

**Table S1** Top 10 genes in the network ranked by the degree method

Rank	Name	Score
1	<i>COL1A2</i>	12
2	<i>COL3A1</i>	11
3	<i>SNAI2</i>	10
3	<i>PPARG</i>	10
5	<i>BGN</i>	9
6	<i>WNT5A</i>	7
6	<i>SULF1</i>	7
6	<i>COL6A2</i>	7
6	<i>ITGA4</i>	7
10	<i>IRS1</i>	6

**Table S2** Top 10 genes in the network ranked by the MCC method

Rank	Name	Score
1	<i>COL1A2</i>	86
2	<i>COL3A1</i>	80
3	<i>BGN</i>	64
4	<i>COL6A2</i>	56
5	<i>COL6A1</i>	36
6	<i>LTBP1</i>	30
7	<i>SNAI2</i>	19
8	<i>IGFBP3</i>	16
9	<i>PPARG</i>	14
10	<i>SULF1</i>	13

MCC, maximal clique centrality.

**Table S3** Top 10 genes in the network ranked by the MNC method

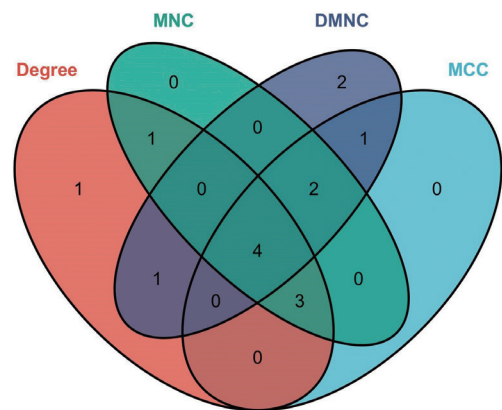
Rank	Name	Score
1	<i>COL1A2</i>	12
2	<i>COL3A1</i>	11
3	<i>BGN</i>	9
4	<i>SNAI2</i>	7
4	<i>COL6A2</i>	7
6	<i>WNT5A</i>	6
6	<i>SULF1</i>	6
6	<i>COL6A1</i>	6
6	<i>PPARG</i>	6
6	<i>IGFBP3</i>	6

MNC, maximum neighborhood component.

**Table S4** Top 10 genes in the network ranked by DMNC method

Rank	Name	Score
1	<i>LTBP1</i>	0.51861
2	<i>COL6A1</i>	0.475492
3	<i>HAS2</i>	0.463463
3	<i>COL17A1</i>	0.463463
5	<i>COL6A2</i>	0.439051
6	<i>ITGA4</i>	0.378929
7	<i>BGN</i>	0.357997
8	<i>COL3A1</i>	0.339361
9	<i>IGFBP3</i>	0.332844
10	<i>COL1A2</i>	0.321969

DMNC, density of maximum neighborhood component.



**Figure S1** Venn diagram showing the overlap between the genes identified by the 4 methods in CytoHubba, a plugin of Cytoscape. MCC, maximal clique centrality; MNC, maximum neighborhood component; DMNC, density of maximum neighborhood component.