

1 **Appendix A. Supplementary material**

2 **Table S1**

3 The body weight of mice of different group from 0th to 5th week.

Time	Body weight (g)				
(w)	BCD	HFD	MET	DCS	DCSK
0	25.20 ± 1.95	25.12 ± 0.91	25.05 ± 1.73	24.33 ± 1.44	23.75 ± 1.61
1	23.80 ± 1.31	25.72 ± 0.54	25.04 ± 1.45	25.29 ± 1.54	23.55 ± 1.28
2	23.56 ± 1.58	25.99 ± 0.93	24.94 ± 1.37	24.28 ± 0.43	23.40 ± 1.53
3	23.79 ± 1.24	26.12 ± 0.90	24.75 ± 1.13	25.40 ± 2.07	22.71 ± 1.77
4	23.81 ± 1.37	25.92 ± 1.12	24.64 ± 1.51	25.50 ± 1.97	23.29 ± 1.89
5	23.90 ± 1.01	26.22 ± 0.53	24.10 ± 1.06	25.45 ± 1.48	23.1 ± 1.28

4 Each value was represented as mean ± SD (n = 8).

5 **Table S2** The OPLS-DA parameters of fecal samples of mice of different groups in the
6 positive model.

Group	A	R ² X (cum)	R ² Y (cum)	Q ² (cum)
BCD VS HFD	3	0.524	0.994	0.861
MET VS HFD	2	0.514	0.990	0.906
DCS VS HFD	2	0.545	0.995	0.962
DCSK VS HFD	2	0.522	0.996	0.961

7 Note: A, the number of principal components; R²X, the interpretation rate of the X
8 matrices of the built model; R²Y, the interpretation rate of the Y matrices of the built
9 model; Q², the projection ability of the model.

10 **Figure Captions**

11 **Fig. S1** Effects of DCS and DCSK on blood glucose level in T2D mice. Note: # $p < 0.05$

12 vs the BCD group, * $p < 0.05$ vs the HFD group.

13 **Fig. S2** Rarefaction curve (top) and rank abundance (bottom) of intestinal microbiota

14 of the four experimental groups on otu level.

15 **Fig. S3** Principal coordinates analysis (PCoA) of the differences in structure of

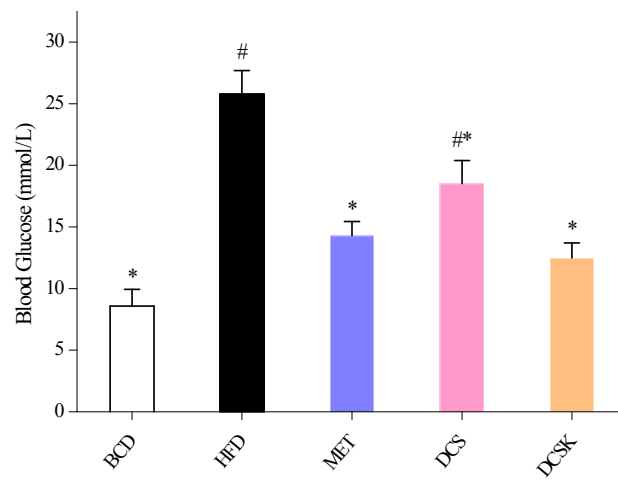
16 intestinal microbiota among the five experimental groups based on weighted (left) and

17 unweighted unfrac distance (right).

18 **Fig. S4** The OPLS-DA score plot from BCD, HFD, MET, DCS and DCSK groups in

19 the positive mode.

20 **Fig. S1**

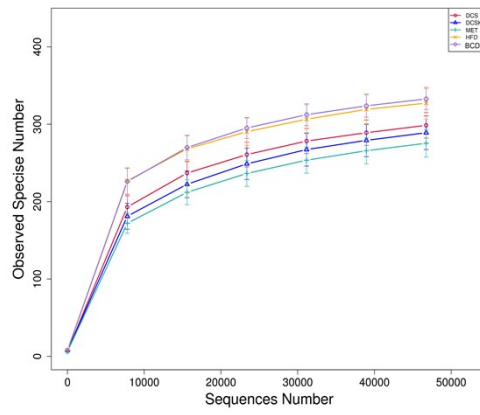
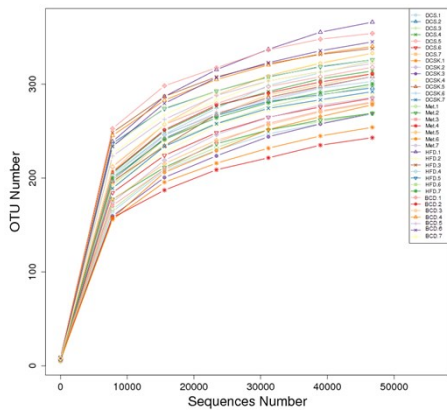


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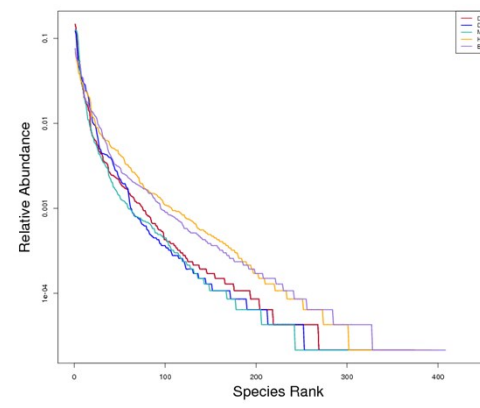
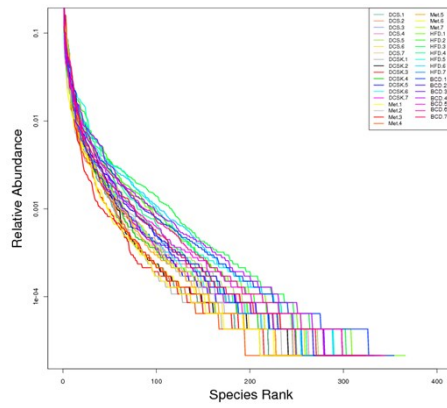
22 **Fig. S1** Effects of DCS and DCSK on blood glucose level in T2D mice. Note: # $p < 0.05$

23 vs the BCD group, * $p < 0.05$ vs the HFD group.

