Resource Summary Report

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DOLOP: A Database of Bacterial Lipoproteins

RRID:SCR_013487
Type: Tool

Proper Citation

DOLOP: A Database of Bacterial Lipoproteins (RRID:SCR_013487)

Resource Information

URL: http://www.mrc-lmb.cam.ac.uk/genomes/dolop/

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Description: DOLOP is an exclusive knowledge base for bacterial lipoproteins by processing information from 510 entries to provide a list of 199 distinct lipoproteins with relevant links to molecular details. Features include functional classification, predictive algorithm for query sequences, primary sequence analysis and lists of predicted lipoproteins from 43 completed bacterial genomes along with interactive information exchange facility. This website along will have additional information on the biosynthetic pathway, supplementary material and other related figures. DOLOP also contains information and links to molecular details for about 278 distinct lipoproteins and predicted lipoproteins from 234 completely sequenced bacterial genomes. Additionally, the website features a tool that applies a predictive algorithm to identify the presence or absence of the lipoprotein signal sequence in a user-given sequence. The experimentally verified lipoproteins have been classified into different functional classes and more importantly functional domain assignments using hidden Markov models from the SUPERFAMILY database that have been provided for the predicted lipoproteins. Other features include: primary sequence analysis, signal sequence analysis, and search facility and information exchange facility to allow researchers to exchange results on newly characterized lipoproteins.

Synonyms: DOLOP

Resource Type: storage service resource, data or information resource, service resource, database, data repository

Keywords: figure, functional, algorithm, analysis, bacterial, biosynthetic, classification, genome, lipid, lipoprotein, modification, molecular, molecule, pathogenesis, predictive, primary, prokaryote, query, sequence, signal

Funding:

Resource Name: DOLOP: A Database of Bacterial Lipoproteins

Resource ID: SCR_013487

Alternate IDs: nif-0000-21124

Record Creation Time: 20220129T080316+0000

Record Last Update: 20250509T060034+0000

Ratings and Alerts

No rating or validation information has been found for DOLOP: A Database of Bacterial Lipoproteins.

No alerts have been found for DOLOP: A Database of Bacterial Lipoproteins.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Xue RY, et al. (2019) Synthetic Lipopeptide Enhances Protective Immunity Against Helicobacter pylori Infection. Frontiers in immunology, 10, 1372.

Gasperini G, et al. (2018) Outer Membrane Vesicles (OMV)-based and Proteomics-driven Antigen Selection Identifies Novel Factors Contributing to Bordetella pertussis Adhesion to Epithelial Cells. Molecular & cellular proteomics : MCP, 17(2), 205.

González LJ, et al. (2016) Membrane anchoring stabilizes and favors secretion of New Delhi metallo-?-lactamase. Nature chemical biology, 12(7), 516.

Scuotto A, et al. (2016) In silico mining and characterization of bifidobacterial lipoprotein with CHAP domain secreted in an aggregated form. International journal of biological macromolecules, 82, 653.

Hu X, et al. (2015) Identification and characterization of a novel stress-responsive outer membrane protein Lip40 from Actinobacillus pleuropneumoniae. BMC biotechnology, 15, 106.

Méndez JA, et al. (2015) Quantitative proteomic analysis of host--pathogen interactions: a study of Acinetobacter baumannii responses to host airways. BMC genomics, 16(1), 422.

Karlsen OA, et al. (2011) Methylococcus capsulatus (Bath) from genome to protein function, and vice versa. Methods in enzymology, 495, 63.

Callewaert L, et al. (2008) A new family of lysozyme inhibitors contributing to lysozyme tolerance in gram-negative bacteria. PLoS pathogens, 4(3), e1000019.