Supplementary Figures

Kyphosid fish microbiome adaptations to sulfated dietary polysaccharides

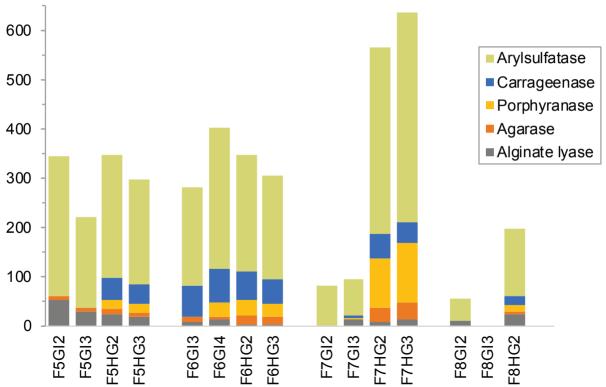
Sheila Podell, Aaron Oliver, Linda Wegley Kelly, Wesley Sparagon, Alvaro M. Plominksky, Robert S. Nelson, Lieve M. L. Laurens, Simona Augyte, Neil A. Sims, Craig E. Nelson, Eric E. Allen

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Supplementary Figure S1. Fish gut sample distribution of algal degradative enzyme keywords. Prokka annotation keywords for assembled contigs have been normalized for total number of predicted proteins in each fish sample. Full data and significance calculations are provided in Supplementary Dataset S1

Supplementary Figure S2. Separation distances for CAZy and SulfAtlas class pairs. A) fish metagenomes. B) Terrestrial ruminant metagenomes. Complete data is presented in Supplementary Dataset 3.

Supplementary Figure S1. Fish gut sample distribution of algal degradative enzyme keywords. Prokka annotation keywords for assembled contigs have been normalized for total number of predicted proteins in each fish sample. Full data and significance calculations are provided in **Supplementary Dataset S1**.



Supplementary Figure S2. Separation distances for CAZy and SulfAtlas class pairs. A) fish metagenomes. B) Terrestrial ruminant metagenomes. Complete data is presented in Supplementary Dataset 3. В 1600 4000 1400 3500 pairs of pairs 1200 3000 1000 n = 45542500 n = 40062median = 4 median = 15Number 800 Number 2000 98.2% 62.8% 600 1500 400 1000 200 500

15

Number of genes between

19 21 23 25

15 17 19 21 23 25

Number of genes between