

Resource Summary Report

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SYSTOMONAS: SYSTems biology of pseudOMONAS

RRID:SCR_007958

Type: Tool

Proper Citation

SYSTOMONAS: SYSTems biology of pseudOMONAS (RRID:SCR_007958)

Resource Information

URL: <http://systomonas.tu-bs.de/>

Proper Citation: SYSTOMONAS: SYSTems biology of pseudOMONAS (RRID:SCR_007958)

Description: SYSTOMONAS is a comprehensive database of molecular networks in Pseudomonas focusing on Pseudomonas aeruginosa. We use a systems biology approach to get a deeper understanding of all cellular processes of P. aeruginosa during infection. Our long term goal is the development of a dynamic model simulating P. aeruginosa during infection. The basis for such an approach is SYSTOMONAS, a comprehensive database that includes systems data from all levels of analysis as microarray and proteomics data, metabolite measurements, sequence data, gene-regulatory networks and enzyme data. Therefore, we started with metabolomics analysis and extended to transcriptomics, genomics, and proteomics aspects. Along with the wet lab results additional data is stored, which is extracted from literature or derived from other external databases. Major sources of SYSTOMONAS are KEGG, PRODORIC, BRENDA (see section "Sources"), which are partly stored via the data warehouse system and partly dynamically connected via SOAP, a platform-independent data transfer protocol. Comparing a Pseudomonas protein of interest with other well-characterized proteins may deliver useful insights into the evolution, distribution, and species specific function. Therefore, we searched for all deduced proteins of the SYSTOMONAS database for orthologous proteins in other Pseudomonas species to obtain orthologous protein clusters. Pseudomonas aeruginosa, systems biology, transcriptomics, genomics, proteomics

Abbreviations: SYSTOMONAS

Synonyms: SYSTOMONAS genome Database

Resource Type: data or information resource, database

Keywords: genomics, proteomics, pseudomonas aeruginosa, systems biology, transcriptomics

Resource Name: SYSTOMONAS: SYSTems biology of pseudOMONAS

Resource ID: SCR_007958

Alternate IDs: nif-0000-03529

Old URLs: <http://www.systomonas.de>

Record Creation Time: 20220129T080244+0000

Record Last Update: 20260801T191009+0000

Ratings and Alerts

No rating or validation information has been found for SYSTOMONAS: SYSTems biology of pseudOMONAS.

No alerts have been found for SYSTOMONAS: SYSTems biology of pseudOMONAS.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.