24 **Fig. S2**



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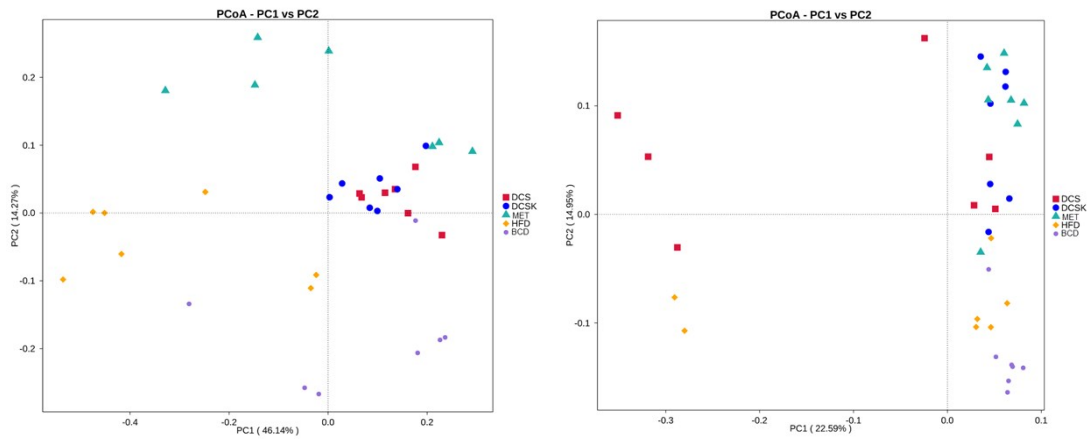


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27 **Fig. S2** Rarefaction curve (top) and rank abundance (bottom) of intestinal microbiota

28 of the four experimental groups on otu level.

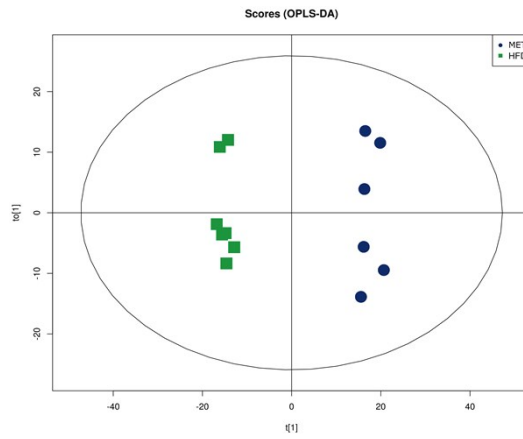
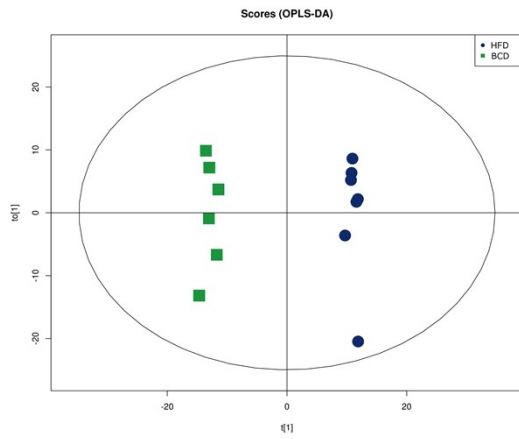
29 **Fig. S3**



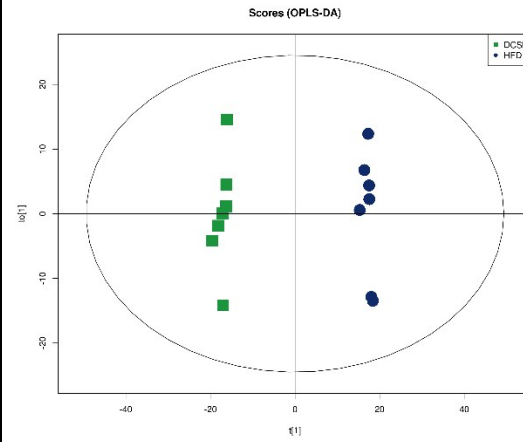
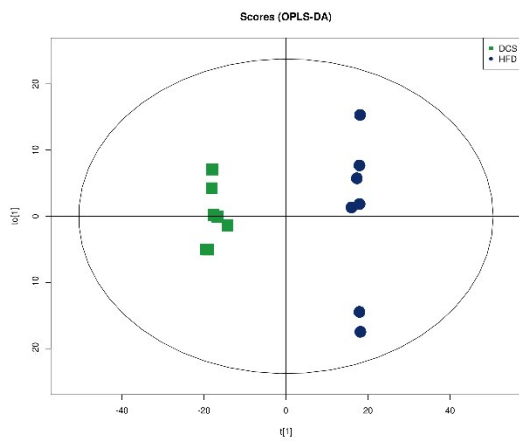
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31 **Fig. S3** Principal coordinates analysis (PCoA) of the differences in structure of
32 intestinal microbiota among the five experimental groups based on weighted (left) and
33 unweighted unifracs distance (right).

34 **Fig. S4**



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37 **Fig. S4** The OPLS-DA score plot from BCD, HFD, MET, DCS and DCSK groups in

38 the positive mode.