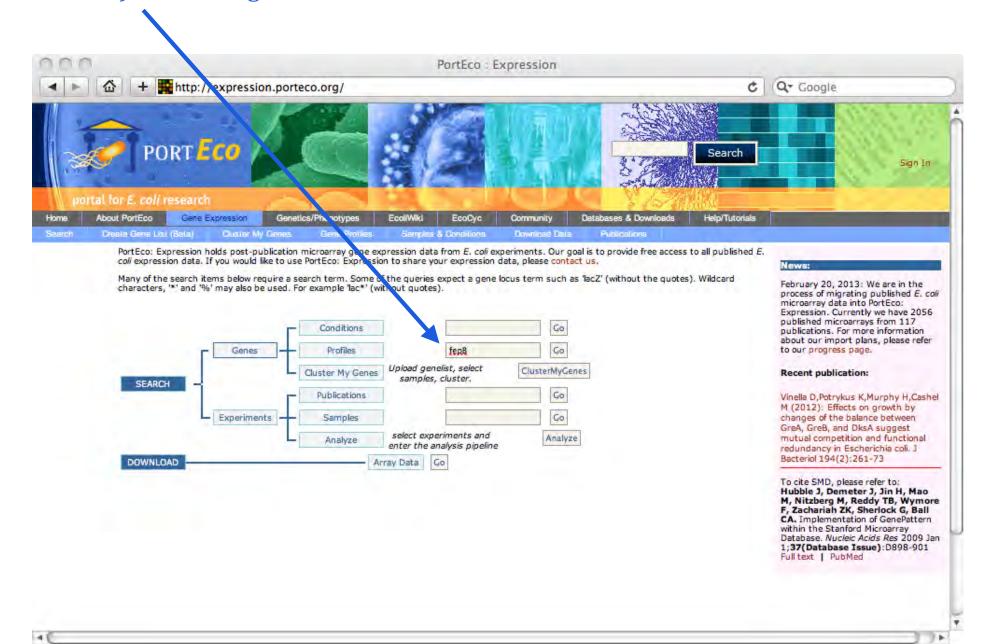
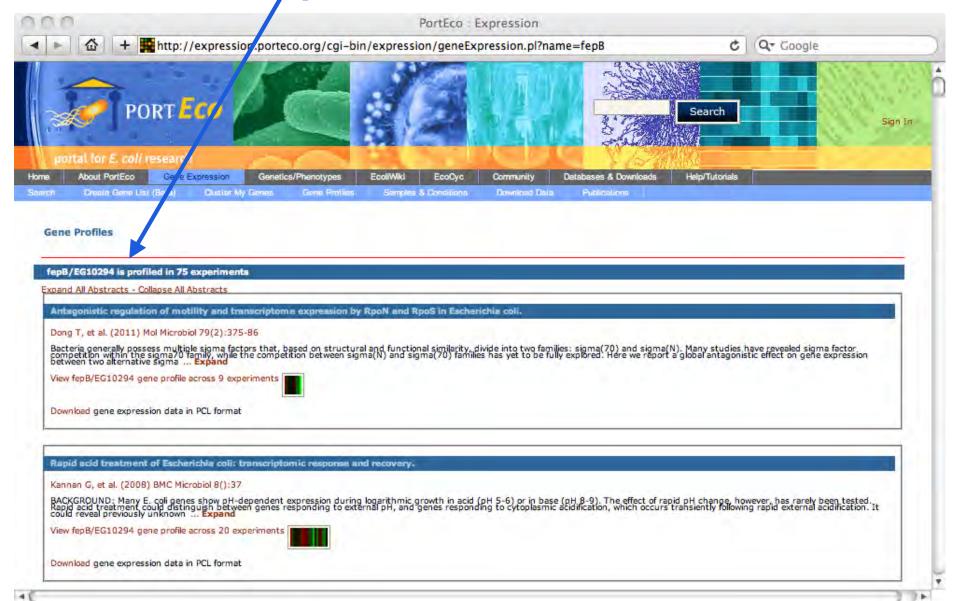
Find papers where a gene is differentially expressed

