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

Authors: Shan Li, Junhui Li, Guizhu Mao, Yaqin Hu, Xingqian Ye, Ding Tian, Robert J. Linhardt, Shiguo Chen

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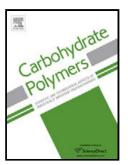
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## ACCEPTED MANUSCRIPT

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

Shan Li, <sup>1</sup> Junhui Li, <sup>1</sup> Guizhu Mao, <sup>1</sup> Yaqin Hu, <sup>1</sup> Xingqian Ye, <sup>1</sup> Ding Tian, <sup>1</sup> Robert J. Linhardt, <sup>2</sup> Shiguo Chen<sup>1</sup>\*

<sup>1</sup> Zhejiang Key Laboratory for Agro-Food Processing, Department of Food Science and Nutrition, Fuli Institute of Food Science, Zhejiang University, Hangzhou, 310058, China

<sup>2</sup> Center for Biotechnology and Interdisciplinary Studies, Rensselaer Polytechnic Institute, Troy, New York 12180, USA.

### \*Correspondence:

Shiguo Chen, College of Biosystem Engineering and Food Science, Zhejiang University, Hangzhou 310058, China. E-mail: chenshiguo210@163.com; Tel: 86-0571-88982151.

## 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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