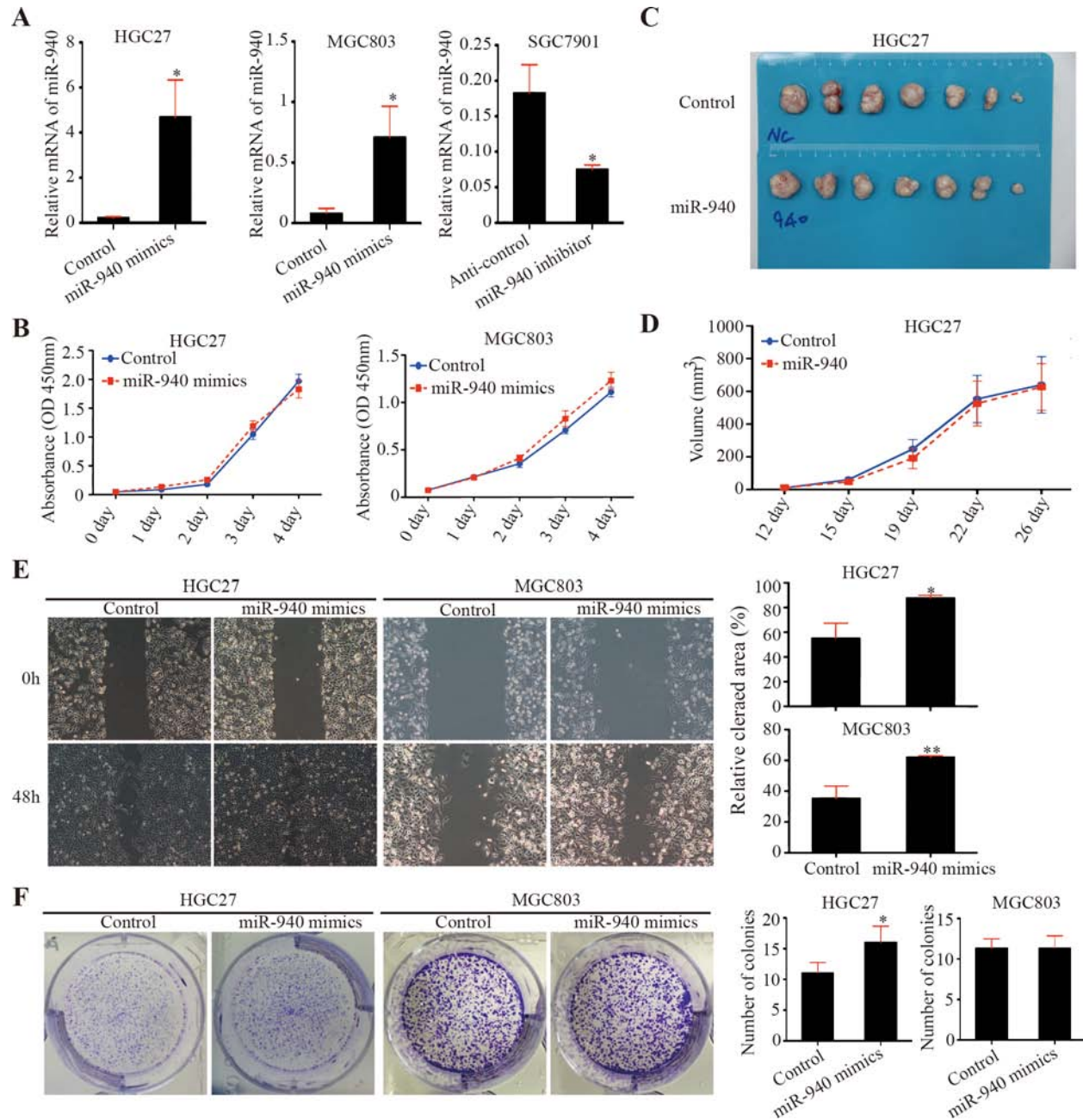
