**Step 1:**

**1.1 Download genome sequence from NCBI**

**NCBI : https://www.ncbi.nlm.nih.gov/**

**Strain name : Pseudomonas stutzeri A1501**

**Taxonomy ID : 379731**

**1.2 Upload genome sequence to RAST and construct the draft model**

**RAST : http://rast.nmpdr.org/**

**ModelSEED : http://modelseed.org/**

**RAST and ModelSEED Account (same):**

**User : yuanqianqian**

**Password : 123456**

**Step 2:**

**2.1 Log in http://49.4.23.198:8888/**

**password: 123456**

**2.2 Create folder for yourself, name it use your own name**

**2.3 Copy qualitycontrol-workflow-eng.ipynb and metnet.py to your own folder.**

**Then run the file of qualitycontrol-workflow-eng.ipynb to revise the draft model step by step.**

**Visualization of pathways from FBA analysis:**

**http://www.ibiodesign.net/fbapathvis/**