

**Supplementary Table 3.** Catalog of proteins that were found in our study and other literatures

Study population of MRI normal discs	Collagens	Keratins	SERPIN super family of proteins
Discs harvested from brain dead organ donors in living conditions-Our study	COL1A2	KRT1	SERPINA1
	COL1A1	KRT2	SERPINA3
	COL2A1	KRT4	SERPINA4
	COL5A3	KRT5	SERPINA5
	COL6A1	KRT6A	SERPINB1
	COL6A2	KRT6C	SERPINC1
	COL6A6	KRT15	SERPINE1
	COL7A1	KRT16	SERPINE2
	COL8A1	KRT17	SERPINF1
	COL9A2	KRT19	SERPINF2
	COL10A1	KRT33A	SERPING1
	COL11A2	KRT72	SERPINI1
	COL14A1	KRT73	
	COL15A1	KRT76	
	COL18A1	KRT79	
	COL20A1	KRT80	
	COL24A1	KRT84	
		KRT85	
Samples harvested from discs during scoliosis surgery- Yee et al., 2016 <sup>19</sup>	COL1A2	Nil	Nil
	COL14A1		
	COL16A1		
	COL20A1		
Samples harvested from discs during scoliosis surgery- Yee et al., 2016 <sup>19</sup>	COL1A1	KRT1	SERPINA1
	COL1A2	KRT2	SERPINC1
	COL2A1		SERPINE2
	COL3A1		
	COL6A3		

MRI, magnetic resonance imaging; SERPIN, serine protease inhibitors.