

## 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	
	2W	4W	2W	4W	2W	4W
<b>Inflammatory cell infiltration, overall</b>	0.5	1	4	1	4	2
<b>Cell type/response</b>						
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
<b>Sub-total</b>	<b>2.5</b>	<b>3</b>	<b>10</b>	<b>4</b>	<b>8</b>	<b>5</b>
<b>Response</b>						
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
<b>Sub-total</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>2.5</b>
<b>Total</b>	<b>7.5</b>	<b>6</b>	<b>15</b>	<b>9</b>	<b>13</b>	<b>7.5</b>

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