

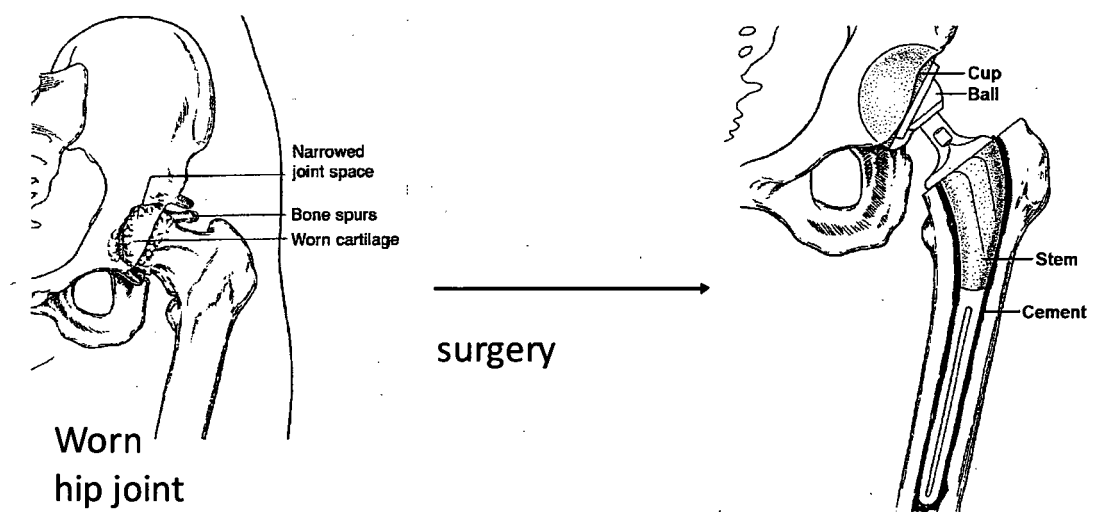


FIG. 1

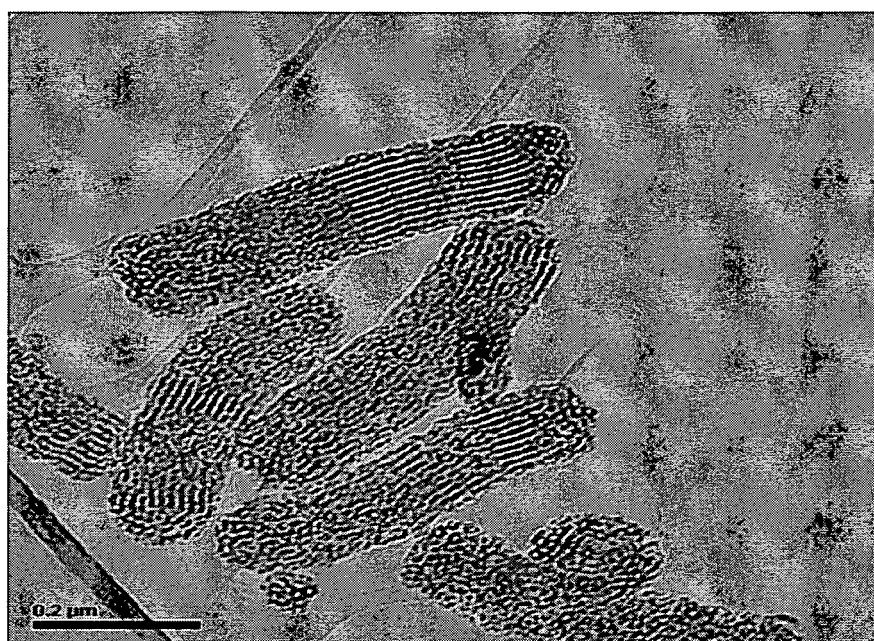


FIG. 2

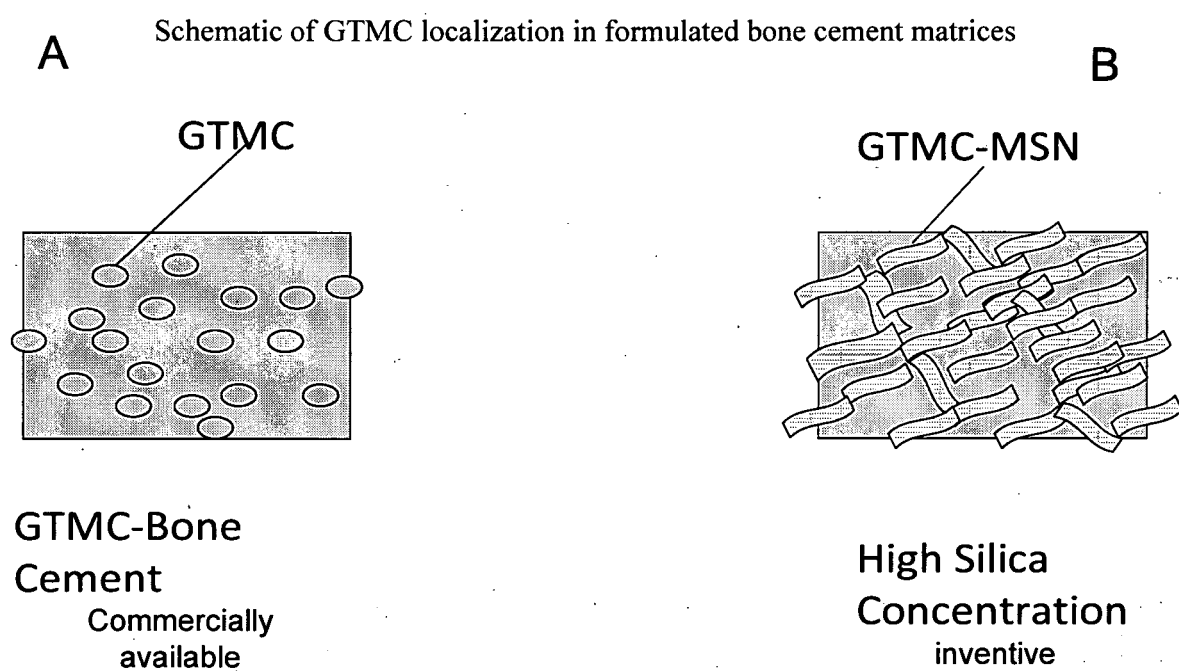
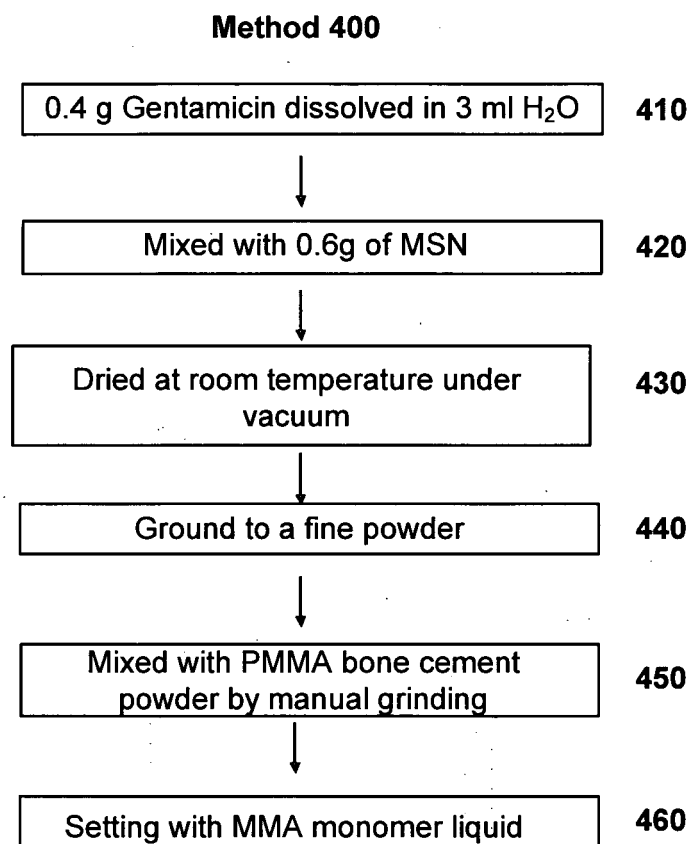
