

Protein name	Biological Function	p-value	Benjamini-Hochberg correction	Difference between NP	Comments	Difference between individual NP	prevalence value
Regulation of proteolysis							
α-1-antiproteinase	Regulation of proteolysis	7.41E-15	1.42E-04	yes	all diff?	-	44.45
Pigment epithelium-derived factor	Positive regulation of neurogenesis; Regulation of proteolysis	1.28E-03	5.08E-04	no		-	21.76
Plasma serine protease inhibitor	Regulation of proteolysis	1.88E-33	6.67E-05	yes	↑SiO ₂ -COO ⁻	SiO ₂	10.66
Hyaluronan metabolic process							
ITIH H1	Hyaluronan metabolic process	4.72E-07	3.08E-04	yes	all diff?	-	13.14
ITIH H3	Hyaluronan metabolic process	4.75E-02	7.17E-04	no		SiO ₂	15.59
ITIH H4	Hyaluronan metabolic process; acute phase response	1.28E-05	3.83E-04	yes	↓SiO ₂ -COO ⁻	SiO ₂	39.22
Inhibitors							
α-2-macroglobulin	Protease inhibitor; Serine protease inhibitor	7.05E-04	5.00E-04	no		-	42.35
Protein AMBP	Inter-alpha-trypsin inhibitor inhibits trypsin, plasmin, and lysosomal granulocytic elastase. Inhibits calcium oxalate crystallization	2.06E-12	1.75E-4	yes	↑SiO ₂ -NH ₂	-	18.45
Other							
Thrombospondin-1	Cell adhesion	5.57E-05	4.17E-04	yes	↑SiO ₂ -COO ⁻	-	9.04
Gelsolin	Calcium-regulated, actin-modulating protein that binds to the plus (or barbed) ends of actin monomers or filaments, preventing monomer exchange (end-blocking or capping). It can promote the assembly of monomers into filaments (nucleation) as well as sever filaments already formed. Plays a role in ciliogenesis	1.60E-2	6.50E-4	no		-	17.51
Tetranectin	Tetranectin binds to plasminogen and to isolated kringle 4. May be involved in the packaging of molecules destined for exocytosis	6.99E-43	5.83E-05	yes	↑SiO ₂ -COO ⁻	SiO ₂ -COO ⁻	13.84

α -1B-glycoprotein	1.19E-01	8.00E-04	no		-	14.17
Fetuin-B	1.17E-08	2.50E-04	yes	all diff?	-	15.51