

100

Processing

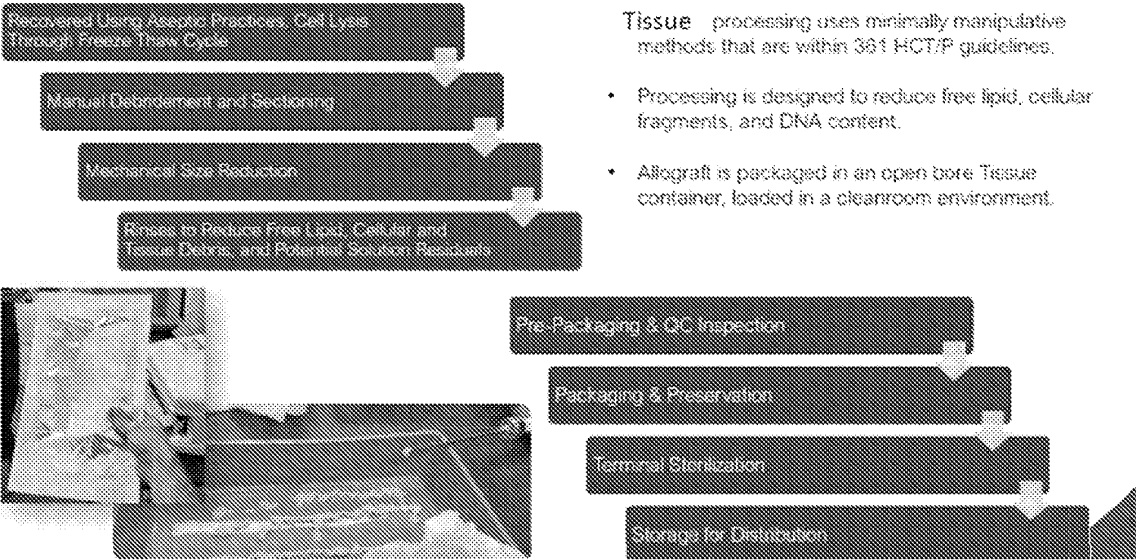


Fig. 1A

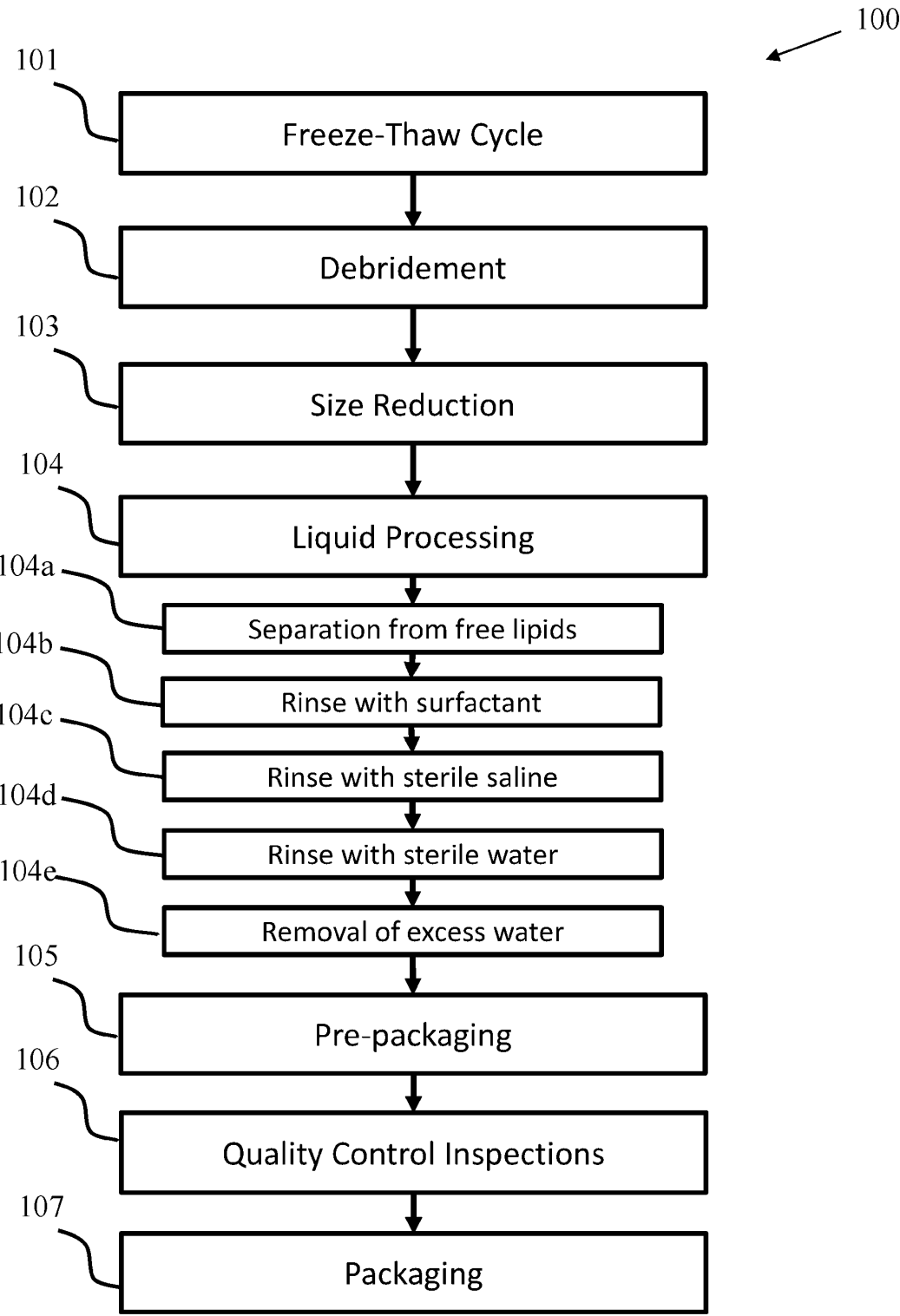


Fig. 1B

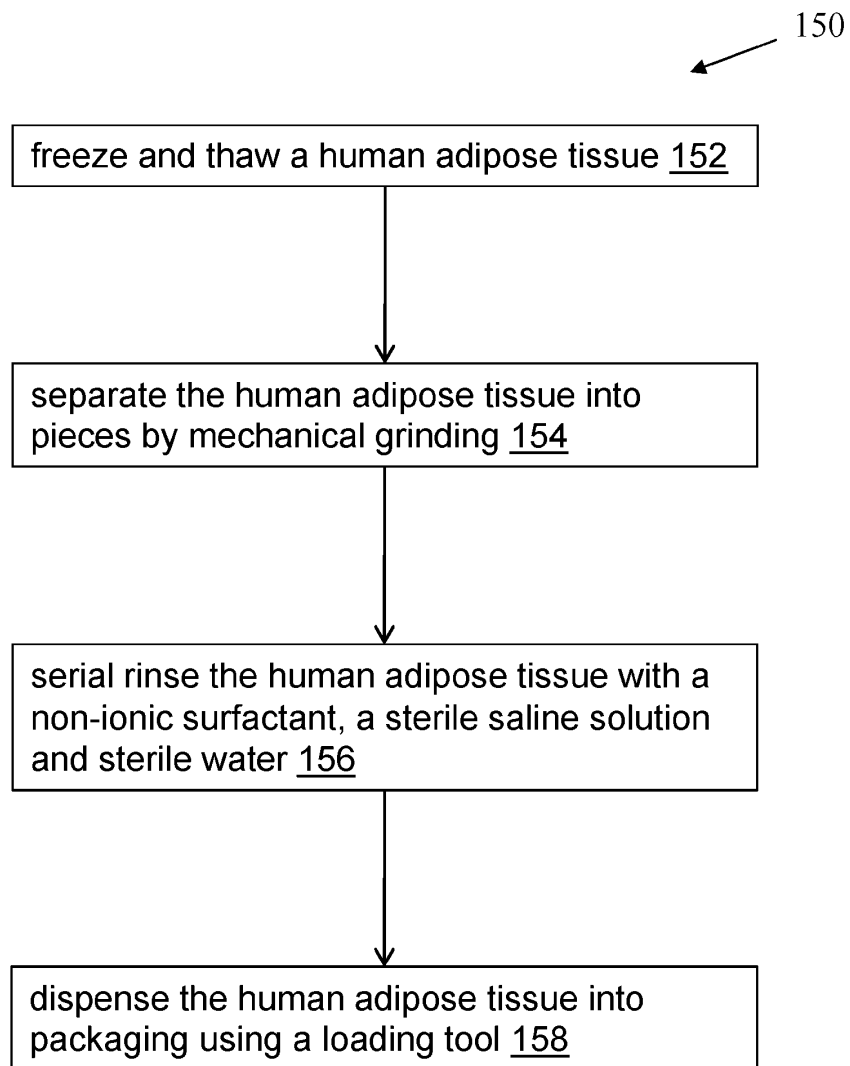


Fig. 1C

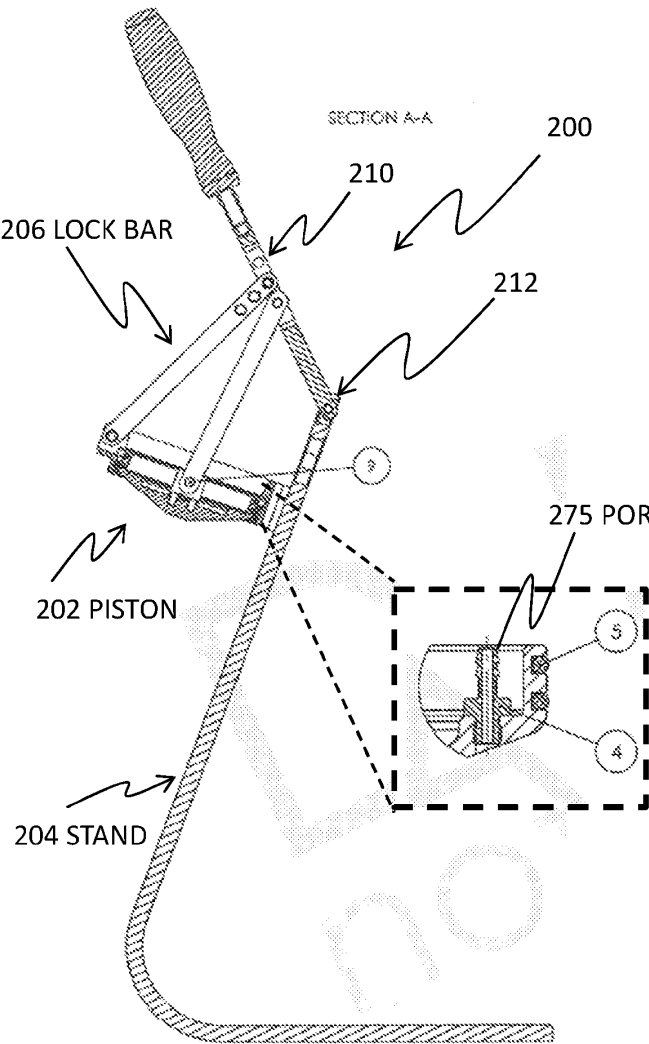


Fig. 2A

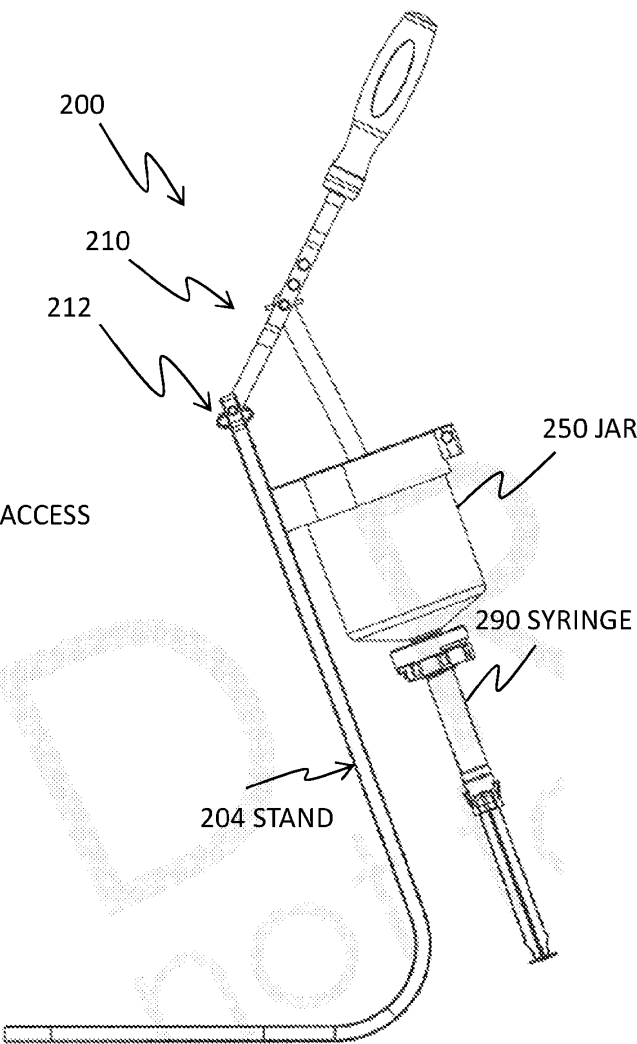


Fig. 2B

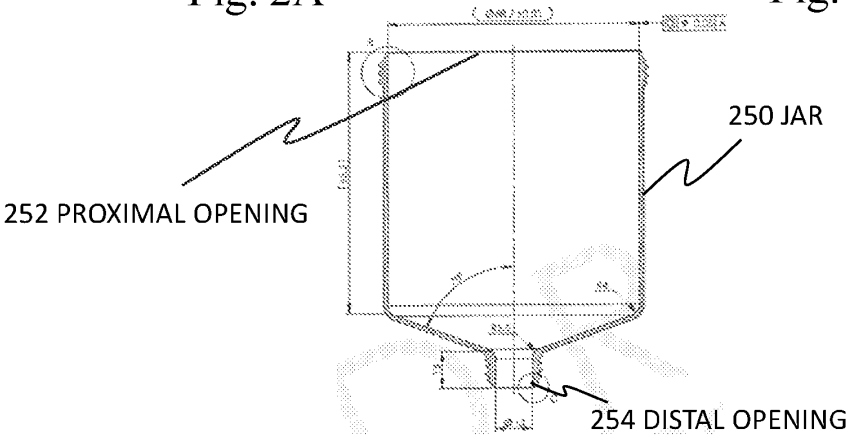


Fig. 2C

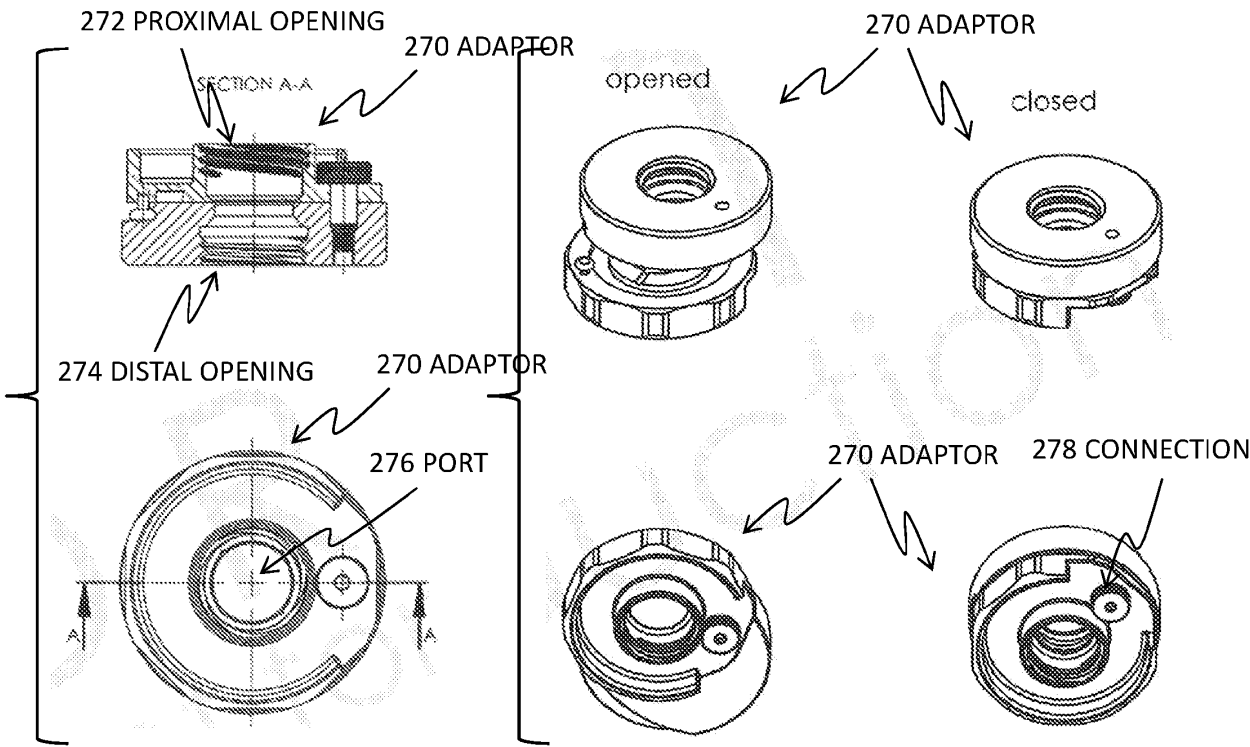


Fig. 2D

Fig. 2E

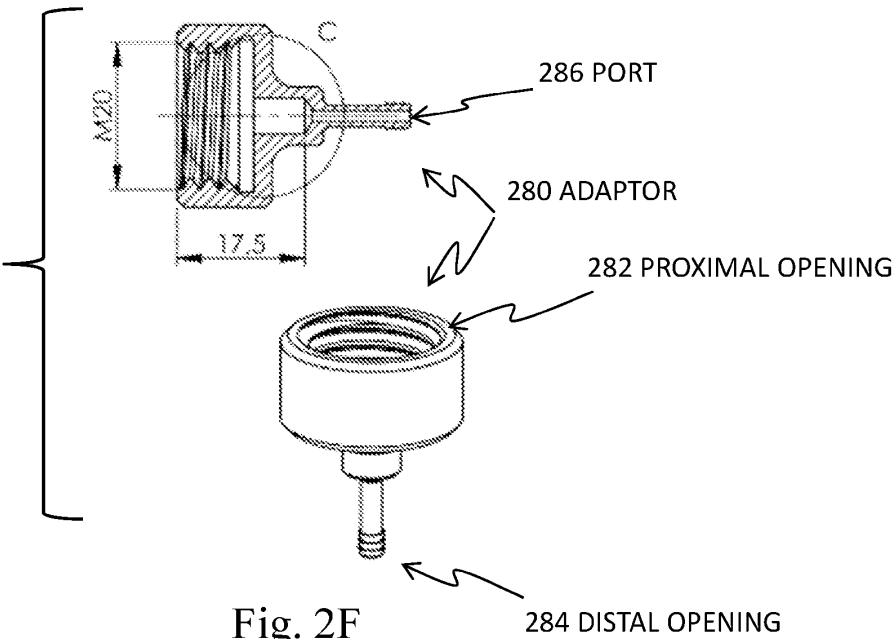


