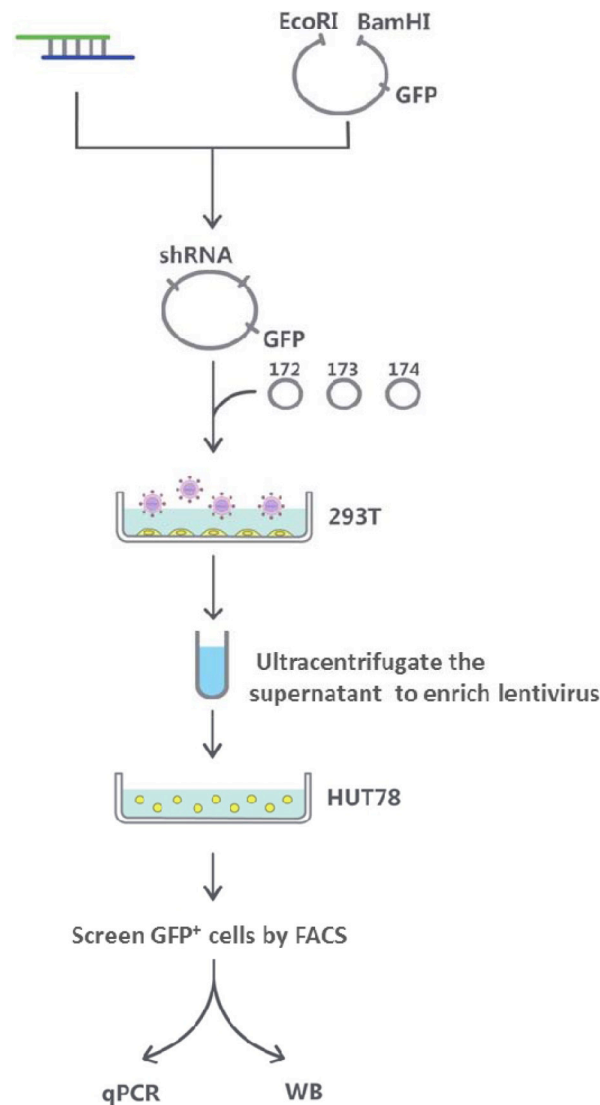
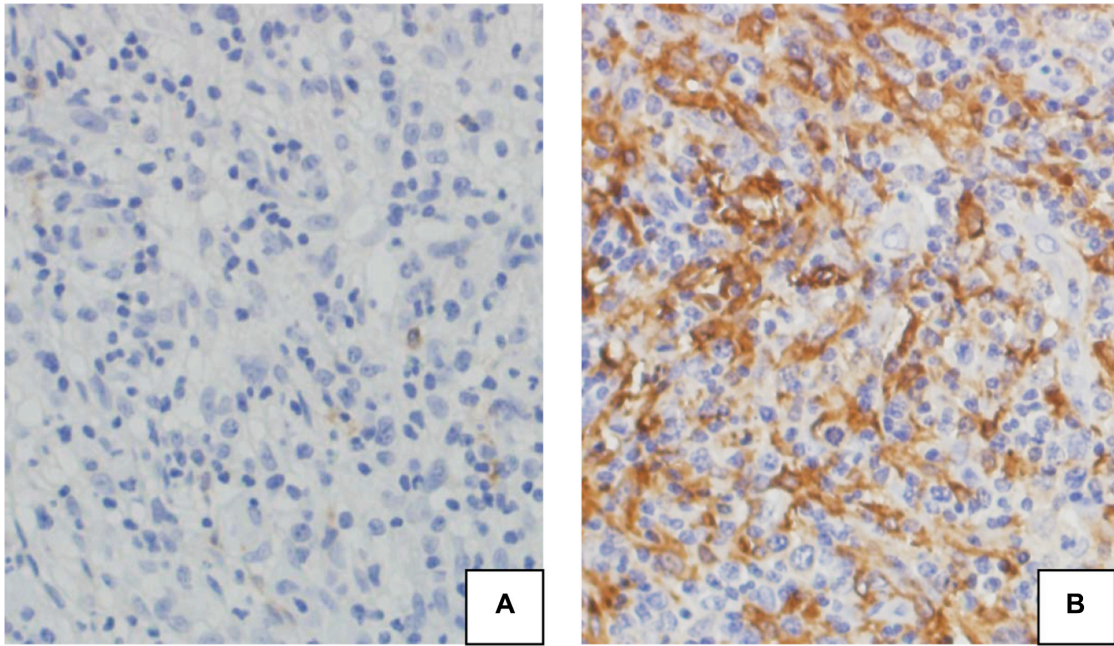


GATA3 expression correlates with poor prognosis and tumor-associated macrophage infiltration in peripheral T cell lymphoma

