

Table S4. The top 20 results of low-risk group analyzed by GO.

I D	GS follow link to MSigDB	S I Z E	E S	N E S	N O M p- v al	F O R q- v al	F W E R p- va l	R A N K A T M A X
1	GOBP_CORNIFICATION	1 1 2	0 . 7 6	2. 1 1	0. 0 0 2	0. 0 2	0. 06 4	29 91
2	GOCC_CORNIFIED_ENVELOPE	4 4	0 . 8 5	2. 0 7	0 0	0. 0 2 1	0. 10 2	21 19
3	GOMF_EXTRACELLULAR_MATRIX_S TRUCTURAL_CONSTITUENT_CONFER RING_TENSILE_STRENGTH	4 1	0 . 6 9	1. 9	0. 0 0 8	0. 2 2 6	0. 41 7	24 84
4	GOBP_PEPTIDE_CROSS_LINKING	3 4	0 . 6 4	1. 8 2 7	0. 0 1 7	0. 0 4 7 5	0. 59	27 31
5	GOBP_CELL_AGGREGATION	2 2	0 . 6 4	1. 8 1	0. 0 0 8	0. 0 4 1 4	0. 61 4	54 98
6	GOCC_COMPLEX_OF_COLLAGEN_TRI MERS	2 1	0 . 7 3	1. 7 9 2	0. 0 2 2	0. 0 4 5 6	0. 65 2	15 57
7	GOBP_COLLAGEN_FIBRIL_ORGANIZ ATION	5 3	0 . 6	1. 7 8	0. 0 3	0. 0 4 0	0. 65 9	43 95

			5		8	6		
8	GOBP_NEGATIVE_REGULATION_OF_CARTILAGE_DEVELOPMENT	2 5	0 .	1. 7	0. 0	0. 8	0. 78	47 55
			5 7		2 9	0 9		
9	GOBP_PULMONARY_VALVE_MORPHOGENESIS	1 7	0 .	1. 6	0. 0	0. 7	0. 79	53 18
			6 4	9 6	1 6	5 6	5	
1 0	GOMF_EXTRACELLULAR_MATRIX_STRUCTURAL_CONSTITUENT_CONFERRING_COMPRESSION_RESISTANCE	2 2	0 .	1. 6	0. 0	0. 7	0. 80	23 92
			6 2	9 3	3 2	2 5	3	
1 1	GOMF_EXTRACELLULAR_MATRIX_STRUCTURAL_CONSTITUENT	1 6 9	0 .	1. 6	0. 0	0. 6	0. 80	43 95
			5 2	8 4	4 6	8 6	7	
1 2	GOBP_KERATINIZATION	2 2 3	0 .	1. 6	0. 0	0. 7	0. 81	51 25
			6 6	7 4	0 5	0 5	9	
1 3	GOMF_COLLAGEN_BINDING	6 8	0 .	1. 6	0. 0	0. 8	0. 86	34 28
			5 6	3 8	7 3	8 3	9	
1 4	GOBP_KERATINOCYTE_DIFFERENTIATION	2 9 7	0 .	1. 5	0. 0	1 2	0. 91	51 25
			5 5	9 2	2 5		8	
1 5	GOBP_GLOMERULAR_MESANGIUM_DEVELOPMENT	1 6	0 .	1. 5	0. 0	1 4	0. 92	42 41
			6 2	8 5	5 5		4	
1 6	GOMF_FIBROBLAST_GROWTH_FACTOR_RECEPTOR_BINDING	2 5	0 .	1. 5	0. 0	1 4	0. 93	57 36
			5 7	7 8	4 8		4	
1 7	GOBP_CELL_SURFACE_RECEPTOR_SIGNALING_PATHWAY_INVOLVED_IN_HEART_DEVELOPMENT	2 8	0 .	1. 5	0. 0	1 3	0. 94	48 48
			5 2	6 3	6 3		3	
1 8	GOBP_CHONDROCYTE_DEVELOPMENT	2 7	0 .	1. 5	0. 0	1 9	0. 96	27 82
			5 5	1 9			8	

			3		2			
1 9	GOCC_BASEMENT_MEMBRANE	9 4	0 . 4 6	1. 5 1 8	0. 0 8 7	1	0. 97 1	53 79
2 0	GOBP_SKIN_DEVELOPMENT	4 1 0	0 . 4 6	1. 5 5	0. 0 9	1	0. 97 4	48 63

