Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 29, 2025

antiSMASH

RRID:SCR_022060 Type: Tool

Proper Citation

antiSMASH (RRID:SCR_022060)

Resource Information

URL: https://antismash.secondarymetabolites.org/#!/start

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Description: Web tool for detecting and characterising biosynthetic gene clusters in bacteria and fungi. AntiSMASH 6 increases number of supported cluster types from 58 to 71, displays modular structure of multi modular BGCs, adds new BGC comparison algorithm, allows for integration of results from other prediction tools, and detects tailoring enzymes in RiPP clusters.

Synonyms: antiSMASH 6.0

Resource Type: data access protocol, software resource, web service

Defining Citation: PMID:33978755

Keywords: biosynthetic gene clusters, detecting and characterising biosynthetic gene clusters, gene cluster, bacteria gene cluser, fungi gene cluster

Funding: Novo Nordisk Foundation ; Danish National Research Foundation ; Netherlands Organization for Scientific Research

Availability: Free, Freely available

Resource Name: antiSMASH

Resource ID: SCR_022060

License: GNU Affero General Public License (AGPL) v3.0

Record Creation Time: 20220421T050138+0000

Record Last Update: 20250429T060133+0000

Ratings and Alerts

No rating or validation information has been found for antiSMASH.

No alerts have been found for antiSMASH.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Park SY, et al. (2023) Anti-Obesity Potential through Regulation of Carbohydrate Uptake and Gene Expression in Intestinal Epithelial Cells by the Probiotic Lactiplantibacillus plantarum MGEL20154 from Fermented Food. Journal of microbiology and biotechnology, 33(5), 621.

Moshe M, et al. (2023) Comparative genomics of Bacillus cereus sensu lato spp. biocontrol strains in correlation to in-vitro phenotypes and plant pathogen antagonistic capacity. Frontiers in microbiology, 14, 996287.

Gattoni G, et al. (2023) Biosynthetic gene profiling and genomic potential of the novel photosynthetic marine bacterium Roseibaca domitiana. Frontiers in microbiology, 14, 1238779.

Gattoni G, et al. (2022) Genomic study and lipidomic bioassay of Leeuwenhoekiella parthenopeia: A novel rare biosphere marine bacterium that inhibits tumor cell viability. Frontiers in microbiology, 13, 1090197.

Nagel JH, et al. (2021) Increased abundance of secreted hydrolytic enzymes and secondary metabolite gene clusters define the genomes of latent plant pathogens in the Botryosphaeriaceae. BMC genomics, 22(1), 589.

Atencio LA, et al. (2020) Genome Mining, Microbial Interactions, and Molecular Networking Reveals New Dibromoalterochromides from Strains of Pseudoalteromonas of Coiba National Park-Panama. Marine drugs, 18(9).

Sazinas P, et al. (2019) A Rare Thioquinolobactin Siderophore Present in a Bioactive

Pseudomonas sp. DTU12.1. Genome biology and evolution, 11(12), 3529.