

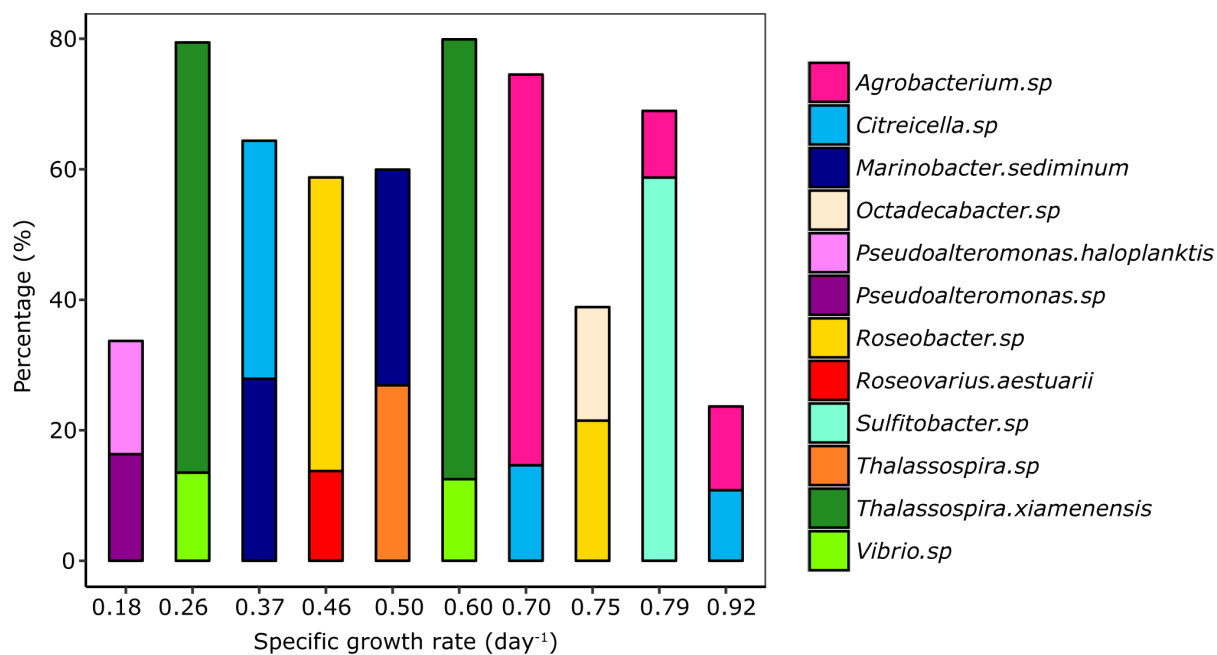
## **B<sub>12</sub> production by marine microbial communities and *Dinoroseobacter shibae* continuous cultures under different growth and respiration rates**

