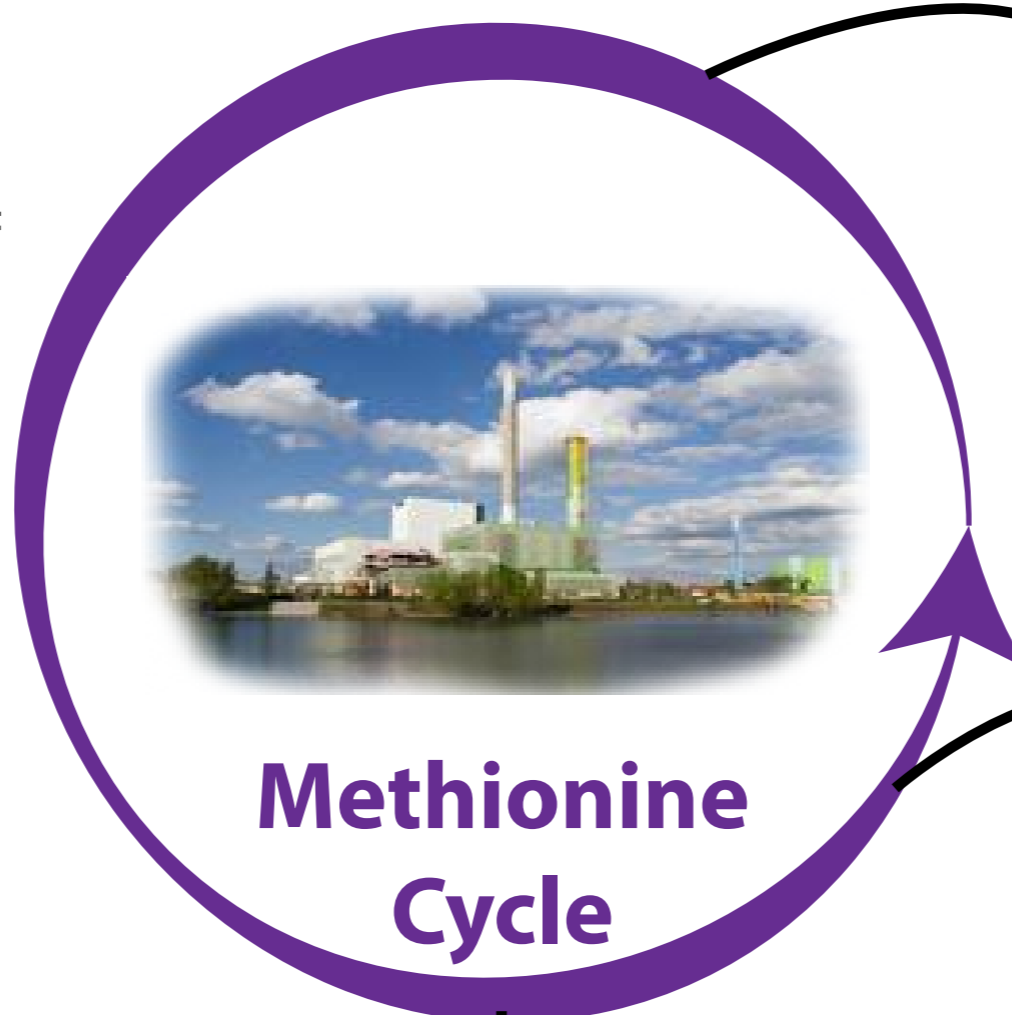


Methionine Cycle

SAM's Corporation



BHMT

Short-cut

Converts HCY into Methionine
 Defects = Gut issues
 ADD/ADHD
 Similar to CBS Defects

SUOX

Converts sulfites to sulfate
 Defects = High Sulfites
 Headaches/Migraines
 Asthma/Chest tightness
 Chronic fatigue/Lethargy
 Chronic Indigestion/Heartburn
 ↓ B-12 impedes SUOX
 ↓ Molybdenum
 ↓ Manganese
 ↓ Boron
 ↓ Strontium

AHCY

Activates Homocysteine for More Work Tags
 Defects = ↓ *HCY
 Hides CBS defects
 ↑ Gut issues
 Balances MTHFR C677T defects

ACE

Anxiety & Adrenal Response = Stress Hormone, Mineral, & Blood pressure (BP) Control
 Defects heighten Anxiety & Fight or Flight
 ↑ Aldosterone
 ↓ Potassium & ↑ Sodium
 ↑ Cortisol
 Water retention
 ↓ Memory & Learning
 Adrenal fatigue & later, low cortisol
 Dizziness or "Head rushes" w/standing
 ↓ BP & later, ↑ BP

Methionine Cycle

Path to liver

CBS

Path to SUOX

Defect = "Hole in the Bucket"

Toxic ammonia & sulfite overload

- | | | |
|---------------------|--------------|------------------|
| ↑ Ammonia | Brain Fog | Heart disease |
| ↑ Taurine | Migraines | Dementia |
| ↓ Molybdenum | Irritability | Seizures |
| ↓ Zinc/Copper ratio | Fatigue | Viral infections |
| ↓ Glutathione | Dark circles | Down's Syndrome |

"Filtering System"
 Transsulfuration
 Liver Pathway

To Waste Facility

*Homocysteine = HCY