

Inactivation of nosocomial pathogens on surfaces and in air utilizing Engineered Water Nanostructures (EWNS) based nano-sanitizers

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Supplementary Table 1:

iEWNS			Operational Parameters		Physical Properties	
Abbreviation	AI	AI Conc. [w/v%]	V [kV]	h [cm]	Diameter [nm]	Charge [e^-]
EWNS	-	N/A	-6.5	4	12.1± 0.1	13±0
rEWNS	Electrolyzed water	N/A	-6.8	4	13.2 ± 0.2	13±2
h1EWNS	Hydrogen peroxide	1%	-6.8	4	11.9± 0.3	11±0

Supplementary Table 1: Physico-chemical characterization of the iEWNS utilized in the study

Supplementary Figure 1:

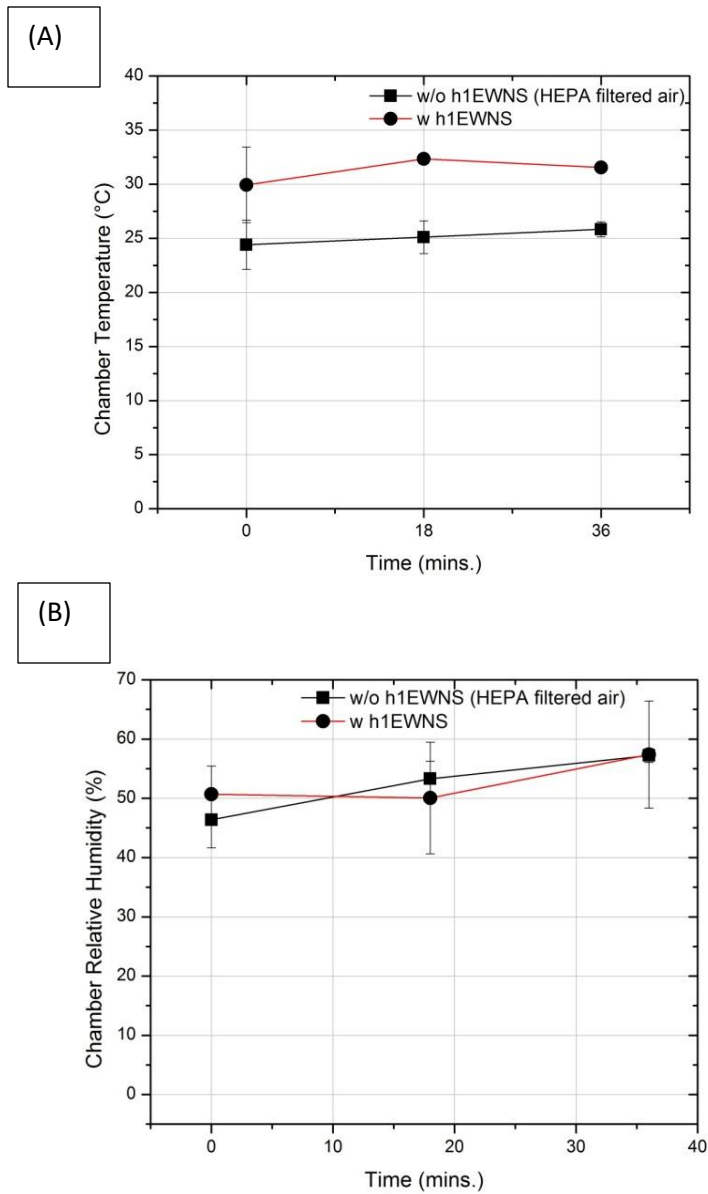


Figure S1: Measurement of the chamber temperature (A) and relative humidity (B) during airborne Influenza H1N1/PR/8 inactivation experiments. The control trials (Squares) and h1EWNS treatment trials (Circles) are shown. The results indicate the arithmetic mean of three individual trials. The Standard Deviation (S.D.) denotes the error bars.

Supplementary Figure 2:

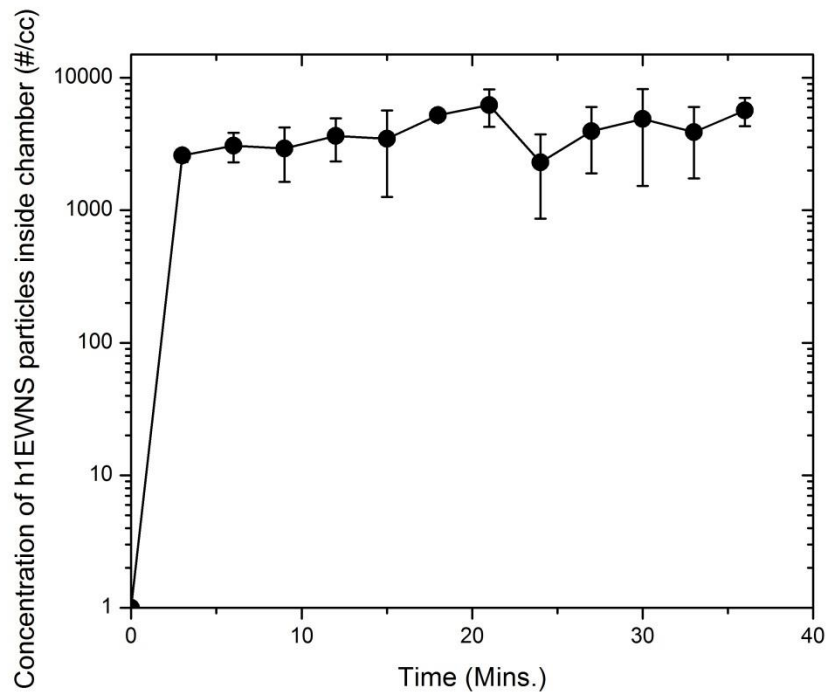


Figure S2: The concentration of h1EWNS particles detected inside the environmental chamber. The Scanning Mobility particle Sizer (SMPS) was employed for the measurement. All airflows were maintained identical as the experimental protocol. The viral bioaerosol input was replaced with filtered air. The chamber was operated for 36 minutes and measurement was performed at three minute intervals.