



Figure S1. Res promotes SSc via regulation of SIRT1/mTOR signaling. The expression of inflammatory cytokines IL-1 β and IL-6 in the different groups was measured by ELISA.

Table S1 Human SSc KEGG pathways and Res-targeted genes KEGG pathways
SSc KEGG pathways

Code	KEGG
hsa04630	Jak STAT signaling pathway
hsa04010	MAPK signaling pathway
hsa05218	Melanoma
hsa05221	Acute myeloid leukemia
hsa04150	mTOR signaling pathway
hsa04920	Adipocytokine signaling pathway
hsa04722	Neurotrophin signaling pathway
hsa04210	Apoptosis
hsa05223	Non small cell lung cancer
hsa04662	B cell receptor signaling pathway
hsa05212	Pancreatic cancer
hsa04062	Chemokine signaling pathway
hsa05200	Pathways in cancer
hsa05220	Chronic myeloid leukemia
hsa04914	Progesterone mediated oocyte maturation
hsa05210	Colorectal cancer
hsa05215	Prostate cancer
hsa05213	Endometrial cancer
hsa05211	Renal cell carcinoma
hsa04012	ErbB signaling pathway
hsa04664	Fc epsilon RI signaling pathway
hsa05222	Small cell lung cancer
hsa04666	Fc gamma R mediated phagocytosis
hsa04660	T cell receptor signaling pathway
hsa04510	Focal adhesion
hsa04530	Tight junction
hsa05214	Glioma
hsa04620	Toll like receptor signaling pathway
hsa04910	Insulin signaling pathway
hsa04370	VEGF signaling pathway
hsa05416	Viral myocarditis
hsa04512	ECM receptor interaction
hsa04350	TGF beta signaling pathway
hsa04916	Melanogenesis
hsa04310	Wnt signaling pathway
hsa04520	Adherens junction
hsa04110	Cell cycle
hsa05016	Huntingtons disease
hsa04720	Long term potentiation
hsa04330	Notch signaling pathway
hsa03018	RNA degradation
hsa05322	Systemic lupus erythematosus
hsa04940	Type I diabetes mellitus
hsa05330	Allograft rejection
hsa04612	Antigen processing and presentation
hsa05310	Asthma
hsa05320	Autoimmune thyroid disease
hsa04514	Cell adhesion molecules CAMs
hsa05332	Graft versus host disease
hsa04640	Hematopoietic cell lineage
	Intestinal immune network for IgA
hsa04672	production
hsa04670	Leukocyte transendothelial migration
hsa04650	Natural killer cell mediated cytotoxicity
hsa04115	p53 signaling pathway
hsa04060	Cytokine cytokine receptor interaction
hsa05020	Prion diseases
	Arrhythmogenic right ventricular
hsa05412	cardiomyopathy ARVC
hsa05414	Dilated cardiomyopathy
hsa05410	Hypertrophic cardiomyopathy HCM
hsa04810	Regulation of actin cytoskeleton
hsa00360	Phenylalanine metabolism
hsa00350	Tyrosine metabolism
hsa03320	PPAR signaling pathway
hsa05219	Bladder cancer
hsa04020	Calcium signaling pathway
hsa04144	Endocytosis
hsa04540	Gap junction
hsa00310	Lysine degradation
hsa00562	Inositol phosphate metabolism
hsa04070	Phosphatidylinositol signaling system
hsa04270	Vascular smooth muscle contraction
hsa04360	Axon guidance
hsa05130	Pathogenic Escherichia coli infection
hsa04621	NOD like receptor signaling pathway
hsa04622	RIG I like receptor signaling pathway
hsa05010	Alzheimers disease
hsa05014	Amyotrophic lateral sclerosis ALS
hsa04930	Type II diabetes mellitus

hsa04120 Ubiquitin mediated proteolysis

hsa04310 Wnt signaling pathway

Res-targeted genes KEGG pathways

Code KEGG

hsa04919 Thyroid hormone signaling pathway

hsa04910 Insulin signaling pathway

hsa04068 FoxO signaling pathway

hsa05213 Endometrial cancer

hsa05215 Prostate cancer

hsa04923 Regulation of lipolysis in adipocytes

hsa05200 Pathways in cancer

hsa04921 Oxytocin signaling pathway

hsa05206 MicroRNAs in cancer

hsa04150 mTOR signaling pathway

hsa05203 Viral carcinogenesis

hsa04210 Apoptosis

hsa05214 Glioma

hsa05210 Colorectal cancer

hsa04115 p53 signaling pathway

hsa05211 Renal cell carcinoma

hsa04110 Cell cycle

hsa05164 Influenza A

hsa05161 Hepatitis B

hsa04920 Adipocytokine signaling pathway

hsa05219 Bladder cancer

hsa04520 Adherens junction

hsa04066 HIF-1 signaling pathway

hsa04024 cAMP signaling pathway

hsa04915 Estrogen signaling pathway

hsa04350 TGF-beta signaling pathway

hsa04151 PI3K-Akt signaling pathway

hsa05222 Small cell lung cancer

hsa05202 Transcriptional misregulation in cancer

hsa04914 Progesterone-mediated oocyte maturation

hsa05166 HTLV-I infection

hsa04668 TNF signaling pathway

hsa05169 Epstein-Barr virus infection

hsa04380 Osteoclast differentiation

hsa04152 AMPK signaling pathway

hsa05162 Measles

hsa05205 Proteoglycans in cancer

hsa05218 Melanoma

hsa04917 Prolactin signaling pathway

hsa05220 Chronic myeloid leukemia

hsa04012 ErbB signaling pathway

hsa04922 Glucagon signaling pathway

hsa04931 Insulin resistance

hsa05223 Non-small cell lung cancer

hsa04370 VEGF signaling pathway

hsa05230 Central carbon metabolism in cancer

hsa05212 Pancreatic cancer

hsa05152 Tuberculosis

hsa05168 Herpes simplex infection

hsa05016 Huntington's disease

hsa05231 Choline metabolism in cancer

hsa04722 Neurotrophin signaling pathway

hsa04071 Sphingolipid signaling pathway

hsa04611 Platelet activation

hsa05160 Hepatitis C

hsa04330 Notch signaling pathway