# Kelly et al. Figures

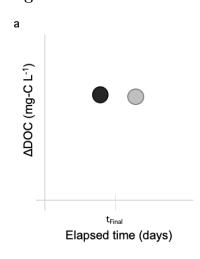
Different Incubation Assay Metrics Describe Different Aspects of Carbon Degradation

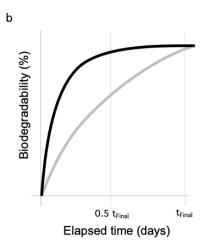
#### Contents

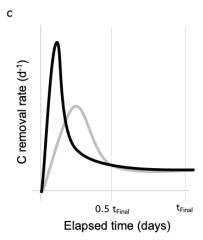
Iain manuscript	1
Figure 1	1
Figure 2	2
Figure 3	3
Figure 4	4
Figure 5	
Figure 6	
upplemental	6
Figure S1	6
Figure S2	
Figure S3	
Figure S4	
Figure S5	10
Table S1	10
Table S2	
Table S3	
Table S4	

## Main manuscript

#### Figure 1







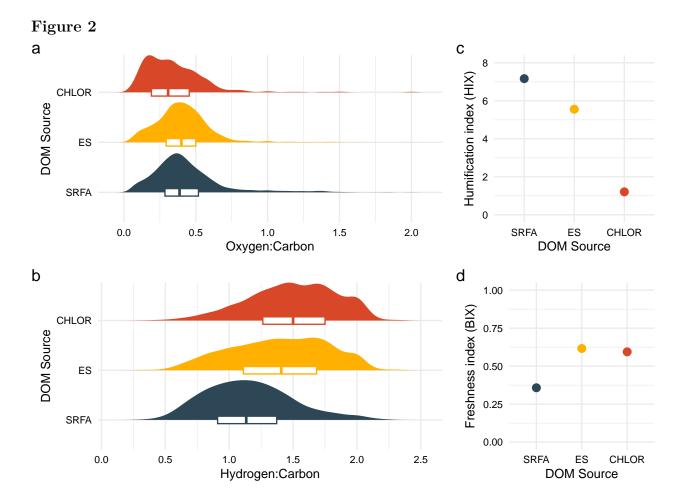


Figure 3

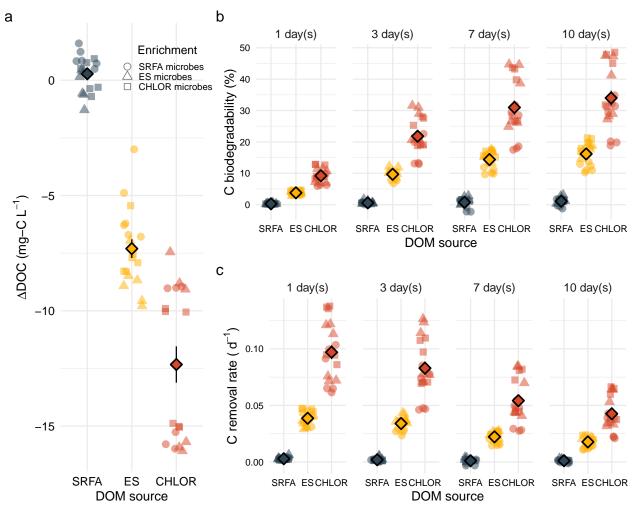
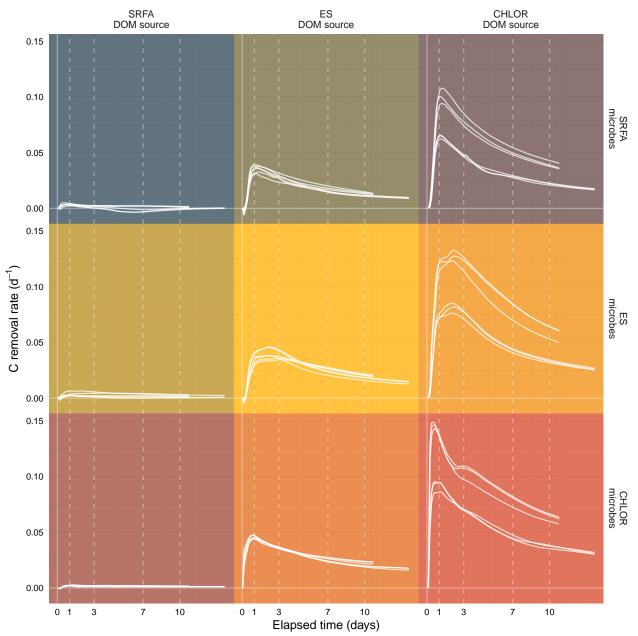


