

## SUPPLEMENTARY TABLES

**Supplementary Table 1. Correlations between hub genes of up-regulated genes and gene markers of necroptosis, pyroptosis, ferroptosis and anti-inflammatory in skin tissues in GEPIA.**

Mechanism	Gene marker	TP53		FN1		CTNNB1		STAT3		COL1A1	
		R	P	R	P	R	P	R	P	R	P
Necroptosis	Casp8	-0.017	0.7	0.21	***	0.17	***	0.25	***	0.28	***
	RIPK1	0.12	**	0.055	0.2	0.12	**	0.044	0.3	0.086	*
Pyroptosis	IL-1 $\alpha$	0.14	***	-0.12	**	0.031	0.46	0.14	***	-0.055	0.2
	Casp1	0.47	***	0.014	0.75	0.24	***	0.14	*	0.23	***
Ferroptosis	GPX4	-0.31	***	0.44	***	0.31	***	0.28	***	0.2	***
	NCOA4	0.33	***	0.14	***	0.32	***	0.086	*	0.11	*
Anti-inflammatory	IL-4	0.047	0.27	0.11	*	0.12	**	-0.067	0.12	0.12	**
	IL-10	-0.29	***	0.22	***	0.22	***	0.26	***	0.12	**

**Supplementary Table 2. Correlations between hub genes of down-regulated genes and gene markers of necroptosis, pyroptosis, ferroptosis and anti-inflammatory in skin tissues in GEPIA.**

Mechanism	Gene marker	CDK1		CCNB1		CCNA2		AURKB		CDC20	
		R	P	R	P	R	P	R	P	R	P
Necroptosis	Casp8	0.28	***	0.15	***	0.2	***	0.2	***	0.056	0.19
	RIPK1	-0.024	0.57	-0.099	*	-0.082	0.054	-0.045	0.29	-0.13	**
Pyroptosis	IL-1 $\alpha$	0.34	***	0.28	***	0.31	***	0.21	***	0.19	***
	Casp1	0.51	***	0.14	***	0.5	***	0.35	***	0.35	***
Ferroptosis	GPX4	-0.24	***	-0.18	***	-0.16	***	-0.24	***	-0.21	***
	NCOA4	0.23	***	0.19	***	0.2	***	0.12	**	0.12	**
Anti-inflammatory	IL-4	0.026	0.55	0.056	0.19	0.067	0.11	0.022	0.61	0.017	0.7
	IL-10	-0.07	0.099	-0.12	**	-0.065	0.12	-0.19	***	-0.21	***