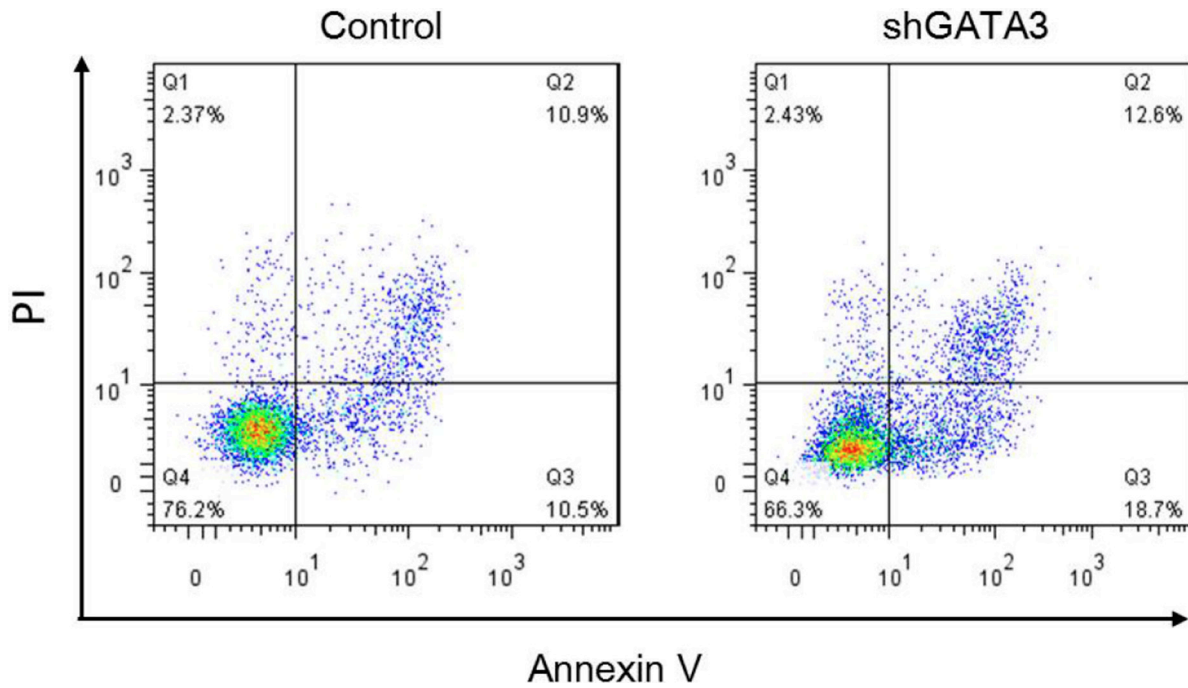
Supplementary Materials



Supplementary Figure S1: The procedure of constructing GATA3-knockdown Hut78 cell line. GATA3 shRNA was cloned into pSIH-H1-copGFP shRNA cloning and expression lentivectors from SBI (System Biosciences, USA). Lentivirus was packaged by 293T cells and used to transfect T cell lymphoma cell lines. The cell lines stably expressing short hairpin RNAs (shRNAs) targeting GATA-3 were purified by GFP selection.



Supplementary Figure S2: The expression of CD68 in different PTCL tumor tissues. (A) Negative staining. (B) Positive staining.



Supplementary Figure S3: Apoptosis assay by flow cytometry. Cell viability was measured by flow cytometry using Annexin V and PI staining. We failed to observe prominent differences between GATA3-knockdown Hut78 and control group.

Supplementary Table S1: Cell line information and sources

Cell line	Histology	Cell source	Culture property
HUT78	CTCL (Sezary Syndrome)	China Infrastructure of Cell Line Resources	Suspension growth, partially in aggregates
Jurkat	ATLL (HTLV-1-)	China Infrastructure of Cell Line Resources	Suspension growth, in aggregates
Karpas299	PTCL (ALCL, ALK+)	Generous gift from the First Affiliated Hospital of Zhengzhou University	Suspension growth
U937	Human histocytic leukemia	China Infrastructure of Cell Line Resources	Suspension growth
293T	Human renal epithelial cell transfected with adenovirus E1A	China Infrastructure of Cell Line Resources	Adherent growth

Supplementary Table S2: Primer sequences

Gene	Primer sequences 5' → 3'
GATA3	Forward ACACTCTGGAGGAGGAATGCCAAT
	Reverse TTCGGTTTCTGGTCTGGATGCCTT
IL-4	Forward GGGCTTGAATTCCTGTCCCTGT
	Reverse TCGTCTTTAGCCTTTCCAAGAAGT
IL-5	Forward AGCTGCCTACGTGTATGCCA
	Reverse GCAGTGCCAAGGTCTCTTTCA
IL-13	Forward TCTGCAATGGCAGCATGGTA
	Reverse GCATCCTCTGGGTCTTCTCG
VEGFa	Forward AGGGCAGAATCATCACGAAGT
	Reverse AGGGTCTCGATTGGATGGCA
CD206	Forward CGCTACTAGGCAATGCCAATG
	Reverse GCAATCTGCGTACCACTTGTTTT
GAPDH	Forward GAAGGTGAAGGTCGGAGTC
	Reverse GAAGATGGTGATGGGATTTC

Supplementary Table S3: Death causes of 16 patients with OS < 20 days

Death cause	Case number
Hemophagocytic syndrome	5
Septic shock, multiple organ dysfunction syndrome	6
Gastrointestinal bleeding	2
CNS involvement	1
DIC, major bleeding	1
Multiple organ dysfunction syndrome	1