

**Supplementary table 1: GO biological process complete**

GO biological process complete	Nos genes in reference list	Nos genes in present study	Expected value	Fold Enrichment	+/-	P value
<u>fibrinolysis</u>	20	3	.03	> 100	+	4.40E-02
↳negative reulation of blood coaulation	52	4	.08	52.81	+	1.16E-02
↳negative reulation of coaulation	56	4	.08	49.04	+	1.53E-02
↳reulation of coaulation	75	4	.11	36.61	+	4.62E-02
↳reulation of blood coaulation	70	4	.10	39.23	+	3.56E-02
↳reulation of response to external stimulus	1199	10	1.75	5.73	+	4.30E-02
↳reulation of response to stimulus	4306	22	6.27	3.51	+	1.04E-05
↳reulation of hemostasis	72	4	.10	38.14	+	3.96E-02
↳negative reulation of hemostasis	53	4	.08	51.81	+	1.24E-02
↳negative reulation of wound healing	76	4	.11	36.13	+	4.86E-02
<u>acute-phase response</u>	42	4	.06	65.38	+	5.19E-03
↳acute inflammatory response	75	4	.11	36.61	+	4.62E-02
↳defense response	1426	14	2.08	6.74	+	2.82E-05
↳response to stress	3626	21	5.28	3.98	+	3.77E-06
↳response to stimulus	8540	26	12.44	2.09	+	4.74E-03
<u>zymogen activation</u>	48	4	.07	57.21	+	8.56E-03
↳protein metabolic process	4203	18	6.12	2.94	+	2.34E-02
<u>platelet degranulation</u>	129	8	.19	42.57	+	1.46E-07
↳localization	5831	22	8.49	2.59	+	3.87E-03
↳establishment of localization	4631	20	6.75	2.96	+	2.78E-03
↳regulated exocytosis	697	12	1.02	11.82	+	1.11E-06

↳exocytosis	785	12	1.14	10.49	+	4.24E-06
↳secretion by cell	932	12	1.36	8.84	+	2.90E-05
↳export from cell	982	12	1.43	8.39	+	5.18E-05
↳transport	4476	20	6.52	3.07	+	1.54E-03
↳secretion	1047	12	1.53	7.87	+	1.05E-04
↳vesicle-mediated transport	1969	17	2.87	5.93	+	1.58E-06
<u>regulation of complement activation</u>	118	5	.17	29.09	+	8.02E-03
↳regulation of immune effector process	435	7	.63	11.05	+	2.40E-02
↳regulation of immune system process	1717	12	2.50	4.80	+	2.19E-02
↳regulation of humoral immune response	142	6	.21	29.01	+	5.80E-04
↳regulation of immune response	1183	10	1.72	5.80	+	3.82E-02
<u>complement activation</u>	177	6	.26	23.27	+	2.04E-03
↳immune effector process	939	11	1.37	8.04	+	4.16E-04
↳immune system process	2903	16	4.23	3.78	+	4.56E-03
↳positive regulation of response to stimulus	2312	17	3.37	5.05	+	1.91E-05
↳positive regulation of biological process	6331	24	9.22	2.60	+	3.47E-04
↳humoral immune response	386	8	.56	14.23	+	6.11E-04
↳immune response	2075	15	3.02	4.96	+	3.74E-04
<u>post-translational protein modification</u>	361	7	.53	13.31	+	7.09E-03
<u>regulation of endopeptidase activity</u>	429	7	.62	11.20	+	2.19E-02
↳regulation of peptidase activity	457	7	.67	10.52	+	3.31E-02
↳regulation of proteolysis	743	9	1.08	8.32	+	7.12E-03
↳regulation of protein metabolic process	2665	15	3.88	3.86	+	1.01E-02

<u>endocytosis</u>	569	8	.83	9.65	+	1.11E-02
<u>leukocyte mediated immunity</u>	764	9	1.11	8.09	+	8.95E-03
<u>innate immune response</u>	848	9	1.24	7.29	+	2.10E-02
↳defense response to other organism	1038	11	1.51	7.28	+	1.14E-03
↳response to other organism	1425	12	2.08	5.78	+	3.03E-03
↳biological process involved in interspecies interaction	1593	13	2.32	5.60	+	1.14E-03
↳response to external biotic stimulus	1426	12	2.08	5.78	+	3.05E-03
↳response to biotic stimulus	1547	12	2.25	5.33	+	7.28E-03
↳response to external stimulus	2525	14	3.68	3.81	+	3.41E-02
<u>regulation of cellular protein metabolic process</u>	2501	14	3.64	3.84	+	3.04E-02