

## Perturbation convergence on module 39

oxidative phosphorylation  
aerobic respiration  
cellular respiration  
mitochondrial electron transport, cytochrome c to oxygen  
energy derivation by oxidation of organic compounds  
ATP synthesis coupled electron transport  
mitochondrial ATP synthesis coupled electron transport  
electron transport chain  
respiratory electron transport chain  
generation of precursor metabolites and energy  
purine-containing compound biosynthetic process  
proton motive force-driven ATP synthesis  
nucleoside phosphate biosynthetic process  
aerobic electron transport chain  
ATP biosynthetic process  
purine nucleoside triphosphate biosynthetic process  
purine ribonucleoside triphosphate biosynthetic process  
ribonucleoside triphosphate biosynthetic process  
nucleoside triphosphate biosynthetic process  
purine ribonucleotide biosynthetic process

