Proteome Comparison tool

Bidirectional BLAST analysis of up to 9 genomes

First description of tool

Nucleic Acids Research

Nucleic Acids Res. 2014 Jan 1; 42(Database issue): D206-D214.

Published online 2013 Nov 29. doi: 10.1093/nar/gkt1226

PMCID: PMC3965101

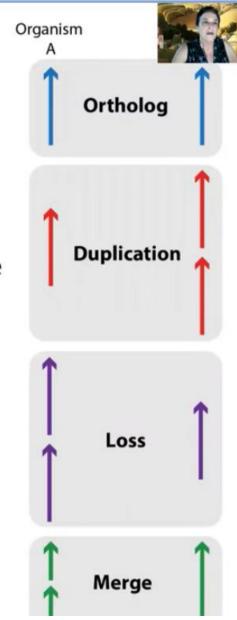
PMID: 24293654

The SEED and the Rapid Annotation of microbial genomes using Subsystems Technology (RAST)

Ross Overbeek, 1,2 Robert Olson, 2,3 Gordon D. Pusch, 1 Gary J. Olsen, 4 James J. Davis, 2,3 Terry Disz, 2,3 Robert A. Edwards, 5 Svetlana Gerdes, 1,2 Bruce Parrello, 1,2 Maulik Shukla, 6 Veronika Vonstein, 1,2,* Alice R. Wattam, 6 Fangfang Xia, 2,3 and Rick Stevens 3,7,8

BLAST hits

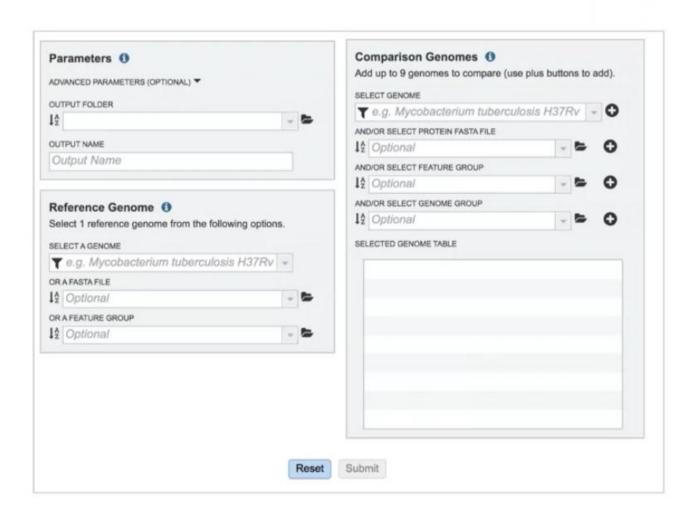
- Best Bidirectional BLAST hits
 - Also known as reciprocal best hit
 - Can be called as orthologs between two species that are more similar
- Unidirectional BLAST hits
 - Paralogs
 - Indicative of duplication event, a loss or even merged genes



Input data

One reference and 9 comparison genomes

- Different types of reference data
- Different types up comparison data



Downloadable files

