

**Table S1. The results of Kruskal-Wallis tes**

Table Analyzed	<b>LAYER_MATRILLIN_CONTROL</b>	Table Analyzed	<b>LAYER_MATRILLIN_PBK</b>	Table Analyzed	<b>LAYER_MATRILLIN_FD</b>
<b>Kruskal-Wallis test</b>		<b>Kruskal-Wallis test</b>		<b>Kruskal-Wallis test</b>	
P value	<0,0001	P value	<0,0001	P value	0,1769
Exact or approximate P value?	Approximate	Exact or approximate P value?	Approximate	Exact or approximate P value?	Approximate
P value summary	****	P value summary	****	P value summary	ns
Do the medians vary signif. (P < 0.05)?	Yes	Do the medians vary signif. (P < 0.05)?	Yes	Do the medians vary signif. (P < 0.05)?	No
Number of groups	7	Number of groups	7	Number of groups	7
Kruskal-Wallis statistic	68,46	Kruskal-Wallis statistic	71,26	Kruskal-Wallis statistic	8,941
<b>Data summary</b>		<b>Data summary</b>		<b>Data summary</b>	
Number of treatments (columns)	7	Number of treatments (columns)	7	Number of treatments (columns)	7
Number of values (total)	77	Number of values (total)	132	Number of values (total)	61
Table Analyzed	<b>LAYER_TENASCIN_CONTROL</b>	Table Analyzed	<b>LAYER_TENASCIN_PBK</b>	Table Analyzed	<b>LAYER_TENASCIN_FD</b>
<b>Kruskal-Wallis test</b>		<b>Kruskal-Wallis test</b>		<b>Kruskal-Wallis test</b>	
P value	0,0016	P value	<0,0001	P value	<0,0001
Exact or approximate P value?	Approximate	Exact or approximate P value?	Approximate	Exact or approximate P value?	Approximate
P value summary	**	P value summary	****	P value summary	****

Do the medians vary signif. (P < 0.05)?	Yes	Do the medians vary signif. (P < 0.05)?	Yes	Do the medians vary signif. (P < 0.05)?	Yes
Number of groups	7	Number of groups	7	Number of groups	7
Kruskal-Wallis statistic	21,29	Kruskal-Wallis statistic	67,03	Kruskal-Wallis statistic	28,59
<b>Data summary</b>		<b>Data summary</b>		<b>Data summary</b>	
Number of treatments (columns)	7	Number of treatments (columns)	7	Number of treatments (columns)	7
Number of values (total)	69	Number of values (total)	131	Number of values (total)	53
Table Analyzed	<b>LAYER_AGGRECAN_CONTROL</b>	Table Analyzed	<b>LAYER_AGGREC AN_PBK</b>	Table Analyzed	<b>LAYER_AGGRECAN_FD</b>
<b>Kruskal-Wallis test</b>		<b>Kruskal-Wallis test</b>		<b>Kruskal-Wallis test</b>	
P value	<0,0001	P value	<0,0001	P value	0,002
Exact or approximate P value?	Approximate	Exact or approximate P value?	Approximate	Exact or approximate P value?	Approximate
P value summary	****	P value summary	****	P value summary	**
Do the medians vary signif. (P < 0.05)?	Yes	Do the medians vary signif. (P < 0.05)?	Yes	Do the medians vary signif. (P < 0.05)?	Yes
Number of groups	7	Number of groups	7	Number of groups	7
Kruskal-Wallis statistic	50,56	Kruskal-Wallis statistic	36,28	Kruskal-Wallis statistic	20,78
<b>Data summary</b>		<b>Data summary</b>		<b>Data summary</b>	
Number of treatments	7	Number of treatments	7	Number of treatments	7

ts (column s)		ts (column s)		ts (column s)	
Number of values (total)	69	Number of values (total)	131	Number of values (total)	54