

# **Supplementary information**

## **Anti-Obesity Effect of Chlorin e6-Mediated Photodynamic Therapy in High Fat Diet-Induced Obese Mice**

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### **TABLE OF CONTENTS**

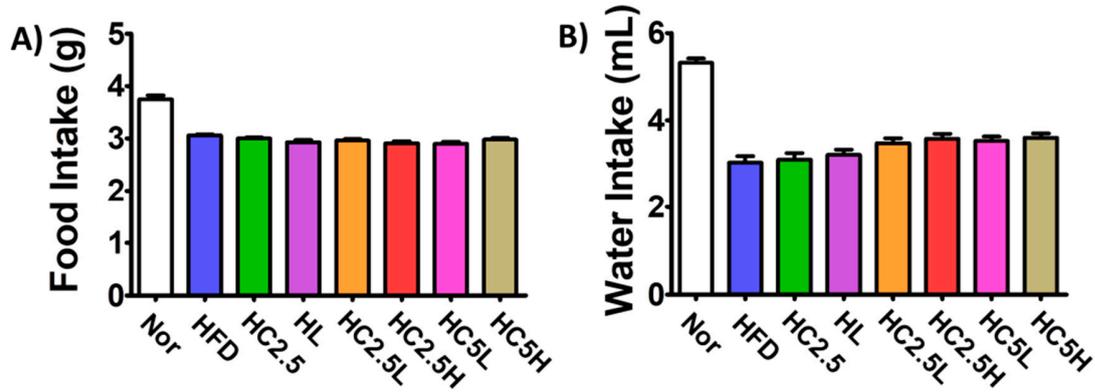
**S1. Food and water intake of mouse model set 2**

**S2. Effects of Ce6-PDT on serum levels of liver and kidney toxicity markers mouse model**

**S3. Liver tissue slide scoring criteria**

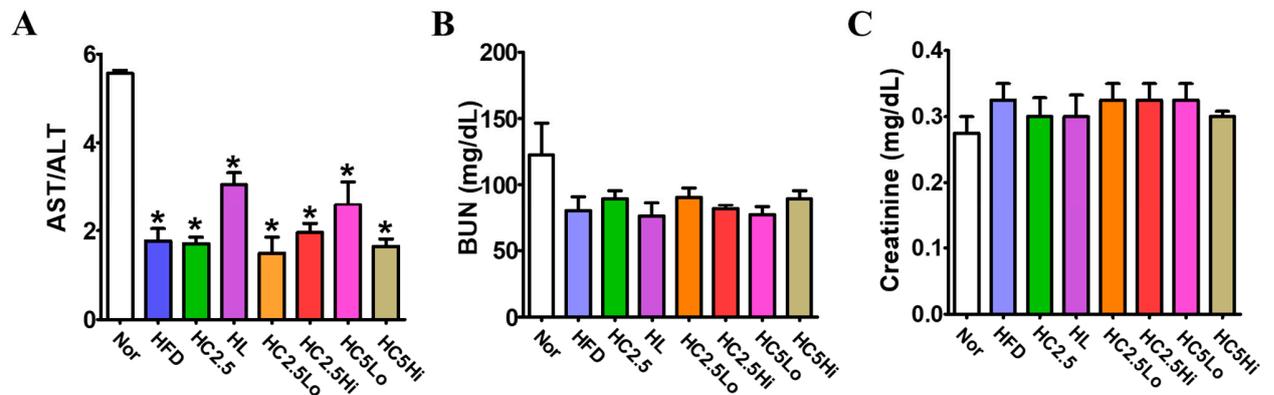
**S4. Summary of main features of Model 1 and Model 2**

## S1. Food and water intake of mouse model set 2



**Figure S1: (A) Food and (B) water intake of mouse model set 2.** Food and water were freely consumed in each test group. The consumed amount of food and water were measured by initial amount.

## S2. Effect of Ce6-PDT in liver and kidney toxicity markers (AST/ALT, BUN, Creatinine)



**Figure S2: Effects of Ce6-PDT on serum levels of liver and kidney toxicity markers of mouse model 2.** A) AST/ALT ratio, B) BUN, and C) Creatinine of the experimental mice groups. Data are expressed as mean  $\pm$  SD, (n = 3), \*p < 0.05, compared with the control group. #p < 0.05, compared with the HFD only-treated group.

### S3. Liver tissue slide scoring criteria

**Table S1:** Liver tissue slide scoring criteria

Histological criteria	Description	Score
Steatosis	< 5%	0
	5~30%	1
	> 33~66%	2
	> 66%	3
Lobular Inflammation	No foci	0
	< 2 foci per 200× field	1
	2~4 foci per 200× field	2
	> 4 foci per 200× field	3
Hepatocellular Hypertrophy	< 5%	0
	5~30%	1
	> 33~66%	2
	> 66%	3

#### S4. Summary of main features of Model 1 and Model 2

**Table S2:** Major features of Model 1 and Model 2

S.N.	Features	Model 1	Model 2
1	Purpose	Preliminary experiment	Main experiment
2	Experimental Site	Conventional animal facility	CRO for animal experiment
3	Groups	Normal, Vehicle-treated HFD, HC2.5Hi, HC5Lo and HC5H	Normal, Vehicle-treated HFD, HC2.5, HL, HC2.5Lo, HC2.5Hi, HC5Lo and HC5Hi
4	No of mice in each group	4	8
5	Age of mice	4 weeks	4 weeks
6	Fat (%) in diet	10% in NFD and 60% in HFD	10% in NFD and 60% in HFD
7	Length of HFD exposure	70 days	42 days
8	% Increase in Fat	70%	30%
9	Doses of Ce6	2.5 and 5 mg/kg	2.5 and 5 mg/kg
10	Route of administration of Ce6	Oral	Oral
11	Fluence of LED Light	2.56 mW/cm <sup>2</sup> for 5 min and 4.96 mW/cm <sup>2</sup> for 10 min	2.56 mW/cm <sup>2</sup> for 5 min and 4.96 mW/cm <sup>2</sup> for 10 min
12	Days of PDT treatment	Every 2 days up to 29 days	Every 2 days up to 29 days
13	(%) Effectiveness of HC2.5Hi and HC5Hi groups compared to HFD group	10%	14%