1) Click here to go to the expression page PortEco: portal for E. coli research + A http://www.porteco.org/ Q- Google search Databases & Downloads PortEco is a next-generation data resource for the bacterial model organism, Escherichia WHAT CAN I DO? [Read more...] Find data for a particular gene PortEco Resources Search Pathway/Genome Databases for 130 E. coli genomes are available at BioCyc.org including curated databases for E. coli B Rel 606 and E. coli W3110 EcoliHouse provides a publicly queryable MySQL database warehouse for E. coli data Community features including colleague search, event calendar, job postings E. coli systems models at BioModels Find and analyze datasets PortEco data downloads and database access PortEco also supports manual curation of Gene Ontology terms from published papers at Browse and select experimental conditions or specific Optionally specify a list of genes PortEco News and Events Cluster selected datasets Find genes with significant phenotypes or expression Bioinformatics ?office hours? at the Phage Meeting in selected datasets PortEco blog > PortEco: by jimhu (1 month ago.): Phenotype Data Expression Data We will be having "bioinformatics office hou...[Read more...] Ribosome profiling phage lambda induction PortEco blog > PortEco: by jimhu (1 month ago.): Browse and search other datasets The lysis-lysogeny switch of bacteriophage lambda ... [Read more...] Browse and search other high-throughput datasets Bioinformatics ?office hours? at the Phage Meeting available in a genome browser PortEco blog * PortEco: by jimhu (1 month ago.): We will be having "bioinformatics office hou...[Read more...] Ribosome profiling phage lambda induction PortEco blog » PortEco: by jimhu (1 month ago.): The lysis-lysogeny switch of bacteriophage lambda ... [Read more...]

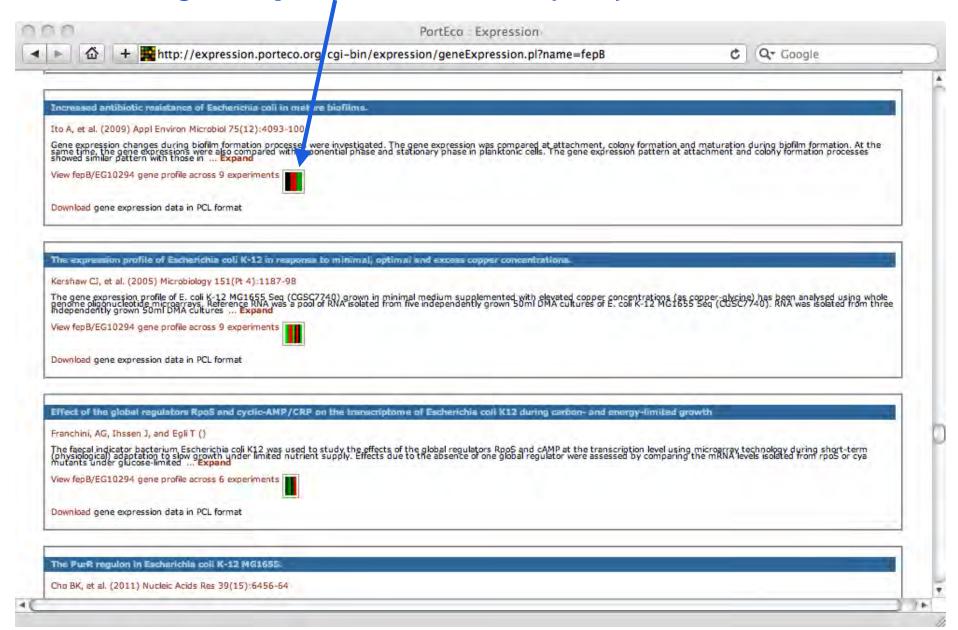
2) Enter the gene name in the Profiles search box and click 'Go'