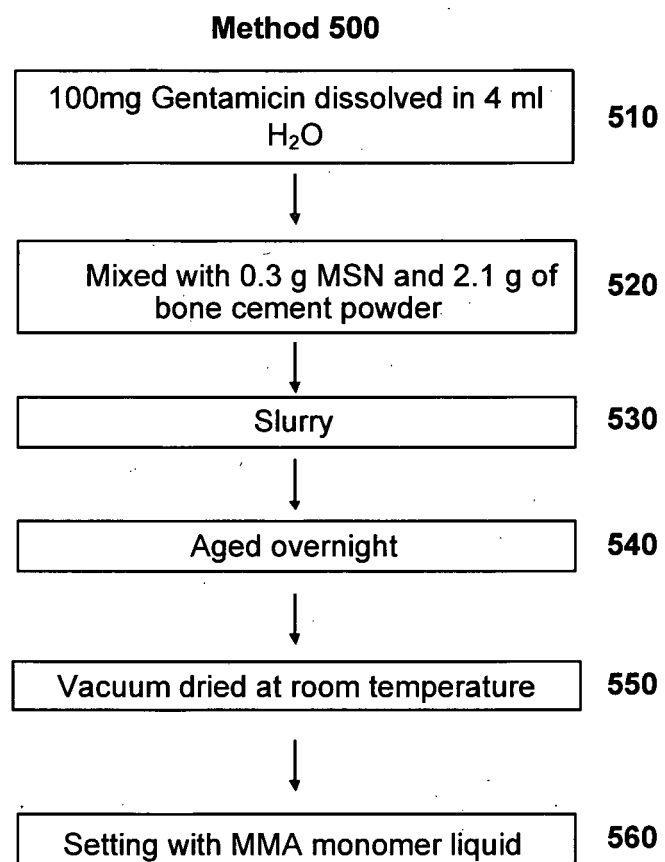


FIG. 3

**FIG. 4**

**FIG. 5**

Gentamicin release profiles from Gentamicin loaded MSN formulated bone cement.

