Resource Summary Report

Generated by NIF on Apr 23, 2025

Comstat

RRID:SCR_014566

Type: Tool

Proper Citation

Comstat (RRID:SCR_014566)

Resource Information

URL: http://www.comstat.dk/

Proper Citation: Comstat (RRID:SCR_014566)

Description: A software that is used to analyze image stacks of biofilms that were recorded by confocal microscopes. While this program does not have any statistical calculation methods, it can extract a number of quantitative parameters from the images. This software was initially developed by Arne Heydorn and Bjarne Ersboll as a MatLab script until it was expanded into an independent software in 2008.

Resource Type: software resource, data processing software, image analysis software, software application

Keywords: image stack, biofilms, confocal microscope, image analysis, biofilm, quantitative parameter

Funding:

Availability: Open Source with sign-up

Resource Name: Comstat

Resource ID: SCR_014566

License: Information on main website

License URLs: http://www.comstat.dk/

Record Creation Time: 20220129T080321+0000

Record Last Update: 20250422T055805+0000

Ratings and Alerts

No rating or validation information has been found for Comstat.

No alerts have been found for Comstat.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 405 mentions in open access literature.

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

Zhou L, et al. (2025) Targeted antimicrobial self-assembly peptide hydrogel with in situ biomimic remineralization for caries management. Bioactive materials, 44, 428.

Pakkulnan R, et al. (2024) d-Methionine-induced DNases disperse established Burkholderia pseudomallei biofilms and promotes ceftazidime susceptibility. Biofilm, 8, 100213.

Min KJ, et al. (2024) Effect of settling time and organic loading rates on aerobic granulation processes treating high strength wastewater. Heliyon, 10(16), e36018.

Gutierrez MdIP, et al. (2024) BvgR is important for virulence-related phenotypes in Bordetella bronchiseptica. Microbiology spectrum, 12(11), e0079424.

Chen B, et al. (2024) Isolation and Antibiofilm Activity of Bacteriophages against Cutibacterium acnes from Patients with Periprosthetic Joint Infection. Viruses, 16(10).

D'Angelo C, et al. (2024) Cold-Azurin, a New Antibiofilm Protein Produced by the Antarctic Marine Bacterium Pseudomonas sp. TAE6080. Marine drugs, 22(2).

Babich TL, et al. (2024) Microbial and Monosaccharide Composition of Biofilms Developing on Sandy Loams from an Aquifer Contaminated with Liquid Radioactive Waste. Microorganisms, 12(2).

Gao Y, et al. (2024) The effect of light intensity on microalgae biofilm structures and physiology under continuous illumination. Scientific reports, 14(1), 1151.

Luo Z, et al. (2024) Enhanced Bacterial Cuproptosis-Like Death via Reversal of Hypoxia Microenvironment for Biofilm Infection Treatment. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(19), e2308850.

Calvanese M, et al. (2024) Recombinant protein production in Pseudoalteromonas haloplanktis TAC125 biofilm. Biofilm, 7, 100179.

Xie H, et al. (2024) Characterization of Al-2/LuxS quorum sensing system in biofilm formation, pathogenesis of Streptococcus equi subsp. zooepidemicus. Frontiers in cellular and infection microbiology, 14, 1339131.

Jia T, et al. (2024) Hfq-binding small RNA PqsS regulates Pseudomonas aeruginosa pqs quorum sensing system and virulence. NPJ biofilms and microbiomes, 10(1), 82.

Pandit S, et al. (2024) Usnic acid brief exposure suppresses cariogenic properties and complexity of Streptococcus mutans biofilms. Biofilm, 8, 100241.

Lu R, et al. (2024) A Multifunctional Tissue-Engineering Hydrogel Aimed to Regulate Bacterial Ferroptosis-Like Death and Overcoming Infection Toward Bone Remodeling. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(30), e2309820.

Wang J, et al. (2024) Quorum-quenching enzyme Est816 assisted antibiotics against periodontitis induced by Aggregatibacter actinomycetemcomitans in rats. Frontiers in cellular and infection microbiology, 14, 1368684.

Liu Y, et al. (2024) Tetrahedral framework nucleic acid-based small-molecule inhibitor delivery for ecological prevention of biofilm. Cell proliferation, 57(9), e13678.

Lee E, et al. (2024) Effect of cations on aerobic granulation for sidestream treatment. Heliyon, 10(17), e37216.

Huang M-B, et al. (2024) SMR peptide antagonizes Staphylococcus aureus biofilm formation. Microbiology spectrum, 12(2), e0258323.

Li P, et al. (2024) Investigation of a novel biofilm model close to the original oral microbiome. Applied microbiology and biotechnology, 108(1), 330.

Liu X, et al. (2024) Characterization of glycogen-related glycoside hydrolase glgX and glgB from Klebsiella pneumoniae and their roles in biofilm formation and virulence. Frontiers in cellular and infection microbiology, 14, 1507332.