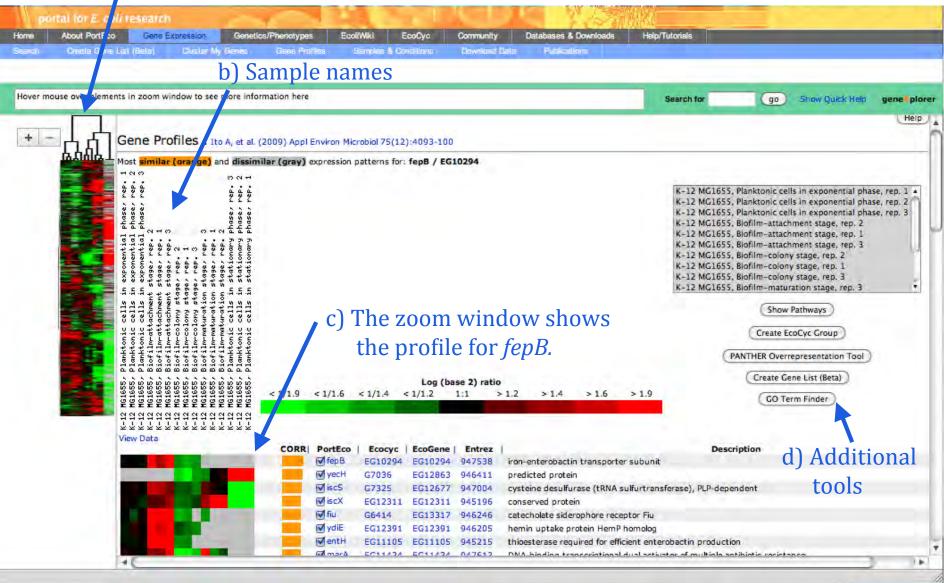
3) *fepB* is differentially expressed in 75 experiment sets. Scroll down to browse the experiment sets and find one of interest.



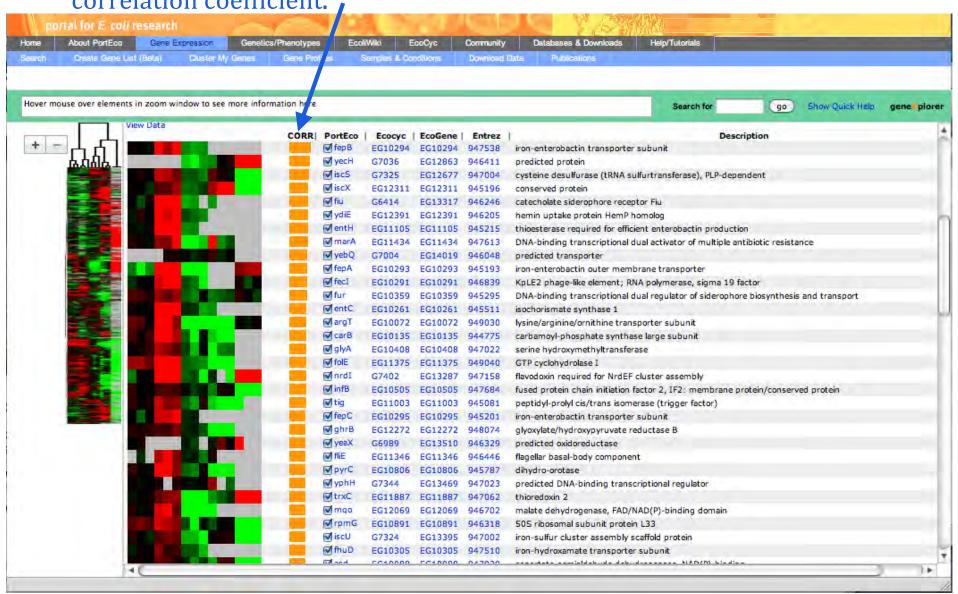
4) Let's look at how *fepB* is expressed during biofilm maturation by clicking on the profile icon for Ito et al. (2009).