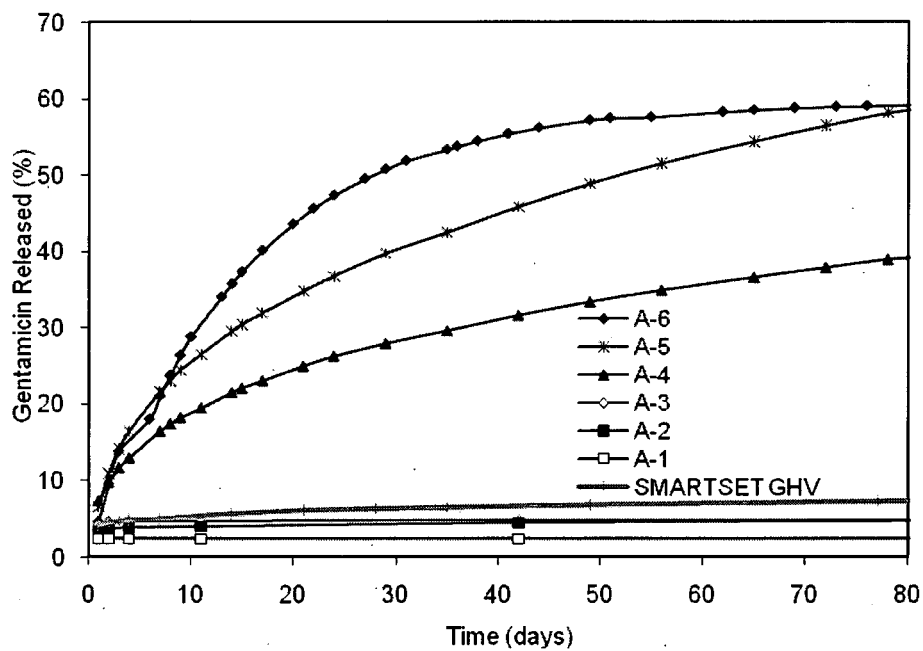


FIG. 6

Gentamicin release profiles from Gentamicin loaded MSN formulated bone cements

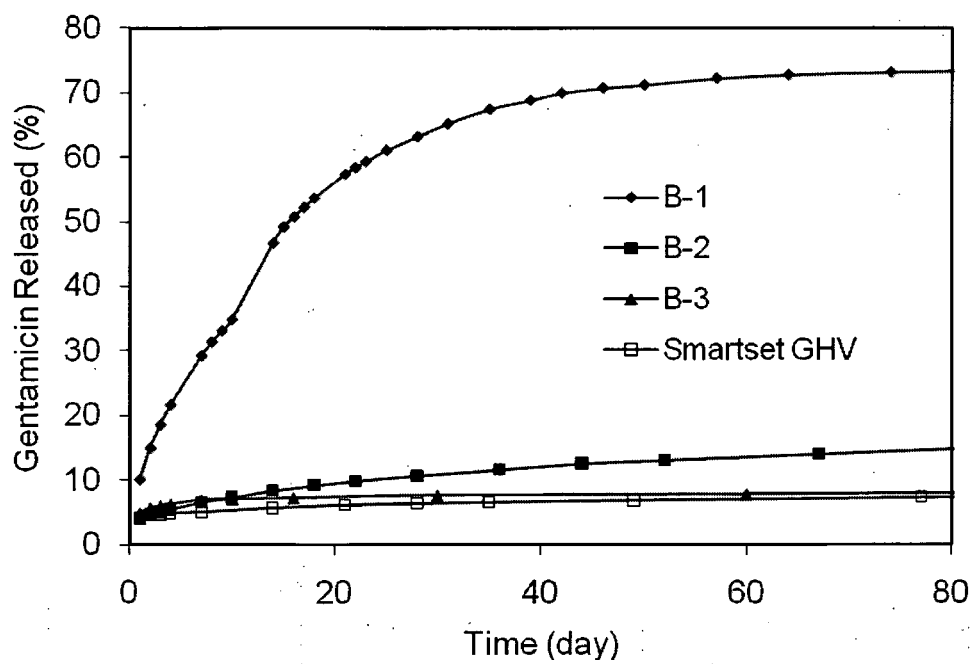
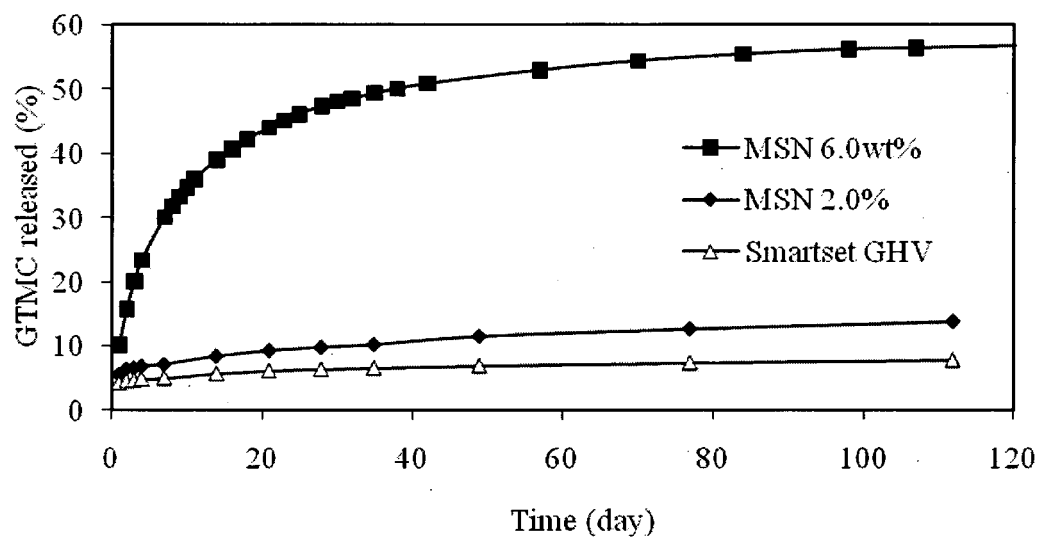


