

WebPartiGene - Usage Document

What is WebPartiGene?

WebPartiGene is a tool that generates HTML, php and CGI scripts that together form a web based interface to PartiGene relational databases. WebPartiGene allows specific clusters to be retrieved from the PartiGene database by entering either a cluster identifier or an EST identifier. The BLAST annotation text can also be searched and limited by BLAST score. Selected clusters are displayed in graphical format, showing the alignment of constituent sequences. The display includes links to full BLAST reports, phrap assembly quality files and public depository database files. WebPartiGene is fully compatible with multi-species PartiGene databases.

Requirements

=> Web server - In order to set up web pages you need to have a HTTP server (such as apache) running. The HTTP server must be configured to handle CGI scripts and PHP scripts. See you HTTP server documentation for details or ask you system administrator for advice.

=> PHP - You must have PHP installed and compiled with the GD library of image functions.

=> HTML directory - WebPartiGene will ask for the directory you wish to serve the pages from. You must ensure that this directory has the correct permissions to allow appropriate access to it.

Installation

=> Download WebPartiGene.tar.gz from <http://www.nematodes.org/PartiGene>

=> 'gunzip WebPartiGene.tar.gz' followed by 'tar xvf WebPartiGene.tar' will create the directory 'WebPartiGene' containing all necessary files.

Usage

From the install directory run the setup script by typing:
'WebPartiGene_setup.pl'

The setup script will preform some quick checks to ensure that an HTTP service is running and then ask for information about the PartiGene database you wish to webify. WebPartiGene will then setup a directory for its scripts within your designated web pages directory. WebPartiGene will then query the PartiGene database for cluster identifiers. For each cluster identifier found you will be asked to provide the full species name, location of the BLAST reports (carried out in PartiGene) and the location of the phrap directory (again from PartiGene). Finally, you will be asked for an image that can be used on the web pages, if you don't have one a default image will be used.

A detailed example of how WebPartiGene_setup.pl can be used is given in the document "WebPartiGene_demo".

WebPartiGene is under continued development and more search features will be added soon. Help and further information can be obtained by emailing helpdesk@envgen.nox.ac.uk (only for NERC EG-grant awardees) or nematode.bioinf@ed.ac.uk.