

Resource Summary Report

Generated by [NIF](#) on Aug 8, 2026

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 resource, software application, image analysis software, 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: 20260808T042803+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 458 mentions in open access literature.

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

Papangeli M, et al. (2026) The post-translational adaptor protein SadB modulates the pathogenicity of *Pseudomonas aeruginosa*. *Journal of bacteriology*, 208(4), e0043725.

Kushwaha P, et al. (2026) Isolation and genomic characterization of a lytic bacteriophage against multidrug-resistant *Proteus mirabilis*. *Applied microbiology and biotechnology*, 110(1).

Shao H, et al. (2026) H₂O₂-producing commensal streptococci disrupt *Streptococcus mutans*-*Candida albicans* synergism. *Applied and environmental microbiology*, 92(6), e0033326.

Sukur EY, et al. (2026) Evaluation of the Remineralisation and Antibacterial Properties of Propolis, Chitosan, and Theobromine. *Oral health & preventive dentistry*, 24, 395.

Mangiaterra G, et al. (2026) Evidence of cefiderocol-persistence in *Pseudomonas aeruginosa* in vitro biofilms and in a murine infection model. *Biofilm*, 11, 100370.

Mahoudeau L, et al. (2026) The interplay between the marine diazotroph *Vibrio diazotrophicus* and its prophage shapes both biofilm structure and nitrogen release. *Applied and environmental microbiology*, 92(1), e0156425.

Pritchard MF, et al. (2026) Epoxytiglanes potentiate the activity of colistin against resistant *Escherichia coli* via modification of the bacterial cell membrane. *mBio*, 17(2), e0231425.

Singh D, et al. (2026) Fragmented but functional: Post-dispersion dynamics and phenotypic variation in dispersed biofilm-associated cells. *Biofilm*, 11, 100353.

Nguyen ANX, et al. (2026) Asiatic acid disrupts biofilm formation and shows additive effect with antibiotic against *Acinetobacter baumannii*. *AMB Express*, 16(1).

Zhang J, et al. (2026) Green-synthesized silver nanoparticles against *Streptococcus mutans*: antibacterial activity and transcriptomic insights into planktonic and biofilm states. *Materials today. Bio*, 37, 102983.

Morris AJ, et al. (2026) The effect of *Staphylococcus aureus* on the persistence of *Pseudomonas aeruginosa* due to aggregation in cystic fibrosis airway infections. *iScience*, 29(7), 116016.

Youn MJ, et al. (2026) Plumbagin Disrupts Biofilm Integrity and Resistance Gene Expression in Carbapenem-Resistant *Acinetobacter baumannii*. *Journal of microbiology and biotechnology*, 36, e2601011.

Li S, et al. (2026) Released palmitic acid-mediated TLR4/NF- κ B activation enhances the virulence of *Bordetella pertussis* MT28 lineage. *Nature communications*, 17(1).

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.

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.

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.

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.

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