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Title: Fucosylated chondroitin sulfate oligosaccharides from *Isostichopus badionotus* regulates lipid disorder in C57BL/6 mice fed a high-fat diet

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**Fucosylated chondroitin sulfate oligosaccharides from *Isostichopus badionotus*  
regulates lipid disorder in C57BL/6 mice fed a high-fat diet**

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### Highlights

1. HFD induced lipid disorders in mice;
2. DfCS-*Ib* attenuated lipid disorders (obesity, hyperlipidemia, etc) caused by HFD.
3. DfCS-*Ib* restored the expression of metabolic genes in adipose tissue and liver.
4. The anti-hyperlipidemic activity of DfCS-*Ib* was first reported;

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