Biogeosciences

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Supplement of

The calcitic test growth rate of *Spirillina vivipara* (Foraminifera)

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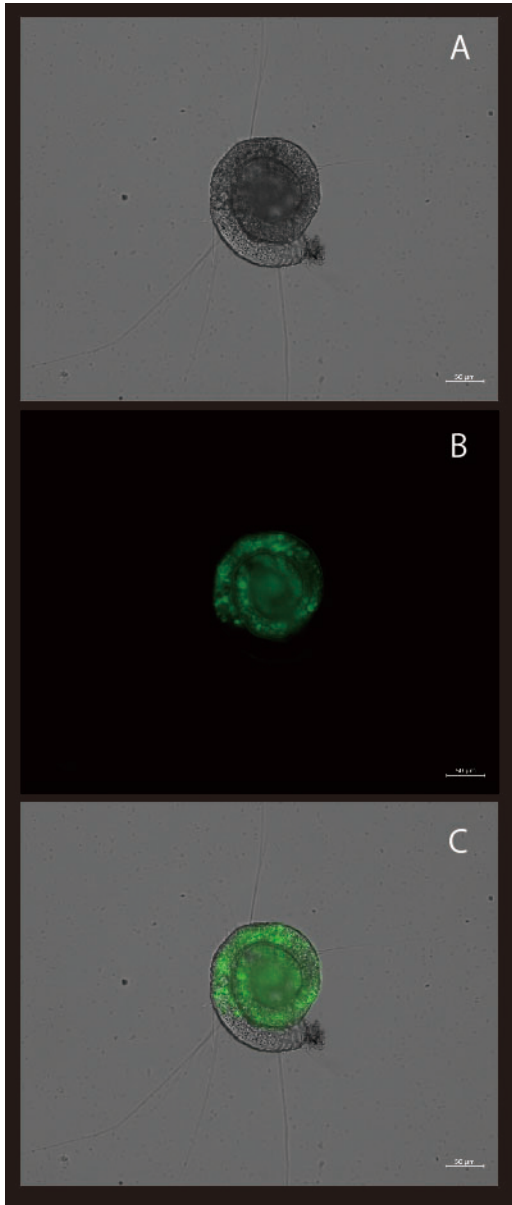*Correspondence to:* Yukiko Nagai (nagai.y@jamstec.go.jp)

Figure. s1: Results of Calcein staining conducted in the final 24 hours of a 72-hour fasting period for specimens not fed. (A) Image under Differential Interference Contrast (DIC) microscopy. Pseudopods can be observed. Although no food was provided, the organism appears normal behavior. (B) Image highlighting Calcein signal. (C) Overlay of images A and B. The absence of a Calcein signal in the shell indicates that shell formation did not occur due to the lack of feeding. As the specimen is alive, the cytoplasm has incorporated Calcein, making its signal detectable.

Supplementary Script S1

Code for Spearman's ordinal correlation coefficient test of Factoa A (i.e. maximum shell diameter) and Factor B (i.e. shell formation rate).

[code]
```
# Importing the required library
# scipy.stats is used for statistical functions
import scipy.stats as stats

# Defining the data
Factor A = [a1, a2, a3, …]
Factor B = [b1, b2, b3, …]

# Calculating Spearman's correlation coefficient and p-value
spearman_corr, p_value = stats.spearmanr(Factor A, Factor B)

# Printing the the correlation coefficient and the p-value
print("Spearman's correlation coefficient:", spearman_corr)
print("p-value:", p_value)
```