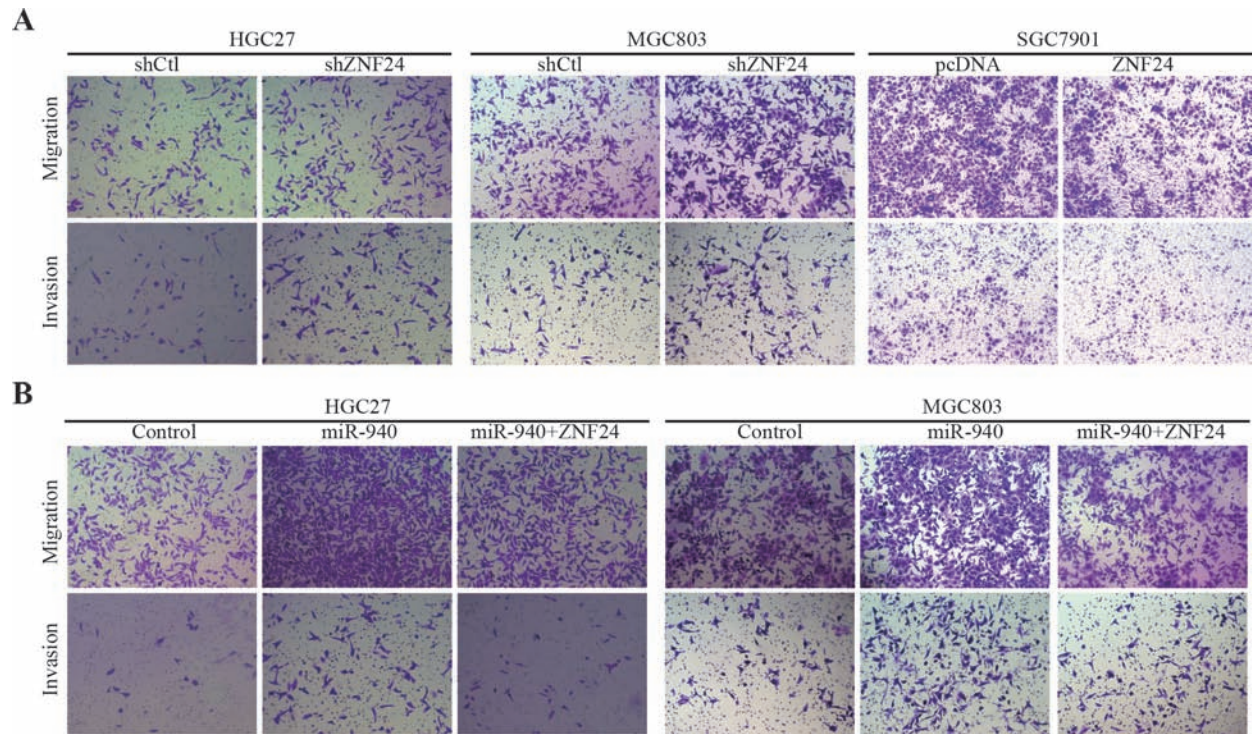


