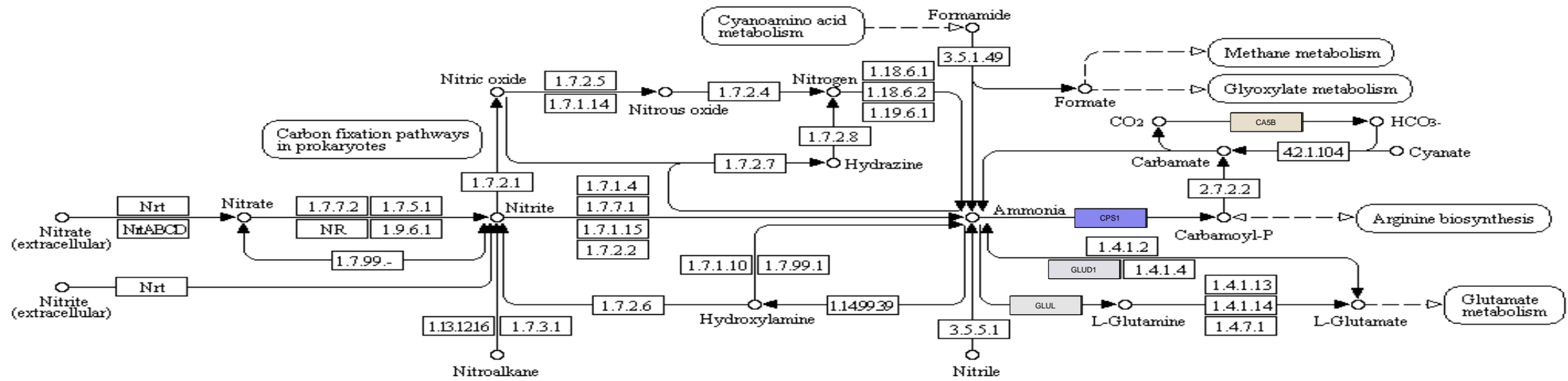


Nitrification



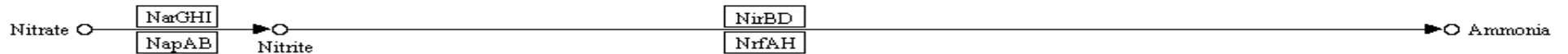
Anammox



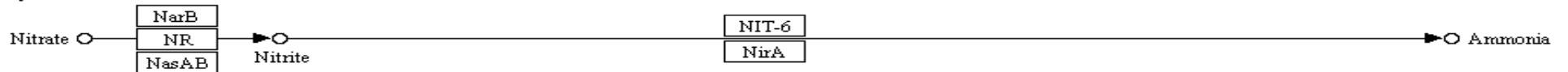


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

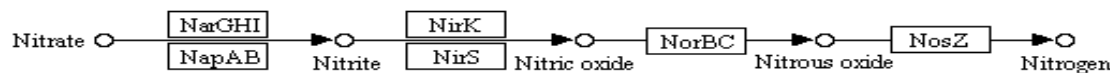
Dissimilatory nitrate reduction



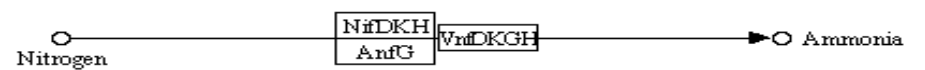
Assimilatory nitrate reduction



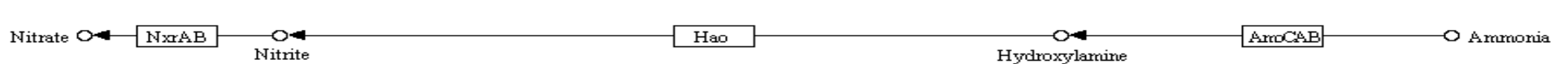
Denitrification



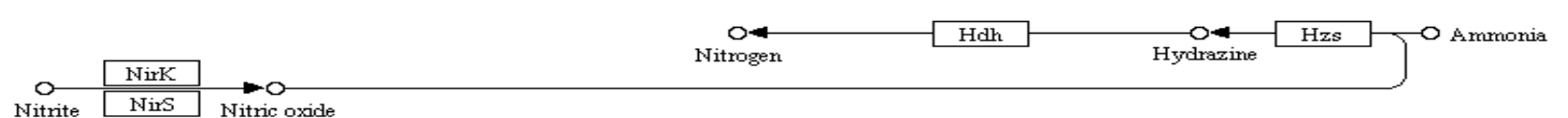
