

Fig. S1 Effect of Uh-Au@Nano-CF (15% dilution) on the growth of CV026. Samples were taken from each culture at OD_{600 nm} at for indicated time intervals. The Uh-Au@Nano-CF did not suppress the growth of CV026. Data are mean and SE (n = 8).

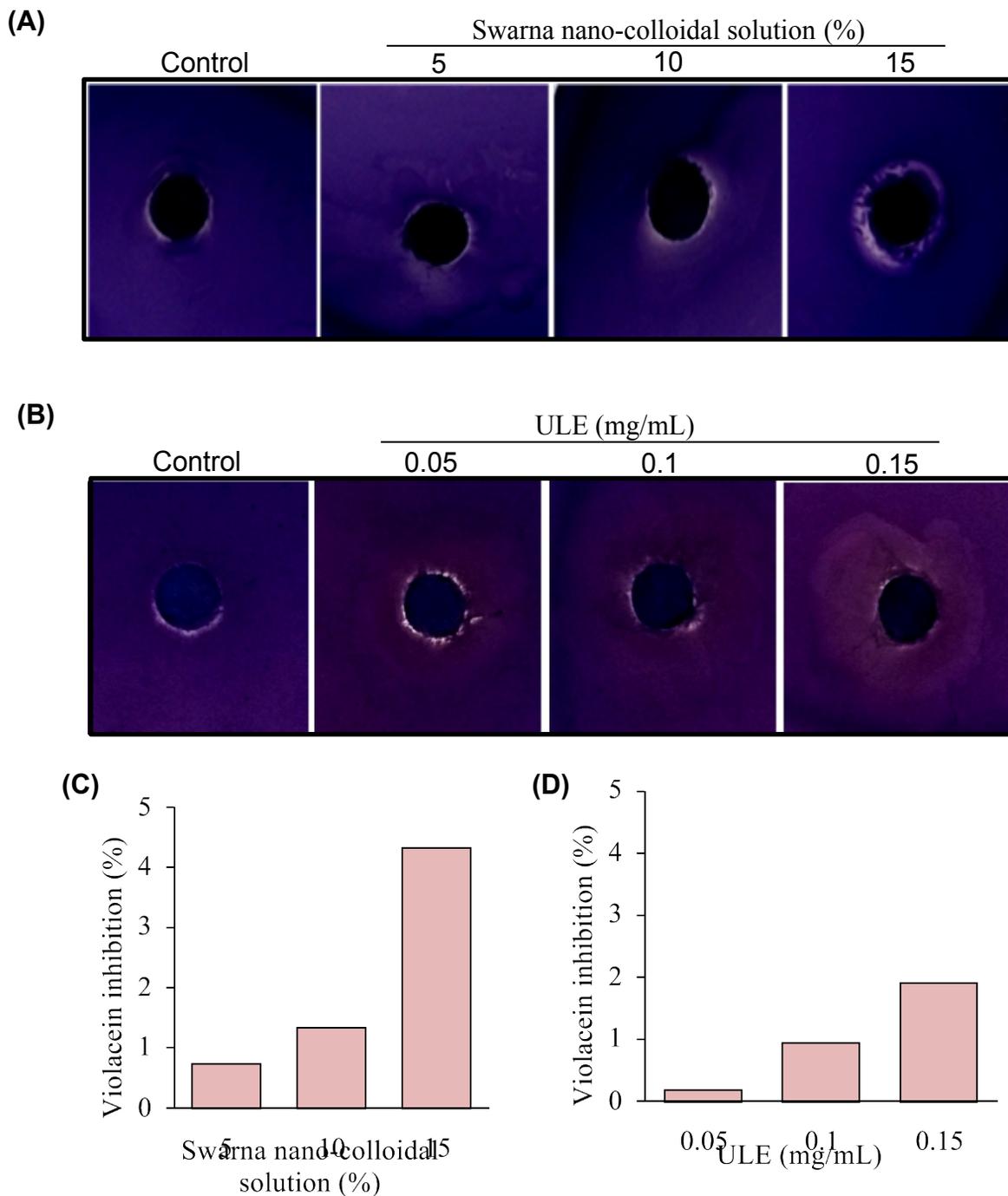


Fig. S2 Anti-QS activity of free Swarna nano-colloidal solution (A) and free ULE (B) using *C. violaceum* 12472, a biomonitor strain. Control dishes contain only sterilized distilled water. (C-D) Quantification of violacein production in *C. violaceum* 12472 treated with indicated concentrations of free Swarna nano-colloidal solution (C) and free ULE (D) for 48 h. Data are mean and SE (n = 8).

