

Dear reviewer,

Thank you for your comments concerning our manuscript entitled “**Expression patterns of CD147 impact the prognosis of hepatocellular carcinoma**”. Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. The main corrections in the paper and the responds to the comments are as flowing:

1. The terminology of liver hepatocellular carcinoma--> hepatocellular carcinoma (HCC) was popular used without "liver" and the Objective(in the Abstract) was wrong in preparation.

**Answered:** In the TCGA database, the expression method for hepatocellular carcinoma (HCC) is liver hepatocellular carcinoma (LIHC). So, the manuscript was revised using LIHC. After reviewing a large amount of literature, we agree with the opinions of the reviewers. Thanks

2. Introduction; a. Liver cancer is a highly .....with a 5-year survival rate being only 10% [1]. But the code reference was HCC not liver cancer? "HCC" do not equal "liver cancer" b. Several approaches are available for the treatment of LIHC, such as surgery ..... and targeted therapy [9]. It is better to add regional tumor ablation method c....Matrix Metalloproteinase (MMP) on the tumor surface-->matrix metalloproteinase (MMP)..no capital letter and the same in the follow text d. A biological marker that can effectively predict and evaluate the prognosis of liver cancer has not yet been identified. Actually there were many biological markers used as a evaluation of prognosis. For example, the Reference 16 and 22.

**Answered: a,** The first sentence in the introduction is about liver cancer, in reference 1. Therefore, we cited it. **b,** Due to our negligence, local ablation was not mentioned in the treatment of HCC. Local ablation has been added to the revised manuscript. **c,** We have modified it to matrix metalloproteinase (MMP). **d,**

3. Materials and Methods: Please show us the certificate for using the TCGA... for analysis or it is not necessary?

**Answer:** We analyzed the expression of CD147 and the prognosis of TCGA-LIHC. Therefore, it is necessary to analyze using R software. After replying to all questions, we attach the expression of CD147 in TCGA-LIHC(Table 1). If the reviewer needs the full process code in R software, we can provide it.

4. Results; " in the abstract; Data from TCGA and GEO databases revealed that CD147 was significantly overexpressed in LIHC ( $p = 1.624e-12$  and  $p = 1.2e-05$ ), respectively. " These result did not appear in the text of the "Results". By the way, the expression of p value was different from ordinary expression, please descript more and test method.  
**Answer:** We have modified the p-value of CD147 expression in result 1. Using R software to calculate t-test, the p-value is  $1.624e-12$ .

5. Discussion; The paragraph "Several studies have shown that CD147 has a....predict prognosis in patients [31]." was not necessary and can be summarized into a sentence in the previous paragraph.

**Answer:** In the discussion, our writing approach was to analyze the results of CD147 in HCC from TCGA and GEO databases. Subsequently, we summarized whether the study of CD147 in HCC is consistent with our results. Next, analyze the role of CD147 in other tumors and non tumors.

6.the preparation of reference should base on the requirement of the journal

**Answered:** We have made revisions to the references according to the magazine's requirements. Thank you.

Table 1, The expression of BSG(CD147) in TCGA-LIHC

1	Tag	BSG
2	TCGA-ED-A7PZ-01	330.054457
3	TCGA-DD-AAVX-01	153.549866
4	TCGA-DD-A113-01	116.1723022
5	TCGA-CC-A5UC-01	340.3101839
6	TCGA-DD-AAACX-01	527.4924863
7	TCGA-BC-A10U-01	393.5043388
8	TCGA-DD-AAEO-01	590.6100858
9	TCGA-DD-A115-01	99.76056858
10	TCGA-DD-AAE4-01	123.6209046
11	TCGA-DD-AAACB-01	348.6396978
12	TCGA-CC-A8HV-01	852.1615028
13	TCGA-DD-A73E-01	310.047019
14	TCGA-MR-A8JO-01	533.3457004
15	TCGA-2Y-A9GU-01	250.6106149
16	TCGA-DD-A39W-01	151.2081661
17	TCGA-EP-A26S-01	134.6951536
18	TCGA-ED-A4XI-01	170.4620276
19	TCGA-ZP-A9CZ-01	184.349344
20	TCGA-G3-A3CI-01	249.4332632
21	TCGA-ZP-A9D0-01	205.465741
22	TCGA-DD-AADU-01	180.0138589
23	TCGA-DD-A1EE-01	219.7496575
24	TCGA-GJ-A3OU-01	470.9313743
25	TCGA-CC-A7IJ-01	379.7880584
26	TCGA-CC-A8HU-01	334.4167517
27	TCGA-G3-A5SK-01	186.4684656
28	TCGA-DD-AAEA-01	411.3991746
29	TCGA-XR-A8TG-01	205.465741
30	TCGA-DD-A3A4-01	232.015102
31	TCGA-DD-AAD8-01	279.3772811
32	TCGA-BC-A10X-01	167.2789967
33	TCGA-K7-A5RF-01	168.6745113
34	TCGA-K7-AAU7-01	651.686786
35	TCGA-ZS-A9CF-01	376.7742416
36	TCGA-DD-AADS-01	125.5710913
37	TCGA-2Y-A9GS-01	145.905007