Fig. 2F

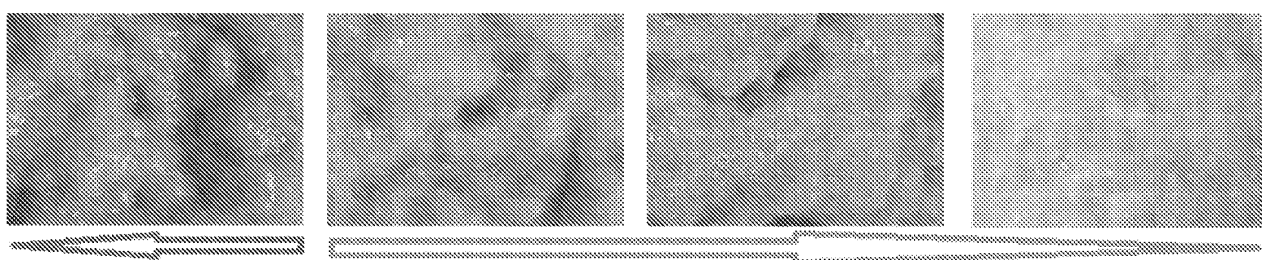


Fig. 3A

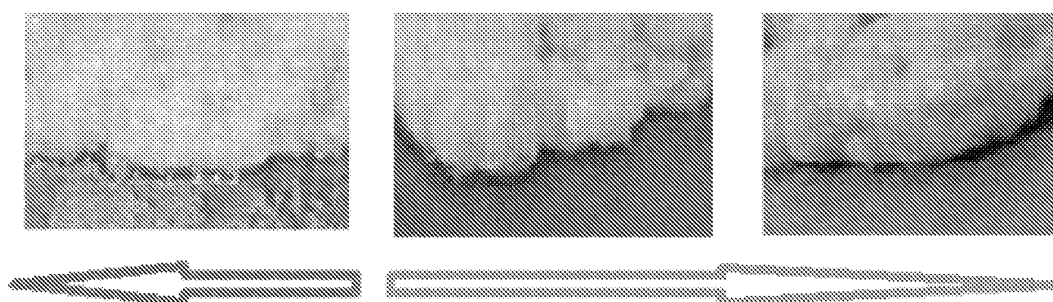


Fig. 3B

Raw vs Processed in Three Different Donors

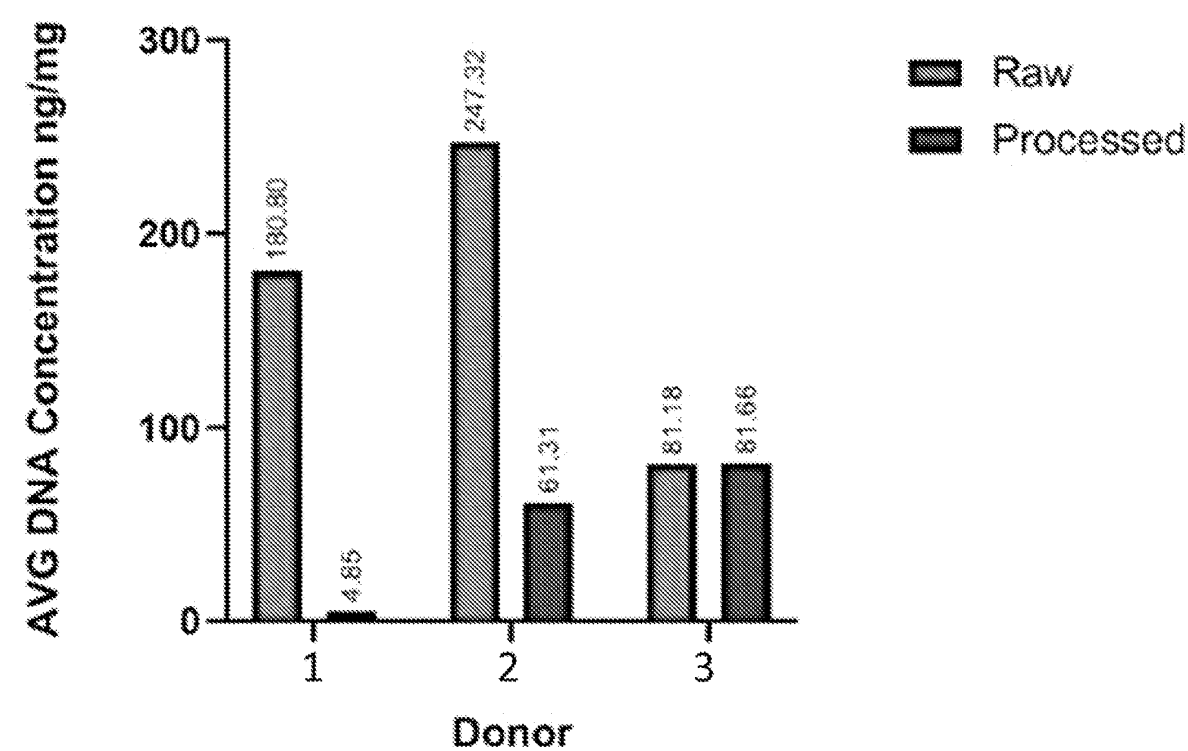


Fig. 4

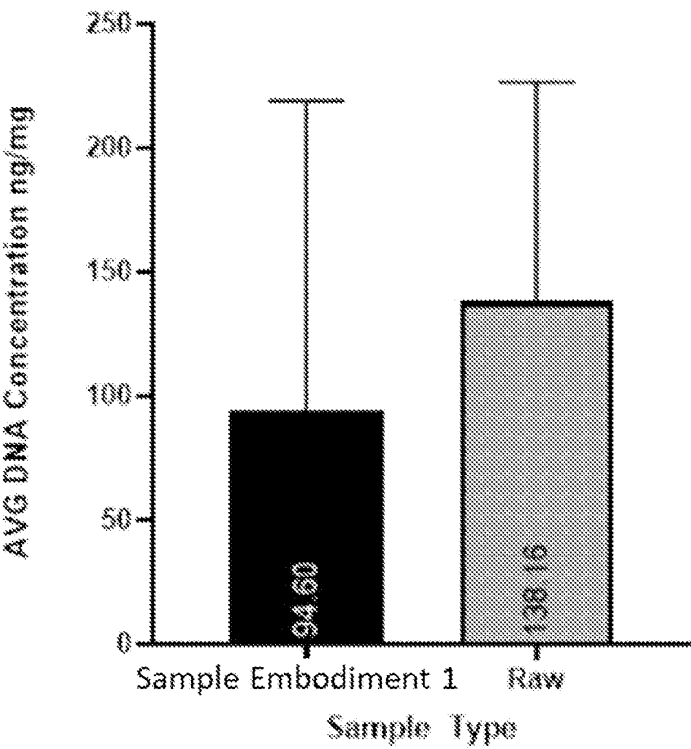


Fig. 5

Table 1. Average Component Quantification in %			
	% Water	% Lipid	% Solid Components (including ECM)
Spl 1 (n = 5)	24	79.3	4.6
Spl 2 (n = 3)	21.5	77.1	1.7
Raw (n = 2)	27.1	65.2	26.3

