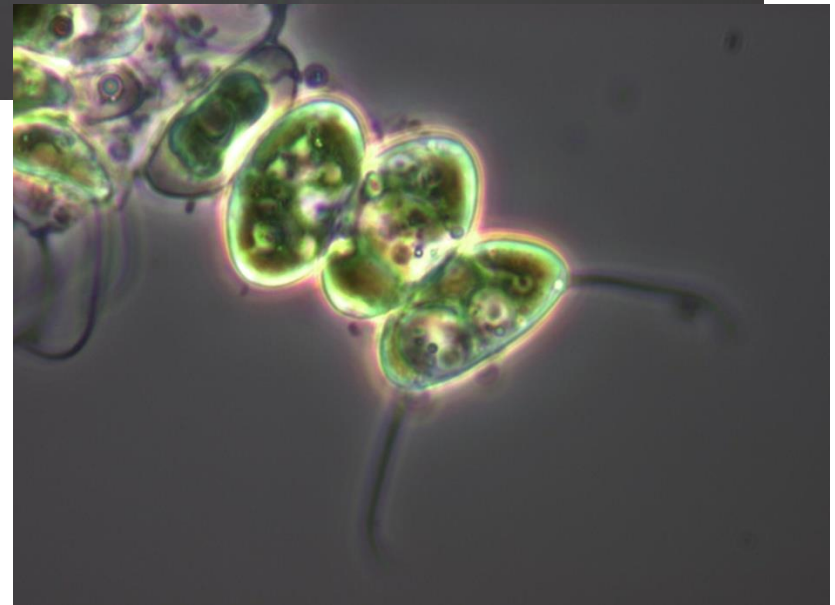
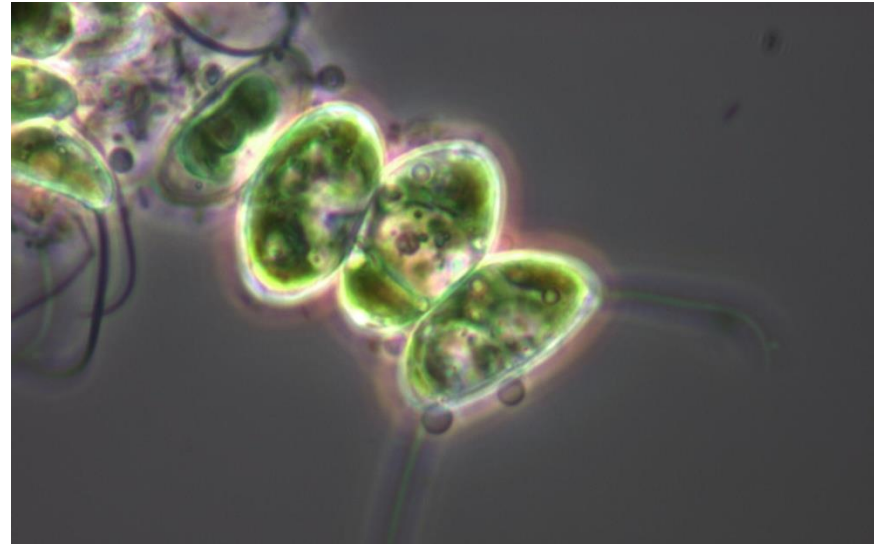


