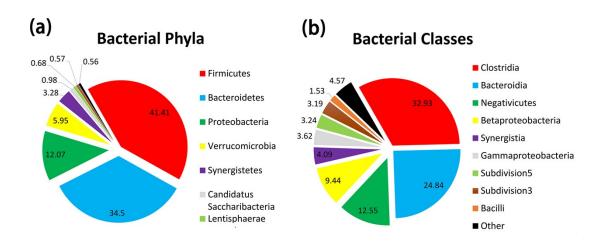
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## **Electronic Supplementary Information**



**Fig. S1.** Relative abundance and diversity of bacterial phylum and classes of rumen bacteria used.

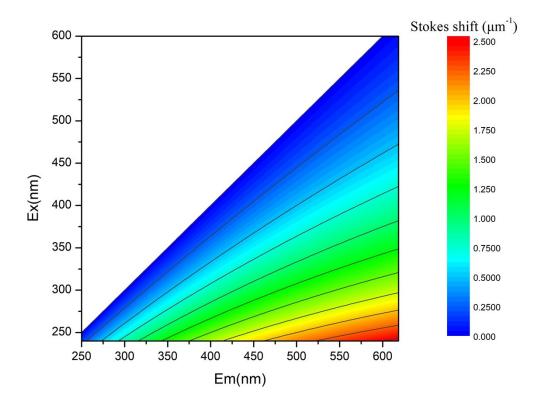
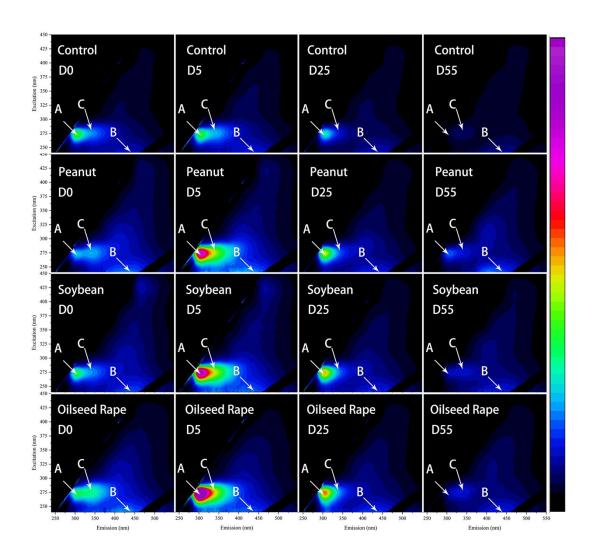
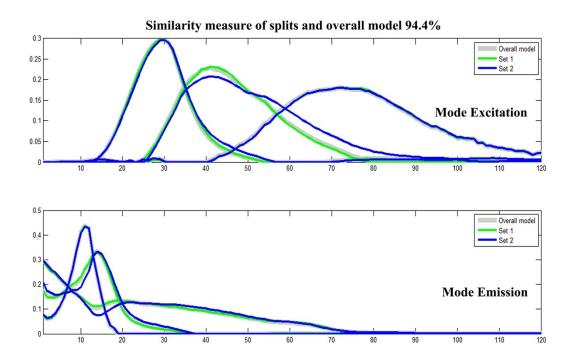


Fig. S2. Contour map of Stokes shift.



**Fig. S3.** Fluorescence EEMs of DOM in  $D_0$ ,  $D_5$ ,  $D_{25}$ , and  $D_{55}$  samples during anaerobic digestion of oil crop straw.



**Fig.S4** split half validation of the three fluorescent components via PARAFAC analysis