

Science in KBase

The Department of Energy Systems Biology Knowledgebase (KBase) is a free, collaborative, and open source environment for systems biology analysis of plants, microbes, and their communities. KBase requires no prior experience or knowledge of coding to use! See below for some of our most popular features.



Search, organize, and perform large-scale analysis of biological data sets



Assemble and annotate microbial genomes and functionally annotate plant genomes



Build and validate metabolic models and then analyze the flux through the system



Analyze RNA-seq, expression data, and transcriptomics



Carry out comparative and phylogenetic analysis and investigate sequence homology



Make your research reproducible, accessible, and reusable



Add your own open-source tools to the KBase system and get cited in publications

Create a free account today at kbase.us



KBase Apps for Data Analysis

The figure below outlines major workflows and datatypes within KBase. Unboxed labels are datatypes, colored boxes represent Apps, colors signify the functional category, numbers indicate the quantity of alternative apps implementing each function, and "G" denotes Apps requiring genomes as input.