# Preliminary TEM Investigation of FD104 (Pearl) parasitizing SEO107



# FD104

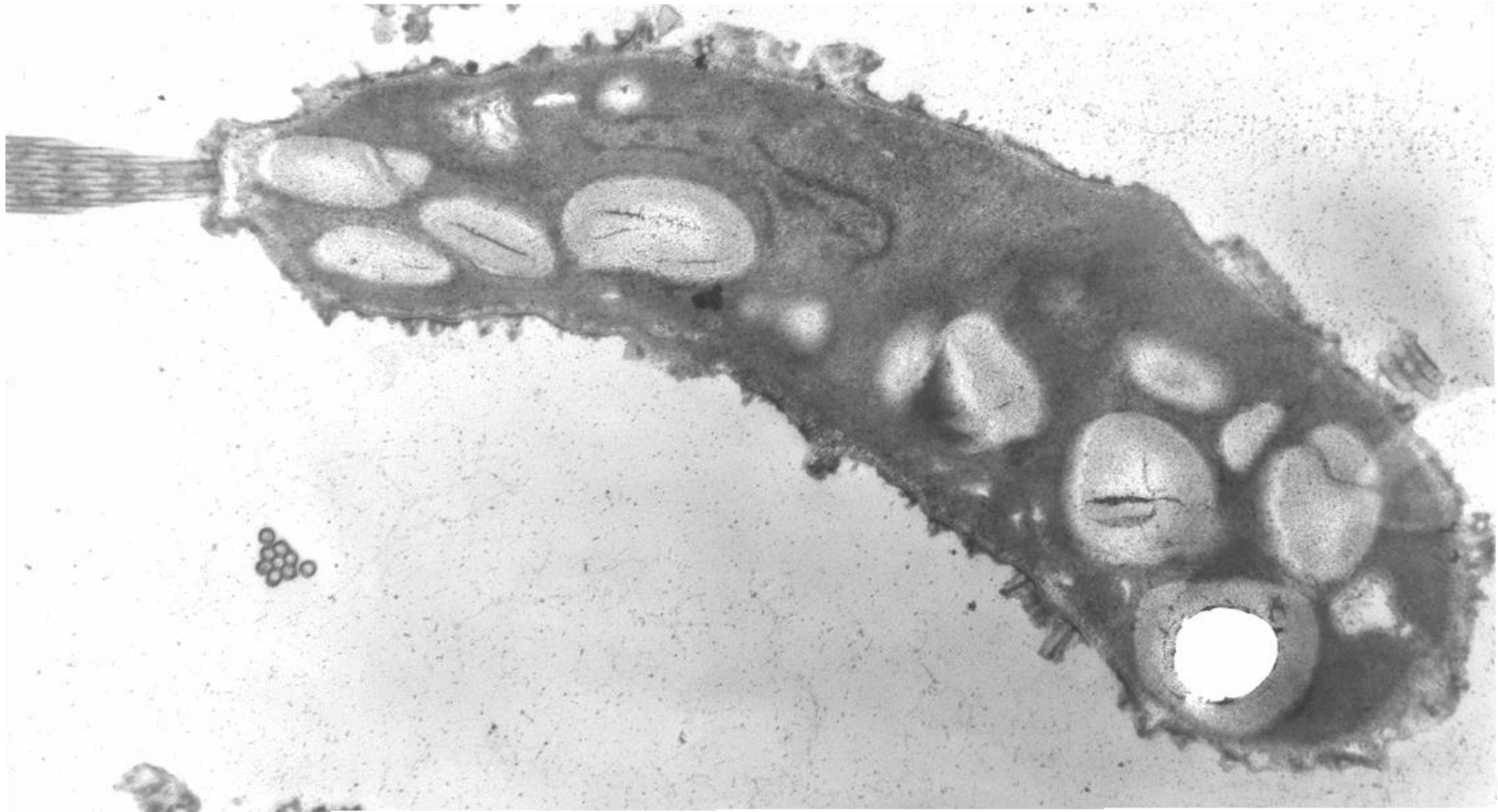
Sal- All of the following have come from FD104-1;  
FD104-2/FD104-3 did not yield as much info;  
I did not fix FD104-4 – FD104-6, being “filthy” with  
a lot of other organisms.

The first week of the sequential fix of infection of  
FD104 (days 2-8, 14, 21, 28) is completed,  
going into the oven today, ready for  
observations by Monday next week.

