

Erratum

Circ-EEF2 facilitated autophagy via interaction with mir-6881-3p and ANXA2 in EOC: Am J Cancer Res. 2020; 10(11): 3737-3751

Min Yong¹, Jianguo Hu¹, Hongtao Zhu¹, Xinwei Jiang¹, Xiaolin Gan¹, Lina Hu^{1,2}

¹Department of Obstetrics and Gynecology, Second Affiliated Hospital, Chongqing Medical University, Linjiang Road, No. 76, Chongqing 400010, China; ²Joint International Research Lab for Reproduction and Development, Ministry of Education, China

Received January 28, 2021; Accepted February 24, 2021; Epub April 15, 2021; Published April 30, 2021

In the page 3741, the title of “**Table 1.** Association of circEEF2 expression with clinicopathological characteristics in 69 patients of EOC” was an inaccurate description. 69 patients including 12 cases of normal ovarian and 57 cases of epithelial ovarian cancer. The title should be change as “**Table 1.** Association of circEEF2 expression with clinicopathological characteristics in 57 patients of EOC”.

In the page 3744, the lable of “ATG7-wt, ATG7-mut” of horizontal ordinate in the **Figure 4D** was lost. The word “p-MOR” should be “p-mTOR”.

In the page 3747, the picture of GAPDH in the **Figure 6D** was misused. It caused by data stor-

age path error. The GAPDH in **Figure 2D** was the same as the GAPDH in the **Figure 6D**. When we checked the time of raw data, we find the mistake. The lable of “month” of horizontal ordinate in the **Figure 6E** was lost. The lable of “Nucleotide Position” of horizontal ordinate in the **Figure 6F** was lost.

Address correspondence to: Lina Hu, Department of Obstetrics and Gynecology, Second Affiliated Hospital, Chongqing Medical University, Linjiang Road, No. 76, Chongqing 400010, China. E-mail: 302502@hospital.cqmu.edu.cn

Circ-EEF2 promoted autophagy in EOC

Table 1. Association of circEEF2 expression with clinicopathological characteristics in 57 patients of EOC

Characteristics	NO. of patients (n = 69)	CircEEF2 Expression		P value
		Low no. (%)	High no. (%)	
Age (years)				> 0.05
<50	26	11 (42.31%)	15 (57.69%)	
≥50	43	14 (32.56%)	29 (67.44%)	
Normal ovarian	12	8 (66.67%)	4 (33.33%)	< 0.05
Cancer tissues	57	17 (29.82%)	40 (70.18%)	
Tumor type		Serous versus non-serous		> 0.05
clear cell carcinoma	8	2 (25.00%)	6 (75.00%)	
serous carcinoma	40	13 (32.50%)	27 (67.50%)	
mucinous carcinoma	9	2 (22.22%)	7 (77.78%)	
FIGO stage				< 0.05
I/II	21	13 (61.90%)	8 (38.10%)	
III/IV	36	4 (11.11%)	32 (88.89%)	
Grade				
1	17	10 (58.82%)	7 (41.18%)	
2	18	5 (27.78%)	13 (72.22%)	
3	22	2 (9.09%)	20 (90.91%)	
		Grade 2-3 Versus 1		< 0.05