Figure 4





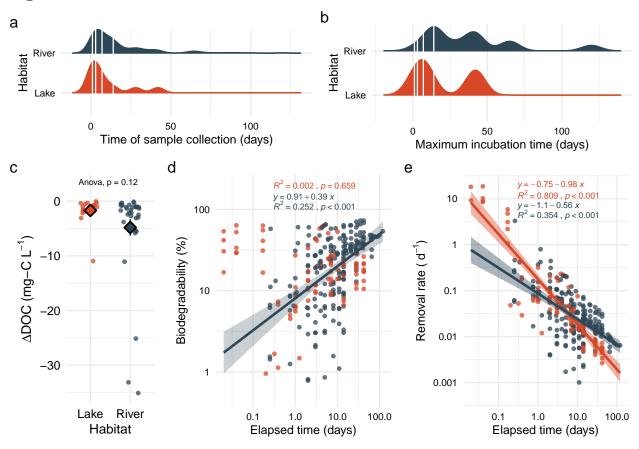


Figure 6

			C bioavailability
Study objective	Total degradation	Relative degradation	Microbial activity
	ΔDOC	Biodegradability	C removal rate
Degradation metric	$\Delta DOC = DOC_F - DOC_0$	$BDOC_{t} = \frac{DOC_{0} - DOC_{t}}{DOC_{0}} \times 100$	$k_t = -\frac{1}{t} ln \frac{DOC_t}{DOC_0}$
	Balance	ed sampling	Front-loaded sampling
Sampling strategy	$t_0$ $t_1$ $t_2$	t <sub>3</sub> t <sub>4</sub> t <sub>Final</sub>	t <sub>0</sub> t <sub>1</sub> t <sub>2</sub> t <sub>3</sub> t <sub>4</sub> t <sub>Final</sub>