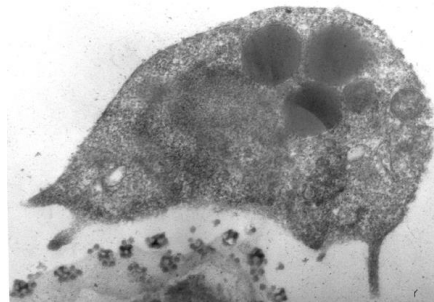
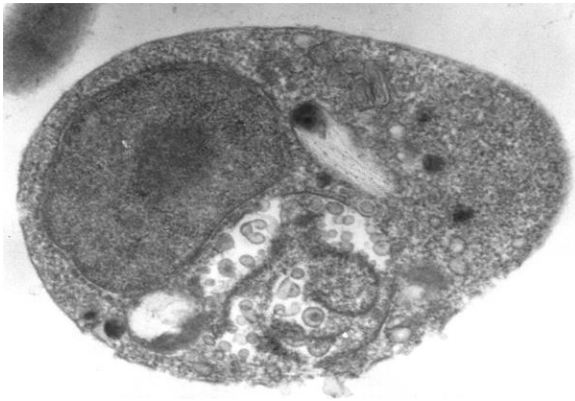
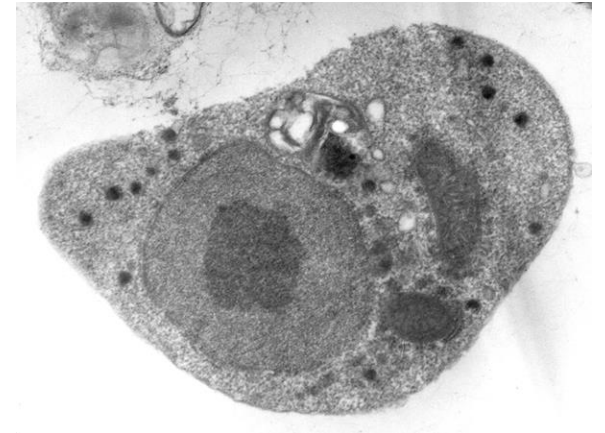
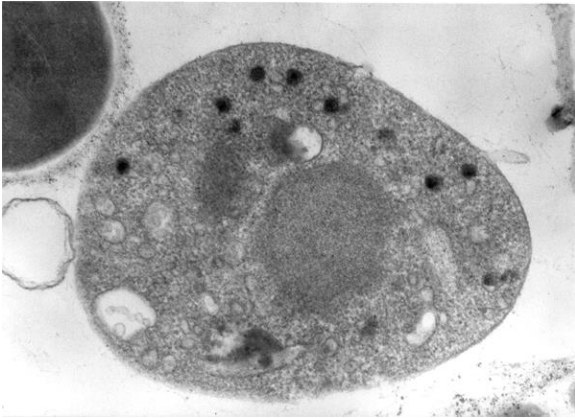
# FD104

- This preliminary investigation confirms Sal's observations via LM. Good work, Sal.

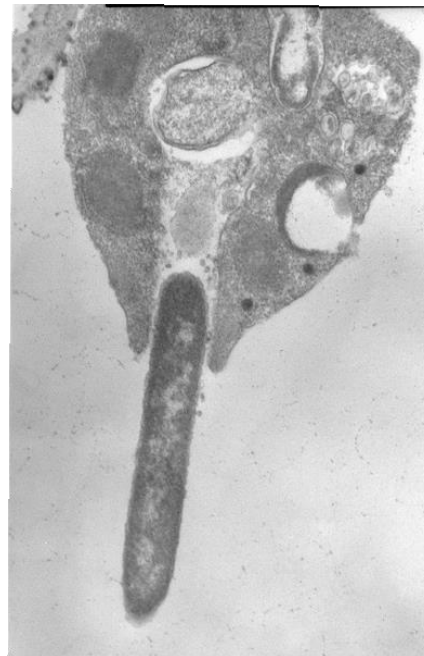
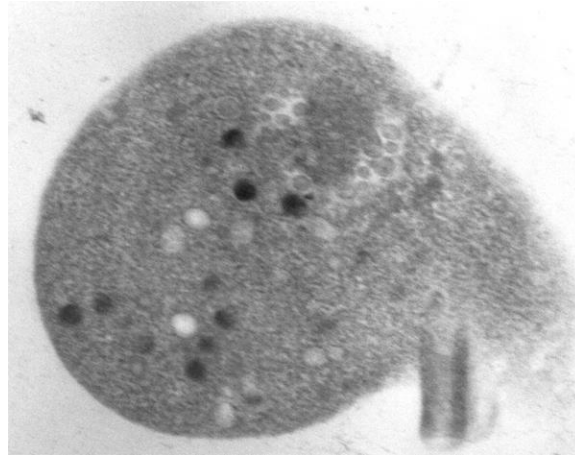
# Healthy FD104



# Amoeboid aplanospores



I don't know, yet.....

