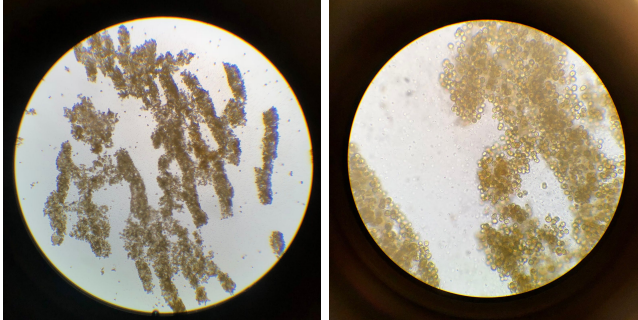
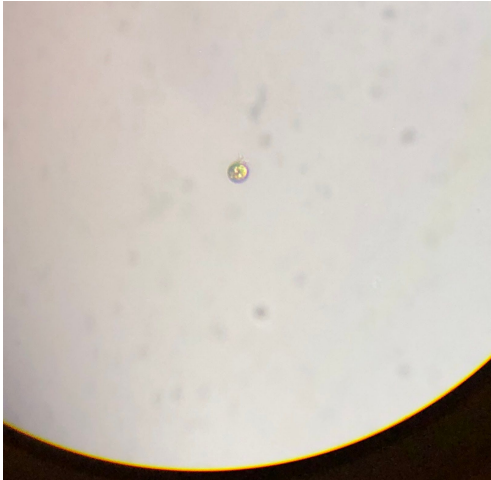

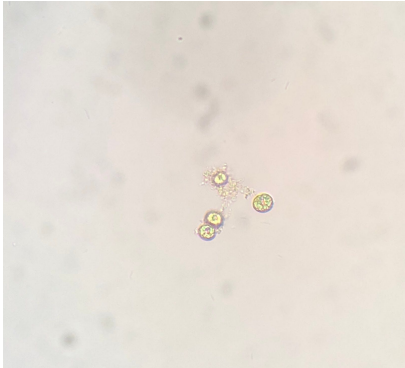




Name: Kennex Lam

Date: 7/15/19

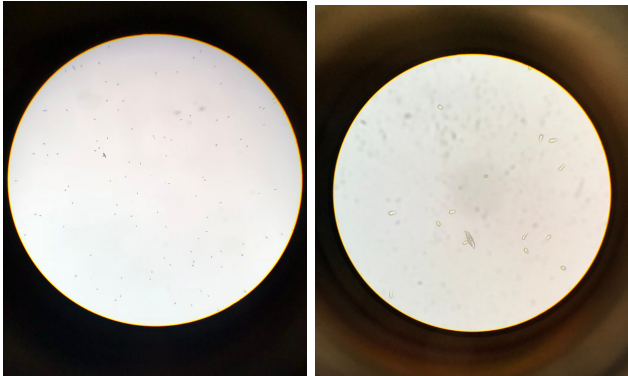
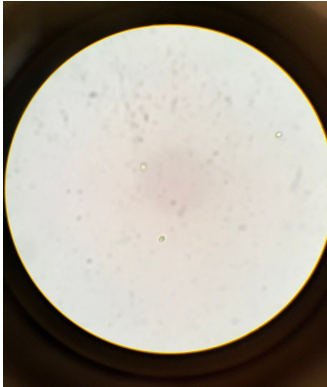
S. Microadriaticum


<p>Stock</p> 	<p>Majority are dead and clumped together, but there are still some swirling in circles.</p>
<p>F2 10 mL</p> 	<p>A few were swimming normally. Majority are alive and spinning around.</p>
<p>F2 25 mL</p>	<p>Low concentration compared to the F2 10 mL. Some were dead while some were spinning.</p>
<p>F2 75 mL</p> 	<p>There is a higher concentration of S. microadriaticum compared to the 25 mL F2. I have been seeing this green filmy thing surrounding the non-moving clumped Symbiodinium.</p>

ASP-8A 10 mL	Not as much concentration as the F2 10 mL. Most are spinning in place while a few are dead.
ASP-8A 25 mL	Most are moving and spinning. A few were swimming. Some were in a "vegetative state" while one was flipping swimming.
ASP-8A 75 mL	Most are non-moving. Could be vegetative state or fusion state. Rest are spinning.
L1 10 mL	Low concentration compared the previous 10 mL. All spinning. One was slowly swimming.
L1 25 mL	A couple were slowly swimming normally. Rest were spinning.
L1 75 mL 	Most were non-moving but few were swimming. The one farthest to the right appears to be in the doublet state (dividing cell).
L1 + F2 10 mL 	Half are dead and the other half are spinning. This one may be in a vegetative state as the algae is still green due to the chloroplast, so the dead ones may be brown.
L1 + F2 25 mL	About half were swimming (zig-zag, slowly, or loop) and the other half were spinning. This one had a more elongated shape compared to any other Symbiodinium seen, so it may have been in the middle


	of division.
L1 + F2 75 mL	A splash of non-moving, swimming, and spinning.
ASP-8A with SW 10 mL	Nothing was seen.
ASP-8A with SW 25 mL	Nothing was seen.
ASP-8A with SW 75 mL	None of them were moving.

D. Tertiolecta

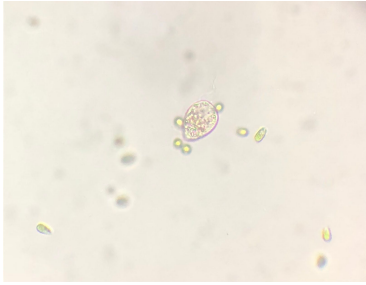
<p>Stock</p> 	<p>$\frac{1}{3}$ are shaking in place. $\frac{2}{3}$ are swimming.</p>
<p>ASP-8A 75 mL</p> 	<p>All swimming.</p>
<p>ASP-8A with SW 10 mL</p>	<p>Most are swimming. Culture is visibly</p>

	light green.
ASP-8A with SW 25 mL	A higher concentration than the 10 mL volume.
ASP-8A with SW 75 ml 	All moving. High concentration grew in just two days.

O. Marina

Stock	The swimming O. marina have a conch shell shape while the immobile tend to be rounder.
F2 10 mL	A higher concentration collected than stock. All swimming.
F2 25 mL	All swimming.
F2 75 mL 	All swimming. Oxyrrhis marina are light green compared to the ASP-8A solutions. In the photo is a collection of what looks like their organelles, and there were about 3 clumps of these found. A marina was swimming by a the bottom of the photo.
ASP-8A 10 mL	The O. marina are darker than the ones in the F2 10 mL solution.
ASP-8A 25 mL	Swimming.

ASP-8A 75 ml



Baby *O. marinas* are light green and swimming fast. *D. tertiolecta* remain overgrown. You can see the flagella on this one.