

Supporting Information

$\text{Yb}^{3+}/\text{Ho}^{3+}$ Co-Doped Apatite Upconversion Nanoparticles to Distinguish Implanted Material from Bone Tissue

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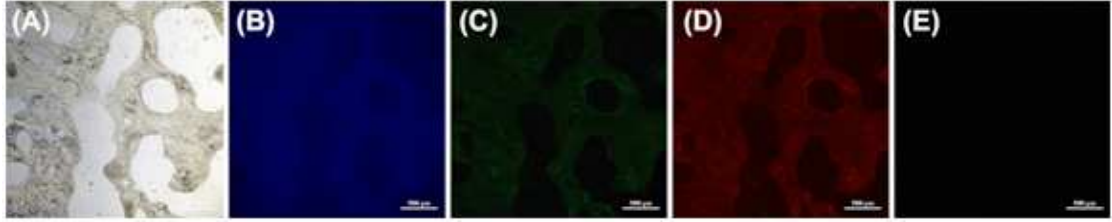


Figure S1. Light microscopy image (A) of natural bone tissue without staining, and corresponding fluorescent images under excitation by UV (B), blue (C), green (D), and 980 nm near-infrared (E) light, scale bar = 500 μm .

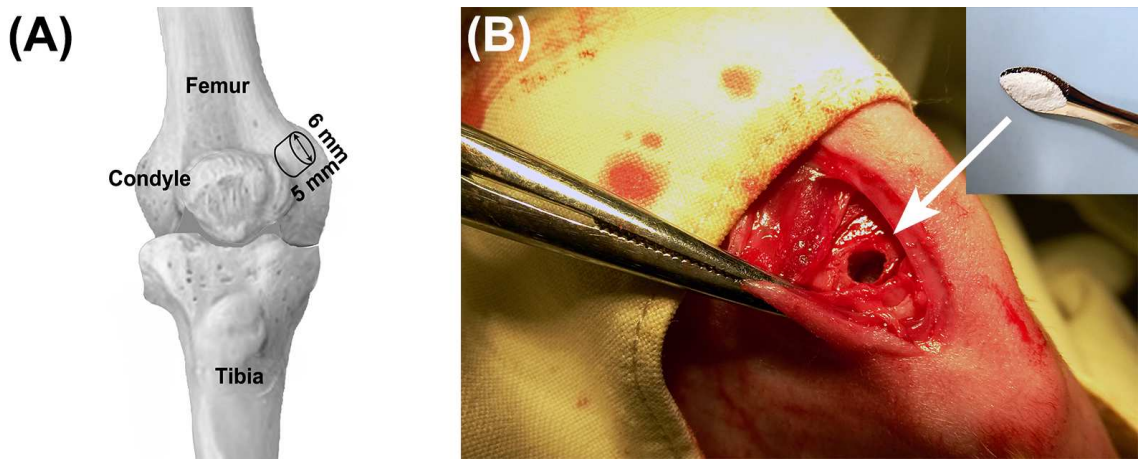


Figure S2. The cylindrical bone defect (diameter 6 mm, depth 5 mm) on the left distal femoral condyle (A), and the FA:Yb³⁺/Ho³⁺ particles implanted into the defect (0.2 g in each defect) (B).