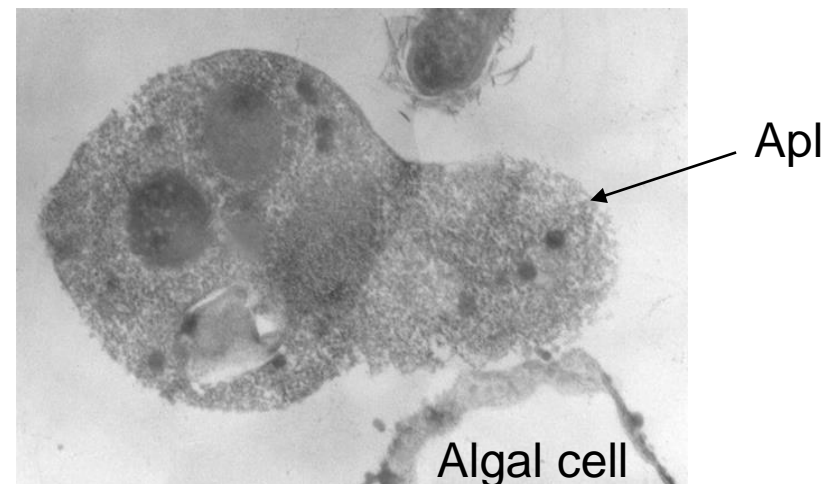
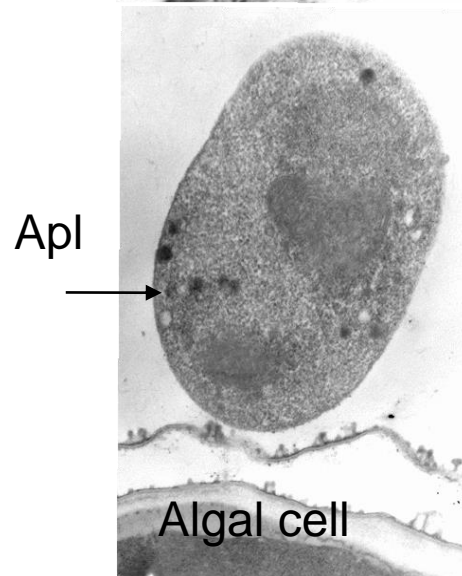
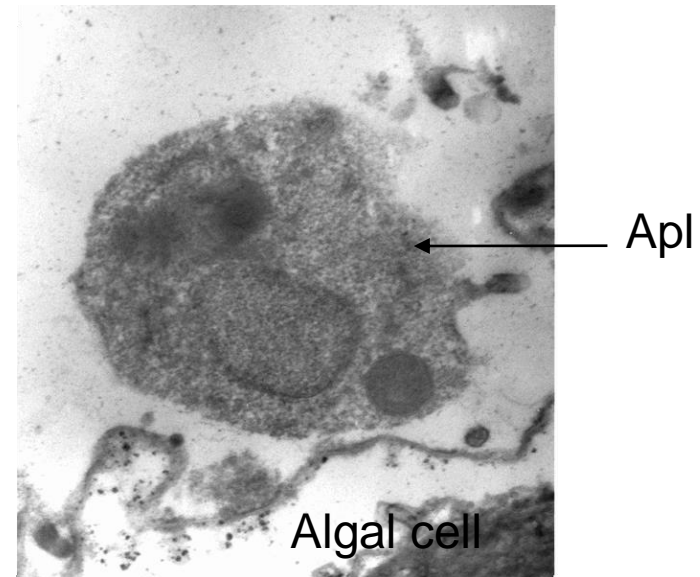
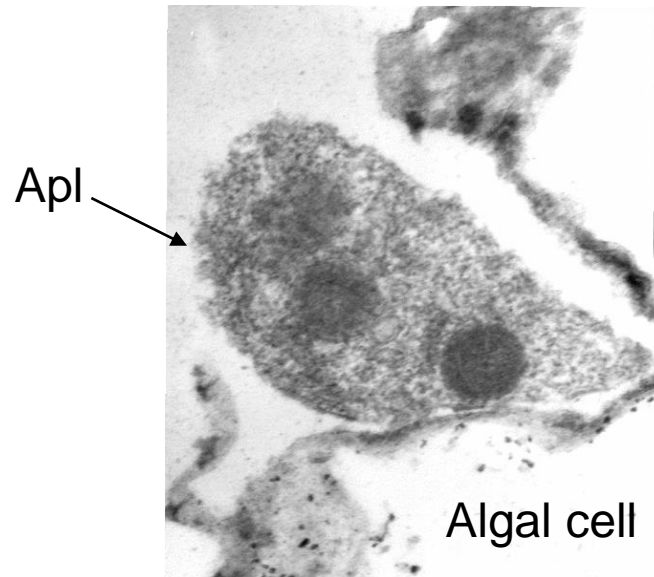


