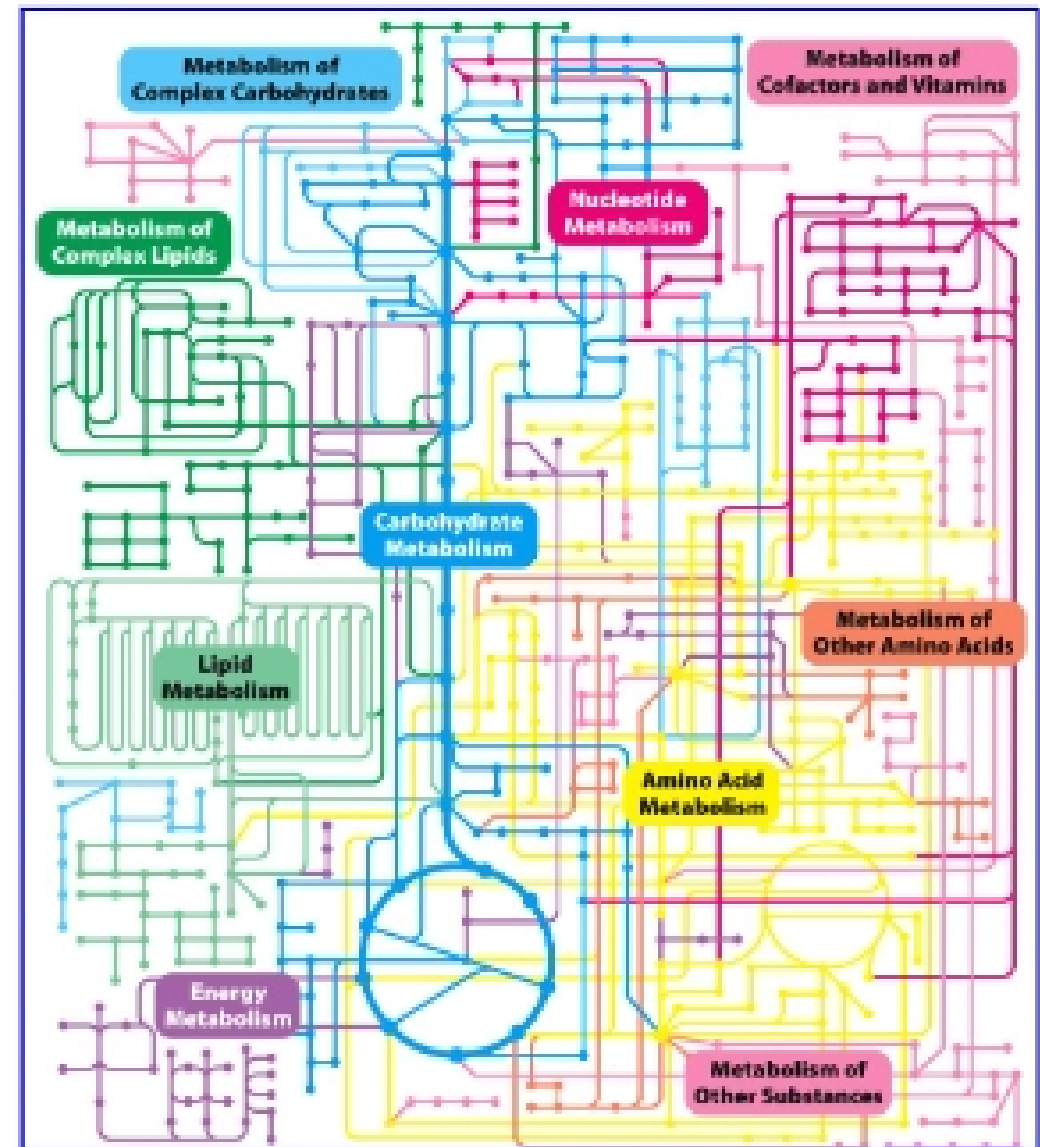
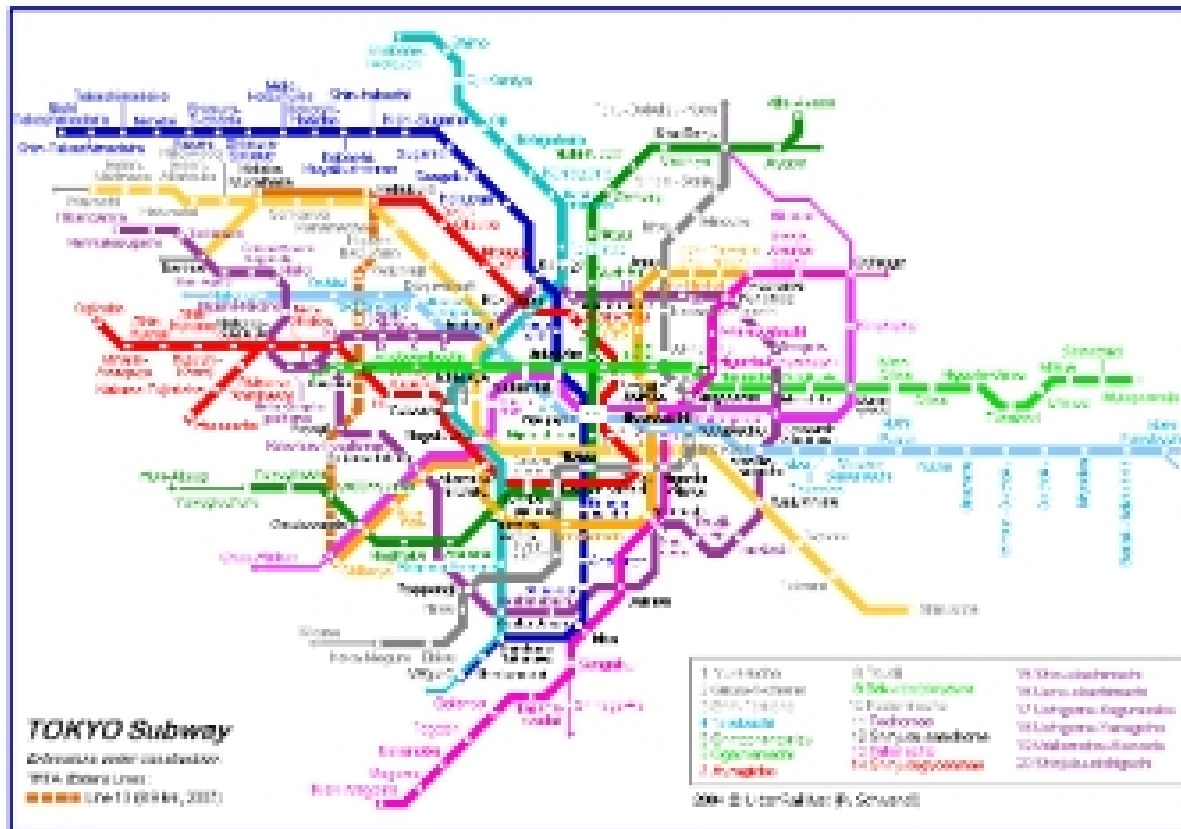