FIG. 7

Gentamicin release profiles from MSN formulated SmartSet HV bone cement



Antibacterial property of Gentimicin loaded MSN formulated bone cement compared to commercially available antibiotic loaded bone cement SMARTSET-GHV

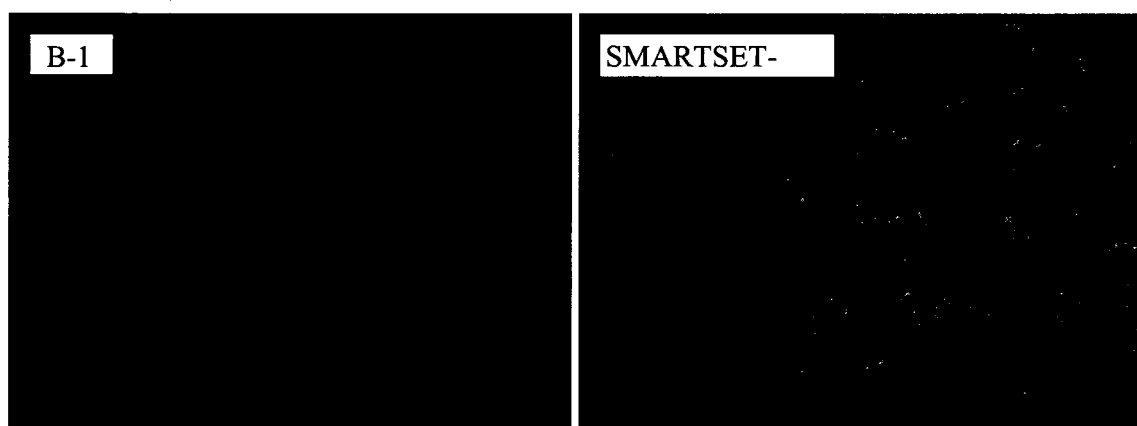
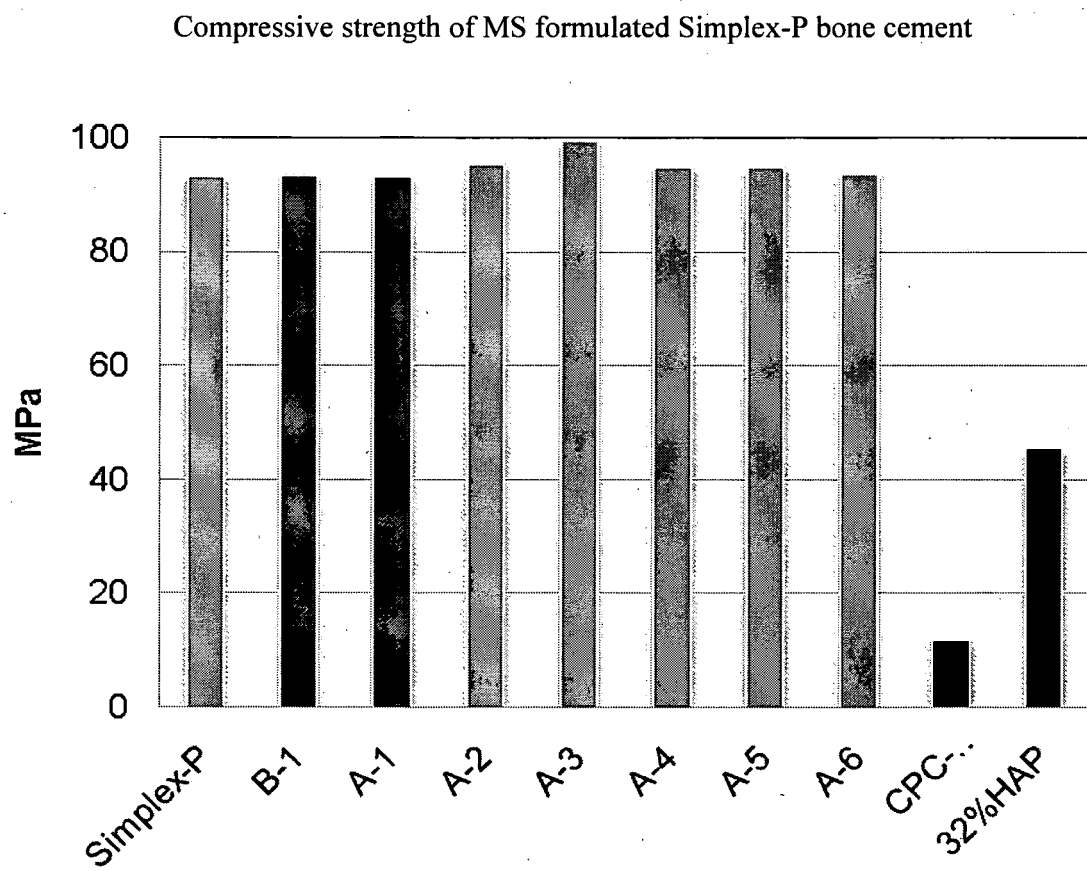
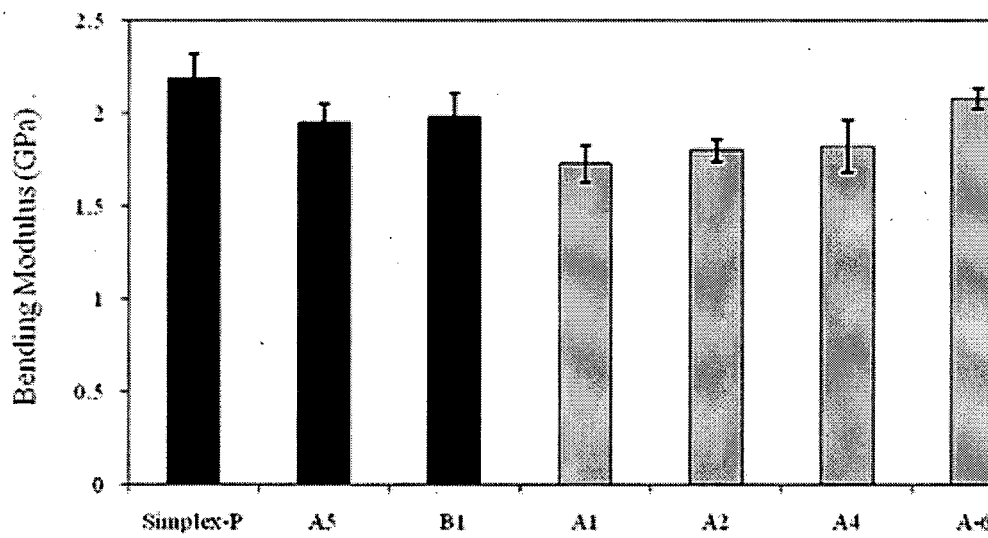
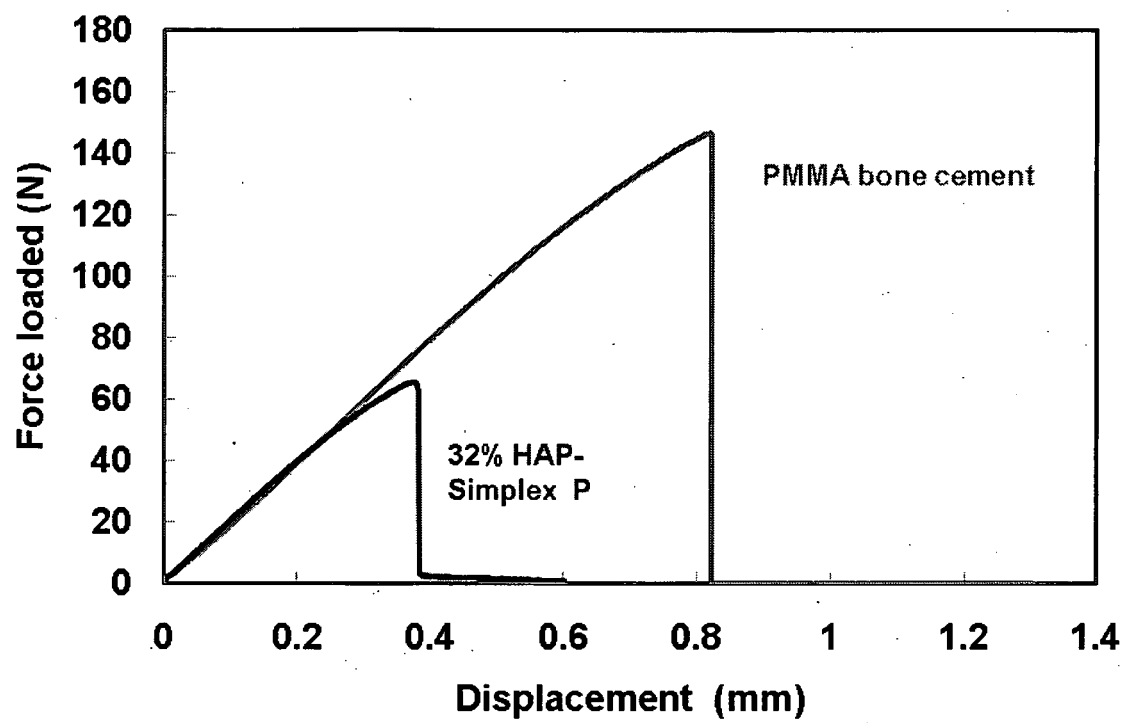