Fig. 6

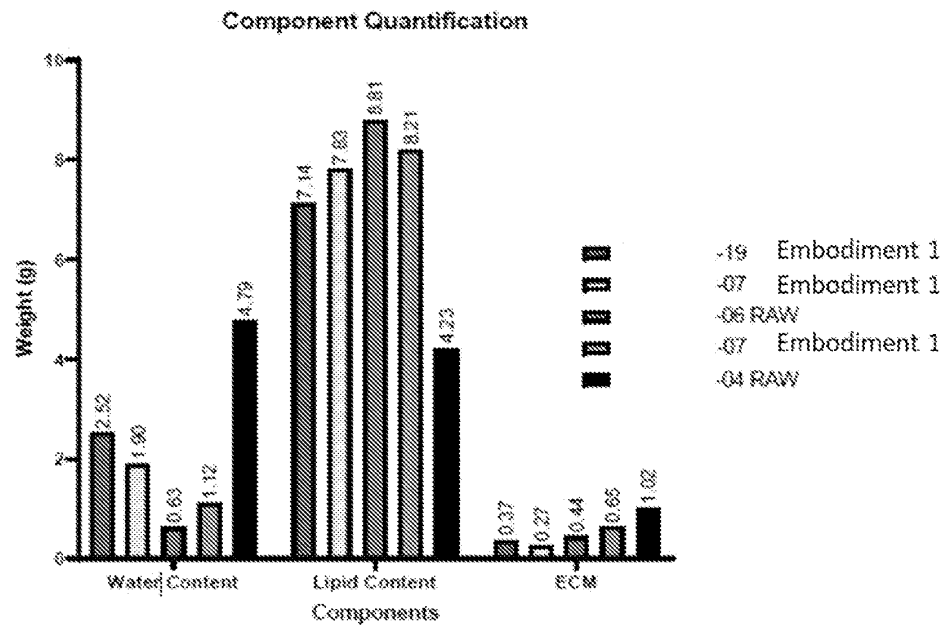


Fig. 7A

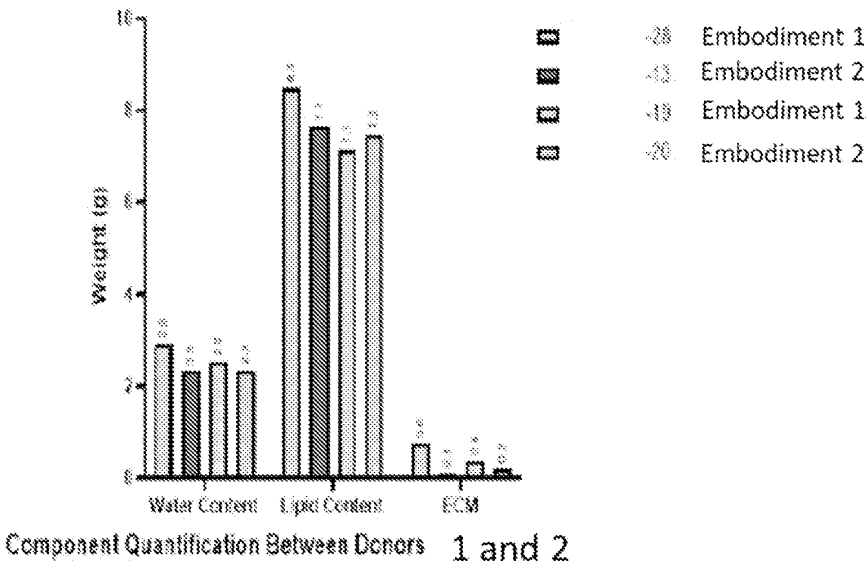


Fig. 7B

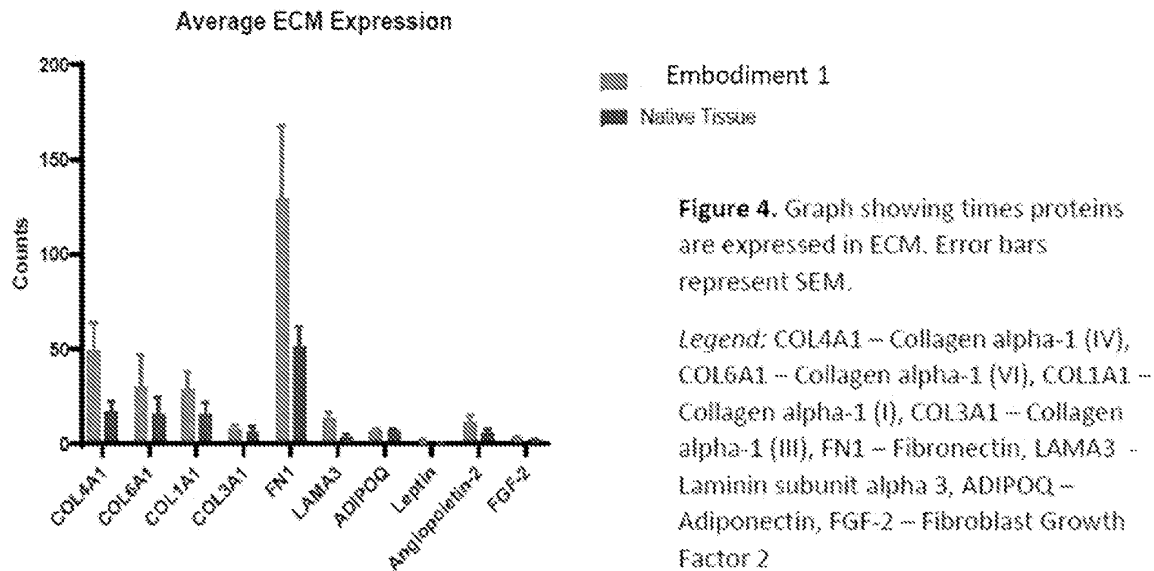


Fig. 8A

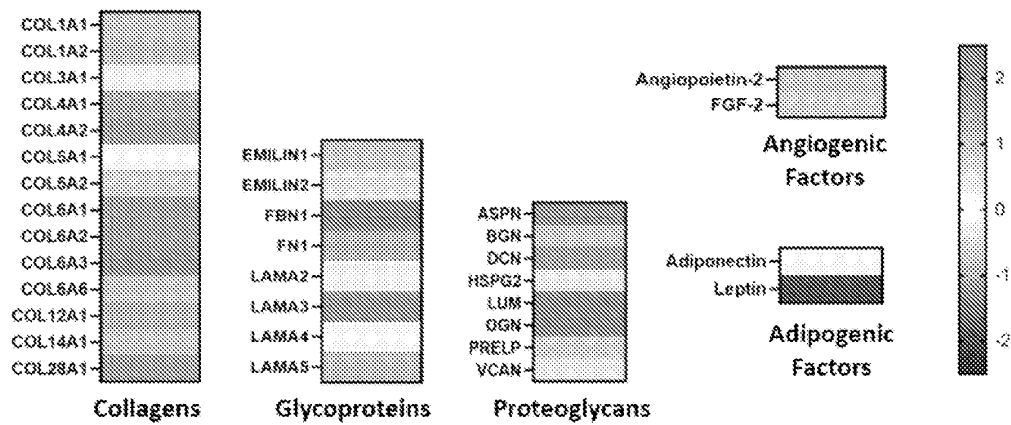


Fig. 8B

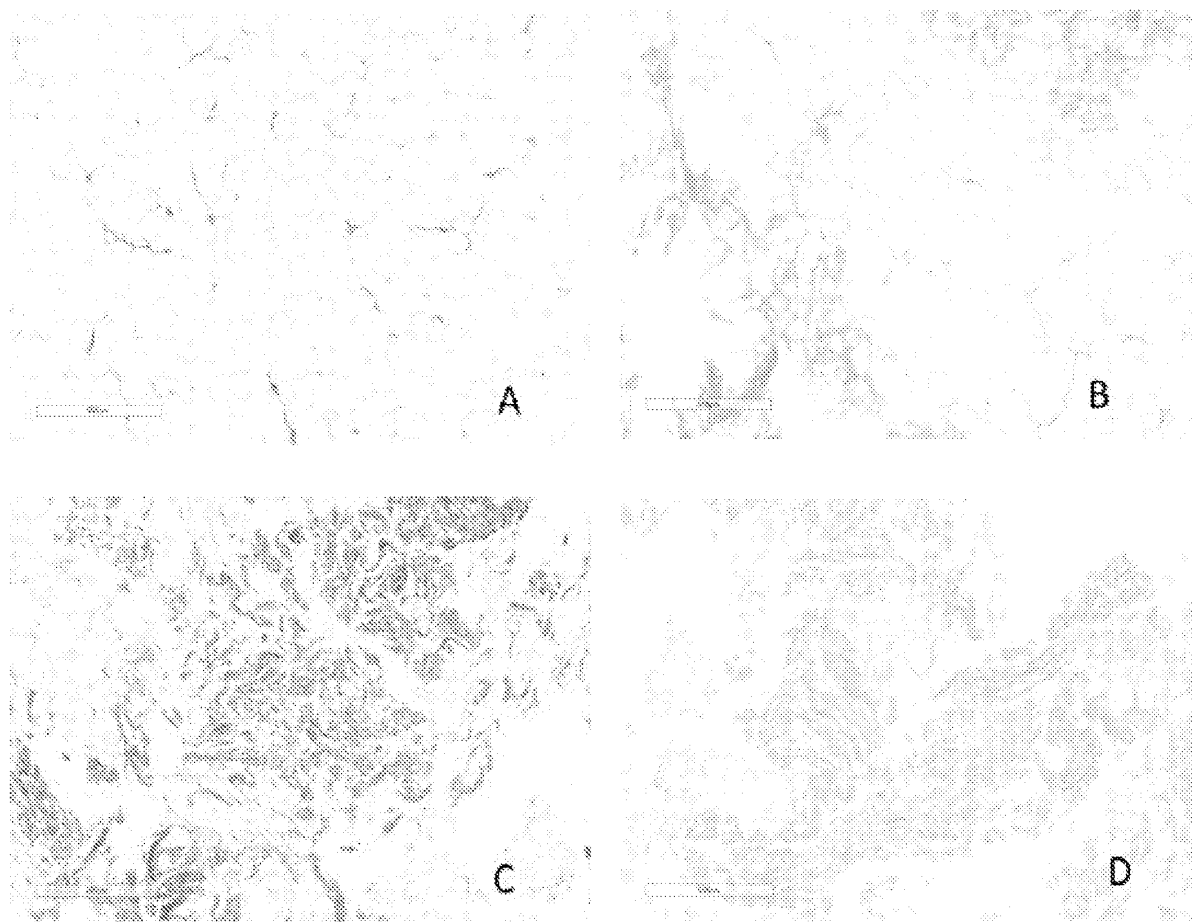


Fig. 9

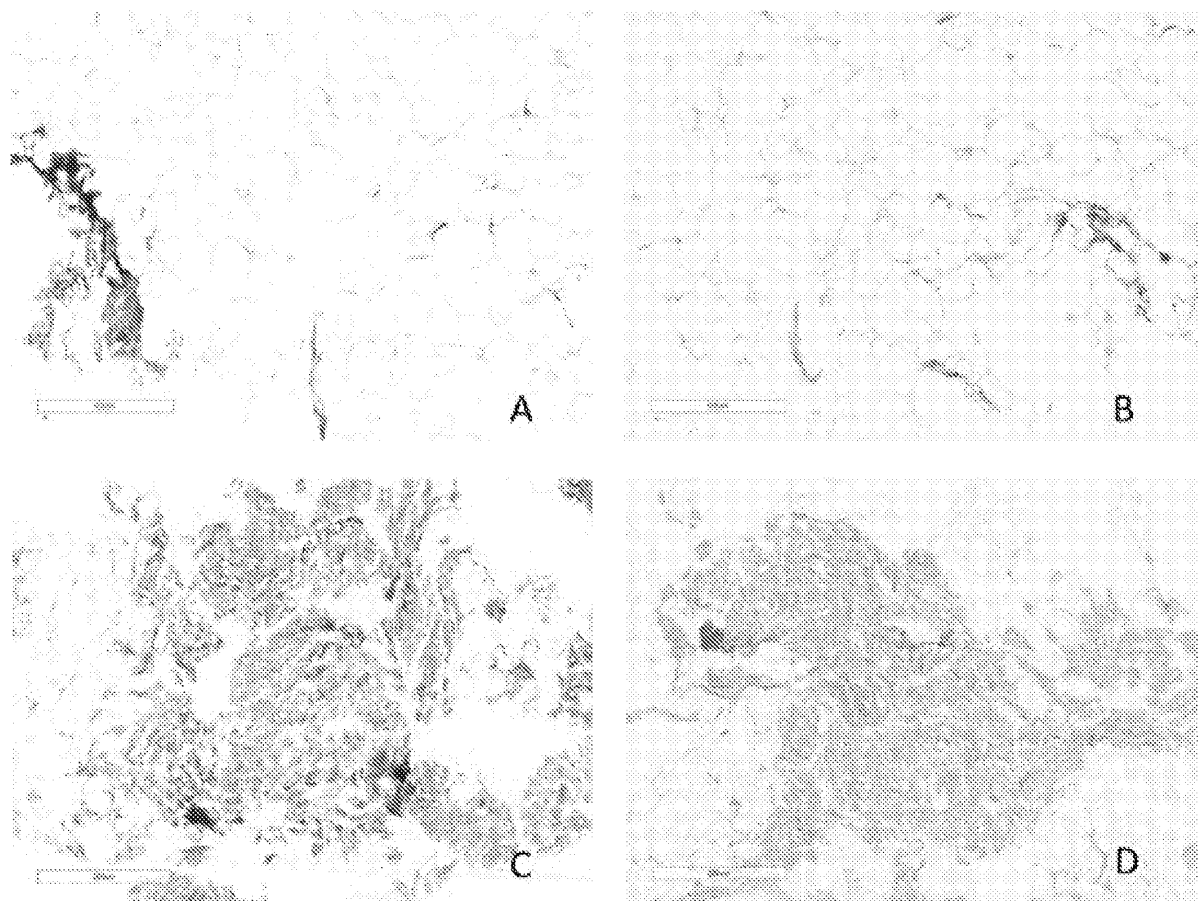


Fig. 10

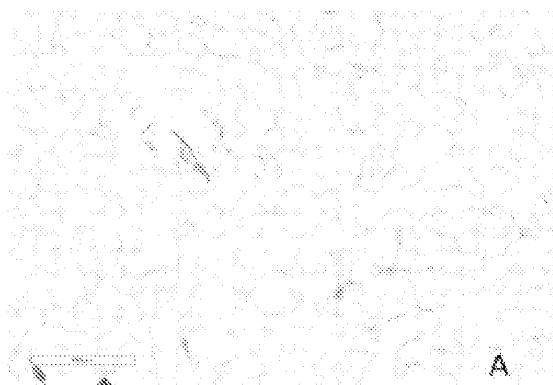


Fig. 11

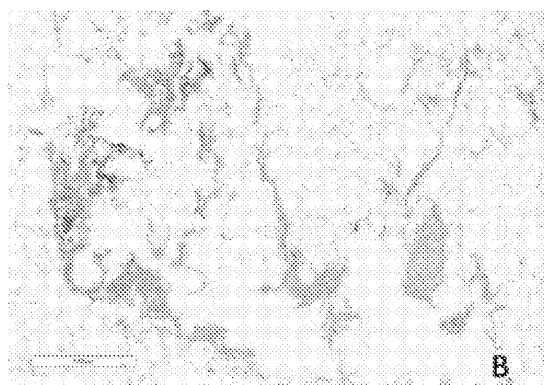


Fig. 12

