

Table S1: List and characteristics of the specimens selected for experiment #1 (incubation with $^{15}\text{NH}_4$), experiment #2 (incubation with $^{15}\text{NO}_3$), experiment #3 (feeding with ^{13}C - ^{15}N -*Artemia*) and as controls for NanoSIMS analysis. Juvenile (j) refers to specimens fixed for TEM with only a trochospiral test, adult (a) refers to specimens fixed for TEM that had produced a spherical final chamber.

Foram #	Experiment	Incubation time	Food particle when sampled	Life stage (juvenile / adult)		Remarks
				Beginning of the experiment	End of experiment	
126	Control	-		s	s	
142	Control	-		j	j	dead
166	Control	-		s	s	
124	Exp. 1	1 h		j	j	
144	Exp. 1	1 h		j	j	
167	Exp. 1	1 h	yes	s	s	
130	Exp. 1	6 h	yes	s	s	
137	Exp. 1	6 h		s	s	
157	Exp. 1	6 h		j	j	
127	Exp. 1	12 h		s	s	
131	Exp. 1	12 h		s	s	
155	Exp. 1	12 h		s	s	
123	Exp. 1	18 h		s	s	
145	Exp. 1	18 h		j	j	
158	Exp. 1	18 h	yes	j	j	
122	Exp. 2	1 h		s	s	
146	Exp. 2	1 h		j	j	
163	Exp. 2	1 h	yes	s	s	
128	Exp. 2	6 h	yes	s	s	
134	Exp. 2	6 h		s	s	
168	Exp. 2	6 h	yes	j	j	
125	Exp. 2	12 h		s	s	
129	Exp. 2	12 h	yes	j	j	dead
154	Exp. 2	12 h		j	j	
133	Exp. 2	18 h		s	s	
152	Exp. 2	18 h	yes	j	j	
164	Exp. 2	18 h		j	j	
132	Exp. 3	8 h		j	j	dead
153	Exp. 3	8 h		j	j	After 3h: no food particle visible
165	Exp. 3	8 h		j	j	After 3h: food particle still attached to the foram