FIG. 9

**FIG. 10**

**FIG. 11**

**FIG. 12**

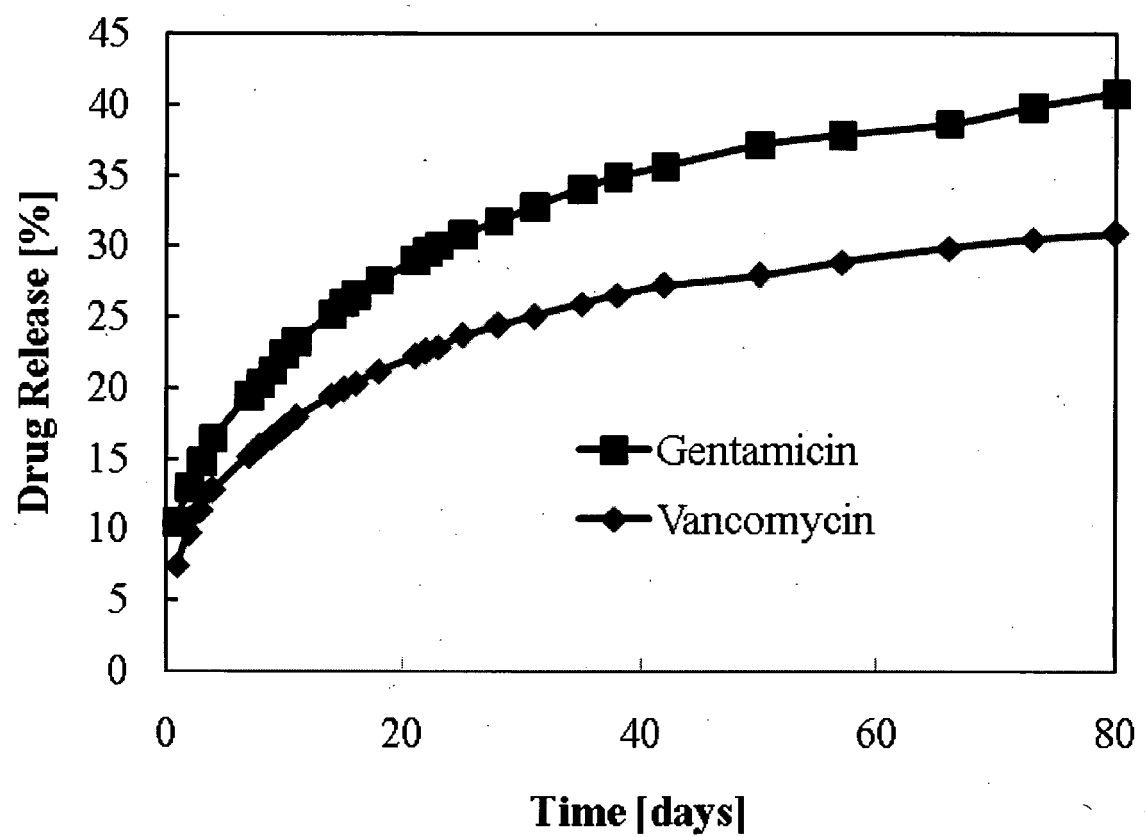
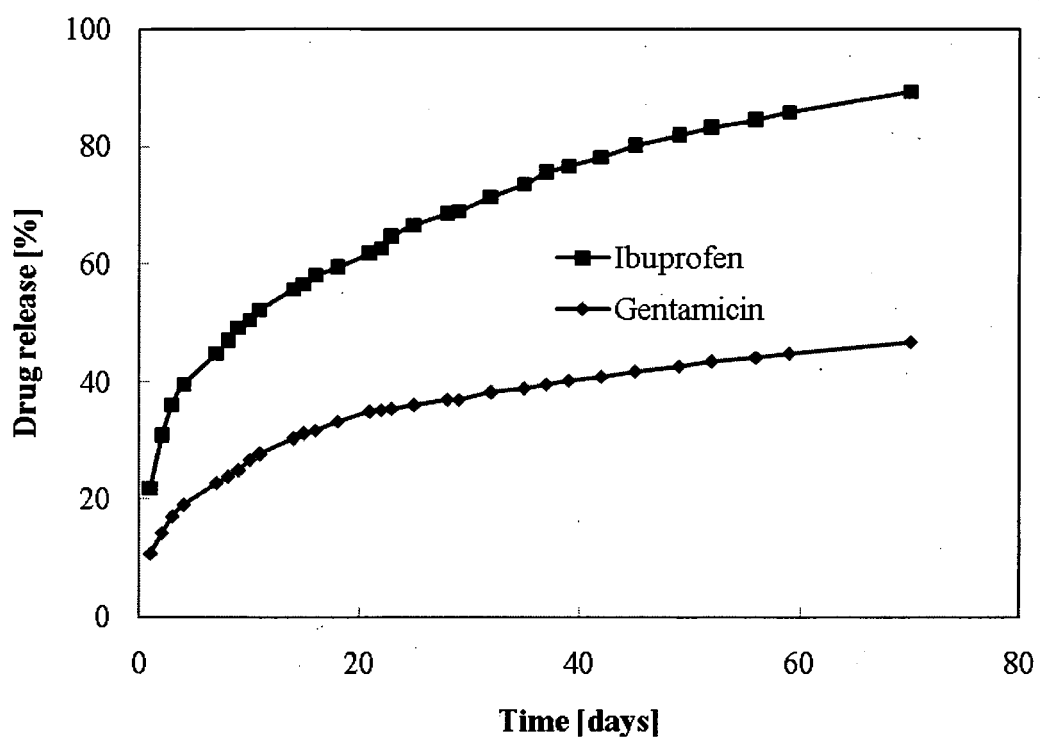