# I don't know, yet

I don't know what the prominent, rod-like structure is, but I don't think it is the amoeboid cyst feasting on a bacterium;

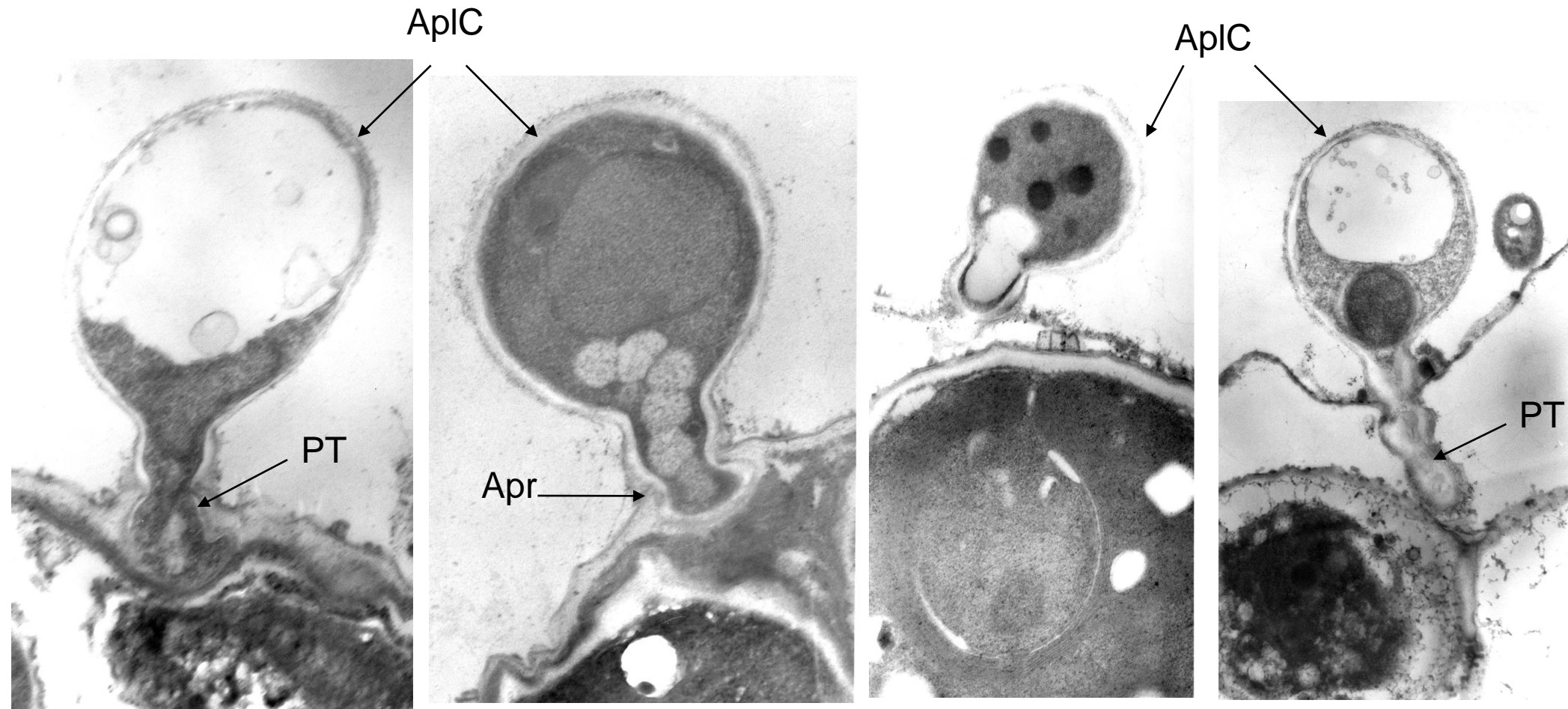
It may be a bold appendage or rudder-like structure. Hope to see more of this in early infection stages next week.

