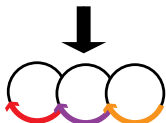
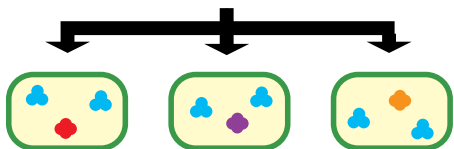


Thermophiles & Hyperthermophiles

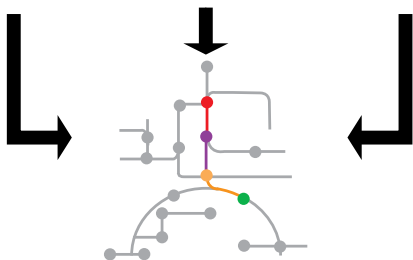
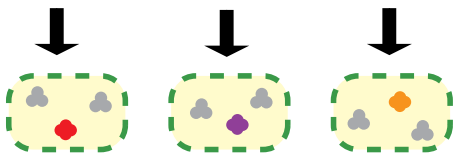
Step 1: Selection of thermo-tolerant enzymes and construction of expression vectors



Step 2: Expression in mesophiles (e.g. *E. coli*)



Step 3: Heat-treatment (typically at 70°C for 30 min)



Step 4: Construction of an *in vitro* metabolic pathway with the biocatalytic modules