

USING THE KYOTO ENCYCLOPEDIA OF GENES AND GENOMES (KEGG)  
WEBSITE

We will be using the KEGG website to find the sequences of the enzymes chosen from each of three pathways: glycolysis, citric acid cycle, and oxidative phosphorylation.

Finding the pathway

1. Go to [www.genome.jp/kegg/](http://www.genome.jp/kegg/)
2. Click on **pathway**
3. Find glycolysis and citrate cycle under Carbohydrate Metabolism, and oxidative phosphorylation under Energy Metabolism.
4. Click on desired pathway

Finding the enzymes' sequences

5. Click on **E.C. # of enzyme**
6. Go to edit. Click on **finding on this page**, and in the box that opens, type the name of the organism that we are going to analyze, in this case type Sil for Ruegeria pomeroyi.
7. Copy the AA sequence
8. Go to the Roseobase web site ([www.roseobase.org/blast/APBio.html](http://www.roseobase.org/blast/APBio.html))
9. Click on BLAST

Follow directions as explained on the BLAST handout.