### Supplemental

Figure S1

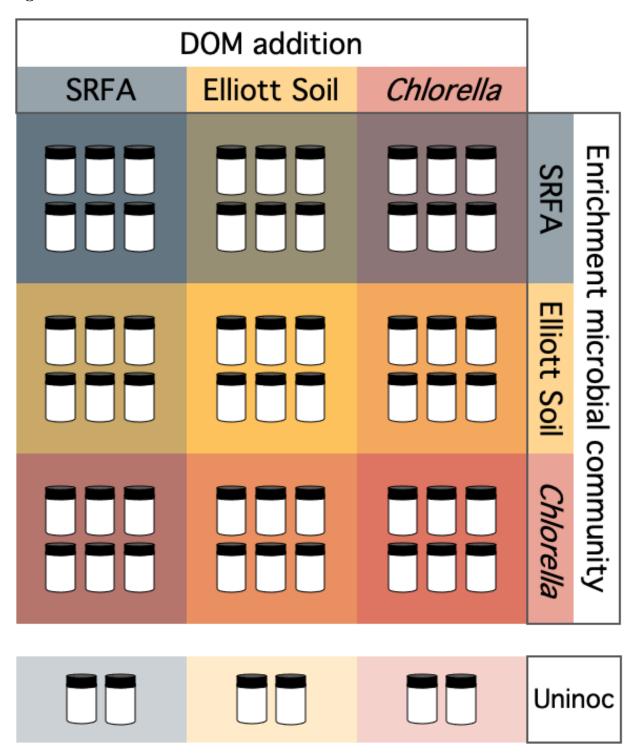


Figure S2

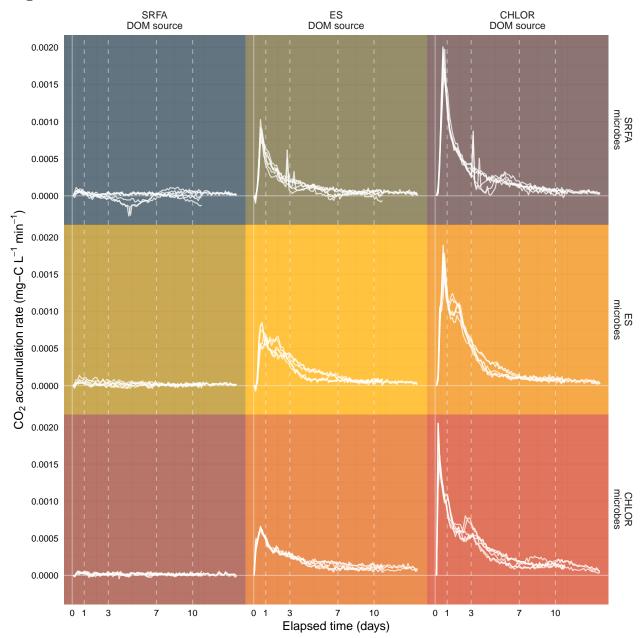


Figure S3

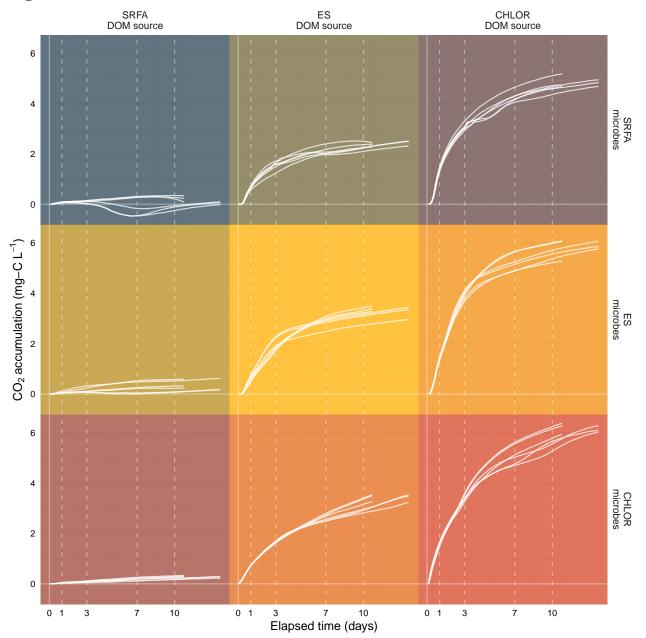


Figure S4

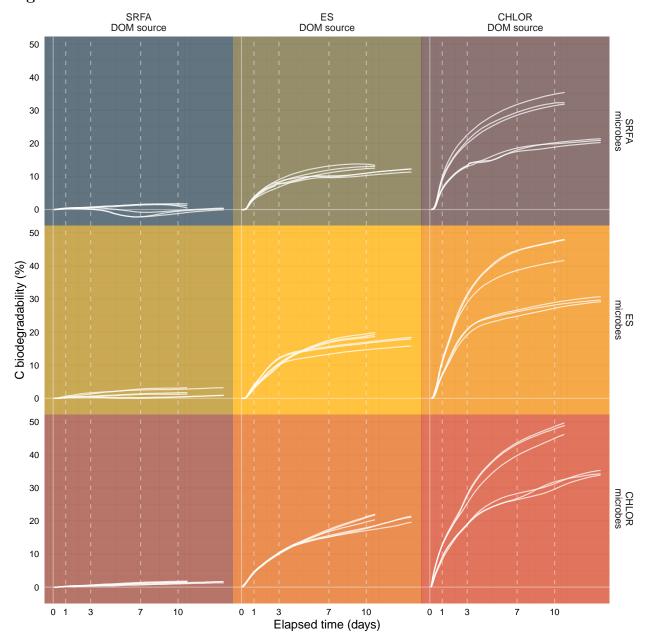


Figure S5

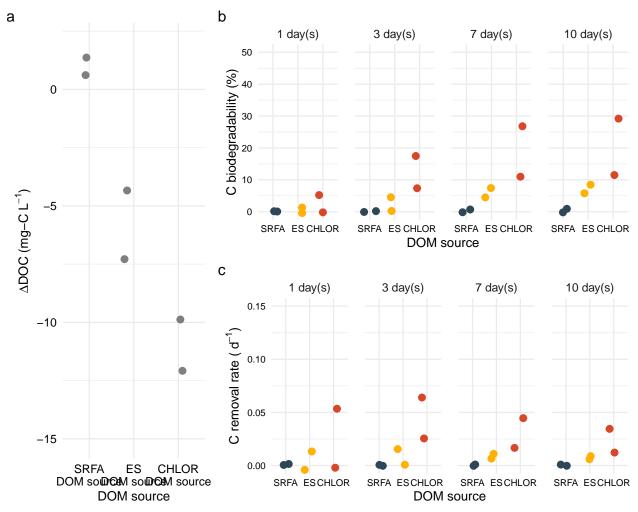


Table S1

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
DOMSource	2	1450.747	725.374	150.737	0.000
Enrichment	2	17.882	8.941	1.858	0.168
DOMSource:Enrichment	4	16.040	4.010	0.833	0.511
Residuals	45	216.548	4.812	NA	NA

