Supporting Information

Title : Poly(ε-caprolactone)/hydroxyapatite 3D honeycomb scaffolds for a cellular microenvironment adapted to maxillofacial-bone reconstruction

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2 Tables, 1 figure (Video)

Table S1. Electrospinning and electrospraying parameters step by step. **Solution A:** PCL at 15% W/V in DCM/DMF 60/40%; **Solution B**: HA at 10% W/V in Ethanol.

Layer	**Technique**	**Solution**	**Time**	**Voltage**	**Distance**	**Needle diameter**	**Flow rate**
1st	Electrospinning	A	8min	25kV	15cm	18G	2.0ml/h
2nd	Electrospraying	B	10min	25.5kV	15.5cm	18G	0.6ml/h
3d	Electrospinning	A	8min	25kV	15cm	18G	2.0ml/h
4th	Electrospraying	B	10min	25.5kV	15.5cm	18G	0.6ml/h
5th	Electrospinning	A	8min	25kV	15cm	18G	2.0ml/h
6th	Electrospraying	B	10min	25.5kV	15.5cm	18G	0.6ml/h
7th	Electrospinning	A	8min	25kV	15cm	18G	2.0ml/h
8th	Electrospraying	B	10min	25.5kV	15.5cm	18G	0.6ml/h
9th	Electrospinning	A	8min	25kV	15cm	18G	2.0ml/h
10th	Electrospraying	B	10min	25.5kV	15.5cm	18G	0.6ml/h
11th	Electrospinning	A	8min	25kV	15cm	18G	2.0ml/h
12th	Electrospraying	B	10min	25.5kV	15.5cm	18G	0.6ml/h
13th	Electrospinning	A	8min	25kV	15cm	18G	2.0ml/h

Table S2. List of primers used for RT-qPCR.

Aqp1	Fwd 5’ CAATTCACTTGGCCGCAATGACCT	
	Rev 5’ TACCAGCTGCAGAGTGCCAATGAT	
Col1a1	Fwd 5’ TGGAGAGAGCATGACCGATG	
	Rev 5’ GAGCCCTCGCTTCCGTACT	
Dlx5	Fwd 5’ CGTCTCAGGAATCGCCAACT	
	Rev 5’ AGTCAGAATCGGTGGCCG	
Bglap	Fwd 5’ CAGCGGCCCTGAGTCTGA	
	Rev 5’ TTATTGCCCTCCTGCTTGGA	
RunX2	Fwd 5’ GGTCCCCGGGAACCAA	
	Rev 5’ GGCGATCAGAGAACAAACTAGCTTT	
Scx	Fwd 5’ CCTTCTGCCTCAGCAACCAG	
	Rev 5’ GGTCCAAAGTGGGGCTCTCCGTGACT	
Tnmd	Fwd 5’ AACACTTCTGGCCCGAGGTAT	
	Rev 5’ AAGTGTGCTCCATGTCATAGGTTTT	

Fig. S1 : C3H10T1/2 colonization over a honeycomb groove. Video shows a confocal stack of cells over a honeycomb groove. Honeycomb scaffold in grey (White light). Cell cytoskeleton in red (Phalloidin -Rhodamine). Cell nuclei in blue (Hoechst 3342).