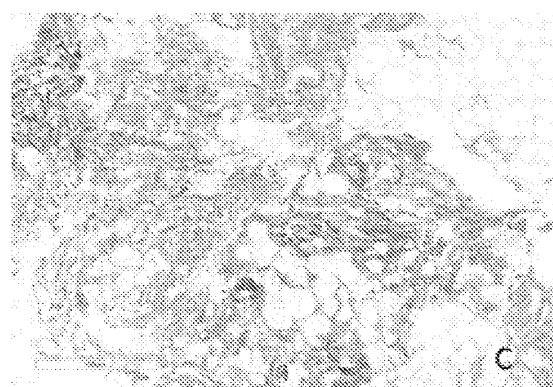


Fig. 13



Fig. 14

Fig. 15A

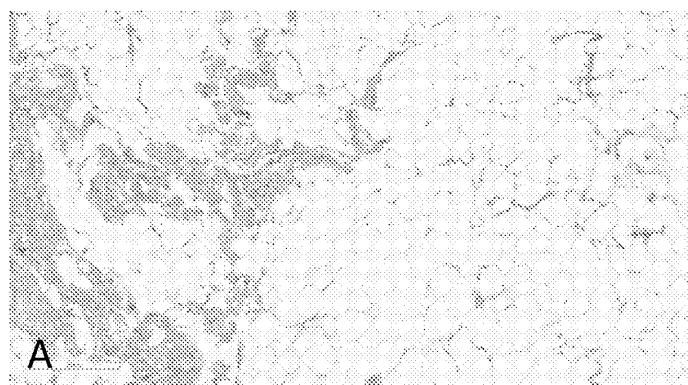


Fig. 15B



Fig. 16

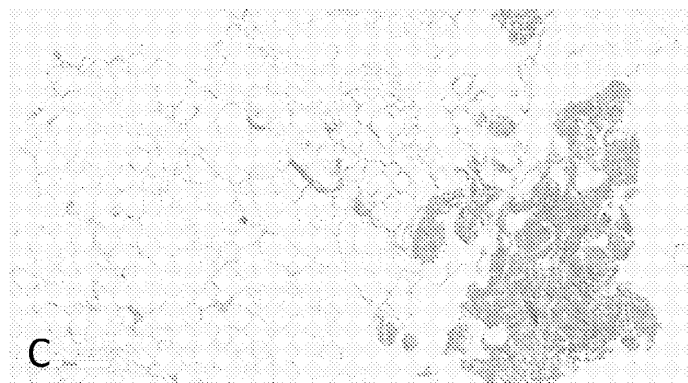


Fig. 17



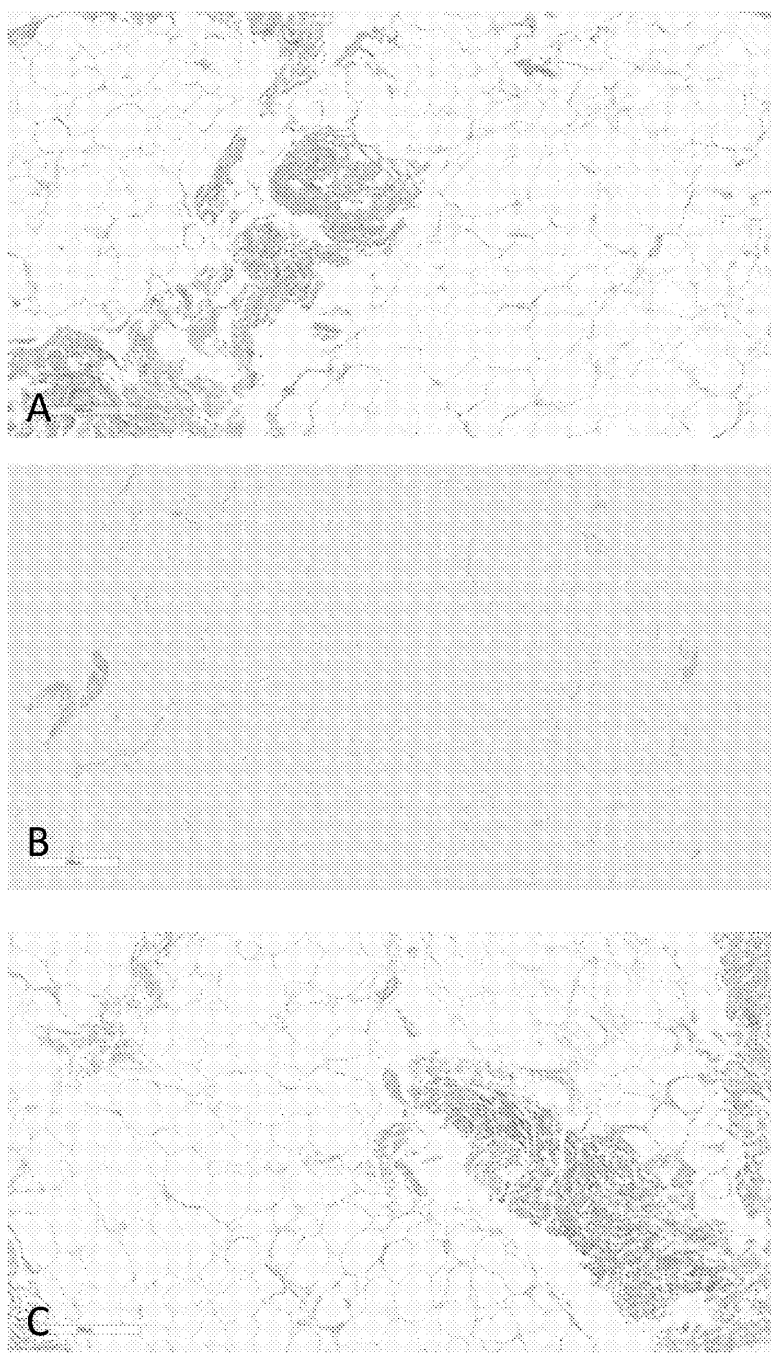


Fig. 18



Fig. 19

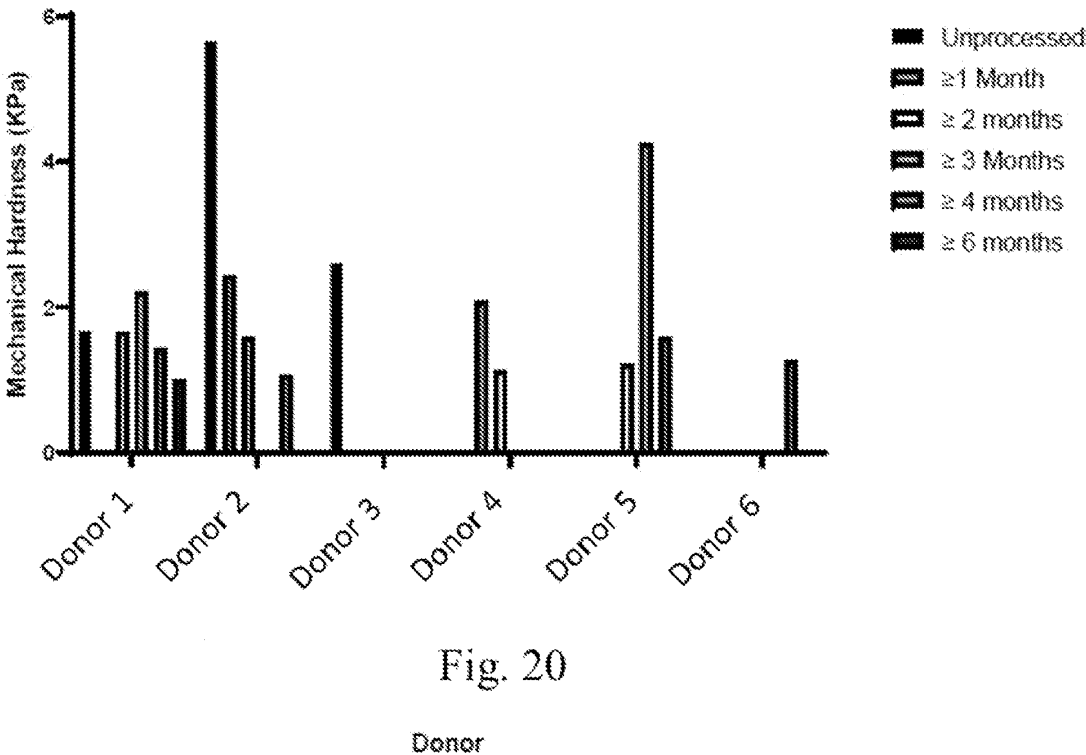


Fig. 20

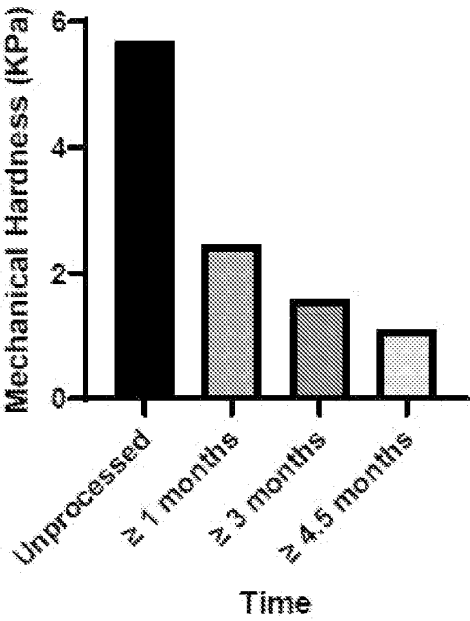


Fig. 21

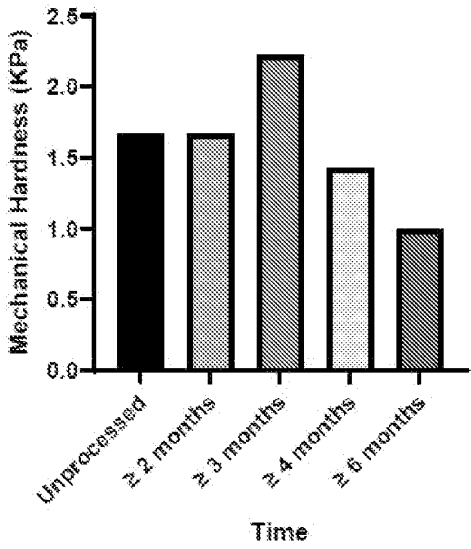


Fig. 22

