

Resource Summary Report

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Comstat

RRID:SCR_014566

Type: Tool

Proper Citation

Comstat (RRID:SCR_014566)

Resource Information

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

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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 application, image analysis software, software resource, data processing software

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

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: 20260728T043443+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 436 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Huang F, et al. (2025) Anti-cariogenic activity of mutanocyclin, a secondary metabolite of *Streptococcus mutans*, in mono- and multispecies biofilms. *Microbiology spectrum*, 13(8), e0018325.

Pingueiro JMS, et al. (2025) Brazilian red propolis as a potential antimicrobial additive in orthodontic primers. *Brazilian dental journal*, 36, e246036.

Bosch C, et al. (2025) Identification of the methionine transporter MetQ in *Streptococcus suis* and its contribution to virulence and biofilm formation. *Veterinary research*, 56(1), 99.

Zhou Y, et al. (2025) Berberine chloride hydrate impairs *Streptococcus mutans* biofilm formation via inhibiting sortase A activity. *NPJ biofilms and microbiomes*, 11(1), 120.

Cheng X, et al. (2025) Carbonizing technology enables *Sanguisorbae Radix* to inhibit yeast-to-hypha differentiation and biofilm formation in *Candida albicans*. *PloS one*, 20(10), e0334659.

Zheng Y, et al. (2025) ROS-induced allosteric modulation of NikR promotes *Helicobacter pylori* biofilm formation by attenuating FlgR-dependent inhibition of the molybdate transport system. *Virulence*, 16(1), 2589562.

Scardino A, et al. (2025) Cinnamaldehyde effectively disrupts *Desulfovibrio vulgaris* biofilms: potential implication to mitigate microbiologically influenced corrosion. *Applied and environmental microbiology*, 91(5), e0220024.

Liu Q, et al. (2025) Antimicrobial Peptide P-113-DPS Suppresses the Cariogenic Virulence of *Streptococcus mutans*. *ACS applied bio materials*, 8(6), 4973.

Roy S, et al. (2025) A rational approach to discovering new persister control agents. *Antimicrobial agents and chemotherapy*, 69(9), e0181424.

Yang L, et al. (2025) d-Histidine inhibits *Streptococcus mutans* growth as a potential anti-caries agent. *Journal of oral microbiology*, 17(1), 2533174.

Madduri M, et al. (2025) *Bacillus*-derived lipopeptides inhibit and eradicate *Candida tropicalis* Biofilms: An in vitro exploration. *Biofilm*, 10, 100294.

Ortiz J, et al. (2025) Unraveling novel insights into dual-species cariogenic biofilm formation on aged teeth: a comparative analysis on natural vs artificial bioengineered

dentin models. *Applied and environmental microbiology*, 91(11), e0172125.

Yang Y, et al. (2025) High-Yield Outer Membrane Vesicles Derived From Probiotics as a Nanoplatfrom for Precise Treatment and Prophylaxis of *Pseudomonas aeruginosa* Infection. *Journal of extracellular vesicles*, 14(12), e70194.

Zeng C, et al. (2025) Inhibitory effects of berberine against *Streptococcus mutans*: an in vitro insight on its anticaries potential. *Microbiology spectrum*, 13(9), e0070025.

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

Alc??cer-Almansa J, et al. (2025) *Burkholderia cenocepacia* and *Pseudomonas aeruginosa* in dual-species models: Insights into population distribution, antibiotic susceptibility, and virulence. *Virulence*, 16(1), 2494039.

Saha P, et al. (2025) Unveiling the role of *srbA* sRNA in biofilm formation by regulating *algU*, *mucA*, *rhlA*, and *rsmA* in *Pseudomonas aeruginosa*. *The Biochemical journal*, 482(11), 621.

Wang P, et al. (2025) Effect of rubusoside, a natural sucrose substitute, on the metabolism of *Scardovia wiggisiae*: a novel potential cariogenic pathogen. *BMC biology*, 23(1), 262.

Olimpo D, et al. (2025) Novel Insights Into the Struggle Against Biofilm: The PsyOmp38 Protein From the Antarctic Marine Bacterium *Psychrobacter* sp. TAE2020. *Microbial biotechnology*, 18(10), e70249.

Qin WQ, et al. (2025) The Metabolic and Physiological Responses to Spaceflight of a Lipopeptide-Producing *Bacillus subtilis*. *Microbial biotechnology*, 18(3), e70111.