

Table SI. A list of literature showing the function of the identified key genes *FLT1*, *KDR*, *CD34*, and *CDH5* in osteoarthritis.

Pubmed ID	Key gene	Related function of the gene in osteoarthritis
10918218	KDR	Synovial angiogenesis
11329148	KDR	Regulation of vasculogenesis
12507900	KDR	Regulation of vasculogenesis
12823854	KDR	Synovial angiogenesis
15593185	KDR	Synovial vascularization
15781004	FLT1	Angiogenesis and bone remodeling
19116905	FLT1	Regulation of vascularization and bone invasion
19180491	FLT1	Angiogenesis and inflammation
19303468	FLT1	Bone cell functions
19404941	FLT1	Angiogenesis
23041435	FLT1	Promoting collagen synthesis
26078451	CD34	Vascular endothelial growth factor
26250062	CD34	Bone remodeling
26531672	KDR	Osteoclast differentiation
26833791	FLT1	Cardiovascular system development
26833791	KDR	Cardiovascular system development

KDR, kinase insert domain receptor; *FLT1*, Fms related tyrosine kinase 1.