

1. Increase in urea synthesis by ornithine
 - substrate of the urea cycle
 - activator of carbamylphosphate synthetase
 - activator of ornithine carbamyltransferase
 - activator of glutamine synthesis
2. Increase in glutamine synthesis by aspartate
 - substrate of glutamine synthesis
 - activator of glutamine synthetase
3. Increase in the energy balance by aspartate
 - substrate of the citric acid cycle
 - formation of oxalacetate
 - channelling of fumaric acid into the citric acid cycle
4. Increase in NH_3 detoxification in the musculature
5. As a component of pyrimidine nucleotide synthesis leading to liver cell regeneration