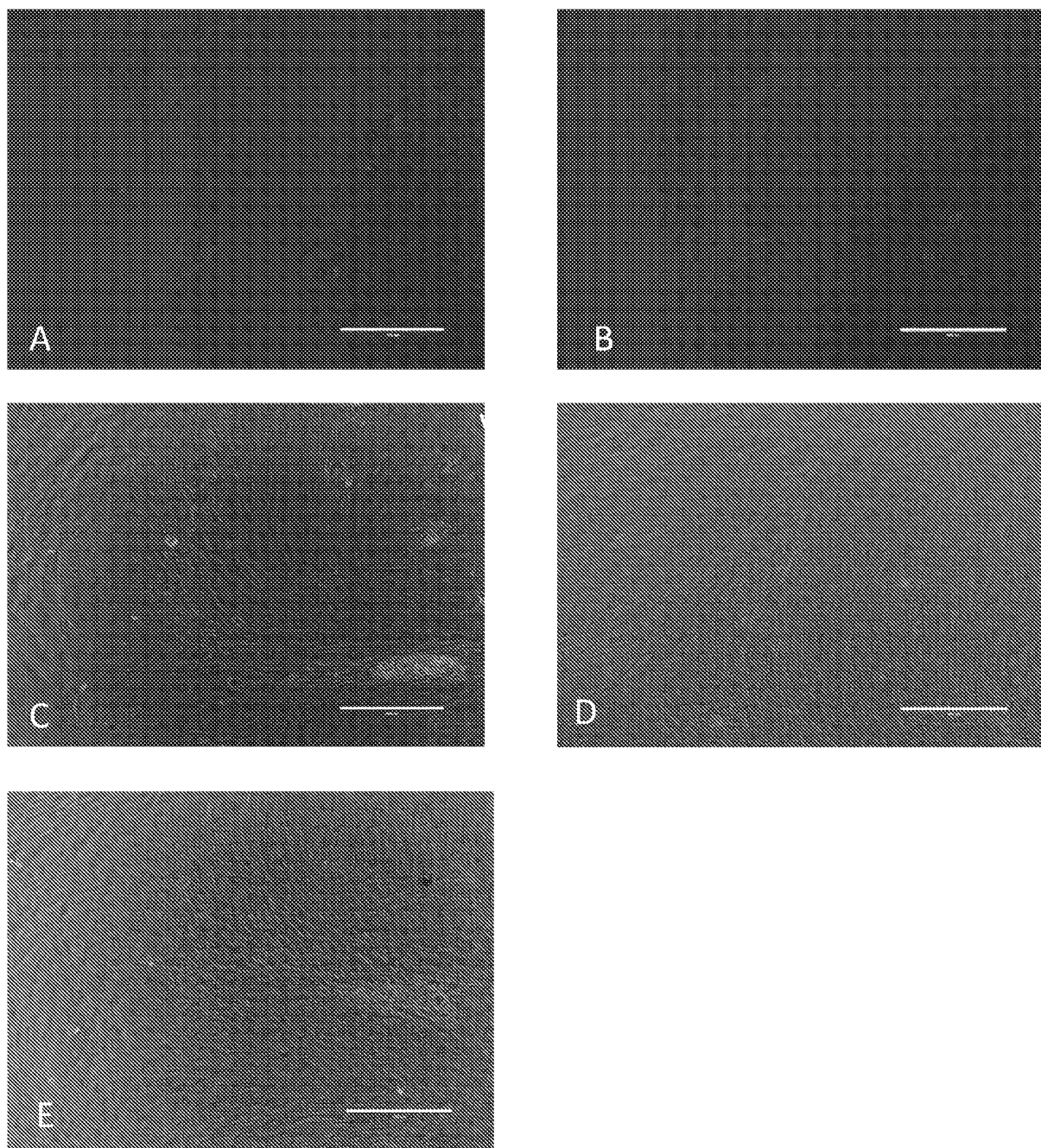


Fig. 23

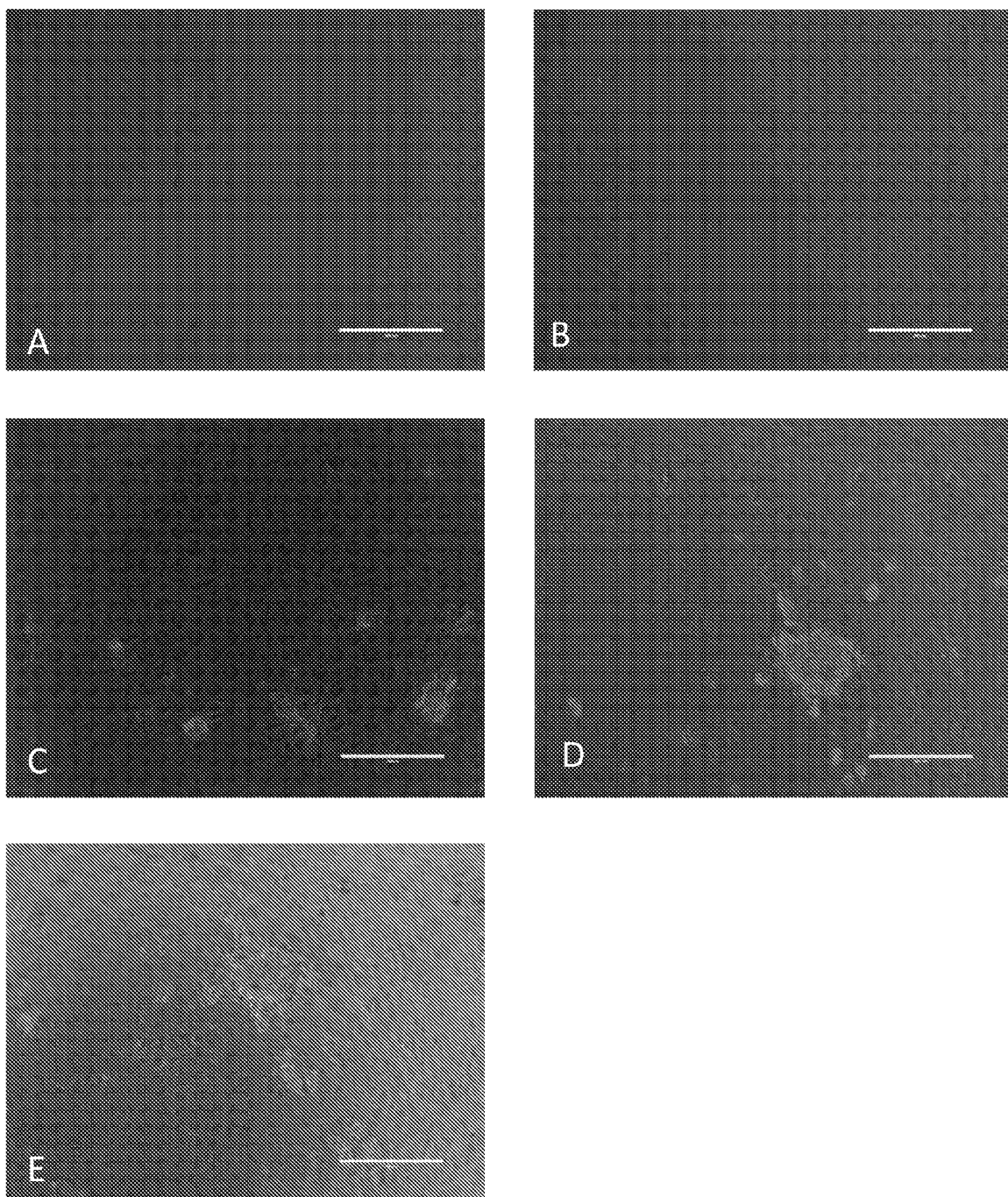


Fig. 24

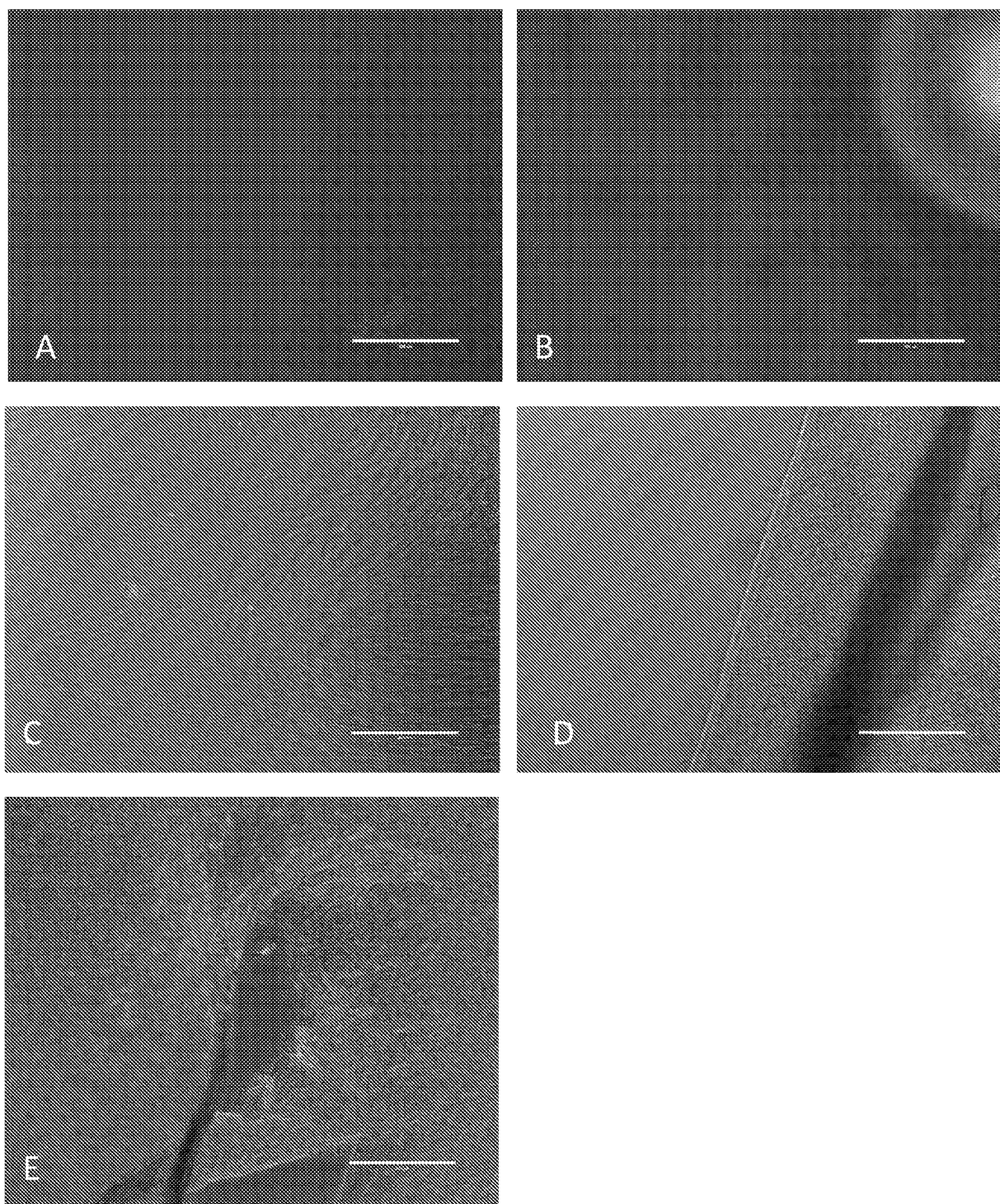


Fig. 25

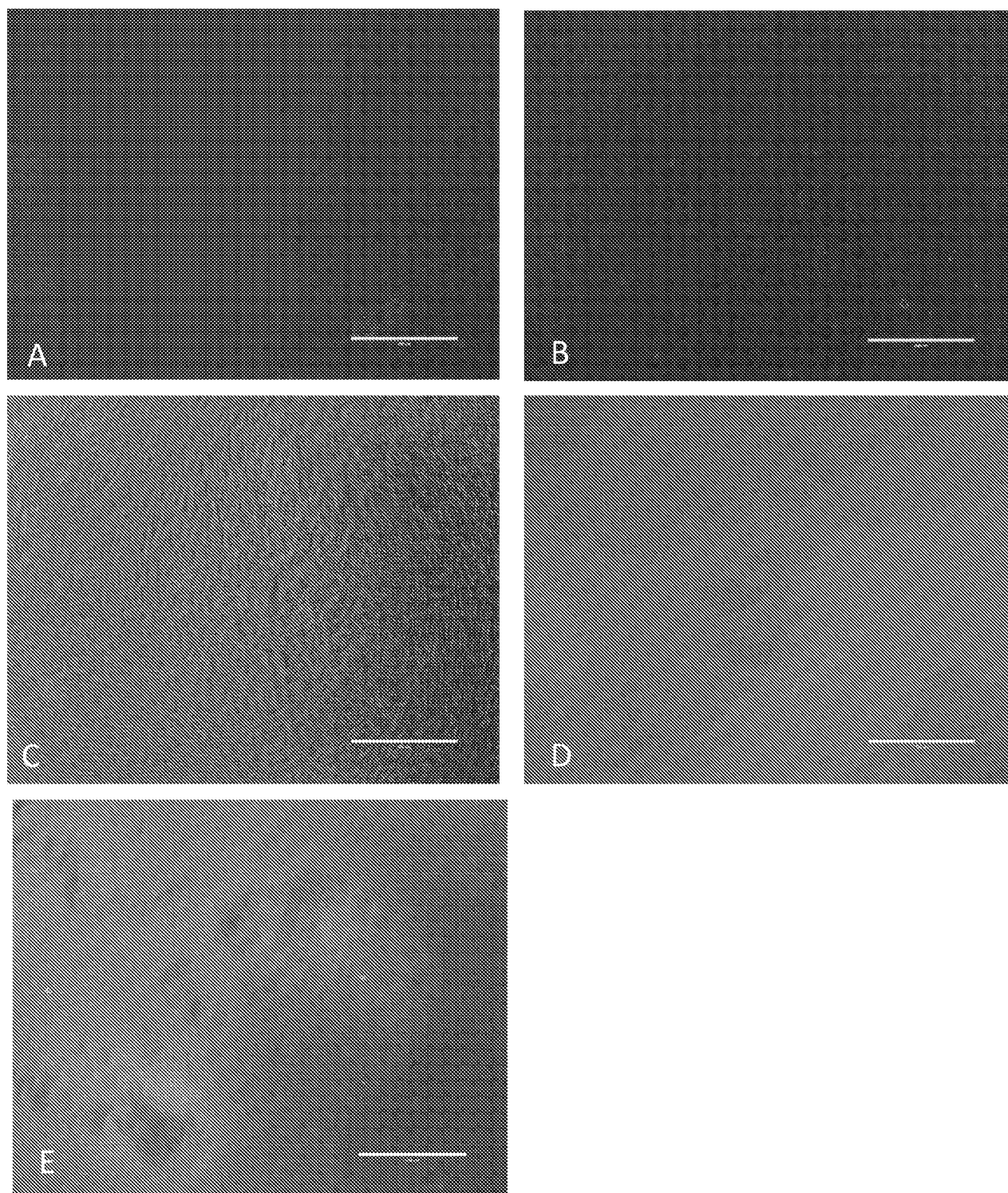


Fig. 26

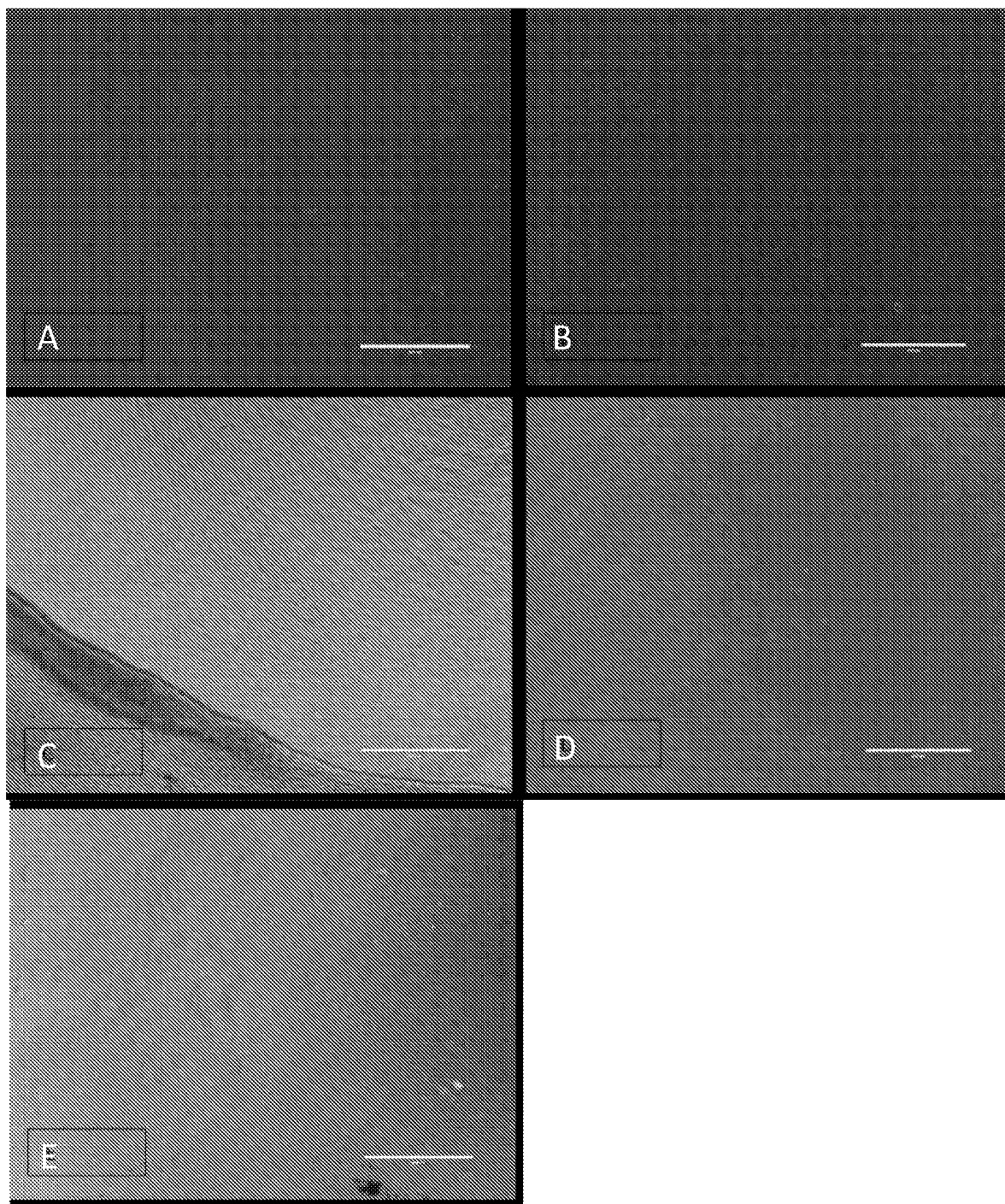


Fig. 27

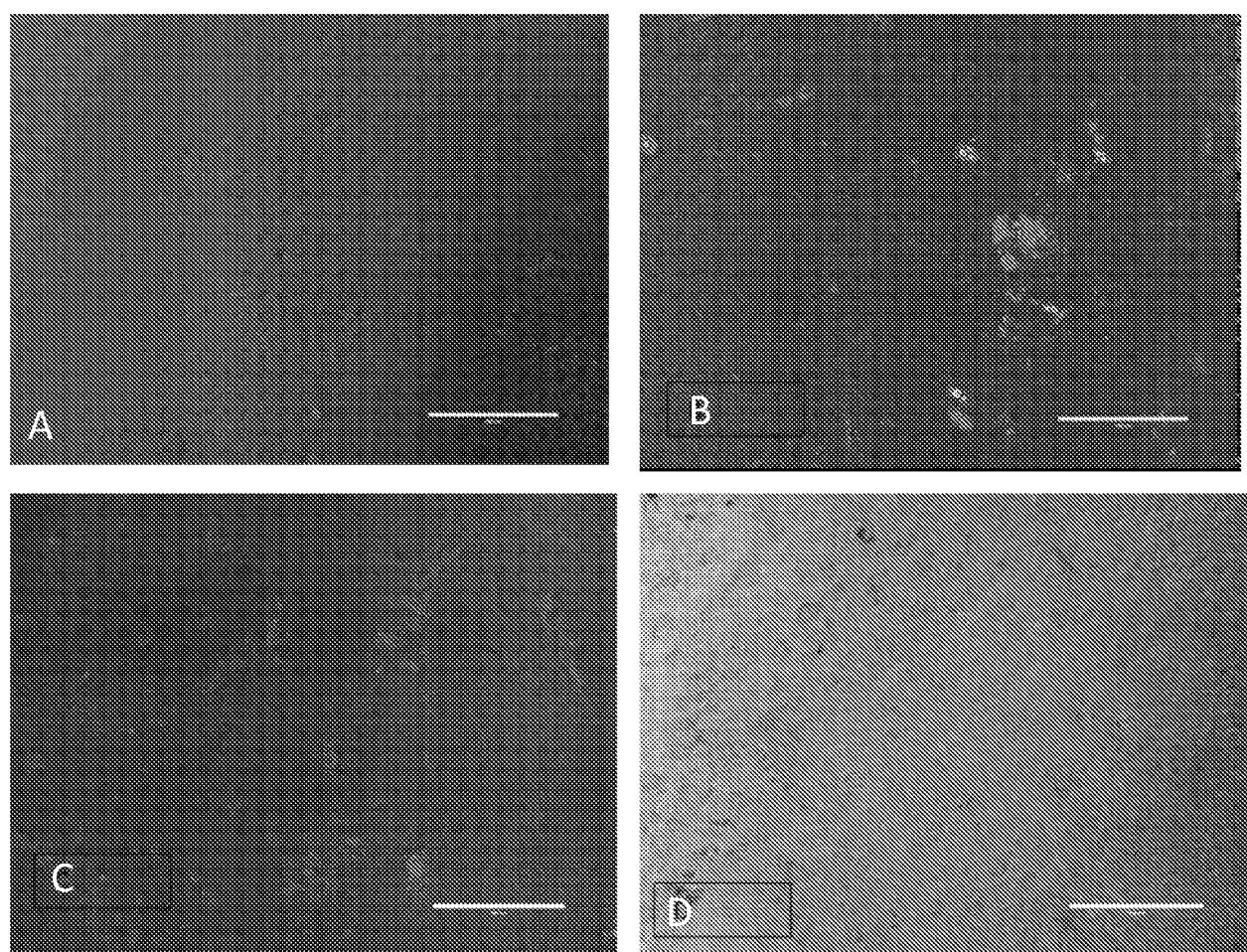


Fig. 28

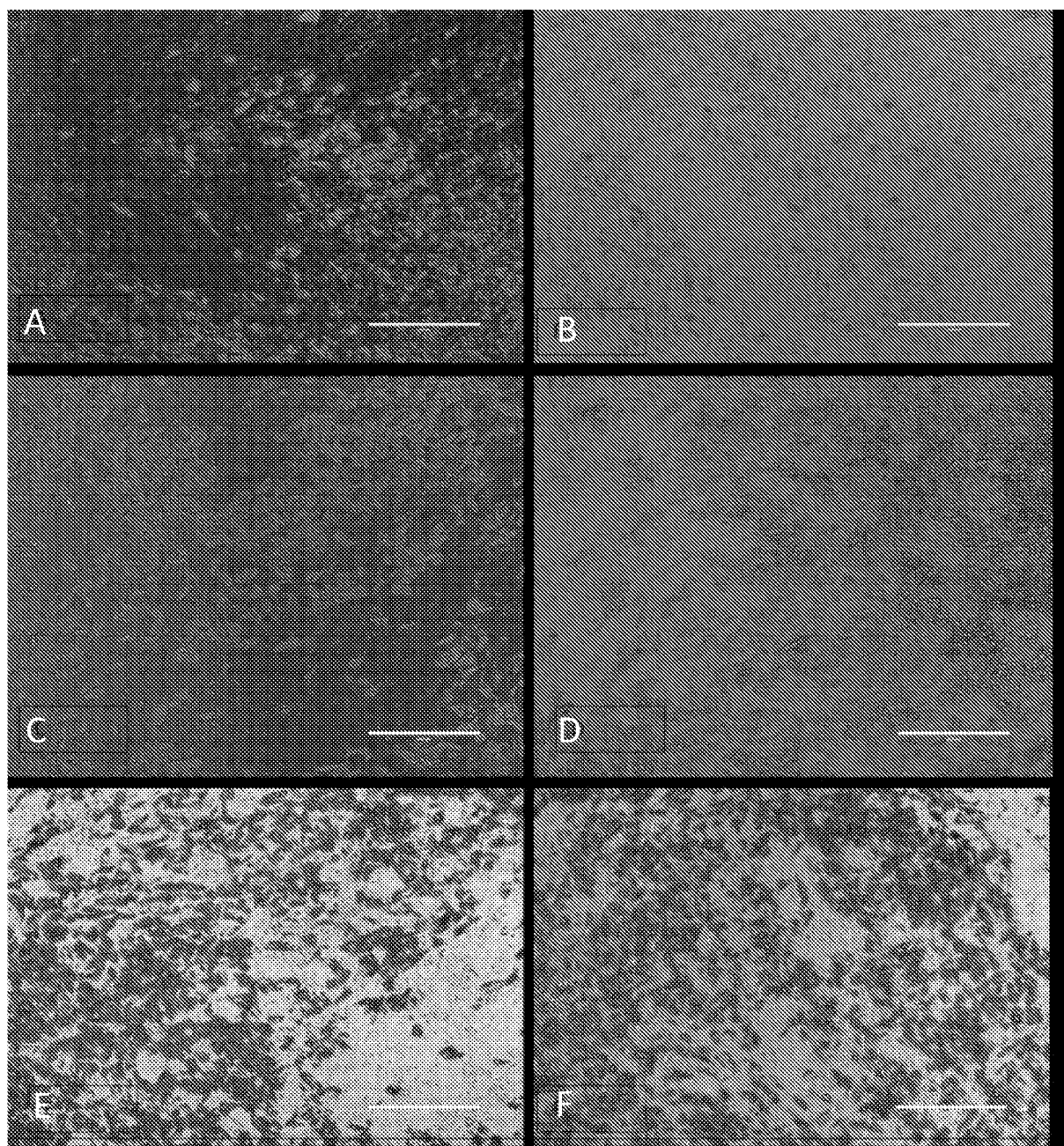


Fig. 29

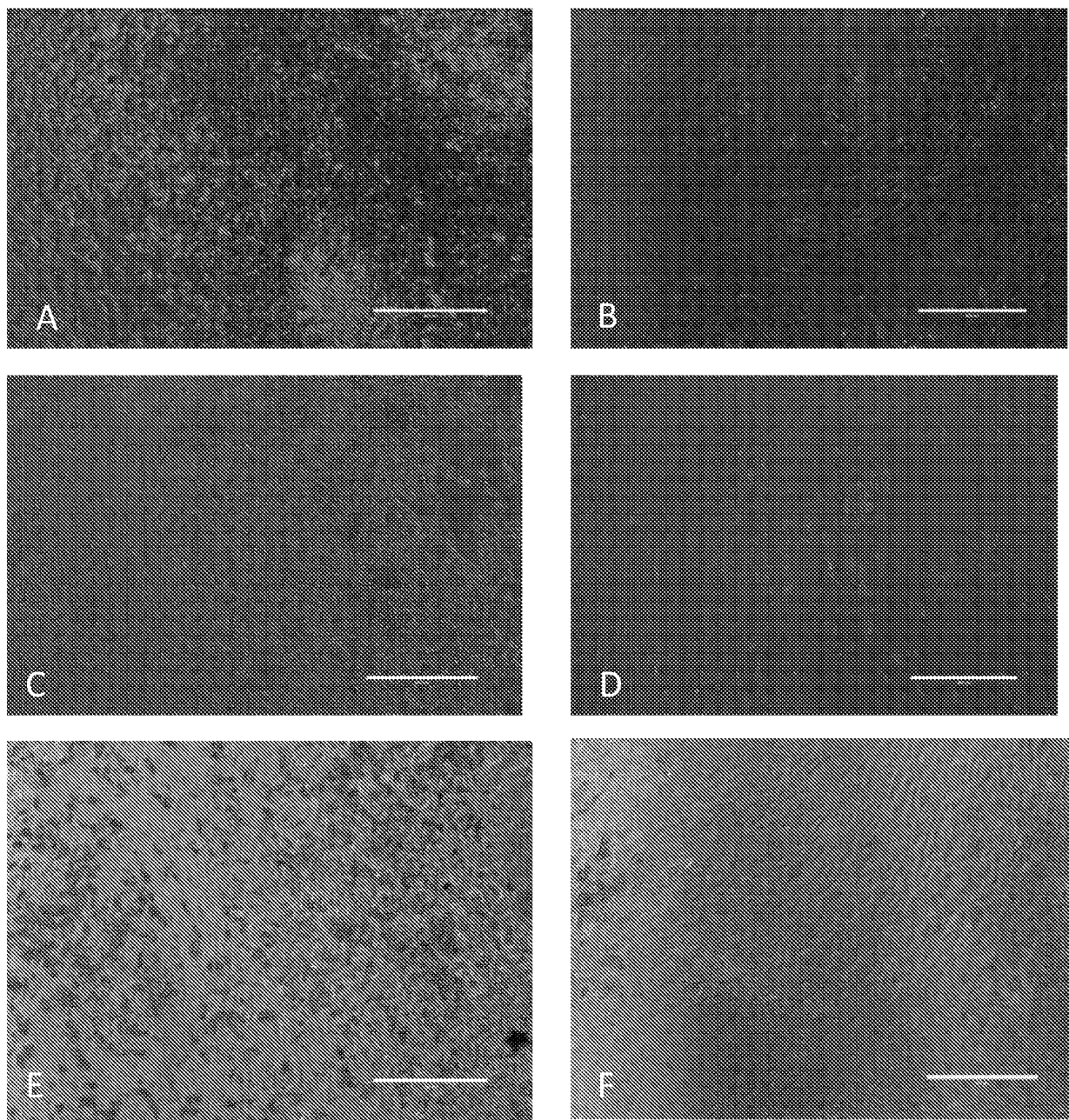


Fig. 30

