

MAGNETIC TRENDS IN NANOPARTICLES

USES

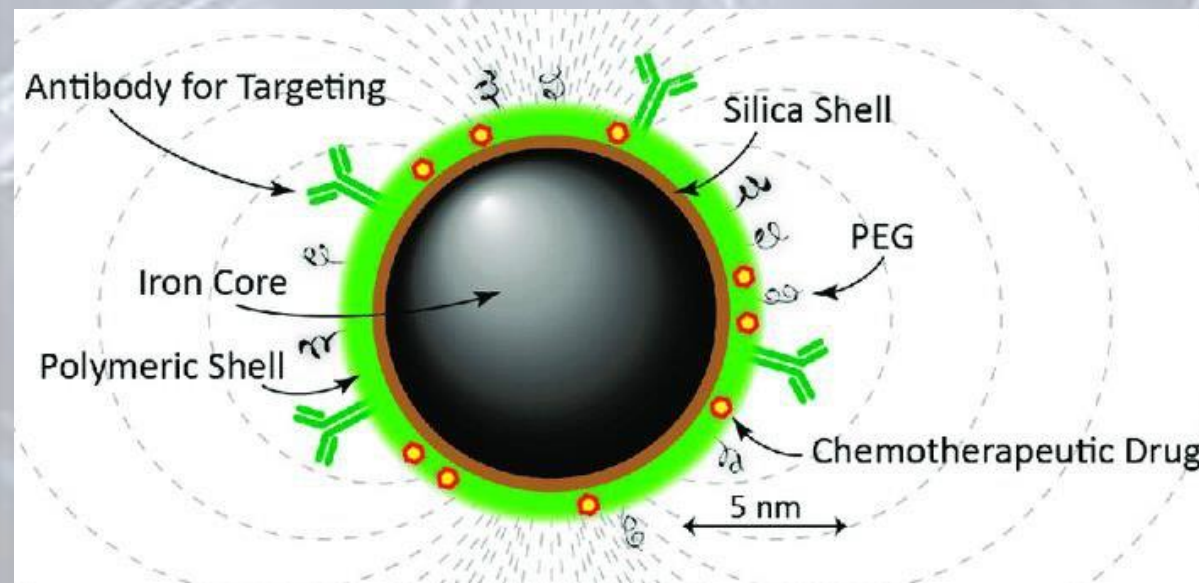
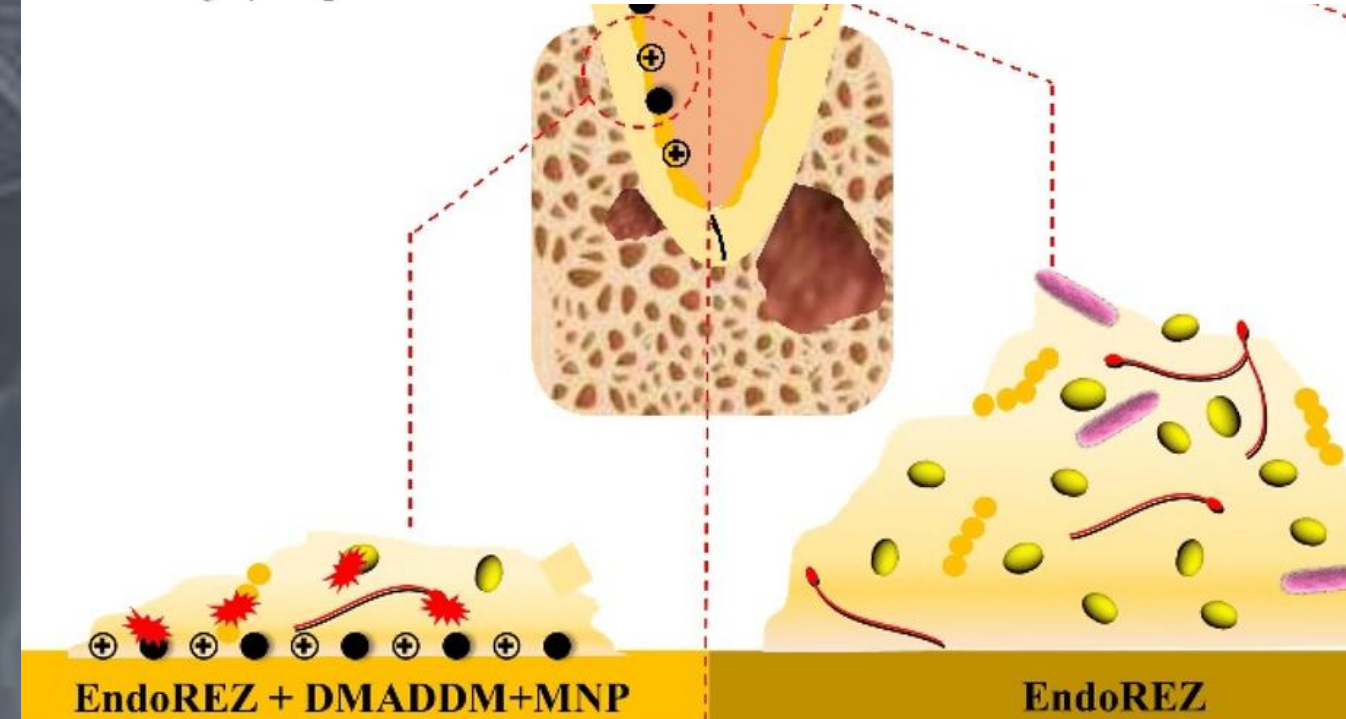
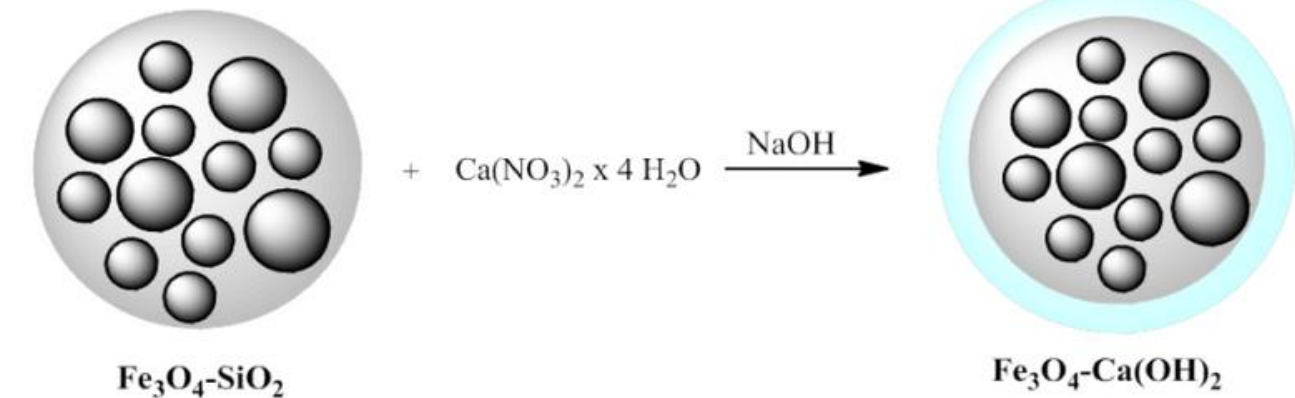
RESTORATIVE

1. In DENTAL ADHESIVES
2. In DENTINAL HYPERSENSITIVITY TREATMENT
3. NOVEL MAGNETIC COMPOSITE MATERIAL

ENDODONTIC

1. TARGETED DRUG DELIVERY SYSTEMS
2. In ROOT CANAL SEALERS
3. LABELLING & TRACKING OF STEM CELLS

Coating the surface of $\text{Fe}_3\text{O}_4\text{-SiO}_2$ with Ca(OH)_2 layer



IRON OXIDE NANOPARTICLES

1. Magnetite (Fe_3O_4) & Maghemite ($\gamma\text{-Fe}_2\text{O}_3$)
2. SUPERPARAMAGNETIC (magnetite)
3. BIOCOMPATIBLE
4. COATED MOLECULES

Targeted Delivery