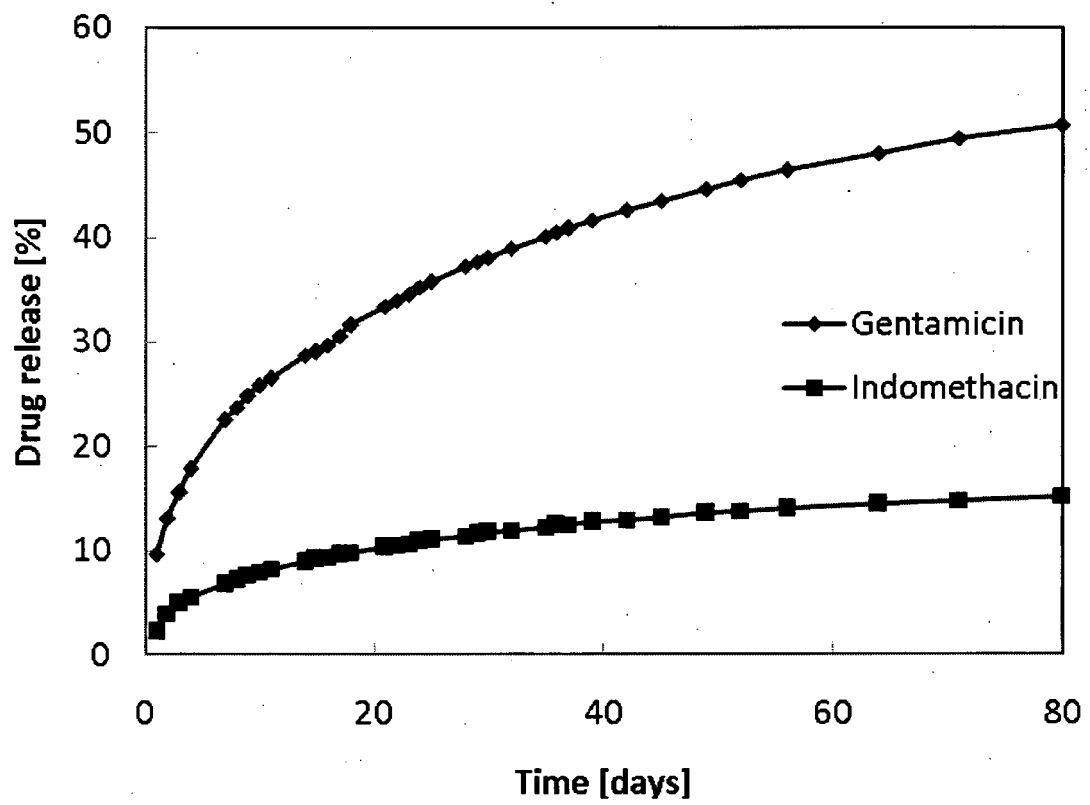
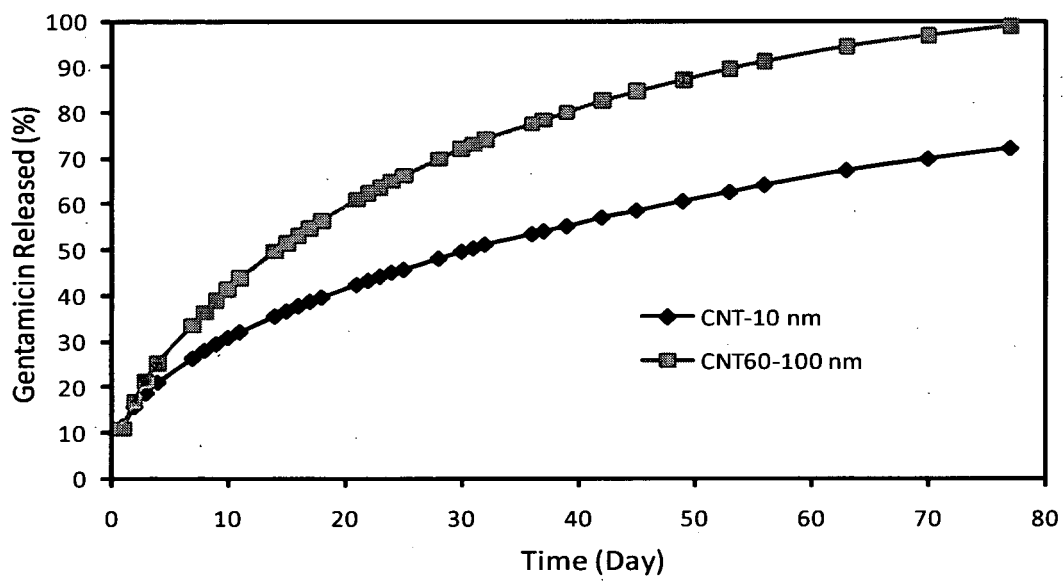
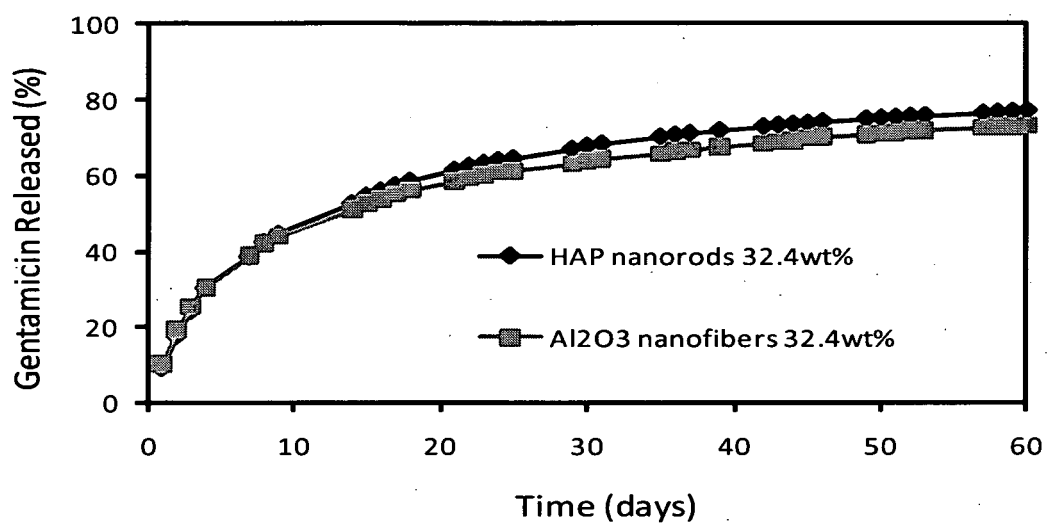