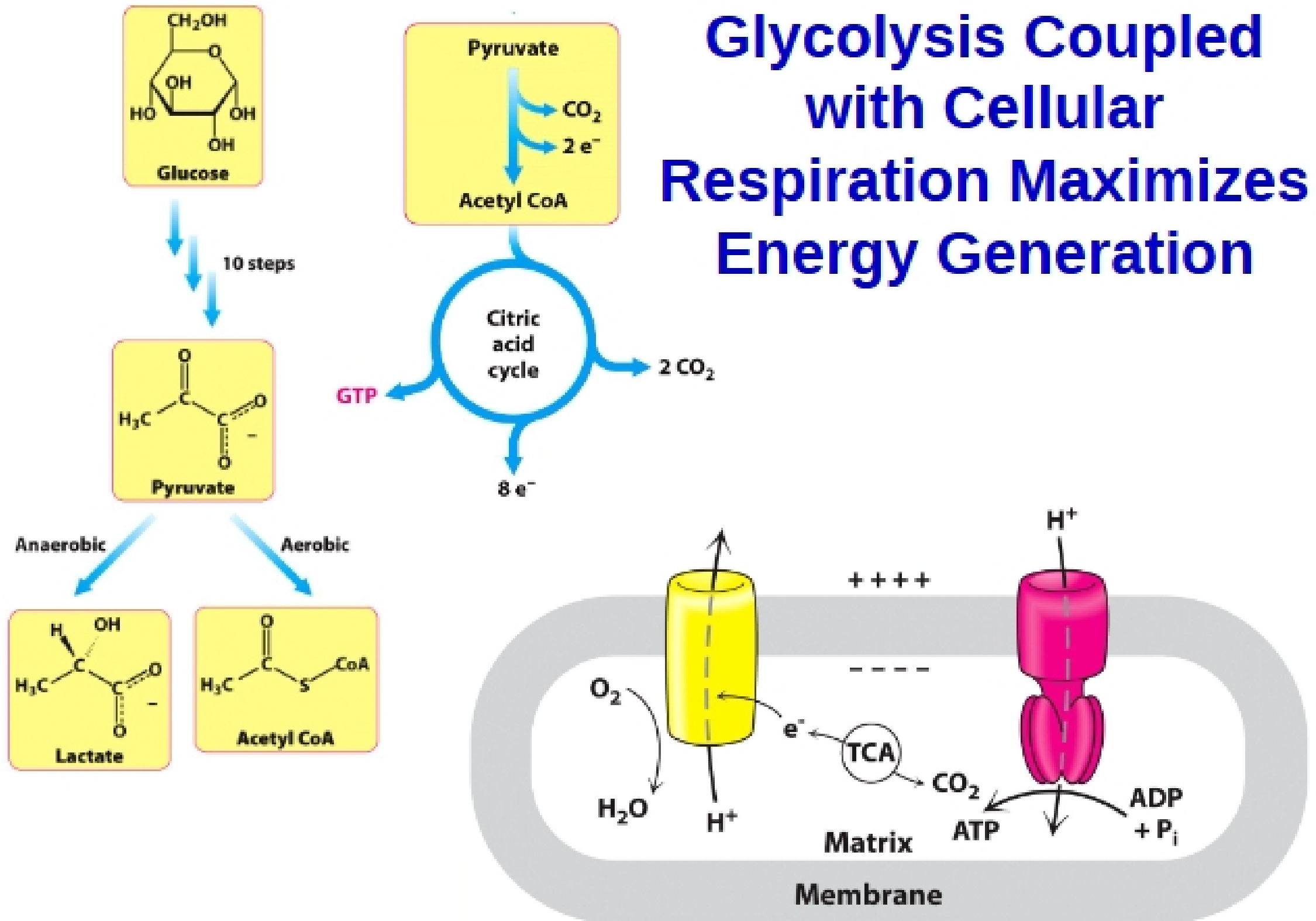