Table S2

DOMSourc	eEnrichment	initialDOC	finalDOC	1	3	7	10
SRFA	CTRL	20.38 (1.33)	21.23 (0.89)	0.02 (0.01)	0.01 (0.04)	0.06 (0.13)	0.08 (0.16)
SRFA	SRFA	20.23 (0.88)	21.18(0.63)	0.07(0.02)	0.09(0.06)	-0.04 (0.37)	0.07(0.24)
SRFA	ES	18.9(0.42)	18.65 (0.64)	$0.06 \ (0.03)$	0.15(0.1)	0.26(0.22)	0.3(0.21)
SRFA	CHLOR	$17.56 \ (0.74)$	17.7(0.21)	0.04 (0.01)	0.09(0.03)	0.18(0.06)	0.24 (0.06)
ES	CTRL	19.36 (0.89)	13.5(1.12)	0.09(0.24)	0.48(0.61)	1.16(0.45)	1.39(0.43)
ES	SRFA	19.32(1.52)	13.68(2.1)	$0.66 \ (0.06)$	1.55(0.17)	2.11(0.16)	2.28(0.14)
ES	ES	$18.13 \ (0.77)$	9.4(1.15)	0.63(0.1)	1.96 (0.23)	2.88(0.21)	3.16 (0.24)

DOMSour	ceEnrichment	initialDOC	finalDOC	1	3	7	10
ES	CHLOR	16.26 (0.31)	8.73 (1.14)	0.73 (0.01)	1.67 (0.03)	2.63 (0.13)	3.11 (0.25)
CHLOR	CTRL	17.7(3.85)	6.81(2.13)	0.37(0.58)	2.06(0.79)	3.13(1.25)	3.36(1.43)
CHLOR	SRFA	18.89(5.99)	6.55(1.01)	$1.4 \ (0.07)$	3.06(0.13)	4.27(0.21)	4.67(0.25)
CHLOR	ES	16.2 (4.99)	4.03(0.6)	1.4(0.05)	3.93(0.17)	5.25(0.34)	5.64 (0.32)
CHLOR	CHLOR	15.34 (3.49)	$2.85 \ (0.08)$	1.6(0.07)	3.42(0.13)	5.14 (0.39)	5.78 (0.37)

 $\begin{tabular}{ll} \textbf{Table S3} \\ \end{tabular} Log accumulation rate \\ \end{tabular}$ 

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
DOMSource	2	15.381	7.691	342.127	0.000
Enrichment	2	0.532	0.266	11.824	0.000
Time_d	1	10.185	10.185	453.078	0.000
DOMSource:Enrichment	4	0.093	0.023	1.032	0.392
DOMSource:Time_d	2	2.633	1.316	58.556	0.000
Enrichment:Time_d	2	0.250	0.125	5.558	0.004
DOMSource:Enrichment:Time_d	4	0.031	0.008	0.350	0.844
Residuals	198	4.451	0.022	NA	NA

 ${\color{red} \text{Log total CO2 accumulation}}$ 

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
DOMSource	2	485.775	242.888	1593.015	0.000
Enrichment	2	8.384	4.192	27.493	0.000
Time_d	1	125.709	125.709	824.483	0.000
DOMSource:Enrichment	4	2.498	0.624	4.095	0.003
DOMSource:Time_d	2	68.780	34.390	225.551	0.000
Enrichment:Time_d	2	3.131	1.565	10.267	0.000
DOMSource:Enrichment:Time_d	4	0.610	0.153	1.000	0.408
Residuals	198	30.189	0.152	NA	NA

 $\begin{array}{l} \textbf{Table S4} \\ \textbf{Log biodegradability} \end{array}$ 

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
DOMSource	2	31.044	15.522	737.092	0.000
Enrichment	2	0.816	0.408	19.365	0.000
Time_d	1	3.085	3.085	146.493	0.000
DOMSource:Enrichment	4	0.031	0.008	0.368	0.831
DOMSource:Time_d	2	1.052	0.526	24.980	0.000
Enrichment:Time_d	2	0.174	0.087	4.132	0.017
DOMSource:Enrichment:Time_d	4	0.069	0.017	0.821	0.513
Residuals	198	4.170	0.021	NA	NA

 ${\rm Log}~{\rm C}~{\rm removal}$ 

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
DOMSource	2	49.072	24.536	1296.460	0.000
Enrichment	2	0.935	0.467	24.701	0.000
Time_d	1	2.587	2.587	136.682	0.000
DOMSource:Enrichment	4	0.047	0.012	0.618	0.650
DOMSource:Time_d	2	0.200	0.100	5.277	0.006
Enrichment:Time_d	2	0.151	0.075	3.977	0.020
DOMSource:Enrichment:Time_d	4	0.062	0.016	0.824	0.511
Residuals	198	3.747	0.019	NA	NA