FIG. 13

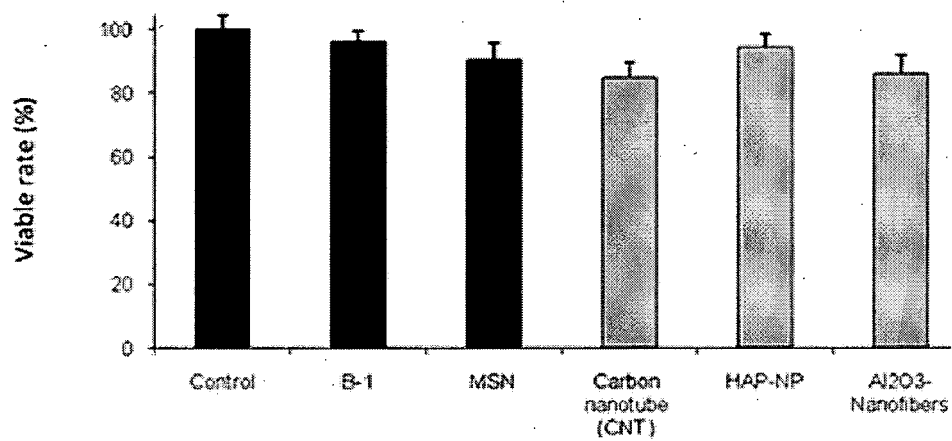
**FIG. 14**

**FIG. 15**

**FIG. 16**

**FIG. 17**

Cytotoxicity of nanostructured materials

**FIG. 18**

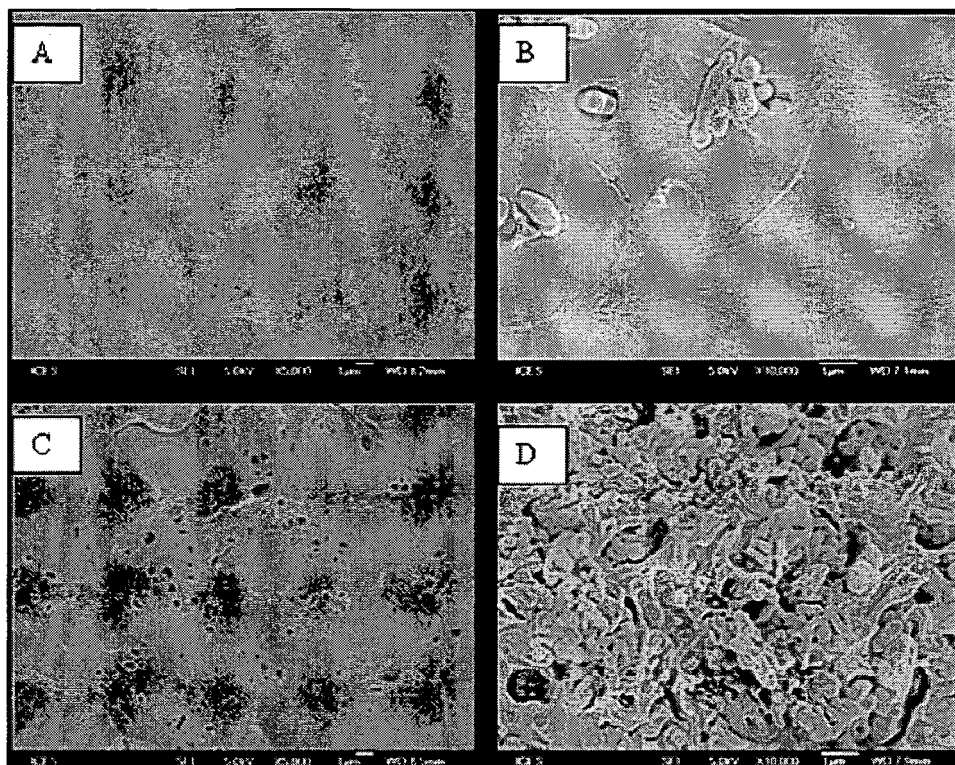


FIG. 19