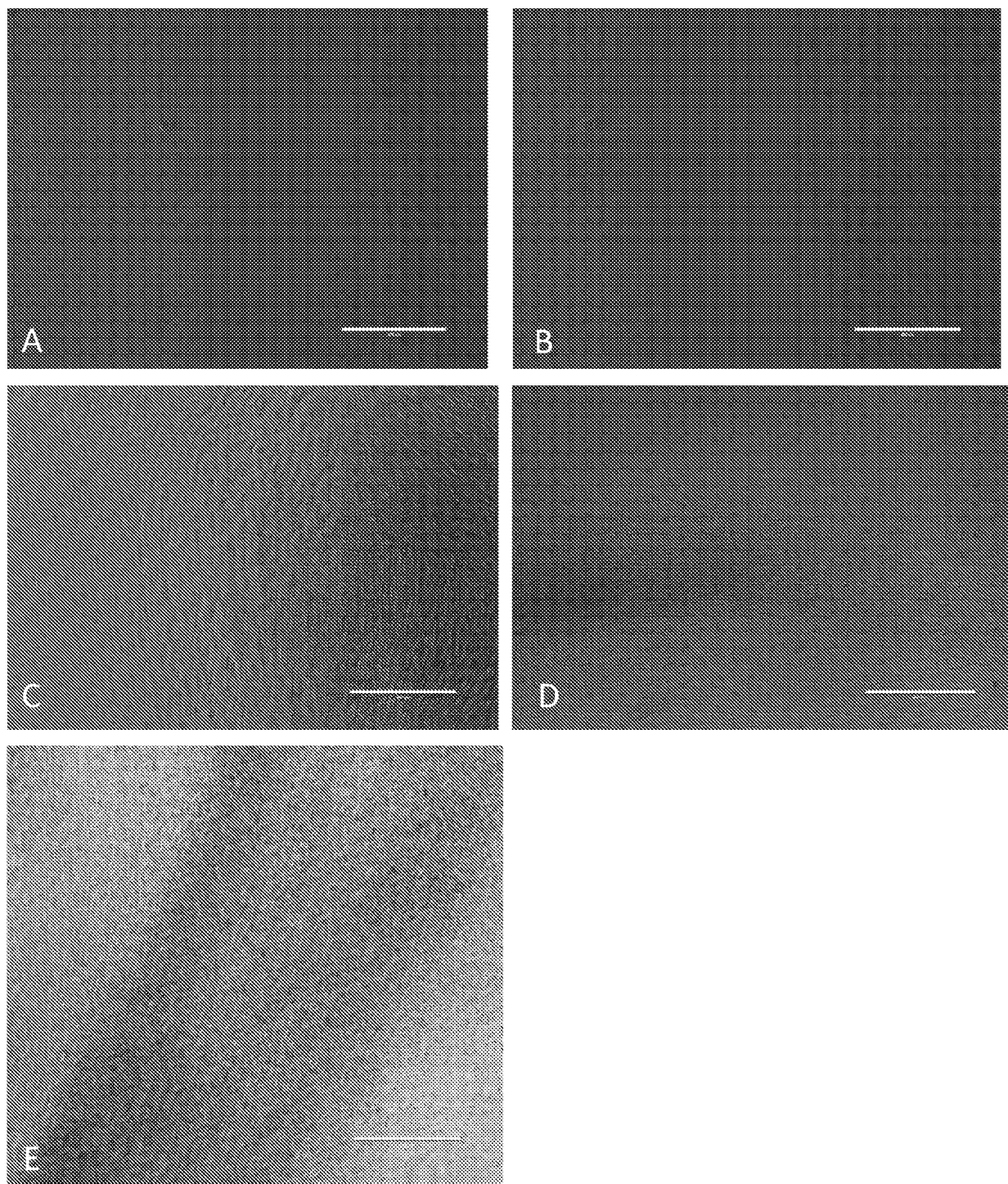


Fig. 31

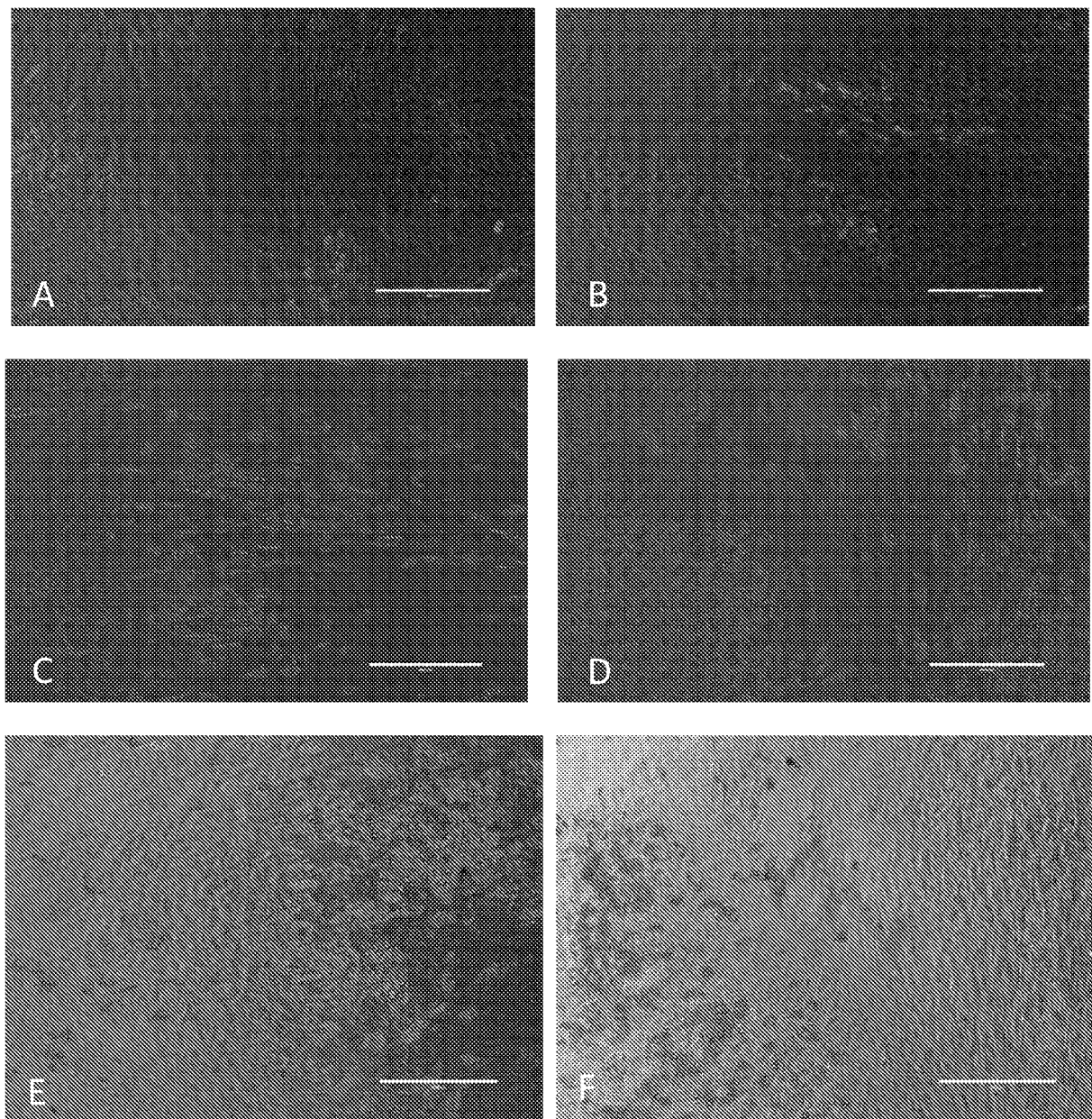


Fig. 32

Table 1. Absorbance Values in Optical Density (OD) at 510 nm							
		Control Media			Differentiation Media		
Test Sample	1	1.45			0.908	0.877	
Test Sample	2	0.649			1.219	2.537	
Test Sample	3	1.017			1.996	0.978	
Test Sample Conventional		2.024			1.132	0.95	
Control Well with NO Test Sample		1.482	1.202	1.471	1.046	1.028	0.523

