

Support Information:

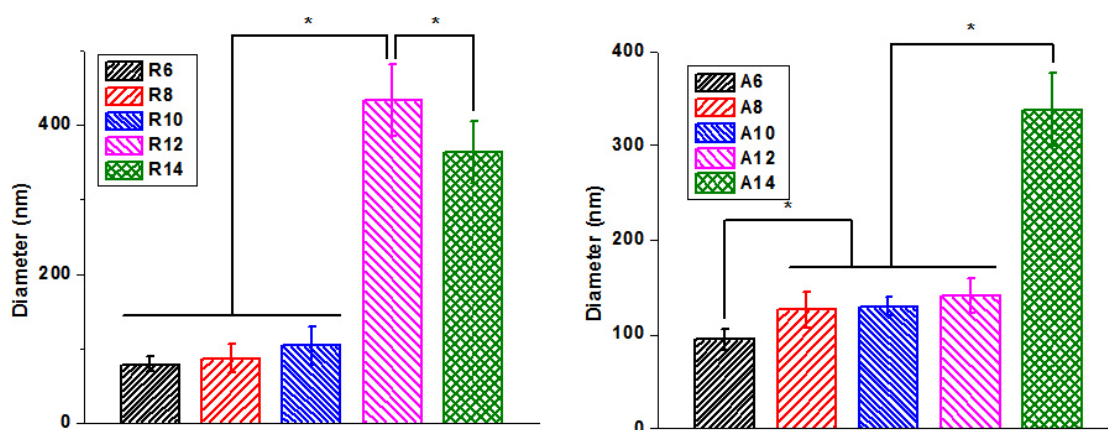


Fig. S1. The average fiber diameters of all nanofibers membranes. \* stands for significant difference.

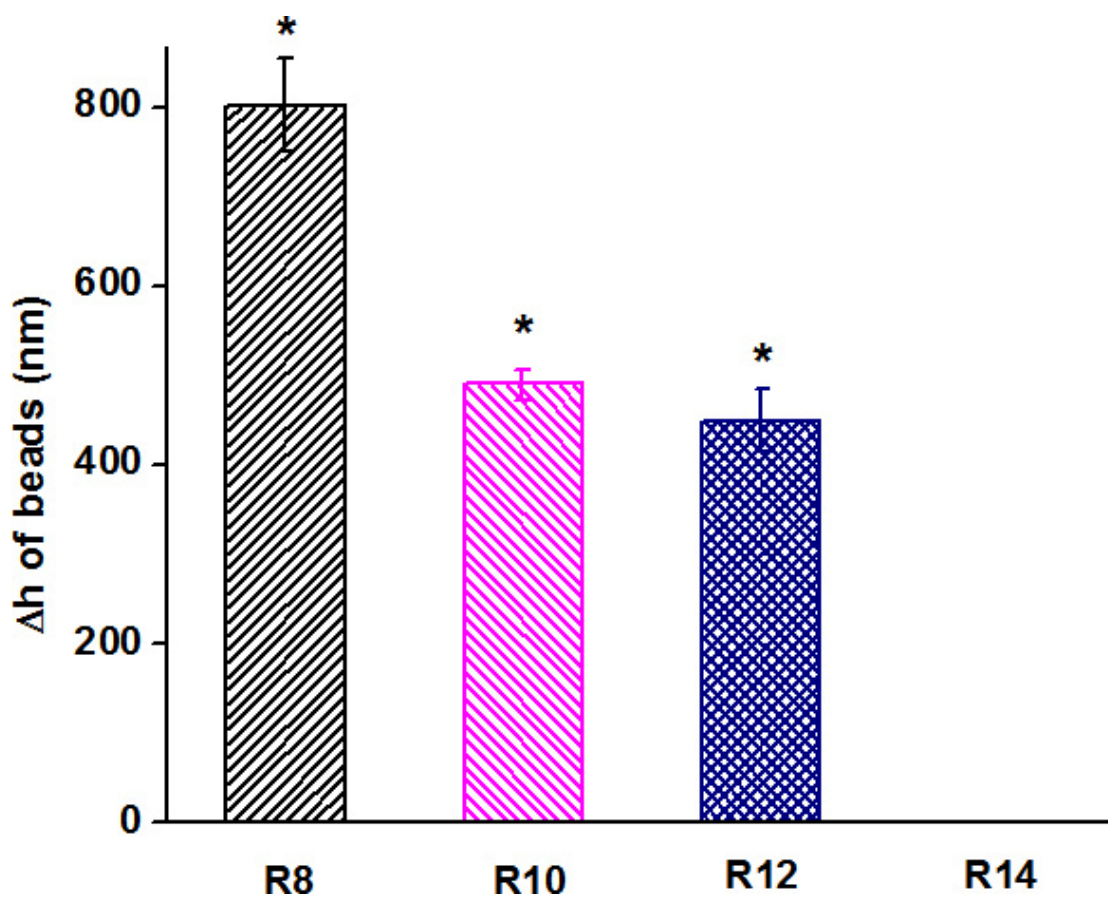
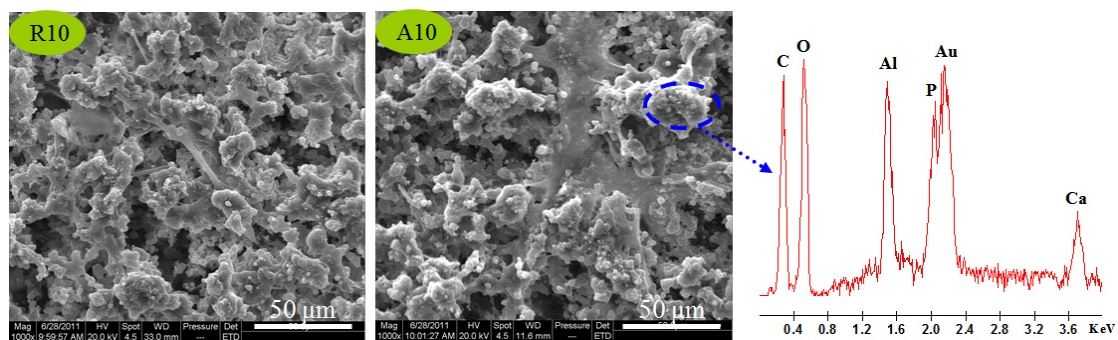


Fig. S2.  $\Delta h$  of beads for R8, R10, R12 and R14. \* stands for significant difference.



**Fig. S3.** Calcium deposits observed with scanning electron microscopy and energy dispersive X-ray spectrometer (EDX) spectra after 21 days' induction.