



Figure S1 Limonin inhibits several cell lines viabilities. (A) Limonin inhibited VEGF-induced proliferation of endothelial cells dose-dependently. *, $P < 0.05$; **, $P < 0.01$ versus VEGF control. (B) The heat map was stained according to the Z score of the expression value, showing the expression profile of all genes in the transmembrane receptor protein tyrosine kinase signaling pathway. (C) Limonin significantly suppressed viability of two breast cancer cell lines. Cell viability was determined by MTS assay as described in the Materials and Methods. Columns, mean from three independent experiments with triplicate.

Table S1 KEGG pathway analysis of genes affected by limonin as described in *Figure 3* (A1)

Term	Count	Pop.Hits	Fold.Enrichment	Pvalue	FDR	Enrichment.Score
transmembrane receptor protein tyrosine kinase signaling pathway	82	671	2.014517478	7.38637E-10	4.78083E-07	9.131568909
regulation of signal transduction	185	2157	1.413843342	2.831E-07	3.05394E-05	6.548060135
response to growth factor	70	642	1.797391649	1.16103E-06	8.97288E-05	5.935155538
insulin receptor signaling pathway	28	171	2.699240792	1.39374E-06	0.000106129	5.855817613
regulation of cellular metabolic process	361	4809	1.237462743	3.5783E-07	3.54856E-05	6.446322974
regulation of cell communication	204	2417	1.391339851	1.90041E-07	2.58956E-05	6.721152922
regulation of gene expression	286	3635	1.29700403	2.19728E-07	2.65707E-05	6.658113814
regulation of cell differentiation	109	1192	1.507404995	7.79402E-06	0.000438668	5.108238624
blood vessel development	61	527	1.908090316	8.08966E-07	6.64893E-05	6.092069899
vasculature development	62	553	1.848188509	1.93228E-06	0.00013706	5.713929403
blood vessel morphogenesis	52	460	1.863482075	1.03853E-05	0.000493351	4.983579915
angiogenesis	43	380	1.86536819	5.84409E-05	0.001834037	4.233282778
regulation of cell motility	53	496	1.761464523	4.09023E-05	0.00139337	4.388251941
cell-substrate adhesion	31	239	2.138176246	5.12279E-05	0.001668288	4.290493817
regulation of cell migration	50	470	1.753686077	7.51868E-05	0.002199533	4.123858368
localization of cell	90	1038	1.429304837	0.000329477	0.007108466	3.482174885