# Aplanospores “docking” with alga



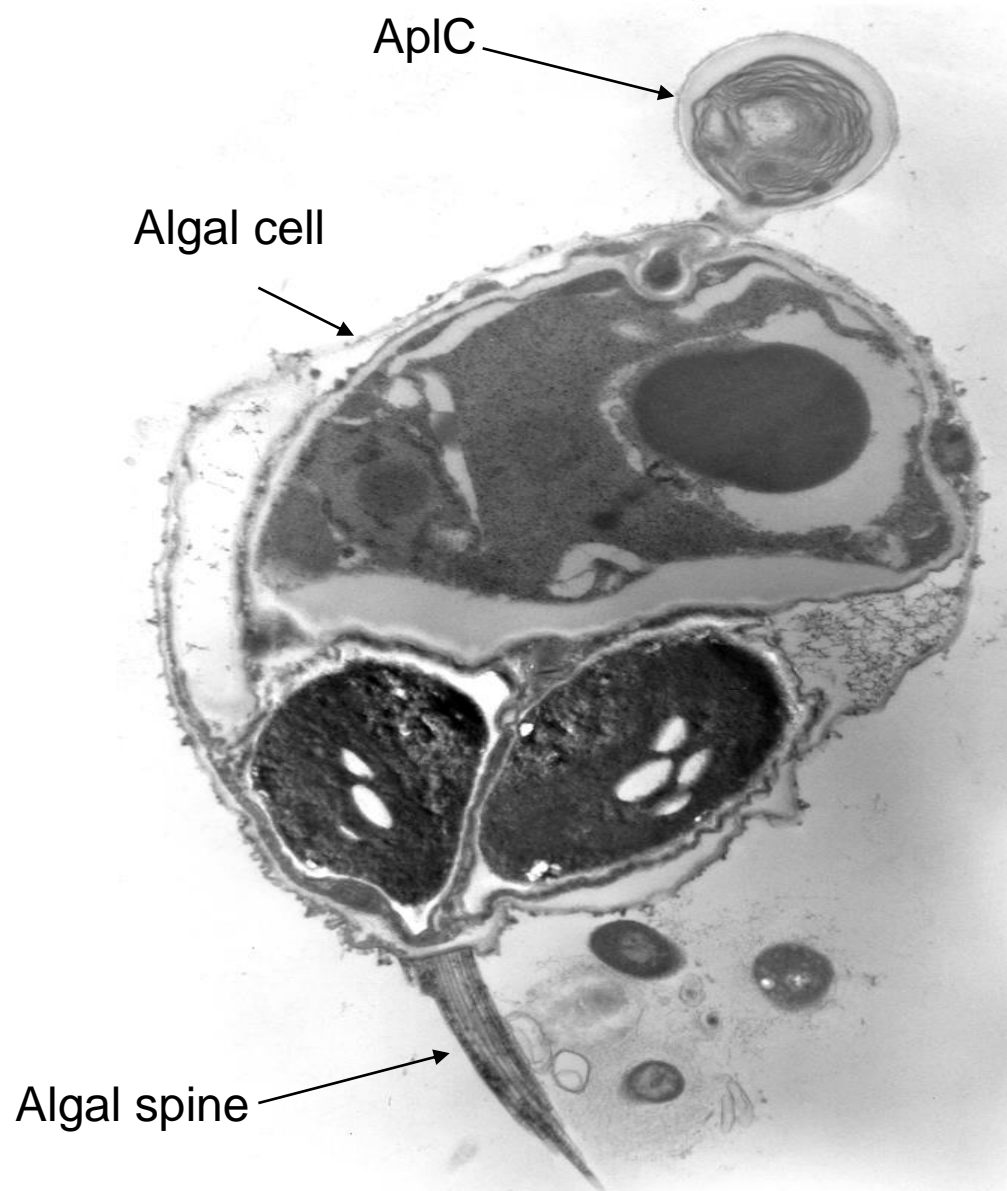


# Encysted aplanospores: look familiar?

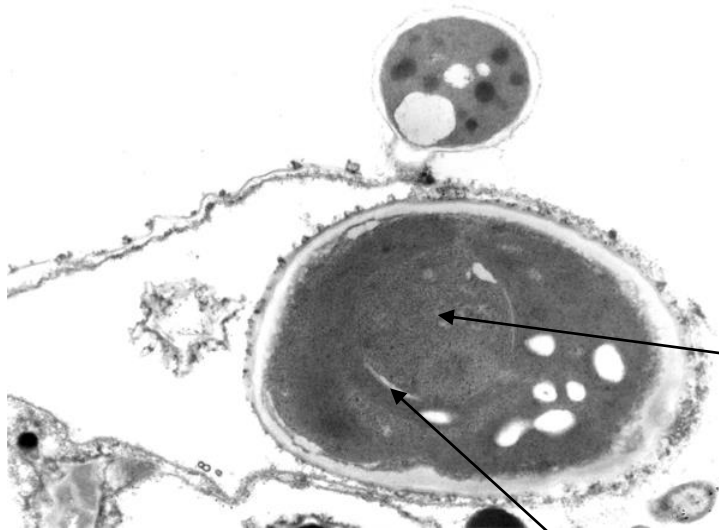


AplC, Aplanospore cyst; PT, penetration tube; Apr, Appressorium

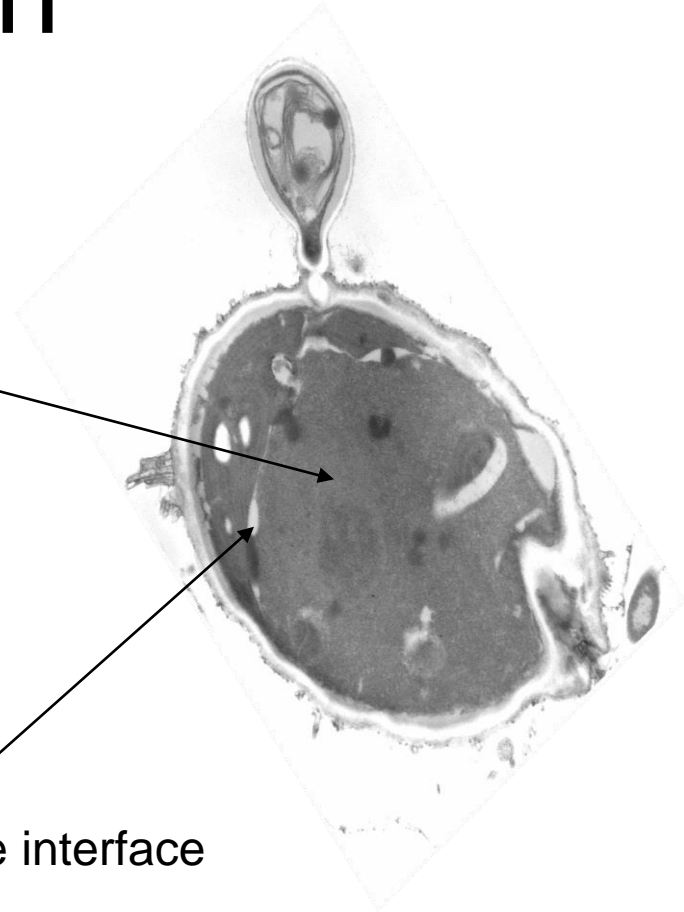
# Infection



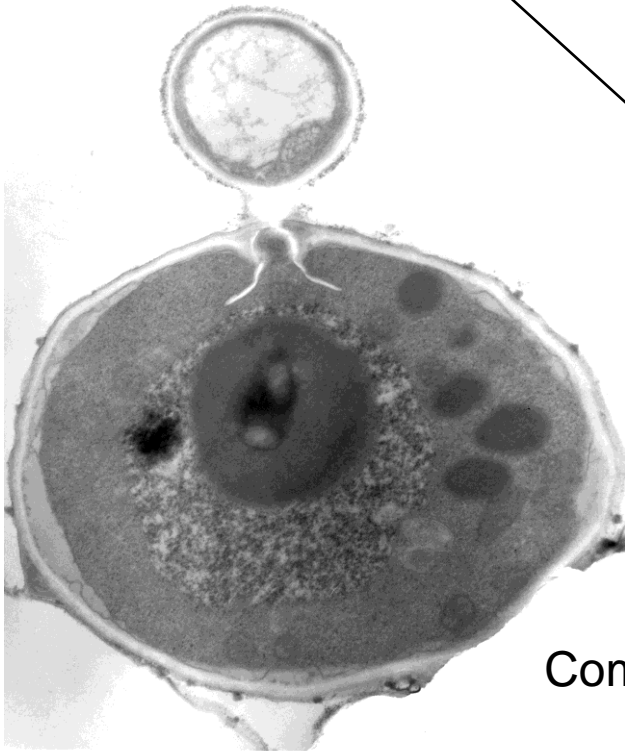
# Infection



Parasite  
protoplast



