

Supplementary Table 1 Regression analysis of HNF4 α and WNT5a expression with types of gastric carcinomas according to WHO.

WHO	Grade	β	SD	Wald χ^2	P	OR	95%CI OR
Tubular		-0.808	0.259	9.756	0.002		
	+	0.602	1.086	0.307	0.579	1.826	0.217~15.335
HNF4 α	++	-1.205	0.890	1.835	0.176	0.300	0.052~1.713
	+++	-	-	-	-	-	-
	+	-0.142	1.349	0.011	0.916	0.868	0.062~12.207
WNT5a	++	1.143	0.550	4.310	0.038	3.135	1.066~9.221
	+++	-	-	-	-	-	-
Mucinous		-0.319	0.220	2.111	0.146		
	+	0.028	1.086	0.001	0.979	1.029	0.123~8.636
HNF4 α	++	0.331	0.578	0.327	0.567	1.392	0.448~4.320
	+++	-	-	-	-	-	-
	+	0.582	1.224	0.226	0.634	1.790	0.163~19.716
WNT5a	++	0.712	0.495	2.067	0.151	2.038	0.772~5.380
	+++	-	-	-	-	-	-

Supplementary Table 2 Correlation of HNF4 α and WNT5a expression with clinicopathological parameters in gastric cancer patients.

Groups	n	HNF4 α positive (%)	P	WNT5a positive (%)	P
Gender					
Male	101	91.09		94.1	
Female	57	92.98	0.909	94.7	1.00
					0
Age (years old)					
≤ 60	97	90.72		92.8	
> 60	61	93.44	0.545	96.7	0.49
					2
Differentiation					
Low	97	90.72		94.9	
Moderate	52	98.08		94.2	
High	9	66.67	0.042	88.9	0.80
					0
Invasion depth (T)					
T ₁	26	92.31		92.3	
T ₂	20	100.0		100.0	
T ₃	39	92.31		97.4	
T ₄	73	89.04	0.468	91.8	0.39
					5
Lymph node					

metastasis (N)					
N ₀	65	90.77		90.8	
N ₁	16	93.75		96.8	
N ₂	32	96.88		100.0	
N ₃	45	88.89	0.622	95.6	0.31
					0
Distant metastasis (M)					
M ₀	126	92.06		93.7	
M ₁	32	90.63	1.00	96.9	0.78
					3
TNM stage					
I	28	92.85		92.9	
II	38	89.47		92.1	
III	74	93.24		96.0	
IV	18	88.89	0.869	94.4	0.84
					4

Supplementary Table 3 Correlation of β -catenin expression with clinicopathological parameters in gastric cancer patients.

Groups	n	β -catenin expression		Positive (%)	P
		Negative	Positive		
Gender					
Male	101	26	75	74.3	
Female	57	18	37	64.9	0.354
Age (years old)					
≤60	97	29	68	70.1	
>60	61	15	46	75.4	0.466
Differentiation					
Low	97	27	70	72.2	
Moderate	52	15	37	71.2	
High	9	2	7	77.8	0.917
Invasion depth (T)					
T ₁	26	10	16	61.5	
T ₂	20	5	15	75.0	
T ₃	39	13	26	66.7	
T ₄	73	16	57	78.0	0.334
Lymph node metastasis (N)					
N ₀	65	19	46	70.8	
N ₁	16	2	14	87.5	
N ₂	32	12	20	62.5	
N ₃	45	11	34	75.6	0.298

Distant metastasis (M)					
M ₀	126	31	95	75.4	
M ₁	32	13	19	59.4	0.071
TNM stage					
I	28	8	20	71.4	
II	38	9	29	76.3	
III	74	25	49	65.3	
IV	18	2	16	88.9	0.247

n = 447, r = 0.11(pearson), p.value= 0.03