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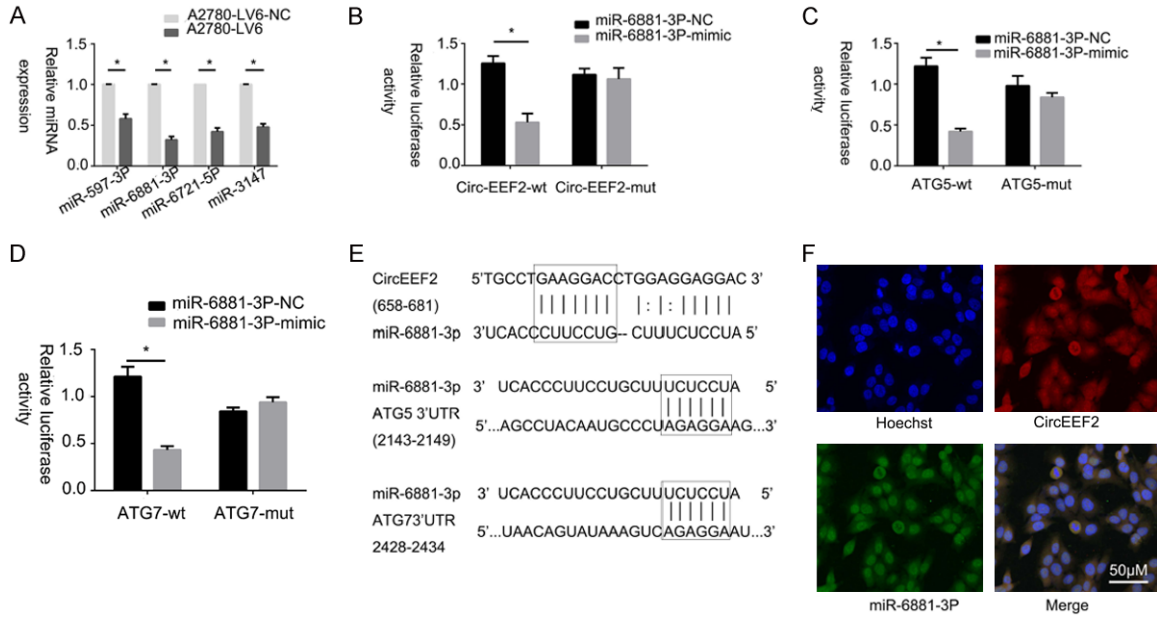
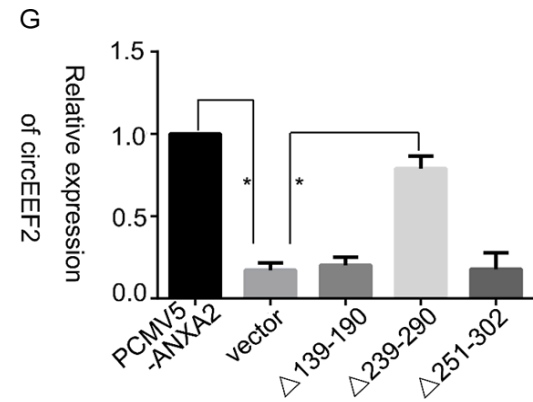
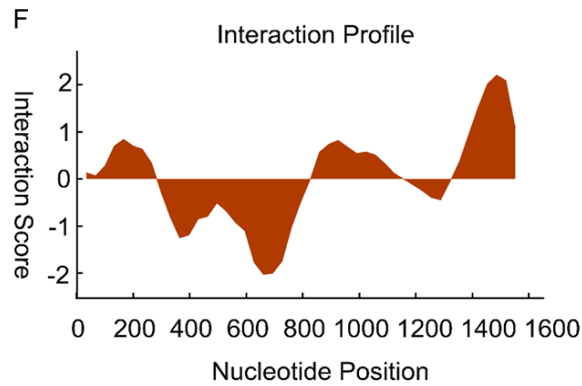
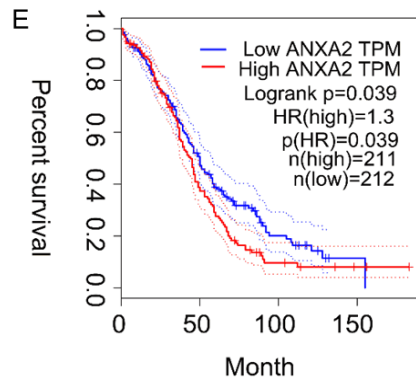
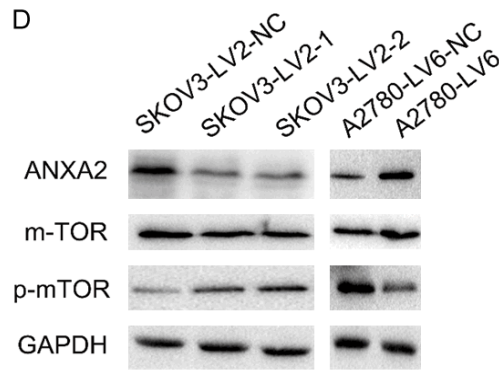
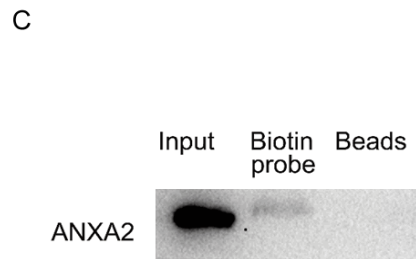
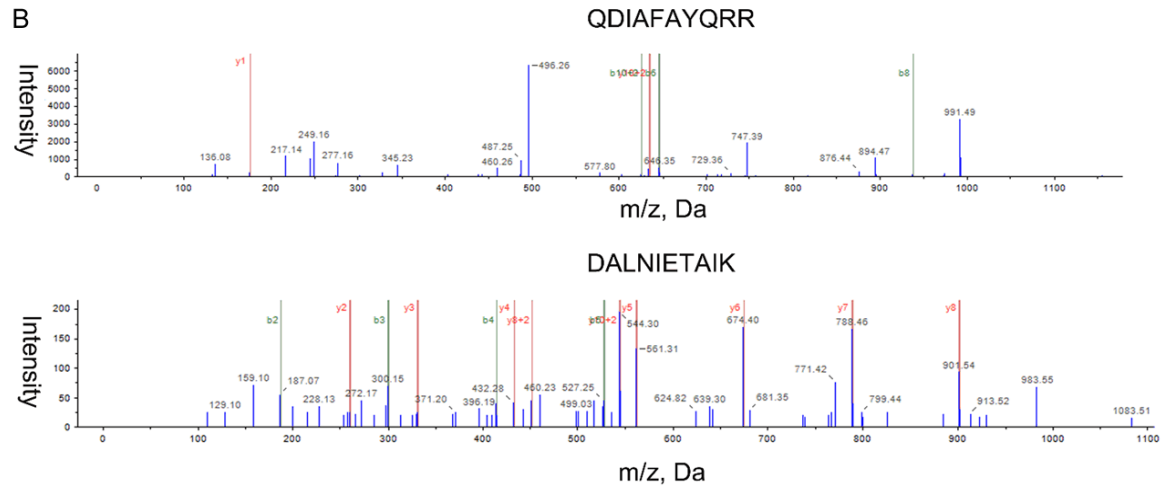
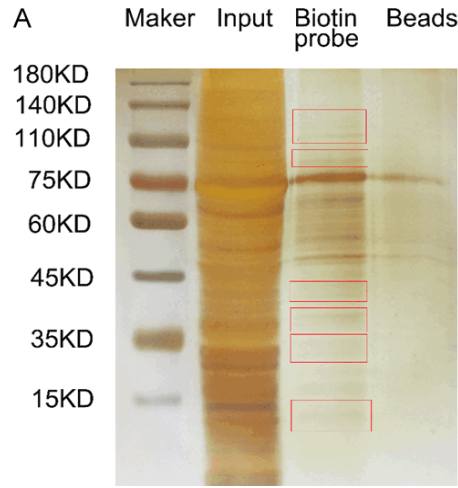


