Electronic Supplementary Material (ESI) for RSC Advances.

Nanohydroxyapatite/cellulose nanocrystals/silk fibroin ternary scaffolds for rat calvarial defect regeneration

Xiaoming Chen [a, b], Runmei Zhou [c], Bin Chen [d], Jianting Chen [a*]

[a] Department of Orthopedic Spinal Surgery, Nanfang Hospital, Southern Medical University, Guangzhou 510515,China

[b] Department of Orthopedic Spinal Surgery, the 2th Affiliated Hospital, University of South China, Hengyang 421001, China

[c] Department of Pharmacy, the 2th Affiliated Hospital, University of South China, Hengyang 421001, China

[d] Department of Orthopedic Spinal Surgery, Chenzhou No.1 People's Hospital, Chenzhou 423000, China

* Corresponding author

Email: chenjt99@tom.com

Tel/Fax: +86-20-87640940

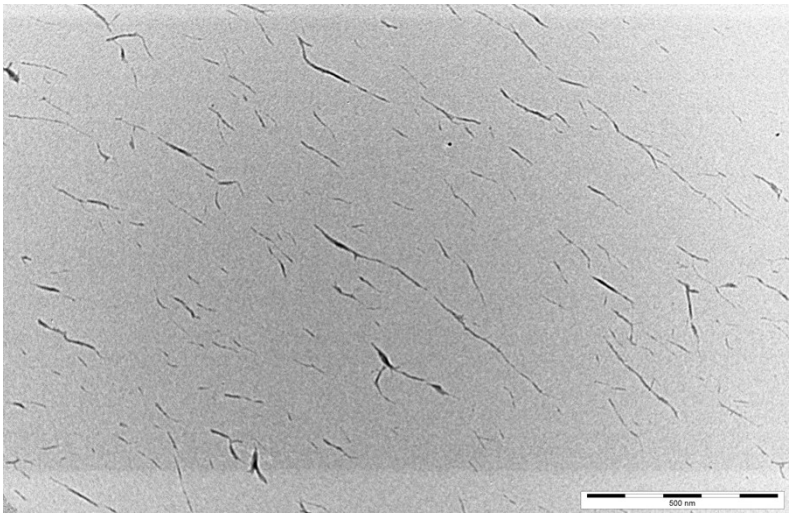

Fig.S1 TEM micrographs of CNC.

