

Dr. Jaydev Upponi
Editor, *Journal of Visualized Experiments*



16. OCTOBER 2019

Dear Dr. Upponi,

Enclosed please our manuscript "Time-lapse imaging of bacterial swarms and the collective stress response" for consideration for publication in *Journal of Visualized Experiments*.

In this work, we present a simple method to produce high resolution time-lapse movies of *Pseudomonas aeruginosa* swarms and their response to bacteriophage and antibiotic stress using a flatbed document scanner, automation software, and ImageJ. We used this technique to produce the bulk of the data in our upcoming publication (Bru et al., "PQS produced by the *Pseudomonas aeruginosa* stress response repels swarms away from bacteriophage and antibiotics, *J. Bacteriology*, In press). This procedure is a fast, simple, and cost-effective method of monitoring swarming dynamics and may be adapted to study the motility and growth of other bacterial species. We believe that it will appeal to your readership.

We thank you for your consideration and look forward to hearing back from you soon.

Sincerely,

Nina M. Høyland-Kroghsbo

Albert Siryaporn

DEPARTMENT OF VETERINARY AND
ANIMAL SCIENCES

STIGBØJLEN 4, 1870
FREDERIKSBERG, DK

MOB +45 51804111

nmhk@sund.ku.dk

REF: NMHK