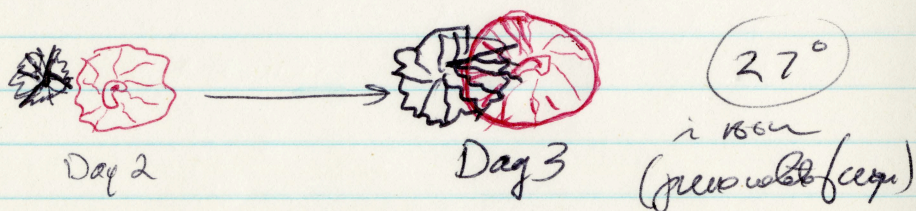


11-21-84 - Wed. (New observation)

Beginning of this week, while working on 3-day yolk sac vessels in order to improve the angiogenesis inhibitor assay for steroid frequency (i.e., lower mortality, less background, less blocky), one of the eggs was contaminated by a fungus that at first grew next to the advancing yolk sac vessels $\rightarrow$ and by 3 day overlapped it but no effect on vessels. Heart + circulation continued



I had seen previous fungal infections that had

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thrombosed, hemorrhaged or inhibited
growing yolk vessels, or killed egg,
and I assumed that probably all
of these fungi caused non-specific
toxicity.

However, since this one fungus
had absolutely no effect on
the chick embryos, why not
ask: "Is there a fungus that
excretes an Angiogenesis Inhibitor,
or something that necroses only
growing capillaries - like a tumor
necrosis factor?"

(? Actinomyces
Streptomyces

2. I will try for a few
months to see whether
there is a feasible assay.

3. The 3 day chick embryo,
immediately detects:

- (i) Is a fungus toxic to whole embryo or to heart?
- (ii) Does it cause neurotoxicity?
- (iii) Does it cause stasis?
- (iv) Does it inhibit angiogenesis?

4. Strategy:

- (A) Try a few different fungi.
- (B) Take color photos, of Dishes (Flash).
- (C) Identify fungus (CHMC Bact.)
- (D) Find expert mycologist who might want to collaborate
- (E) Try to write at least the first paper.

TO DO
(F) also ask Bact (what Fungus they have) or Order some