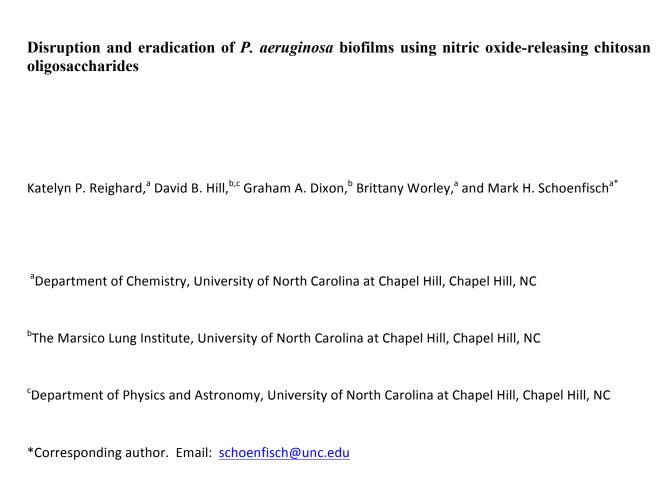
Supplemental Material



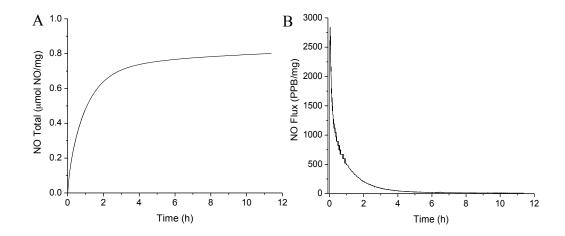


Figure S1. Chemilumenscence detection of NO release from COS-NO. The NO release from 1 mg of COS-NO was determined in deoxygenated PBS (pH 6.5) for comparison with other NO-releasing systems. The (A) NO total and (B) NO flux of representative measurements are shown.

Table S1. Nitric oxide-release properties of COS-NO in PBS (pH 6.5, 37 °C) as determined by chemiluminescence detection. Values are presented as means \pm standard deviations for n=3 pooled experiments.

NO Total	Duration	Half-Life	Max Flux
(µmol NO/mg COS-NO)	(h)	(h)	(PPB/mg)
0.78 ± 0.09	10.7 ± 1.1	0.62 ± 0.08	3200 ± 600

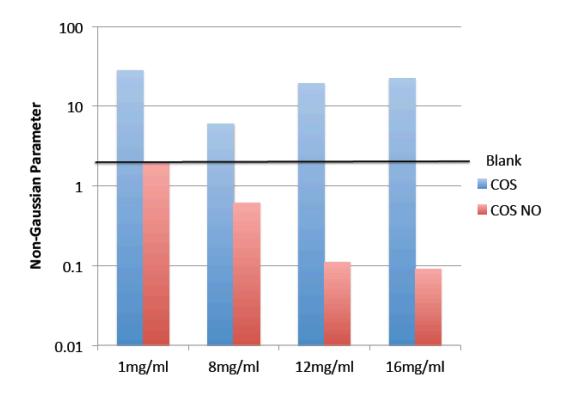


Figure S2. Non-Gaussian Parameter. The non-Gaussian Parameter was calculated for muciod "blank", untreated biofilms (black line), COS (Blue) and COS-NO(Red) treated biofilms using the formulation present by Vorselaars et al. (2007) where:

$$NGP = \frac{\langle \Delta r^4 \rangle}{2 \langle \Delta r^2 \rangle^2} - 1$$

Vorselaars B, Lyulin AV, Karatasos K, Michels M. 2007. Non-Gaussian nature of glassy dynamics by cage to cage motion. Phys Rev E. 75:011504.