ACCSCIENCE PUBLISHING

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RESEARCH ARTICLE

3D-bioprinted bone scaffolds incorporating SR1 nanoparticles enhance blood vessel regeneration in rat calvarial defects

Supplementary file

Table S1. Cell type and tissue response in the cranial defective area 2 and 4 weeks after implantation

Group	CT		NP@S		SNP@S	
Weeks	**2W**	**4W**	**2W**	**4W**	**2W**	**4W**
Inflammatory cell infiltration, overall	0.5	1	4	1	4	2
Cell type/response						
PMN cells	0	0	0.5	0	0.5	0
Lymphocytes	1	0.5	2	0	0	0
Plasma cells	0	0	2	0	0	0
Macrophages	1.5	1.5	3.5	2	3	3
Giant cells	0	1	2	1	2.5	2
Necrosis	0	0	0	0	0	0
Sub-total	**2.5**	**3**	**10**	**4**	**8**	**5**
Response						
Neovascularization	3	1	2	3.5	2	1
Fibrosis	2	2	3	1.5	3	1.5
Fatty infiltration	0	0	0	0	0	0
Sub-total	**5**	**3**	**5**	**5**	**5**	**2.5**
Total	**7.5**	**6**	**15**	**9**	**13**	**7.5**

Abbreviations: CT, negative control; PMN, polymorphonuclear neutrophil; NP@Sc, blank nanoparticle-encapsulated scaffold; SNP@Sc, SR1-laden nanoparticle-encapsulated scaffold.