Nitrogen fixation

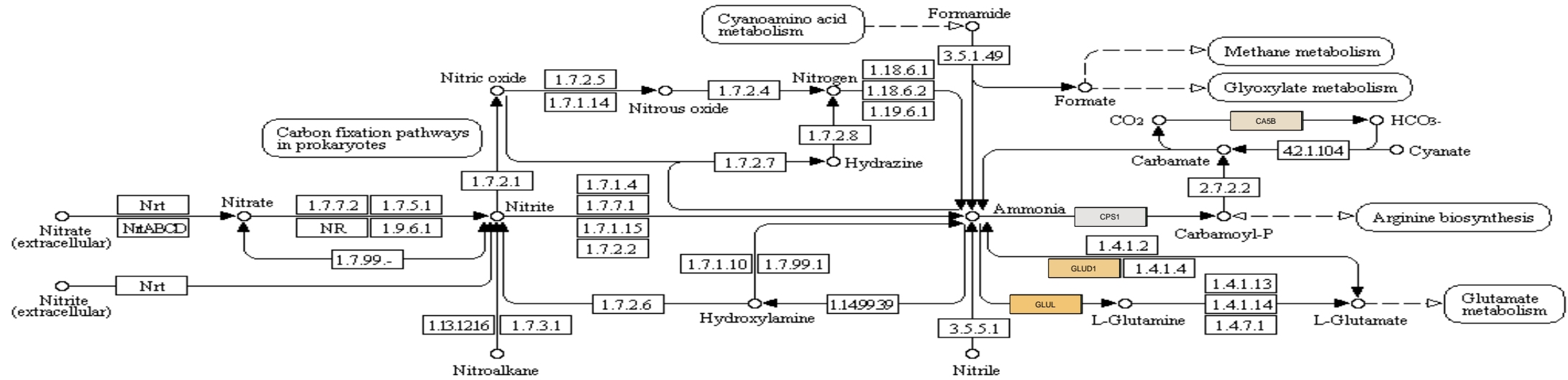


Nitrification



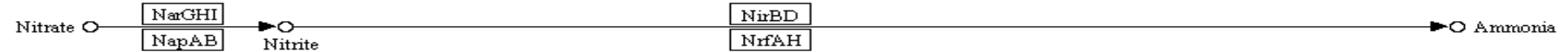
Anammox



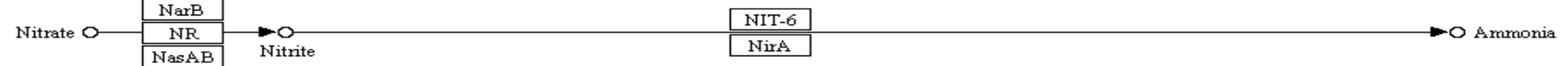


Oxidation state +5 +3 +2 +1 0 -1 -2 -3

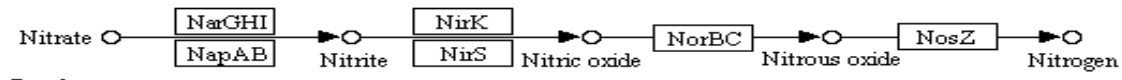
Dissimilatory nitrate reduction



Assimilatory nitrate reduction



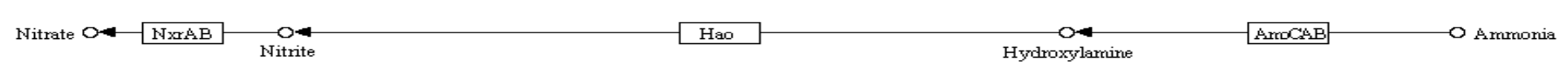
Denitrification



Nitrogen fixation



Nitrification



Anammox

