

Table 1. Multinomial Logistic Regression Cluster 2

<i>Pathology</i>	<i>Predictive proteins</i>	<i>Coefficients (Stand error)</i>	<i>OR</i>	<i>IC95% OR</i>	<i>Test Wald</i>	<i>p-valor</i>
<i>Osteoarthritis</i>	Constant	4.935038 (0.4275669)	139.07837	60.1608537 321.5179317	11.542141	0
	IGFALS(2)	1.358548 (0.2294403)	3.890542	2.4814764 6.0997219	5.921141	0
	PLTP.1	-0.6342697 (0.2126222)	0.5303226	0.3495875 0.8044971	-2.983084	0.0029
	COMP.1	-0.9369490 (0.3358047)	0.3918215	0.2028854 0.7567034	-2.790160	0.0053
	IGFALS(2).1	2.021384 (0.2534200)	7.548765	4.5937185 12.4047321	7.976418	0
	SPARCL1.1	-0.5356879 (0.3109360)	0.5852666	0.3181885 1.0765220	-1.722823	0.0849
	HTRA1.1	-0.6354660 (0.3959934)	0.5296886	0.2437533 1.1510411	-1.604739	0.1086
<i>Psoriatic arthritis</i>	Constant	4.285097 (0.4329777)	72.60957	31.0772527 169.6466003	9.896808	0
	IGFALS(2)	1.043438 (0.2345938)	2.838961	1.7925563 4.4962045	4.447850	0
	PLTP.1	-0.8433080 (0.2215883)	0.4302848	0.2787017 0.6643123	-3.805742	0.0001
	COMP.1	-1.7207378 (0.3527433)	0.1789341	0.0896267 0.3572307	-4.878158	0.0000
	IGFALS(2).1	2.273127 (0.2713601)	9.709714	5.7045877 16.5267938	8.376790	0
	SPARCL1.1	-0.1406937 (0.3227606)	0.8687554	0.4614909 1.6354296	-0.435907	0.6629
	HTRA1.1	-0.8781203 (0.4056976)	0.4155633	0.1876319 0.9203809	-2.164470	0.0304
<i>Rheumatoid arthritis</i>	Constant	3.631681 (0.4404577)	37.77626	15.93311505 89.5647691	8.245244	0
	IGFALS(2)	1.096524 (0.2459886)	2.993742	1.84853837 4.8484189	4.457622	0
	PLTP.1	-2.2054668 (0.2389185)	0.1101991	0.06899381 0.1760134	-9.231040	0
	COMP.1	-0.3523353 (0.3460180)	0.7030444	0.35682207 1.3852041	-1.018257	0.3086
	IGFALS(2).1	1.911319 (0.2714393)	6.762000	3.97214948 11.5113103	7.041421	0
	SPARCL1.1	0.6628326 (0.3188229)	1.9402805	1.03868057 3.6244912	2.0789994	0.0376
	HTRA1.1	-0.9510633 (0.4078318)	0.3863300	0.17370461 0.8592223	-2.331999	0.0197

Table 2. Multinomial Logistic Regression Cluster 3

Pathology	Predictive proteins	Coefficients (Stand error)	OR	IC95% OR	Test Wald	p-value
Osteoarthritis	Constant	1.795727 (0.1682369)	6.023852	4.3318238 8.3767940	10.673798	0
	GC.1	-0.4811403 (0.1951416)	0.6180782	0.4216369 0.9060419	-2.465595	0.0137
	SRGN.1	2.781816 (0.3300418)	16.14833	8.4565938 30.8361123	8.428680	0
	COL11A2.1	-1.447913 (0.2936534)	0.2350604	0.1321969 0.4179629	-4.930686	0
	SERPINA4(2).1	-1.0141202 (0.3485365)	0.3627214	0.1831886 0.7182042	-2.909653	0.0036
Psoriatic arthritis	Constant	1.083727 (0.1808103)	2.955675	2.0737228 4.2127216	5.993724	0
	GC.1	-1.0301707 (0.2135247)	0.3569460	0.2348821 0.5424443	-4.824597	0
	SRGN.1	3.090510 (0.3418052)	21.98830	11.2524343 42.9671643	9.041730	0
	COL11A2.1	-1.174876 (0.3095184)	0.3088573	0.1683819 0.5665267	-3.795820	1e-04
	SERPINA4(2).1	-1.3460995 (0.3688631)	0.2602534	0.1263047 0.5362574	-3.649320	0.0003
Rheumatoid arthritis	Constant	1.103682 (0.1775347)	3.015247	2.1291441 4.2701260	6.216710	0
	GC.1	-0.1338364 (0.2099966)	0.8747331	0.5795970 1.3201552	-0.637326	0.5239
	SRGN.1	2.795676 (0.3461325)	16.37369	8.3084122 32.2682282	8.076894	0
	COL11A2.1	-1.252169 (0.3094412)	0.2858840	0.1558810 0.5243082	-4.046550	1e-04
	SERPINA4(2).1	-0.5595519 (0.3682079)	0.5714651	0.2776966 1.1760040	-1.519663	0.1286

Table 3. Multinomial Logistic Regression Cluster 4

Pathology	Predictive proteins	Coefficients (Stand error)	OR	IC95% OR	Test Wald	p-value
<i>Osteoarthritis</i>	Constant	1.6975467 (0.1381098)	5.460535	4.16558422 7.1580450	12.291286	0
	UCMA.1	2.708794 (0.4258844)	15.011155	6.51479329 34.5881703	6.360396	0
	SPARC(2).1	-1.977983 (0.4215257)	0.1383480	0.06055773 0.3160649	-4.692437	0
<i>Psoriatic arthritis</i>	Constant	1.2567593 (0.1430581)	3.514015	2.65480346 4.6513059	8.784958	0
	UCMA.1	2.598695 (0.4427054)	13.446174	5.64634266 32.0206567	5.870032	0
	SPARC(2).1	-2.835786 (0.4419951)	0.0586724	0.02467215 0.1395278	-6.415876	0
<i>Rheumatoid arthritis</i>	Constant	0.8770979 (0.1512228)	2.403913	1.78730098 3.2332543	5.800037	0
	UCMA.1	1.632262 (0.4452921)	5.115433	2.13721961 12.2437859	3.665599	2e-04
	SPARC(2).1	-2.104115 (0.4457252)	0.1219536	0.05090876 0.2921437	-4.720655	0