Fig. 33

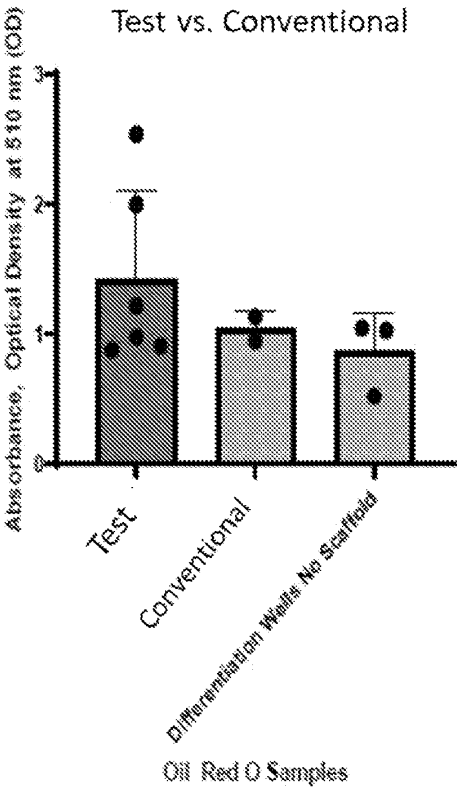


Fig. 34

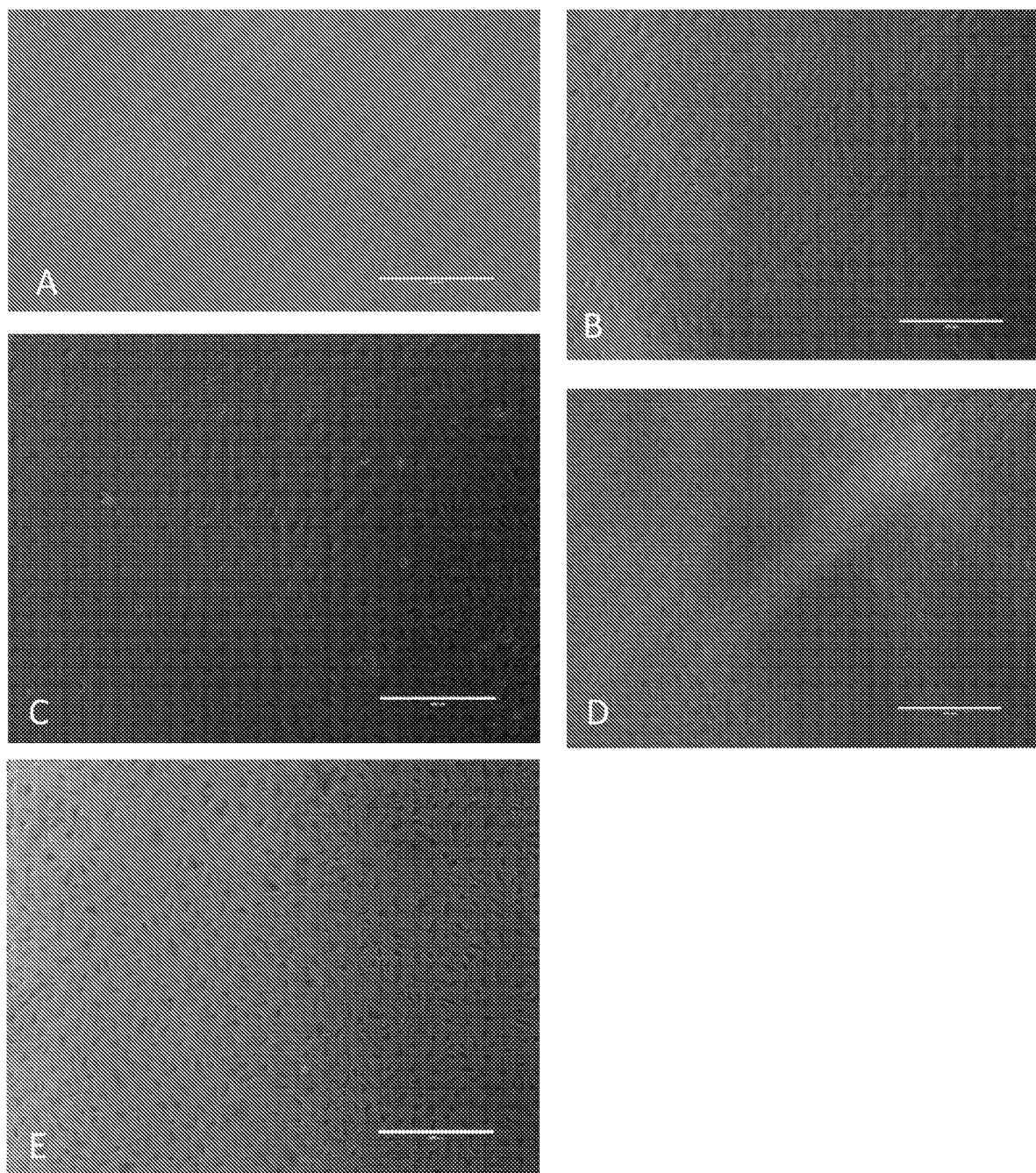


Fig. 35

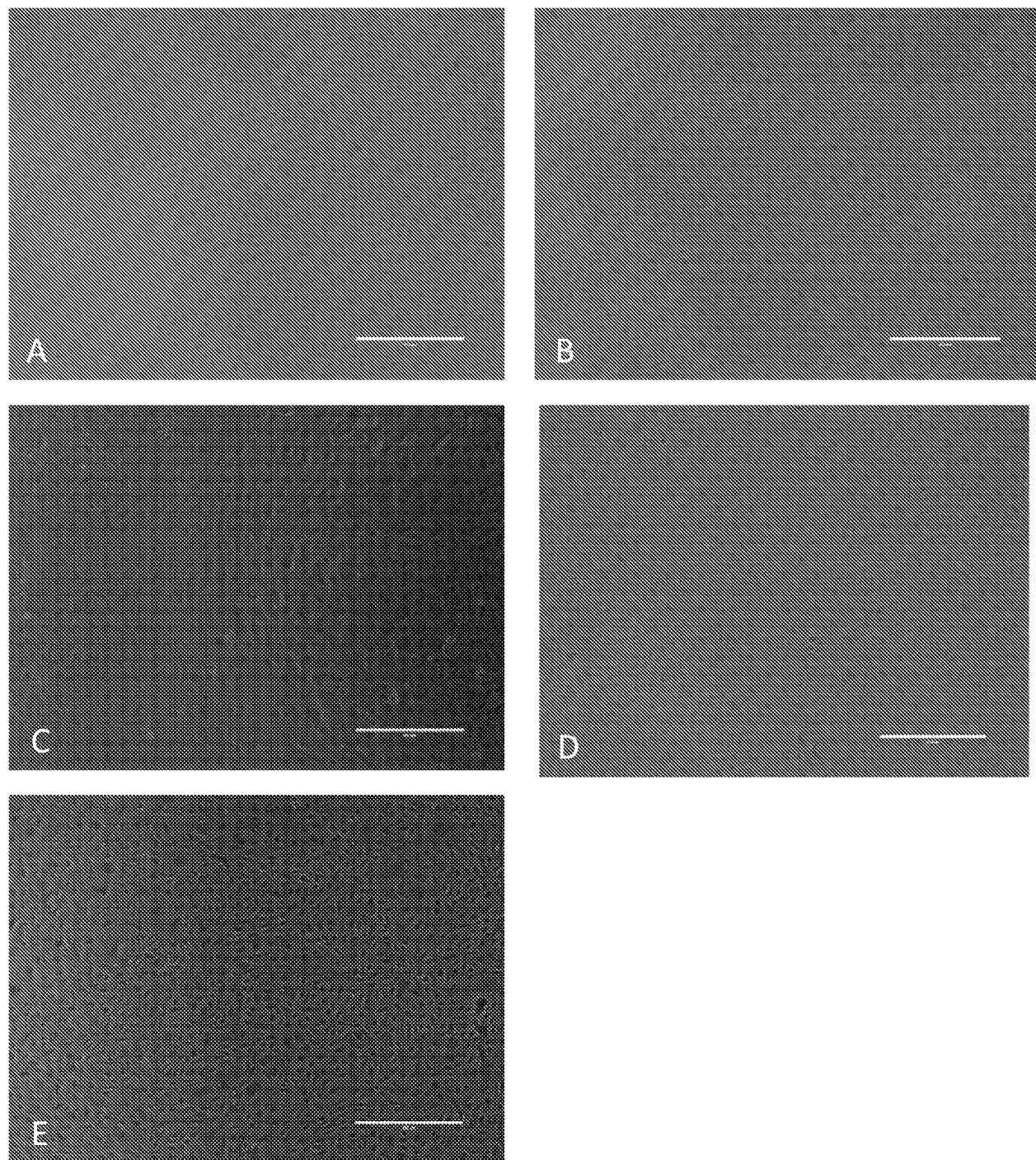


Fig. 36

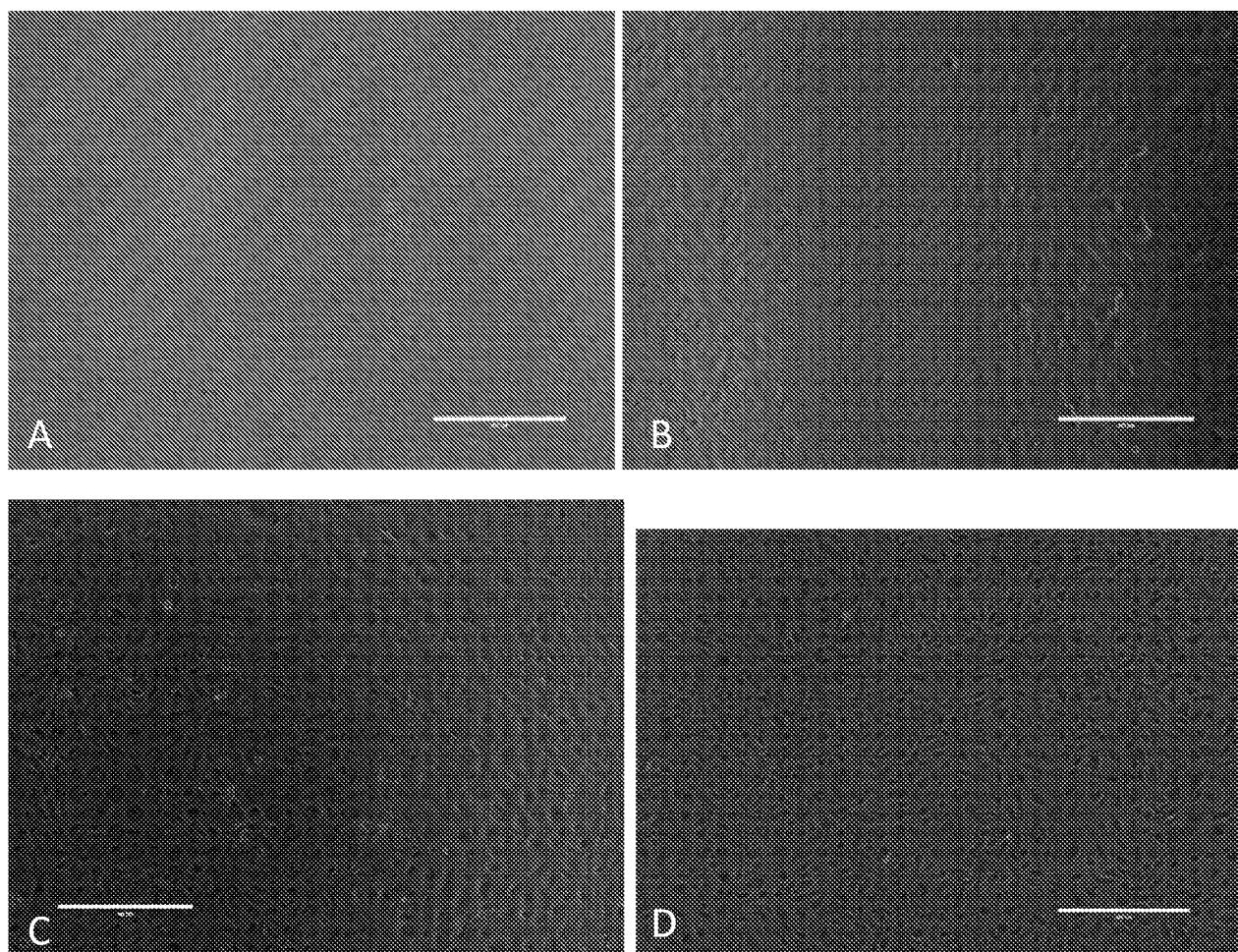


Fig. 37

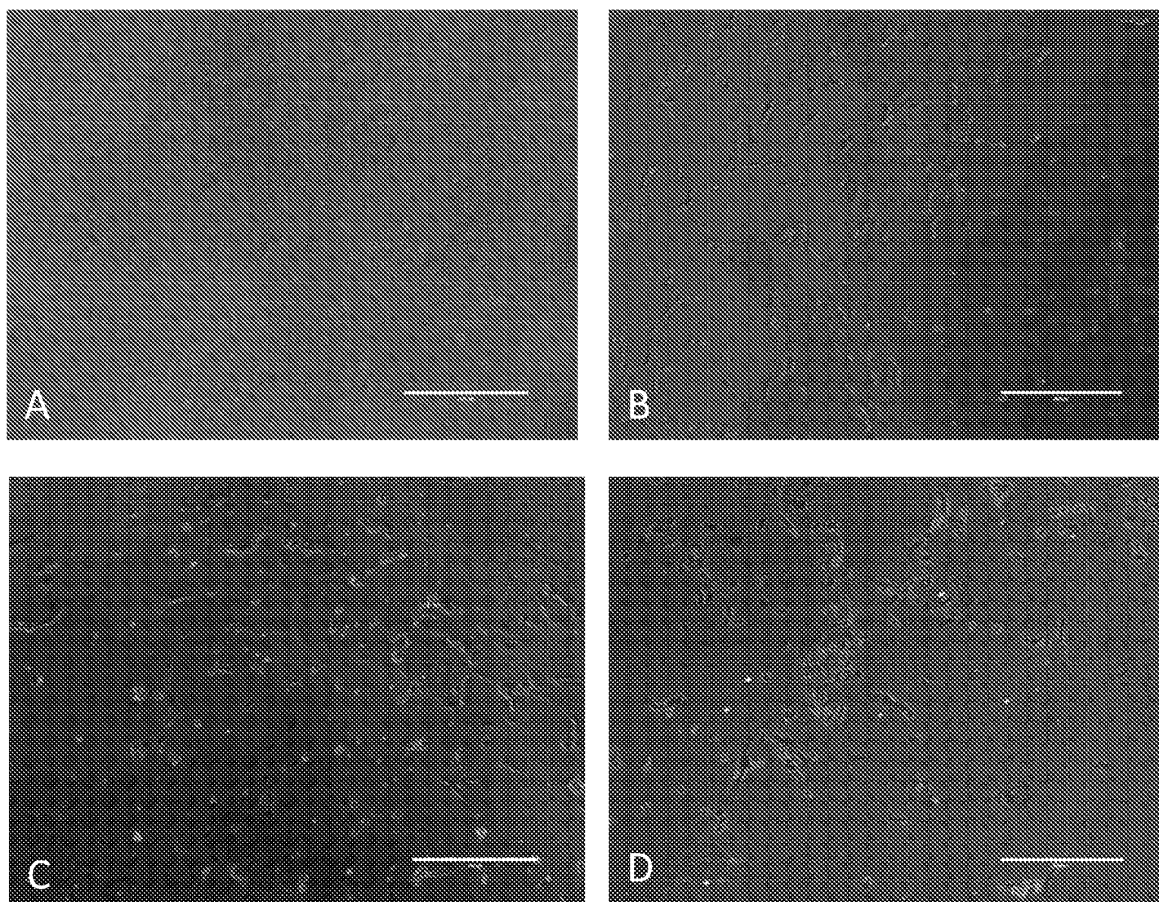


Fig. 38

Table 1. Absorbance Values in Optical Density (OD) at 590 nm				
Samples	OD1	OD2	OD3	Average
Test Sample: 1	4.557	4.919	4.997	4.82
Test Sample: 2	3.901	4.81	4.041	4.25
Test Sample: 3	5.557	6.215	5.642	5.80
Test Sample: Conventional	2.978	3.595	4.374	3.65
Positive Control (HDBEC with complete growth media)	5.765	4.338	4.643	4.92
Negative Control (HDBEC with basal media)	0.697	1.089	0.926	0.90
Blank	0.104			

Fig. 39

One-way ANOVA for Absorbance Donors and Conventional

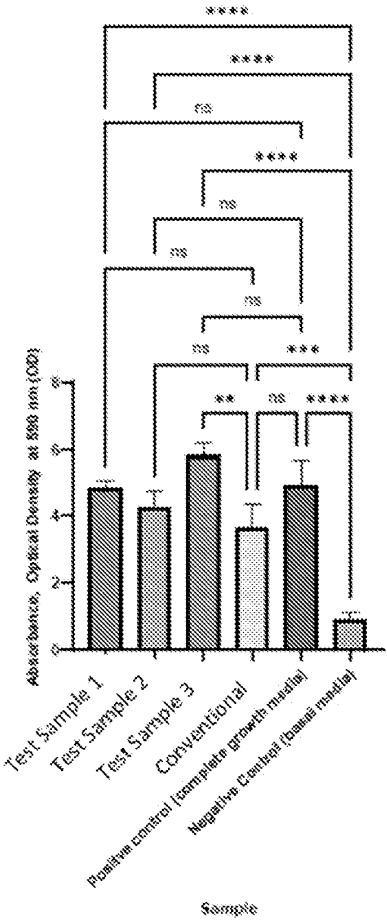


Fig. 40

Table 2. Absorbance Data Analysis		
Samples	Average OD	Standard Deviation +/-
Test Samples: A	4.96	0.71
Test Sample: Conventional	3.65	0.57
Positive Control	4.92	0.61
Negative Control	0.90	0.16

Fig. 41

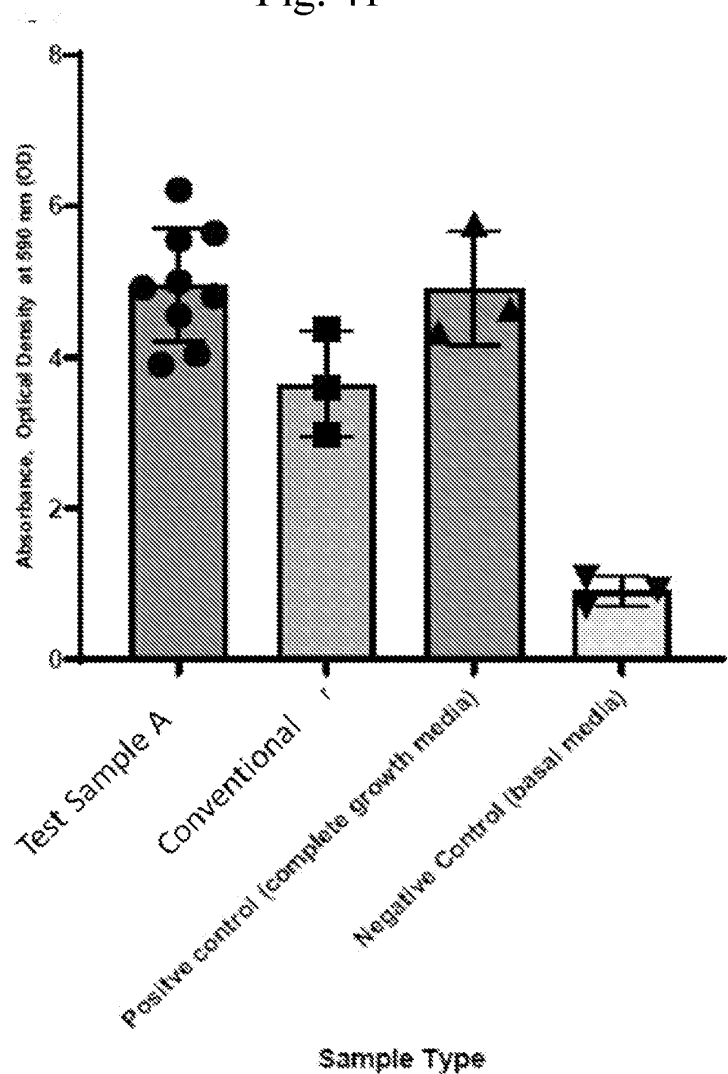


Fig. 42

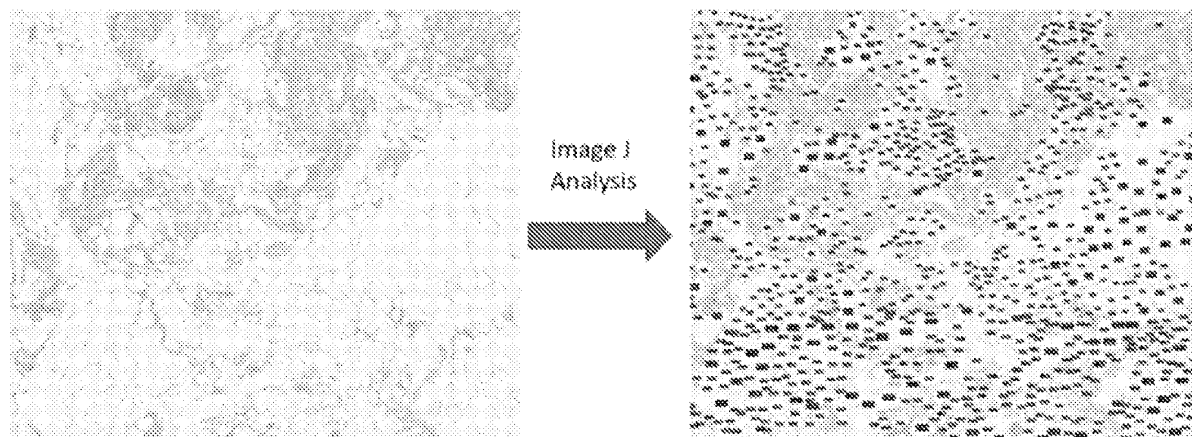


Fig. 43

Equation 1: % Adipocyte Composition = $\left(\frac{\text{Adipocyte Area}}{\text{Total Sample Area}} \right) \times 100$

Fig. 44

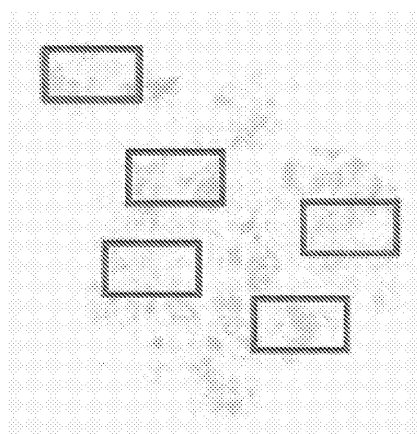


Fig. 45

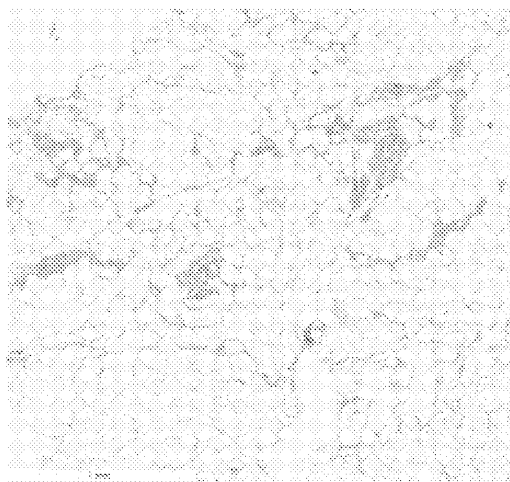


Fig. 46



Fig. 47

