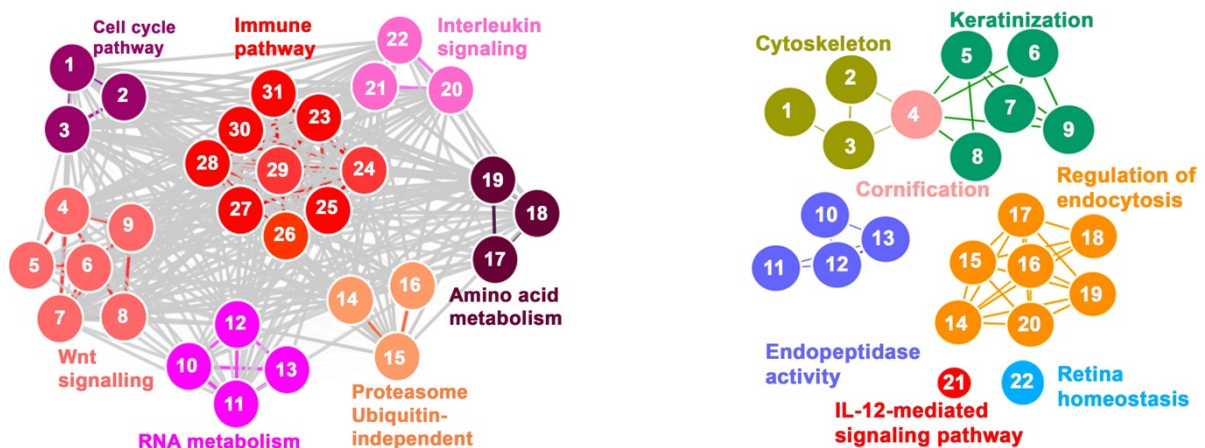


Figure S2. Up-regulation of SASP protein composition and amount in senescent corneal cells. Network function of secreted proteins significantly increased in corneal SASP.



Pathway cluster	Annotation	Pathway
Cell cycle pathway	1	Regulation of cell cycle G2/M phase transition
	2	Regulation of mitotic cell cycle phase transition
	3	Negative regulation of G2/M transition of mitotic cell cycle
Wnt signalling	4	Positive regulation of canonical Wnt signaling pathway
	5	Wnt signaling pathway
	6	Regulation of canonical Wnt signaling pathway
	7	Non-canonical Wnt signaling pathway
	8	Regulation of Wnt signaling pathway
	9	Cell-cell signaling by wnt
RNA metabolism	10	Regulation of mRNA metabolic process
	11	Regulation of RNA stability
	12	Regulation of transcription from RNA polymerase II promoter in response to stress
Proteasome Ubiquitin-independent	13	mRNA catabolic process
	14	SCF-dependent proteasomal ubiquitin-dependent protein catabolic process
	15	Proteasomal ubiquitin-independent protein catabolic process
Amino acid metabolism	16	Proteasome-mediated ubiquitin-dependent protein catabolic process
	17	Post-translational protein modification
	18	Cellular amino acid metabolic process
Interleukin signaling	19	Amine metabolic process
	20	Cellular response to interleukin-1
	21	NIK/NF-kappaB signaling
	22	Interleukin-1-mediated signaling pathway
Immune pathway	23	Stimulatory C-type lectin receptor signaling pathway
	24	Ag-processing and presentation of exogenous peptide antigen via MHC class I
	25	Cytokine-mediated signaling pathway
	26	Antigen processing and presentation of exogenous peptide antigen
	27	Activation of innate immune response
	28	Response to lectin
	29	Antigen receptor-mediated signaling pathway
	30	Innate immune response-activating signal transduction
	31	Positive regulation of defense response

Pathway cluster	Annotation	Pathway
Cytoskeleton	1	Intermediate filament organization
	2	Intermediate filament cytoskeleton organization
	3	Structural constituent of cytoskeleton
Cornification	4	Cornification
Keratinization	5	Epidermis development
	6	Epidermal cell differentiation
	7	Keratinization
	8	Keratinocyte differentiation
	9	Skin development
Endopeptidase activity	10	Serine-type endopeptidase activity
	11	Serine-type peptidase activity
	12	Negative regulation of proteolysis
	13	Negative regulation of hydrolase activity
Regulation of endocytosis	14	Neutrophil degranulation
	15	Myeloid leukocyte mediated immunity
	16	Leukocyte mediated immunity
	17	Cell activation involved in immune response
	18	Granulocyte activation
	19	Neutrophil activation
	20	Myeloid leukocyte activation
IL-12-mediated signaling	21	Interleukin-12-mediated signaling pathway
Retina homeostasis	22	Retina homeostasis