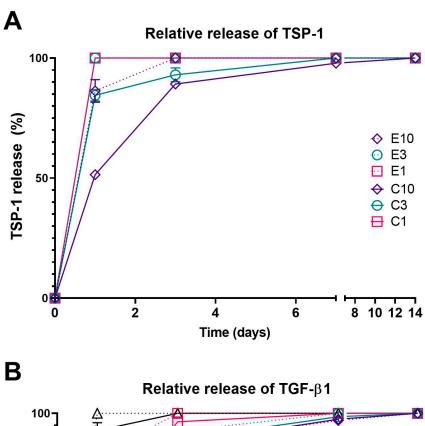
A Simple Drug Delivery System for Platelet-Derived Bioactive Molecules, to Improve Melanocyte Stimulation in Vitiligo Treatment

Table S1. Concentration of the determined analytes in the platelet concentrate. LOQ stands for limit of quantification.

Pro-inflammatory cytokines						
	IL-1b	IL-1b 1.7 ±0.3 pg/mL				
	IL-2	7.1 ±1.2 pg/mL				
	IL-6	15.6 ±4.0 pg/mL				
	IL-7	14.8 ±1.1 pg/mL				
	IL-8	19.2 ±1.2 pg/mL				
	IL-9	95.4 ±3.1 pg/mL				
	IL-12	<loq< td=""></loq<>				
	IL-15	223.3 ±15.1 pg/mL				
	IL-17	17.7 ±1.1 pg/mL				
	IFN-γ	9.7 ±1.2 pg/mL				
	TNF-α	57.2 ±3.5 pg/mL				
Anti-inflammatory cytokines						
	IL-1ra 214.8± 13.1 p					
	IL-4	1.2 ±0.1 pg/mL				
	IL-5	39.4 ±5.3 pg/mL				
	IL-10	<loq< td=""></loq<>				
	IL-13	<loq< td=""></loq<>				
Chemokines						
	Eotaxin 23.3 ±0.8 pg/mL					
	IP-10	225.0 ±5.4 pg/mL				
	MCP-1	12.3 ±1.2 pg/mL				
	MIP-1a	1.3 ±0.1 pg/mL				
	MIP-1b	MIP-1b 1,426.8 ±105.2 pg/mL				
	RANTES	15,982.6 ±1,729.8 pg/mL				
Growth factors						
	IGF-1	32.4 ng/mL				
	TGF-β1	ΓGF-β1 17,569.9 ±1,507.8 pg/mL				
	bFGF	67.7 ±4.7 pg/mL				
	G-CSF	73.6 ±12.5 pg/mL				
	GM-CSF	6.0 ±1.0 pg/mL				
	PDGF-BB 1,125.5 ±55.6 pg/mL					
	VEGF	294.7 ±48.1 pg/mL				



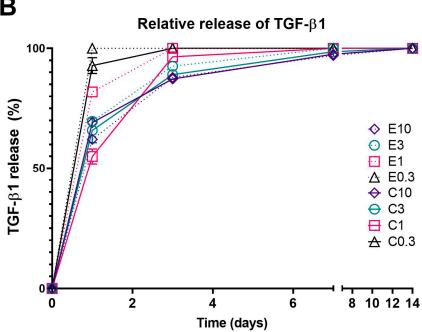


Figure S1 Relative release of TSP-1 (A) and TGF- β 1 (B) from the electrospun (E) and centrifugally spun (C) scaffolds.

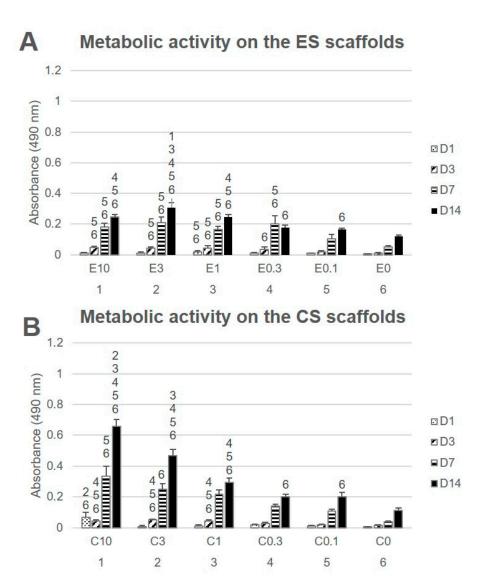


Figure S2 Metabolic activity of melanocytes seeded on the electrospun and centrifugally spun scaffolds. A – Metabolic activity of melanocytes seeded on the electrospun PCL scaffolds (statistical analysis p<0.05). B – Metabolic activity of melanocytes seeded on the centrifugally spun PCL scaffolds (statistical analysis p<0.05). The level of significance is denoted by the numbers above the bars in the graph. E stands for electrospun, C stands for centrifugally spun and the number indicates the fold change of the physiological concentration of platelets (300x109 platelets/L).

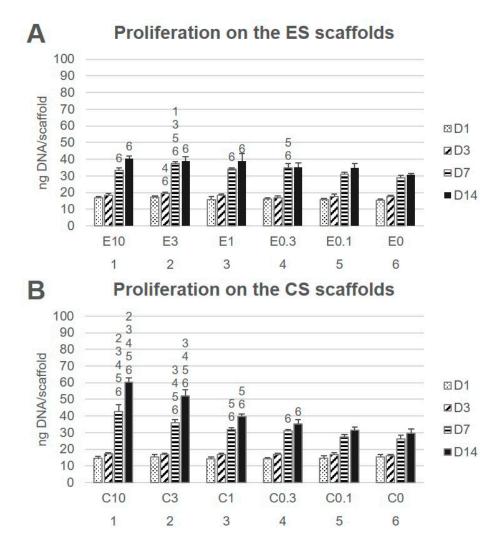


Figure S3 Proliferation of melanocytes seeded on the electrospun and centrifugally spun scaffolds. A – Proliferation of melanocytes seeded on the electrospun PCL scaffolds (statistical analysis p<0.05). B – Proliferation of melanocytes seeded on the centrifugally spun PCL scaffolds (statistical analysis p<0.05). The level of significance is denoted by the numbers above the bars in the graph. E stands for electrospun, C stands for centrifugally spun and the number indicates the fold change of the physiological concentration of platelets (300x109 platelets/L).

Day 7	10PC	ЗРС	PC	0.3PC	0.1PC	Control
Electrospinning	99		00		00	00
Centrifugal spinning	00		3)	00		00
Day 14	10PC	3PC	PC	0.3PC	0.1PC	Control
Electrospinning		00	30		00	
Centrifugal spinning	90		00		90	30

Figure S4 Visualization of melanin synthesis on the electrospun and centrifugally spun fibrous scaffolds.