

## Supplementary materials

**Table S2. GO analysis for *SPINK* genes**

Ontology	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust
BP	GO:0010951	negative regulation of endopeptidase activity	8/8	251/18800	9.03e-16	8.44e-14
BP	GO:0010466	negative regulation of peptidase activity	8/8	262/18800	1.28e-15	8.44e-14
BP	GO:0045861	negative regulation of proteolysis	8/8	350/18800	1.33e-14	5.87e-13
BP	GO:0051346	negative regulation of hydrolase activity	8/8	371/18800	2.13e-14	7.05e-13
CC	GO:0042599	lamellar body	1/8	17/19594	0.0069	0.0138
MF	GO:0004867	serine-type endopeptidase inhibitor activity	8/8	98/18410	4.82e-19	2.89e-18
MF	GO:0004866	endopeptidase inhibitor activity	8/8	180/18410	7.14e-17	1.95e-16
MF	GO:0030414	peptidase inhibitor activity	8/8	187/18410	9.75e-17	1.95e-16
MF	GO:0061135	endopeptidase regulator activity	8/8	194/18410	1.32e-16	1.97e-16