

Gene function analysis of osteosarcoma

Table S1. GO and KEGG enrichment of up-regulated genes of osteosarcoma

Category	Term
BP	antigen processing and presentation of peptide or polysaccharide antigen via MHC class II
BP	antigen processing and presentation
BP	immune response
BP	defense response
BP	inflammatory response
BP	immune effector process
BP	response to wounding
BP	immunoglobulin mediated immune response
BP	mitosis
BP	nuclear division
BP	B cell mediated immunity
BP	cell division
KEGG	Asthma
KEGG	Intestinal immune network for IgA production
KEGG	Type I diabetes mellitus
KEGG	Systemic lupus erythematosus
KEGG	Allograft rejection
KEGG	Graft-versus-host disease
KEGG	Cell adhesion molecules (CAMs)
KEGG	Viral myocarditis
KEGG	Autoimmune thyroid disease
KEGG	Antigen processing and presentation

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Table S2. GO and KEGG enrichment of down-regulated genes of osteosarcoma

Category	Term
BP	blood vessel development
BP	vasculature development
BP	cell adhesion
BP	biological adhesion
BP	skeletal system development
BP	cell motion
BP	regulation of cell proliferation
BP	blood vessel morphogenesis
BP	cell migration
BP	regulation of cell growth
BP	negative regulation of cell proliferation
BP	cell motility
BP	localization of cell
BP	response to steroid hormone stimulus
BP	regulation of cell migration
BP	extracellular matrix organization
BP	regulation of locomotion
BP	regulation of cell motion
BP	regulation of programmed cell death
BP	regulation of cell death
BP	angiogenesis
BP	regulation of growth
BP	response to wounding
BP	negative regulation of cell migration
BP	regulation of apoptosis
BP	response to organic substance
BP	negative regulation of locomotion
BP	negative regulation of cell motion
BP	regulation of endothelial cell proliferation
BP	circulatory system process
BP	blood circulation
BP	response to endogenous stimulus
BP	response to hormone stimulus
BP	extracellular structure organization
BP	positive regulation of cell proliferation
BP	regulation of cellular component size
BP	steroid metabolic process
KEGG	Bladder cancer
KEGG	Focal adhesion