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3 **Figure-supplement** The SEM and mappings of elements distribution of the cross section  
4 of PLGA-MSN/nHA microspheres. The elements distribution of the carbon (C), nitrogen (N),  
5 silicon (Si), phosphorus (P), calcium (Ca) on the surface of cross section were mapped  
6 respectively.

7 **Notes:** The maps of C and N referred to the distribute of PLGA; The maps of Ca and P  
8 referred to the distribute of nHA; The map of Si referred to the distribute of MSN.

9 **Abbreviations:** SEM, scanning electron microscope; PLGA, poly-(LD-lactide-co-glycolide)  
10 acid; MSN, mesoporous silica nanoparticle; nHA, nano-hydroxyapatite.

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