Accepted Manuscript

Title: Coating Cortical Bone Allografts with

Periosteum-Mimetic Scaffolds made of Chitosan, Trimethyl

Chitosan, and Heparin

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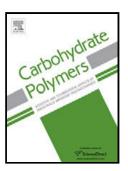
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ACCEPTED MANUSCRIPT

I	Highlights
2	
3	□ Novel periosteum-mimicking scaffolds were made from chitosan, trimethyl chitosan and heparin.
4	
5	☐ This is the first report of chitosan nanofibers and freeze-dried scaffolds directly deposited onto
6	bone.
7	
8	☐ Adipose-derived stem cells cultured on scaffolds proliferate and express an osteoprogenitor
9	phenotype for up to 21 days.
10	
11	☐ Periosteum-like scaffolds on bone allografts could improve graft integration by mimicking bone
12	autograft healing.
13	

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