Membrane type 1-matrix metalloproteinase induces epithelial-to-mesenchymal transition in esophageal squamous cell carcinoma: Observations from clinical and *in vitro* analyses

Lijuan Pang^{1#}, Qiuxiang Li¹, Shugang Li², Jianwei He³, Weiwei Cao¹, Jiaojiao Lan¹, Bin Sun⁴, Hong Zou¹, Chengyan Wang¹, Ruixue Liu¹, Cuilei Wei¹, Yutao Wei⁵, Yan Qi¹, Jianming Hu¹, Weihua Liang¹, Wen Jie Zhang¹, Mei Wan⁶, Feng Li^{1*}

First author: Dr. Lijuan Pang, M.D, Ph.D E-mail: ocean123456@163.com

¹Department of Pathology and Key Laboratory of Xinjiang Endemic and Ethnic Diseases (Ministry of Education), Shihezi University School of Medicine, Shihezi 832002, Xinjiang, China

²Department of Public Health, Medical School, Shihezi University School of Medicine, Shihezi 832002, Xinjiang, China

³Department of Clinical Laboratory, First Affiliated Hospital to Shihezi University School of Medicine, Shihezi 832008, Xinjiang, China

⁴Department of Stomatology, First Affiliated Hospital to Shihezi University School of Medicine, Shihezi 832008, Xinjiang, China

⁵Department of Thoracic and Cardiovascular Surgery, First Affiliated Hospital to Shihezi University School of Medicine, Shihezi 832008, Xinjiang, China.

⁶Department of Orthopedic Surgery, Johns Hopkins University School of Medicine, Baltimore, MD 21205, USA

^{*}Corresponding author: Dr. Feng Li, M.D, Ph.D Department of Pathology and Key Laboratory of Xinjiang Endemic and Ethnic Diseases (Ministry of Education), Shihezi University School of Medicine (E-mail: lifeng7855@126.com)

Supplement Table S2. Snail and Slug protein expression in relation to clinical pathological characteristics in Kazakh ESCC.

Table S2

Clinicopathologica features	Snail			Z	Slug			Z
	-	+	2+/3+	P	-	+	2+/3+	P
N	22	15	5	-4.562	24	16	2	-4.635
Ca	13	40	35	< 0.001	23	24	41	<0.001
Sex								
Male	5	31	19	-0.114	15	19	21	-0.923
Female	8	9	16	0.909	8	5	20	0.356
Age (y)								
<60	6	22	13	-1.118	11	7	23	-0.81
≥60	7	18	22	0.264	12	17	18	0.408
Tumor invasion								
Superficial layer	5	20	24	-2.094	11	12	26	-1.017
Deep layer	8	20	11	0.036	12	12	15	0.309
LN metastases								
Yes	8	27	22	-0.133	15	14	28	-0.419
No	5	13	13	0.894	8	10	13	0.675
Tumor differentiation	n							
Well	8	13	4	-3.402	7	9	9	-0.967
Moderate-poor	5	27	31	0.001	16	15	32	0.333
Stage								
I + II	9	21	34	-3.399	12	16	36	-3.151
III+ IV	4	19	1	0.001	11	8	5	0.002

P-values ≤ 0.05 are in bold.