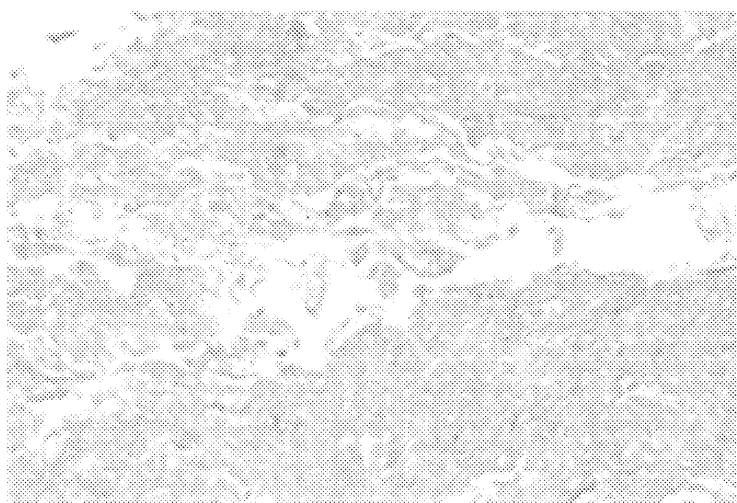


Fig. 48

Table 1: Average Adipocyte Composition for Allograft Embodiment 1	
Tissue Donor	Adipocyte Composition
Donor 1	70%
Donor 2	47%
Donor 3	57%
Donor 4	60%
Donor 5	64%
Range	~45-70%

Table 2: Average adipocyte Composition for Allograft Embodiment 2	
Tissue Donor	Adipocyte Composition
Donor 1	40%
Donor 2	54%
Donor 3	35%
Donor 4	29%
Donor 5	44%
Range	~30-55%

Fig. 49

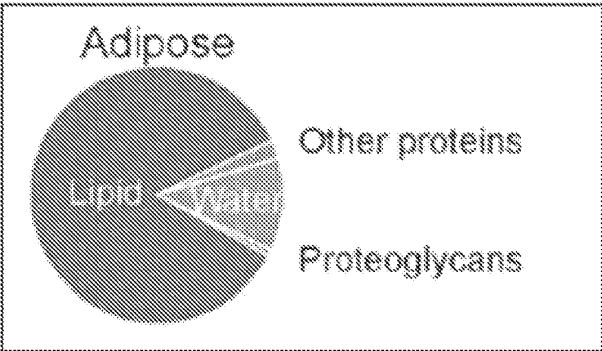


Fig. 50

Table 1: Allograft Embodiment 1 Compositional Analysis			
Tissue Donor	Water Content	Lipid Content	Protein Content
Donor 1	19.17%	78.46%	2.36%
Donor 2	19.66%	77.81%	2.53%
Donor 3	46.7%	46.76%	6.54%
Average	28.51%	67.68%	3.81%
Percent Range	19-47%	47-80%	2-7%

Fig. 51

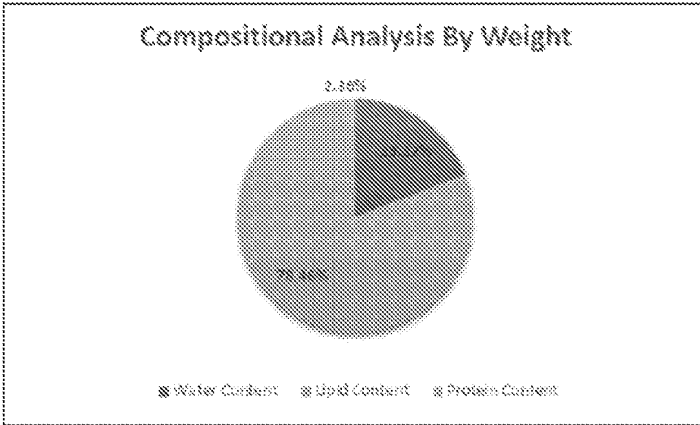


Fig. 52

Table 2: Allograft Embodiment 2 Compositional Analysis			
Tissue Donor	Water Content	Lipid Content	Protein Content
Donor 1	14.59%	83.53%	1.87%
Donor 2	20.69%	76.36%	2.95%
Donor 3	35.76%	60.30%	3.94%
Average	23.68%	73.4%	2.92%
Percent Range	15-36%	60-84%	2-4%

Fig. 53

Table 3: Adipose Tissue Compositional Comparison Excluding Donor 3			
Tissue Donor	Water Content	Lipid Content	Protein Content
Allograft Embodiment 1 Percent Range	19-20%	78%	2-3%
Allograft Embodiment 2 Percent Range	15-21%	76-84%	2-3%
Benchmark Percent Range McKee et al. 2019	15-20%	75-80%	3-5%

Fig. 54