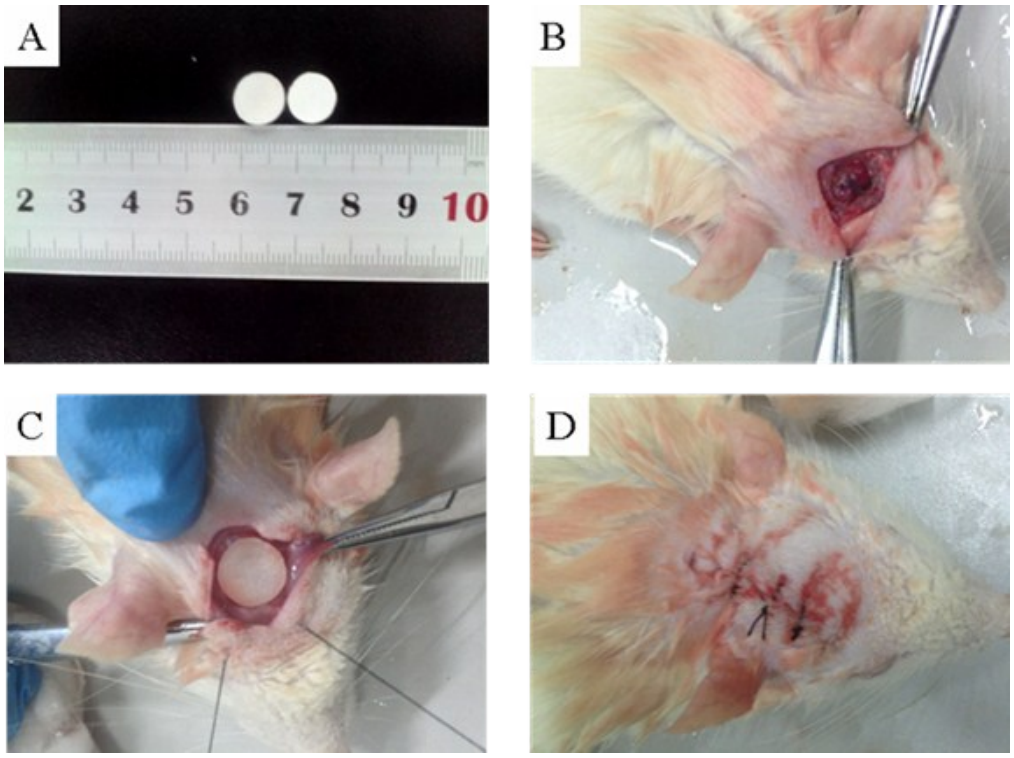

Fig.S2 Surgical process of composite scaffold transplantation into rat calvarial defects.

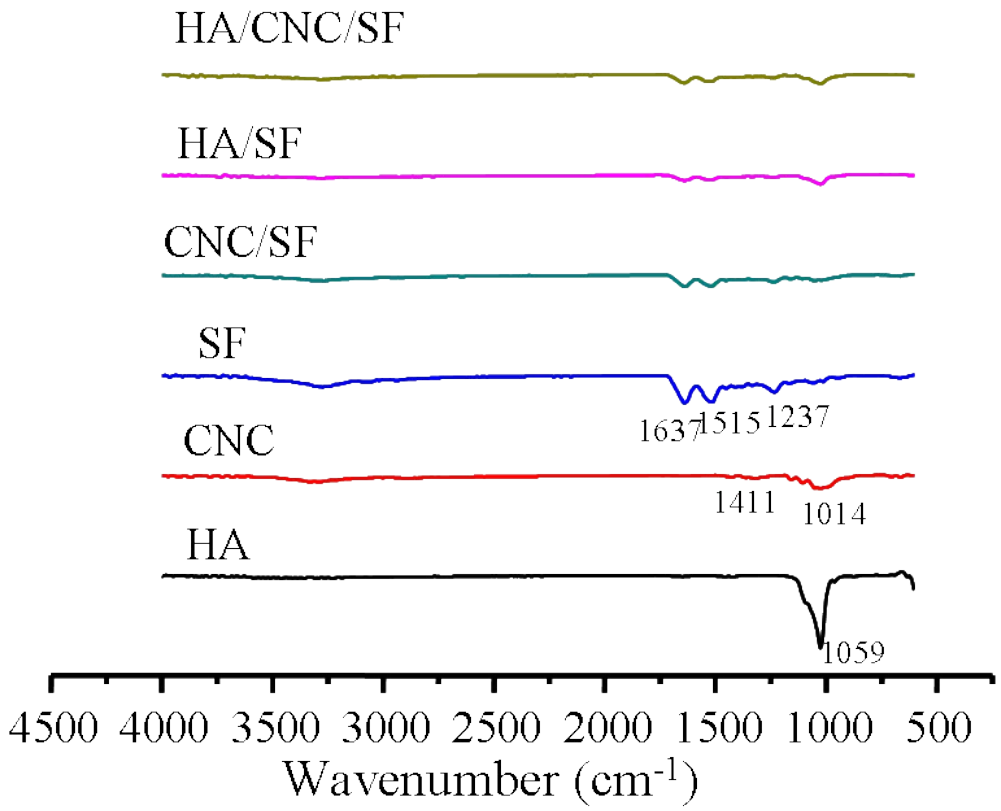

Fig.S3 FTIR spectra of HA, cellulose nanocrystals (CNC), silk fibroin (SF) and SF-based composite scaffolds.