Resource Summary Report

Generated by dkNET on Apr 24, 2025

CoryneRegNet

RRID:SCR_002255
Type: Tool

Proper Citation

CoryneRegNet (RRID:SCR_002255)

Resource Information

URL: http://www.coryneregnet.de

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Description: Reference database and analysis platform for corynebacterial transcription factors and gene regulatory networks. It generates links to genome annotations, to identified transcription factors and to the corresponding cis-regulatory elements. CoryneRegNet is based on a multi-layered, hierarchical and modular concept of transcriptional regulation and was implemented by using the relational database management system MySQL and an ontology-based data structure.

Abbreviations: CoryneRegNet

Resource Type: database, data or information resource

Defining Citation: PMID:22080556, PMID:19498379, PMID:18426593, PMID:17986320, PMID:17229482, PMID:16478536

Keywords: gene, regulatory network, transcription factor, interaction, cis-regulatory element, bio.tools

Funding:

Availability: Public

Resource Name: CoryneRegNet

Resource ID: SCR_002255

Alternate IDs: biotools:coryneregnet, nif-0000-02689, OMICS_01858

Alternate URLs: https://bio.tools/coryneregnet

Record Creation Time: 20220129T080212+0000

Record Last Update: 20250423T060026+0000

Ratings and Alerts

No rating or validation information has been found for CoryneRegNet.

No alerts have been found for CoryneRegNet.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Parise D, et al. (2021) On the Consistency between Gene Expression and the Gene Regulatory Network of Corynebacterium glutamicum. Network and systems medicine, 4(1), 51.

Graf M, et al. (2019) Continuous Adaptive Evolution of a Fast-Growing Corynebacterium glutamicum Strain Independent of Protocatechuate. Frontiers in microbiology, 10, 1648.

Haas T, et al. (2019) Identifying the Growth Modulon of Corynebacterium glutamicum. Frontiers in microbiology, 10, 974.

Ibraim IC, et al. (2019) Transcriptome profile of Corynebacterium pseudotuberculosis in response to iron limitation. BMC genomics, 20(1), 663.

Ko YJ, et al. (2018) Biosynthesis of organic photosensitizer Zn-porphyrin by diphtheria toxin repressor (DtxR)-mediated global upregulation of engineered heme biosynthesis pathway in Corynebacterium glutamicum. Scientific reports, 8(1), 14460.

Lee HN, et al. (2018) Corynebacterium Cell Factory Design and Culture Process Optimization for Muconic Acid Biosynthesis. Scientific reports, 8(1), 18041.

Dostálová H, et al. (2018) Overlap of Promoter Recognition Specificity of Stress Response Sigma Factors SigD and SigH in Corynebacterium glutamicum ATCC 13032. Frontiers in

microbiology, 9, 3287.

Catarina Teodoro Castro B, et al. (2018) UvrB protein of Corynebacterium pseudotuberculosis complements the phenotype of knockout Escherichia coli and recognizes DNA damage caused by UV radiation but not 8-oxoguanine in vitro. Gene, 639, 34.

Zhang H, et al. (2018) Understanding the high L-valine production in Corynebacterium glutamicum VWB-1 using transcriptomics and proteomics. Scientific reports, 8(1), 3632.

O'Neill PK, et al. (2016) Parametric bootstrapping for biological sequence motifs. BMC bioinformatics, 17(1), 406.

Lubitz D, et al. (2016) Ciprofloxacin triggered glutamate production by Corynebacterium glutamicum. BMC microbiology, 16(1), 235.

Taniguchi H, et al. (2015) Exploring the role of sigma factor gene expression on production by Corynebacterium glutamicum: sigma factor H and FMN as example. Frontiers in microbiology, 6, 740.

Rees MA, et al. (2015) Changes in protein abundance are observed in bacterial isolates from a natural host. Frontiers in cellular and infection microbiology, 5, 71.

Pacheco LG, et al. (2012) A Role for Sigma Factor ?(E) in Corynebacterium pseudotuberculosis Resistance to Nitric Oxide/Peroxide Stress. Frontiers in microbiology, 3, 126.

Heider SA, et al. (2012) Carotenoid biosynthesis and overproduction in Corynebacterium glutamicum. BMC microbiology, 12, 198.

Baumbach J, et al. (2007) CoryneRegNet 4.0 - A reference database for corynebacterial gene regulatory networks. BMC bioinformatics, 8, 429.