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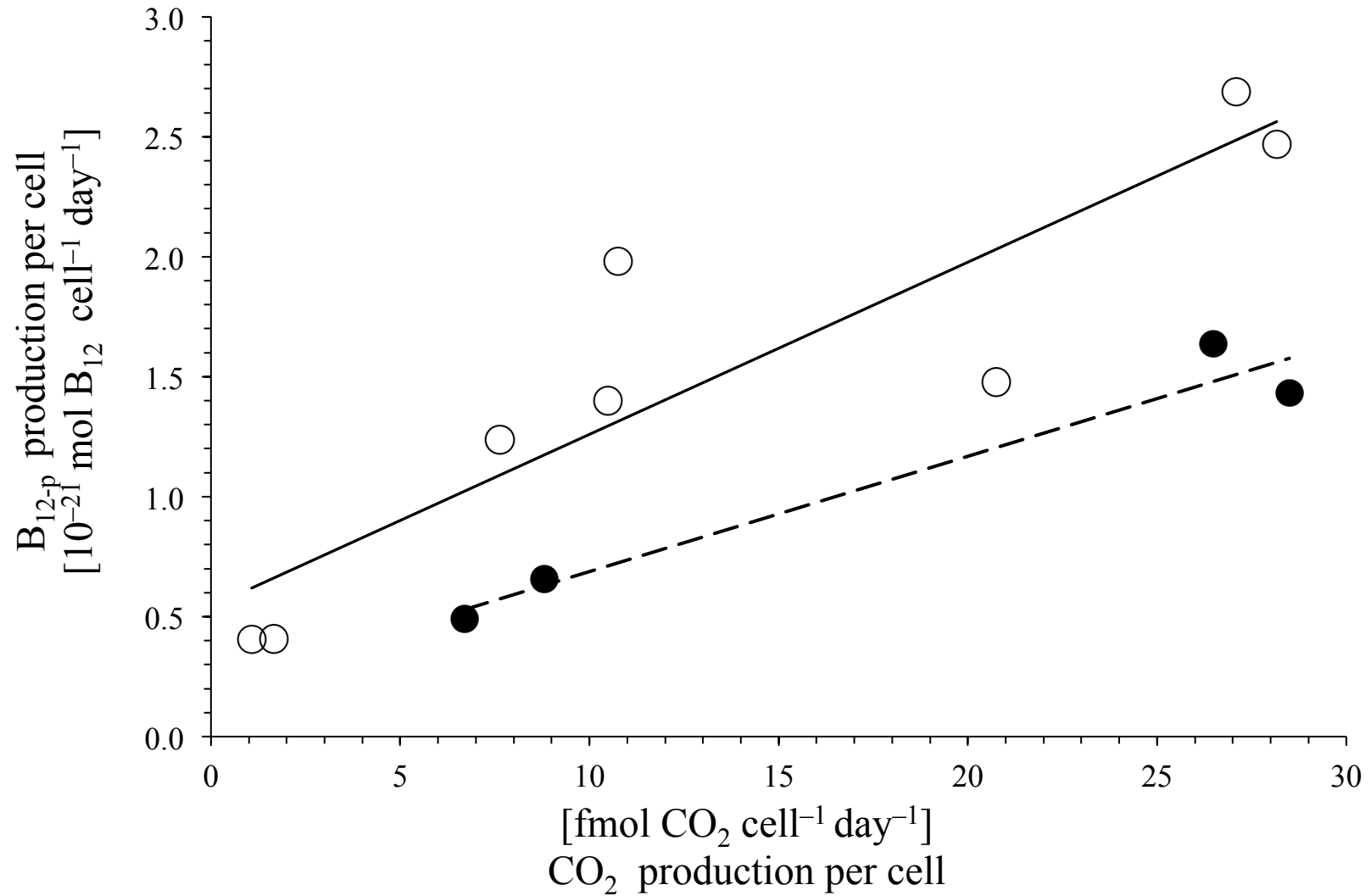
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### Supplement 1



**Figure S1.** Stacked bars are showing the percentage of abundance of the two dominant taxa in each specific growth rate. Only the two taxa growing at 0.18 day<sup>-1</sup> were not identified as probable B<sub>12</sub> producers.



**Figure S2.** Particulate B<sub>12</sub> (B<sub>12-p</sub>) production rates per cell versus respiration rates per cell. Multi-species cultures [circles] ( $\text{mol B}_{12-p} \text{ cell}^{-1} \text{ day}^{-1} = 0.07 \cdot 10^{-21} + 0.54 \cdot 10^{-21} \text{ mol CO}_2 \text{ cell}^{-1} \text{ day}^{-1}$ ;  $R^2 = 0.81$ ,  $n = 8$ ,  $p < 0.05$ ), and *D. shibae* cultures [filled circles] ( $\text{mol B}_{12-p} \text{ cell}^{-1} \text{ day}^{-1} = 0.05 \cdot 10^{-21} + 5.1 \cdot 10^{-21} \text{ mol CO}_2 \text{ cell}^{-1} \text{ day}^{-1}$ ;  $R^2 = 0.95$ ,  $n = 4$ ,  $p < 0.05$ ).

**Table S2.** Diversity, evenness, richness and specific growth rate.

<b>[H']</b>	<b>[J']</b>	<b>[S]</b>	<b>Day<sup>-1</sup></b>
2.21	0.52	68	0.37
2.15	0.53	58	0.50
1.70	0.43	51	0.70
3.26	0.66	141	0.92
3.25	0.70	102	0.18
1.47	0.36	58	0.26
1.42	0.35	57	0.60
2.28	0.51	91	0.46
2.77	0.63	82	0.75
1.85	0.42	77	0.79

Diversity ( $H'$ ) is the Shannon index; evenness ( $J'$ ) was computed with the Pielou index; richness ( $S$ ) was computed as the total number of OTUs.