Transit and Metabolic Maps: Complex and Functional

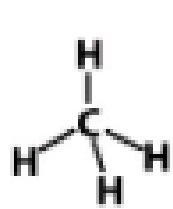


Glycolysis Coupled with Cellular Respiration Maximizes Energy Generation

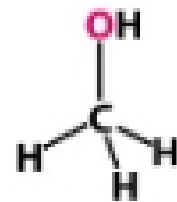


Carbon Oxidation is Coupled with Energy Rich Reduction

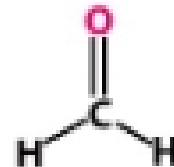
Most energy \longrightarrow Least energy



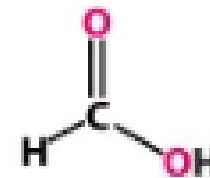
Methane



Methanol



Formaldehyde



Formic acid



Carbon dioxide

$\Delta G'_{\text{oxidation}}$
(kJ mol⁻¹)

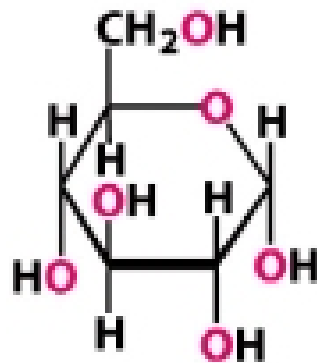
-820

-703

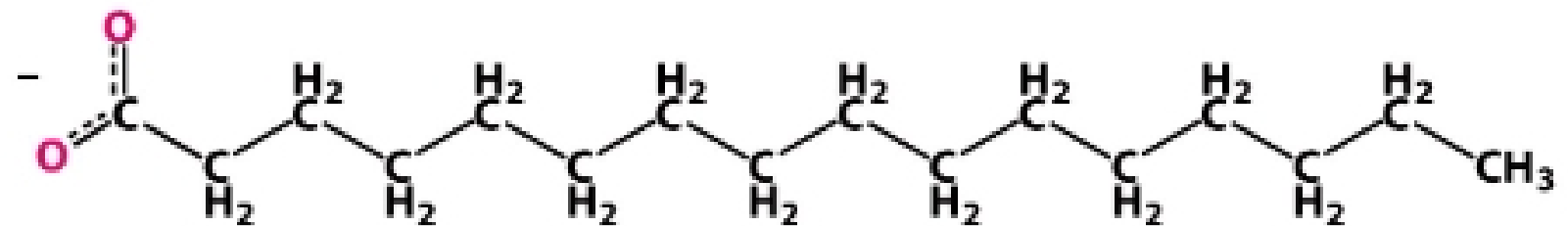
-523

-285

0



Glucose



Fatty acid

Which molecule is more energy rich on a per carbon basis?