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S. Microadriaticum

Stock	All are spinning actively.
F2 10 mL	half are spinning, half not moving.
F2 25 mL	Some dead. Majority are spinning in circles.
F2 75 mL	Some dead. Majority are spinning in circles.
ASP-8A 10 mL	two are spinning.
ASP-8A 25 mL	one is spinning.
ASP-8A 75 mL	two are spinning slowly.
L1 10 mL	two are spinning.
L1 25 mL	Three are spinning, two are swimming. Symbiodinium do not all have the same shape. Some have that dumbbell shape while others have 3 sections to them.
L1 75 mL	all are spinning or swimming.
L1 + F2 10 mL	three are spinning.
L1 + F2 25 mL	all are swimming.
L1 + F2 75 mL	one is swimming, one is spinning.

\* S. Microadriaticum tend to die in clumps. Why? Is it sending out signaling molecules to warn others the medium is not efficient? Is it natural selection where they send toxins before they die to get the Symbiodinium with better survival genes to thrive? Do they die and just bump and stick together?

D. Tertiolecta

Stock	all are moving actively.
F2 10 mL	all are moving actively.
F2 25 mL	some are swimming, some dead.
F2 75 mL	all are swimming.
ASP-8A 10 mL	Most are shaking, some are swimming, few are dead.
ASP-8A 25 mL	some are shaking, some are swimming. all

	alive.
ASP-8A 75 ml	Most are shaking or none moving. Some are swimming.

### O. Marina

Stock	All are swimming.
F2 10 mL	All are swimming.
F2 25 mL	All are swimming.
F2 75 mL	Some are swimming, Many dead.
ASP-8A 10 mL	all are swimming.
ASP-8A 25 mL	Compared to the 75 mL ASP-8A O.marina solution, this solution did have an overgrowth of dunaliella, but the dunaliella have mostly died and there is a higher concentration of O. marina. The O. marina look bigger and much blacker than the O. marina in the ASP-8A 75 mL.
ASP-8A 75 ml	They are all moving. Few O. marina looks like attacking by D. tertiolecta. Baby O. marina look similar to d. tert.

\* O marina could be bursting open due to stress or overeating. It could be tiny O. marina eating the larger O. marina but we need 40x to observe at a closer view. O. marina could be sending signals to dunaliella to eat it (suicide switch).

\* Never seen a dead O. marina. Do they always burst open when they die?

all of these photos (from 46-74) and videos are saved in  
C:\Users\Biouser\Documents\Motic\MoticPlus\Capture  
(on the left computer in the middle room.)