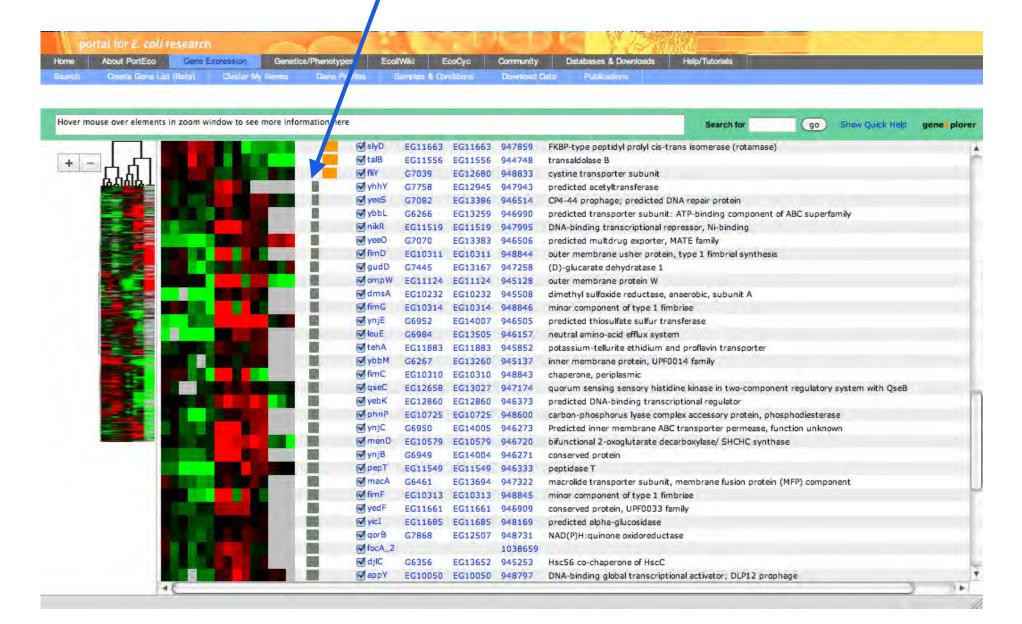
- 5) Gene profile displaying the log₂ expression ratios across 15 samples.
 - a) Heat map for the entire experiment. Use the '+' and '-' buttons to resize the display.



6) This display also shows the \log_2 expression ratios for genes whose expression is correlated (this page) or anticorrelated (next page) with *fepB*. Mouse over the orange (or gray) box in the Correlation column to see the correlation coefficient.

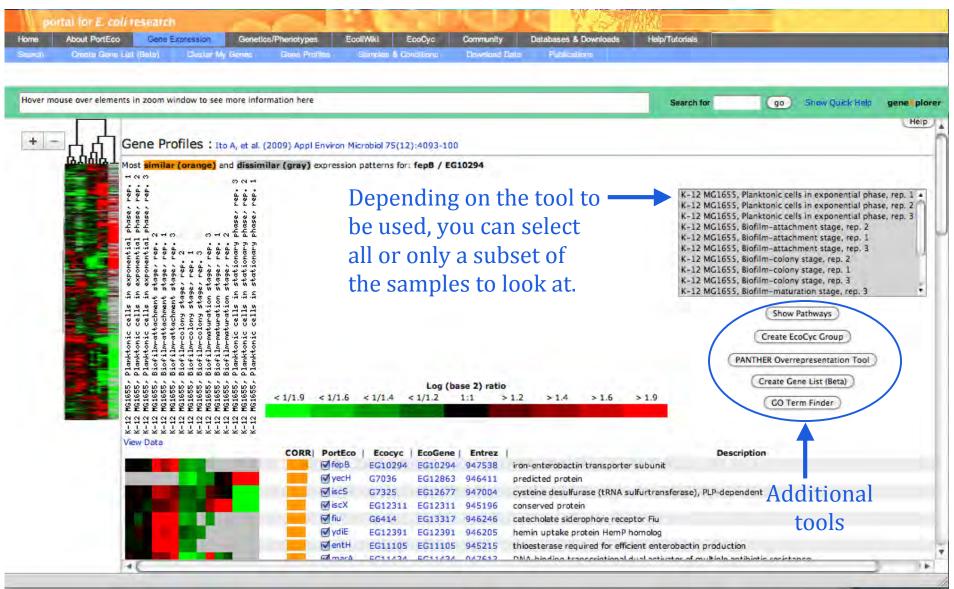


7) Genes whose expression profile is anticorrelated with that of *fepB* are marked by gray boxes.



8) The correlated and anticorrelated genes can be examined further using one of the tools highlighted below.

The next slide shows the result of clicking the 'GO Term Finder'.



9) The group of genes including *fepB* and genes expressed like *fepB* is enriched for the biological process of 'iron ion homeostasis'.