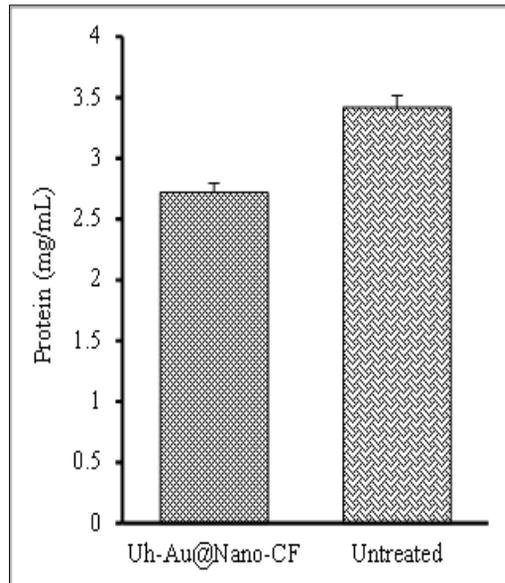


Fig. S3 Protein content in Uh-Au@Nano-CF treated and untreated control. Data are means and SE (n = 6).

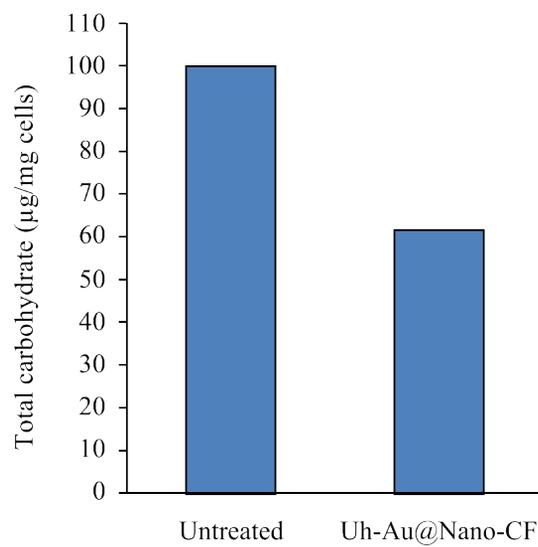


Fig. S4 Effect of Uh-Au@Nano-CF on total carbohydrate content in cells of *S. mutans*. Data are means and SE (n = 6).

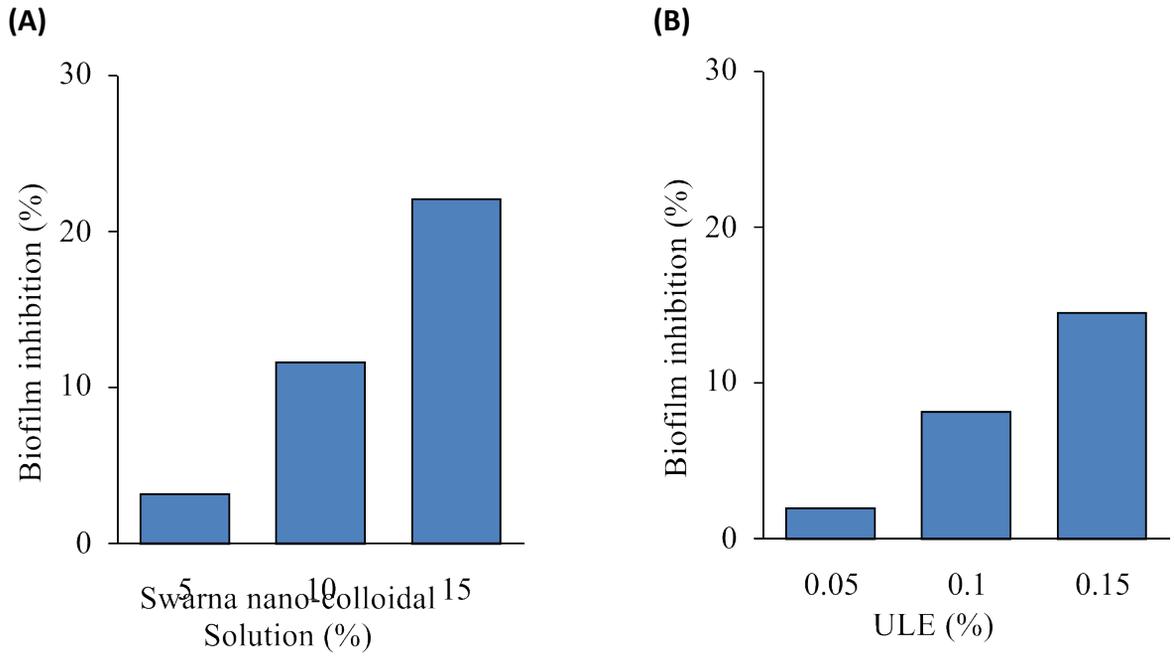


Fig. S5 Effect of free Swarna nano-colloidal solution (A) and free ULE (B) on biofilm formation of *S. mutans*. For quantification of biofilm, CV staining assay was used. Data are means and SE (n = 6).