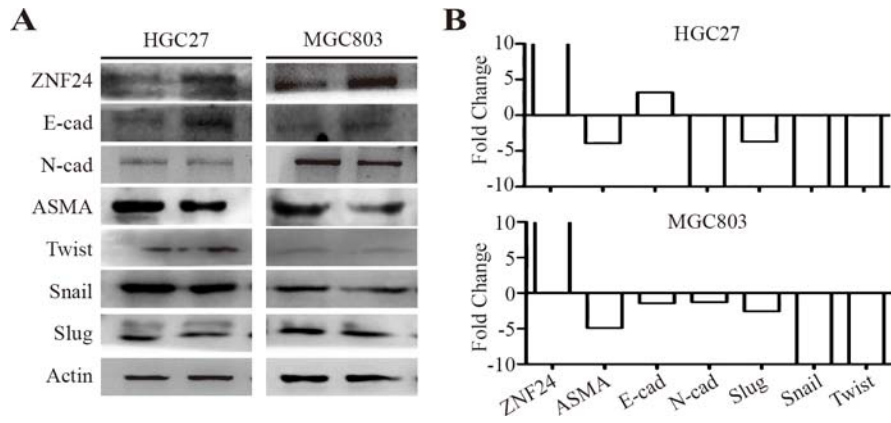
## SUPPLEMENTARY FIGURES AND TABLES



**Supplementary Figure S1: Impacts of miR-940 on gastric cell proliferation, migration and colony formation.** **A.** Efficiency validation of transfection of miR-940 mimics and inhibitors. **B.** Proliferation assays for HGC27 and MGC803 cells transfected with control/miR-940 mimics. **C.** Images of xenografts for HGC27 cells transfected with control/miR-940 lentivirus. **D.** *In vivo* proliferation assays of xenografts for HGC27 cells transfected with control/miR-940 lentivirus. **E.** Scratch assays for HGC27 and MGC803 cells transfected with control/miR-940 mimics. Bar graphs show relative cleared area. **F.** Colony formation assays for HGC27 and MGC803 cells transfected with control/miR-940 mimics. Bar graphs show colony count. \* $P < 0.05$ ; \*\* $P < 0.01$ .



**Supplementary Figure S2: ZNF24 suppresses migration and invasion of gastric cancer cells *in vitro*.** **A.** Representative images show the migration and invasion assays for HGC27 and MGC803 cells transfected with control/shZNF24 plasmids as well as SGC7901 cells transfected with control/ZNF24 plasmids. **B.** Representative images show the migration and invasion assays for HGC27 and MGC803 cells transfected with control/miR-940/miR-940+ZNF24.



**Supplementary Figure S3: miRNA-940 indirectly influence EMT through regulating ZNF24.** **A.** Key molecules of EMT were assessed by western blots in the indicated cells. **B.** Key molecules of EMT were assessed by qRT-PCR in the indicated cells.

**Supplementary Table S1. Univariate and multivariate analysis of factors associated with time to recurrence in 123 gastric cancer patients**

Time to recurrence						
	Univariate analysis			Multivariate analysis		
	Regression coefficient	HR (95%CI)	P value	Regression coefficient	HR (95%CI)	P value
Lauren type (diffusal v.s. intestinal)	-0.590	0.554 (0.356, 0.861)	<b>0.009</b>	-0.278	0.757 (0.586, 0.977)	<b>0.033</b>
Nerve invasion (yes vs. no)	0.834	2.304 (1.432, 3.704)	<b>0.001</b>	0.314	1.368 (1.024, 1.828)	<b>0.034</b>
Vascular invasion (yes vs. no)	0.437	1.548 (0.960, 2.500)	<b>0.073</b>	0.148	1.160 (0.867, 1.550)	0.317
T (4 vs. 1/2/3)	0.702	2.018 (1.111, 3.664)	<b>0.021</b>	0.566	1.761 (0.892, 3.479)	<b>0.034</b>
N (3 vs. 0/1/2)	0.664	3.204 (2.016, 5.091)	<b>0.000</b>	0.058	1.060 (0.625, 2.797)	0.829
M (1 vs. 0)	0.981	1.942 (1.237, 3.049)	<b>0.004</b>	0.734	2.083 (1.153, 3.762)	<b>0.015</b>
miR-940 (high vs. low)	0.489	1.631 (1.015, 2.619)	<b>0.043</b>	0.477	1.611 (0.964, 2.694)	<b>0.069</b>

HR: hazard ratio; CI: confidence interval.

**Supplementary Table S2. Primary antibodies for Western blot and immunohistochemistry**

Antibody	Concentration for WB	Concentration for IHC	Specificity	Company
ZNF24	1:1000	1:100	Mouse monoclonal	Abnova
E-cadherin	1:1000	/	Mouse monoclonal	Abcam
N-cadherin	1:1000	/	Rabbit polyclonal	Abcam
Vimentin	1:1000	/	Rabbit monoclonal	Abcam
$\alpha$ -SMA	1:500	/	Rabbit polyclonal	Abcam
Snail	1:200	/	Rabbit monoclonal	Cell Signaling
Slug	1:500	/	Rabbit polyclonal	Abcam
$\beta$ -actin	1:2000	/	Mouse monoclonal	Sigma

WB: Western blot; IHC: immunohistochemical staining.