

Granzyme M expressed by tumor cells promotes chemoresistance and EMT *in vitro* and metastasis *in vivo* associated with STAT3 activation

Supplementary Material

Pathway	Count	p-Value	q-Value	Gene
Cytokine-cytokine receptor interaction	18	2.07709E-19	4.00879E-17	Kitl; Ccl25; Cxcl1; Ccr1 ;Cxcl5 ;Ccl2 ;Lif; Ccl7; Tnfrsf10b; Il1a; Egfr; Inhbb; Csf2; Cxcl16; Il11; Il6; Fas; Eda2r;
Jak-STAT signaling pathway	11	2.95923E-12	1.42783E-10	Stam2; Stat1; Lif; Socs4; Il13ra2; Pim1; Csf2; Il11; Il6; Pik3r5; Pik3r3
VEGF signaling pathway	5	3.77328E-06	3.73458E-05	Ptgs2; Hspb1; Mapkapk3;Pik3r5;Pik3r3
Cell adhesion molecules (CAMs)	4	0.001571295	0.006034996	Selp; Itgav; Cd80; Cldn9;
Regulation of actin cytoskeleton	7	5.00242E-06	4.5732E-05	Itgav; Msn; Enah; Egfr; Bdkrb1; Pik3r5; Pik3r3
Drug metabolism - other enzymes	4	2.55785E-05	0.000189871	Tk1;Cyp3a13;2210023G05Rik;Ces5

Figure S1. Several important pathways that are critical for cancer survival, chemoresistance, angiogenesis and inflammation.

Supplementary Table S2. Information of patients with colon cancer.

Variable	No. of patients (%) (n = 90)
Age(years) (mean±SD)	63.5±12.5
Gender	
Male	57 (63.3)
Female	33 (36.7)
Clinical stage	
I	17 (18.9)
II	23 (25.6)
III	35 (38.9)
IV	15 (16.7)
Histologic type	
Well to moderately differentiated	67 (74.4)
Poorly differentiated to undifferentiated	23 (25.6)
Distant Metastasis	15 (16.7)
Lymphatic Metastasis	46 (51.1)

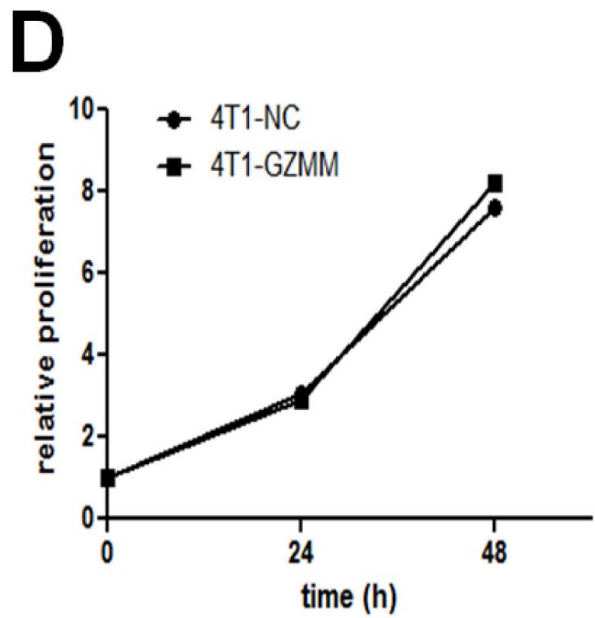
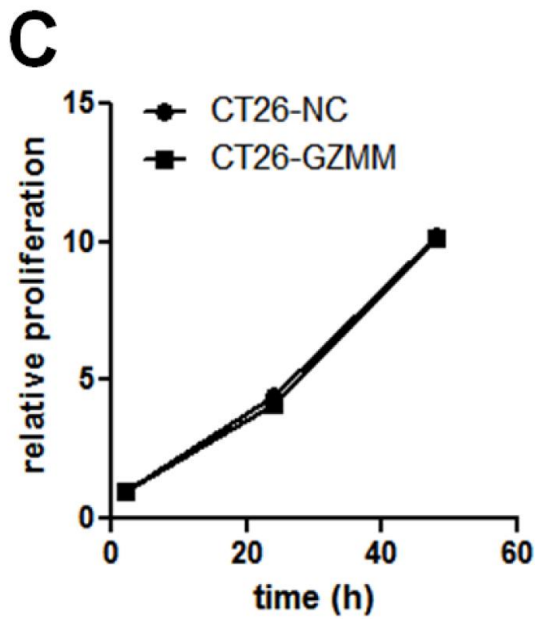
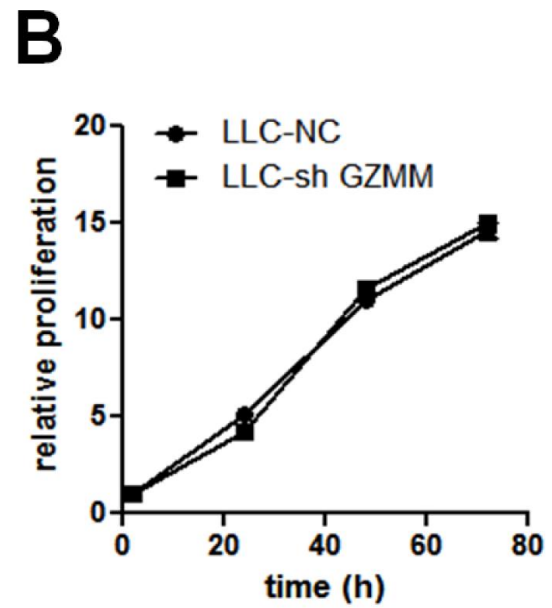
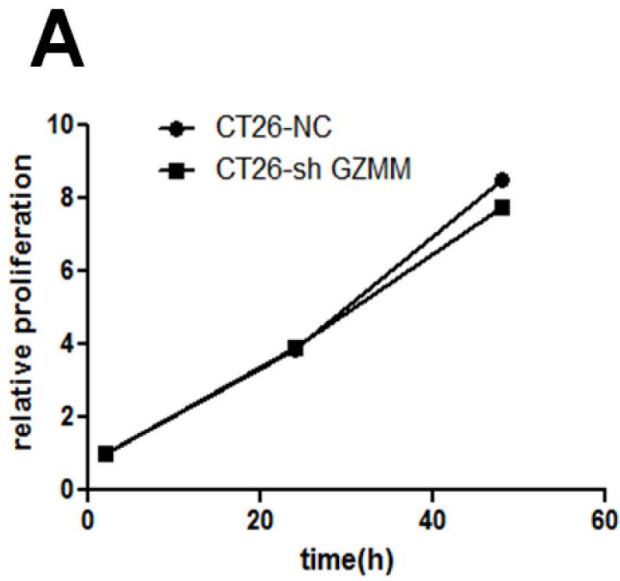


Figure S3. GZMM had almost no significant influence on the proliferation of 4T1, LLC and CT26 cells.