Figure 4. Sparging of miR-6881-3p by circEEF2. **A.** Predicted miRNAs expression was verified by qPCR in A2780 cells that stably overexpressed circEEF2. **B-D.** SKOV3 cells were transfected with miR-6881-3p mimic or NC, which was followed by co-transfection with corresponding vectors (ATG5-wt or mut, ATG7-wt or mut, and CircEEF2-wt or mut) containing firefly luciferase and renilla plasmid. Luciferase activity was measured. Error bars represent the standard error. The symbol * represents $P < 0.05$. **E.** Binding site predicted by bioinformatics analysis. **F.** Colocalization of miR-6881-3p and circEEF2 was detected using FISH assay and photographed by confocal microscope in SKOV3 cells. Scale bar: 50 μm .

Circ-EEF2 promoted autophagy in EOC



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Figure 6. CircEEF2 directly binds to ANXA2. A. Silver staining revealed differential bands (in red box) obtained through circEEF2 RNA pulldown assay. B. Two peptides named QDIAFAYQRR and DALNIETAIK of ANXA2 were identified by MALDI-TOF-MS. C. ANXA2 was detected by Western blotting (WB) after circEEF2 RNA pulldown assay. D. Expression levels of ANXA2, p-MTOR, and m-TOR were determined using WB after knockdown or overexpression of circEEF2 in SKOV3 or A2780 cells. E. Relationship between ANXA2 expression and overall survival was analyzed in patients with ovarian cancer based on TCGA data. F. Potential interaction sites between circEEF2 and ANXA2 were predicted via catRAPID. G. PCMV5 vector containing ANXA2 DNA segments (PCMV5 vector, PCMV5-ANXA2, PCMV5- Δ 139-190, PCMV5- Δ 239-290 or PCMV5- Δ 251-302) were used to transfect in SKOV3 cells for 48 h. Expression of circEEF2 was detected using q-PCR. Error bars represent the standard error. The symbol * indicates $P < 0.05$.