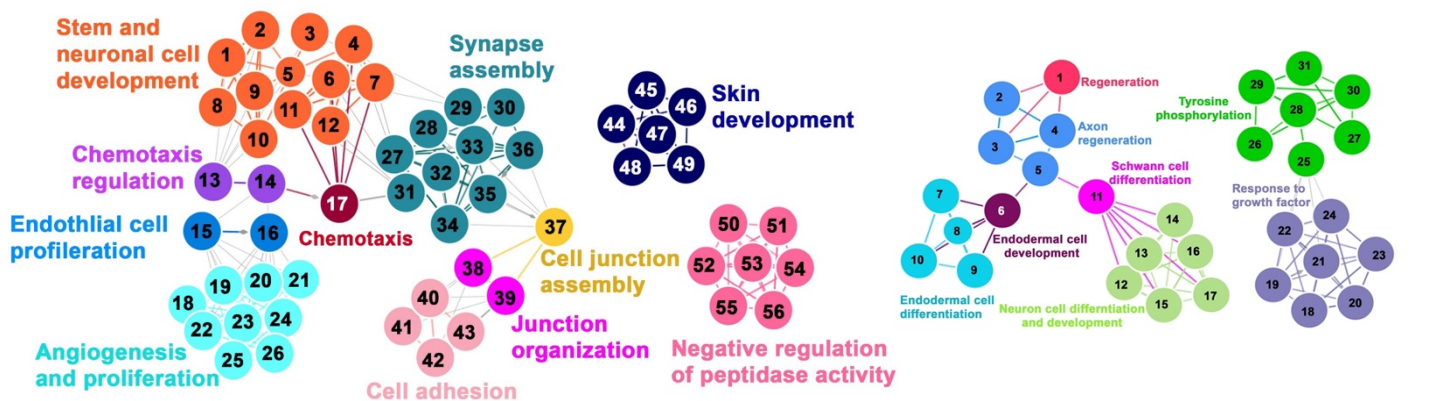


Figure S3. Down-regulation of SASP protein composition and amount in senescent corneal cells. Network function of secreted proteins significantly decreased in corneal SASP.



Pathway cluster	Annotation	Pathway
Stem and neuronal cell development	1	Neural crest cell migration
	2	Neural crest cell differentiation
	3	Negative regulation of neuron projection development
	4	Cell morphogenesis involved in neuron differentiation
	5	Axon extension
	6	Axon guidance
	7	Neuron projection morphogenesis
	8	Stem cell differentiation
	9	Stem cell development
	10	Neural crest cell development
	11	Axonogenesis
	12	Neuron projection guidance
Chemotaxis regulation	13	Negative regulation of chemotaxis
	14	Regulation of chemotaxis
Endothelial cell proliferation	15	Regulation of endothelial cell proliferation
	16	Endothelial cell proliferation
Chemotaxis	17	Chemotaxis
Angiogenesis and proliferation	18	Vasculature development
	19	Epithelial cell proliferation
	20	Regulation of epithelial cell proliferation
	21	Regulation of endothelial cell migration
	22	Epithelial cell migration
	23	Regulation of vasculature development
	24	Epithelium migration
	25	Regulation of angiogenesis
	26	Angiogenesis
	Synapse assembly	27
28		Positive regulation of synapse assembly
29		Regulation of neurogenesis
30		Regulation of nervous system development
31		Axon development
32		Regulation of cell junction assembly
33		Synapse organization
34		Regulation of synapse structure or activity
35		Synapse assembly
36		Regulation of synapse assembly
Cell junction assembly	37	Cell junction assembly
Junction organization	38	Cell-substrate junction organization
	39	Cell-substrate junction assembly
Cell adhesion	40	Cell-substrate adhesion
	41	Positive regulation of cell-substrate adhesion
	42	Cell-matrix adhesion
	43	Substrate adhesion-dependent cell spreading
Skin development	44	Epidermis development
	45	Hair cycle process
	46	Skin development
	47	Molting cycle process
	48	Hair follicle development
	49	Skin epidermis development
Negative regulation of peptidase activity	50	Serine-type peptidase activity
	51	Peptidase inhibitor activity
	52	Negative regulation of peptidase activity
	53	Negative regulation of endopeptidase activity
	54	Negative regulation of proteolysis
	55	Regulation of endopeptidase activity
	56	Endopeptidase inhibitor activity

Pathway cluster	Annotation	Pathway
Regeneration	1	Regeneration
Axon regeneration	2	Response to axon injury
	3	Axon regeneration
	4	Neuron projection regeneration
	5	Basement membrane assembly
Endodermal cell development	6	Endoderm development
Endodermal cell differentiation	7	Formation of primary germ layer
	8	Endoderm formation
	9	Endodermal cell differentiation
	10	Gastrulation
Schwann cell differentiation	11	Schwann cell differentiation
Neuron cell differentiation and development	12	Axon ensheathment
	13	Glial cell development
	14	Glioneogenesis
	15	Ensheathment of neurons
	16	Myelination
	17	Glial cell differentiation
	Response to growth factor	18
19		Regulation of cellular response to growth factor stimulus
20		Response to transforming growth factor beta
21		Cellular response to growth factor stimulus
22		Response to growth factor
23		Transforming growth factor beta receptor signaling pathway
24		Transmembrane receptor protein serine/threonine kinase signaling pathway
25		Enzyme linked receptor protein signaling pathway
Tyrosine phosphorylation	26	Transmembrane receptor protein kinase activity
	27	Positive regulation of peptidyl-tyrosine phosphorylation
	28	Transmembrane receptor protein tyrosine kinase signaling pathway
	29	Peptidyl-tyrosine modification
	30	Protein tyrosine kinase activity
	31	Regulation of peptidyl-tyrosine phosphorylation