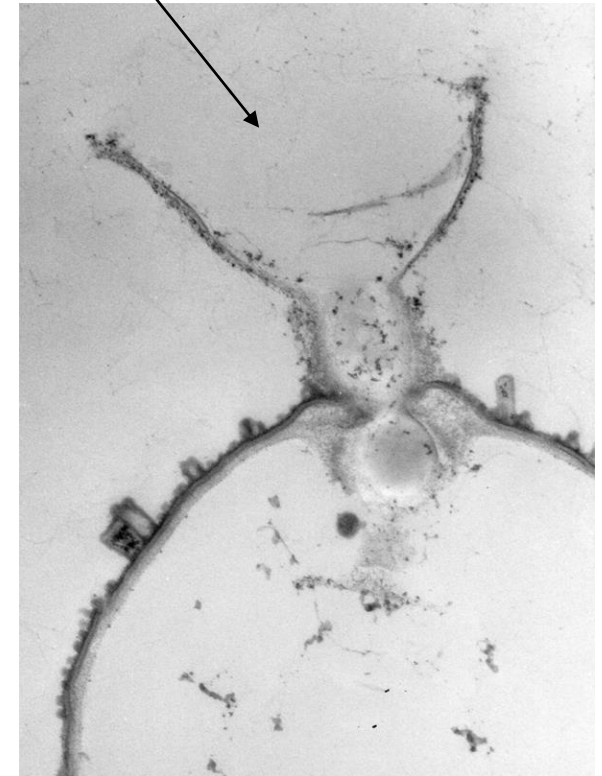
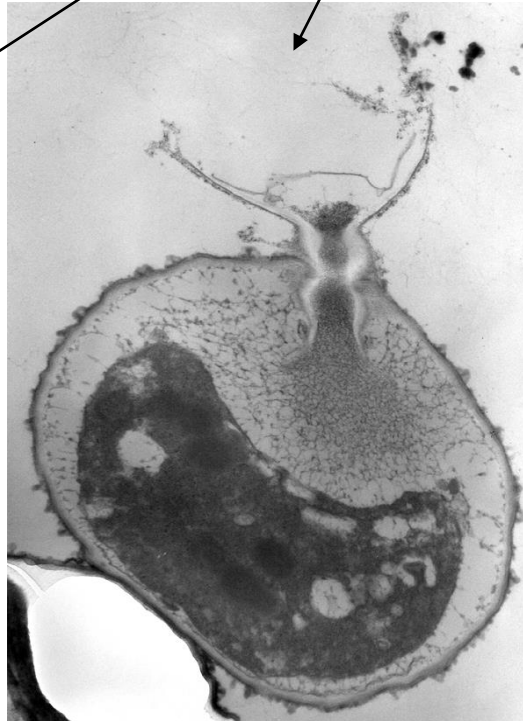
Host/parasite interface  
evident



Complete infection

# Late infection

Apical ½ of ApIC wall breaks down



# Preliminary assessment

This parasite is not FD01 *Amoeboaphelidium protococcarum*;

I do not think FD104 is *Aphelidium* (propagates via uniflagellate zoospores);

I do not think FD104 is *Pseudaphelidium* (propagates via zoospores and amoebae).

No indication of flagellated zoospores thus far.

# Preliminary assessment

This parasite appears to have a life history similar to that of *A. protococcarum*, which may indicate that similar remedies are applicable.

This may be a typical Cryptomycota life cycle (FD01, Rozella, FD104), if indeed this parasite is genetically a member of Cryptomycota