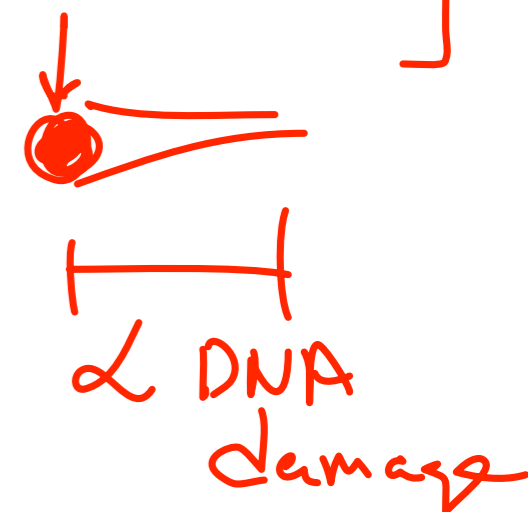


# M2D7: HTS & Analysis

- The robot is a go -- 2 groups (W, R, O, Y, G) --> (B, Pu, Pl, Pi)

- [Work on densitometry & viability analysis using Matlab/Excel].

★ Ian Tay — HTS DNA damage  
in comet assay



# CellTiter-Glo Assay

Very popular: easy, fast, **sensitive**

→ Promega ~10 min  
~20 min

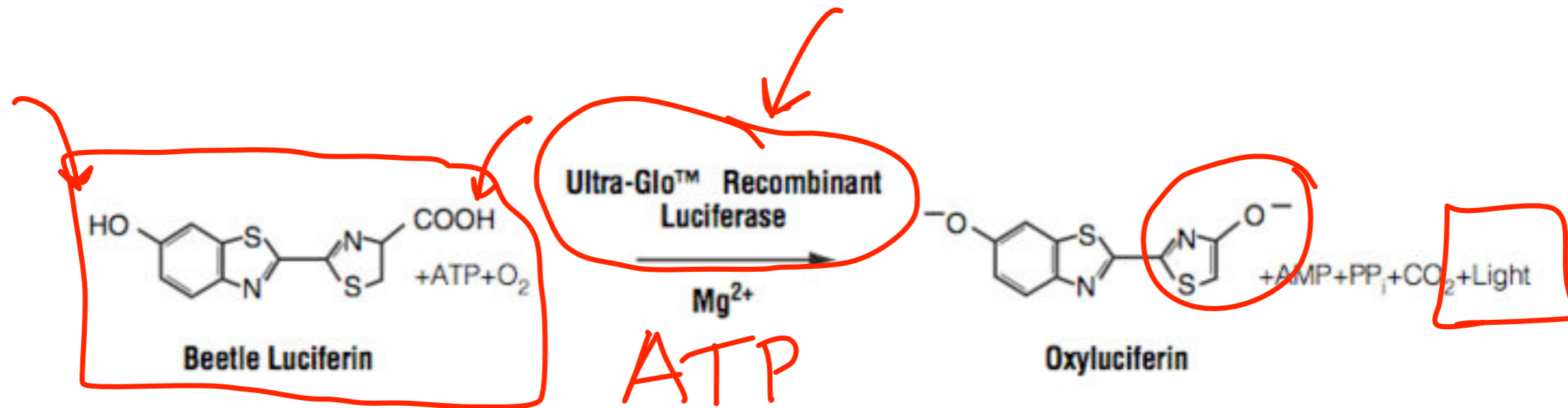
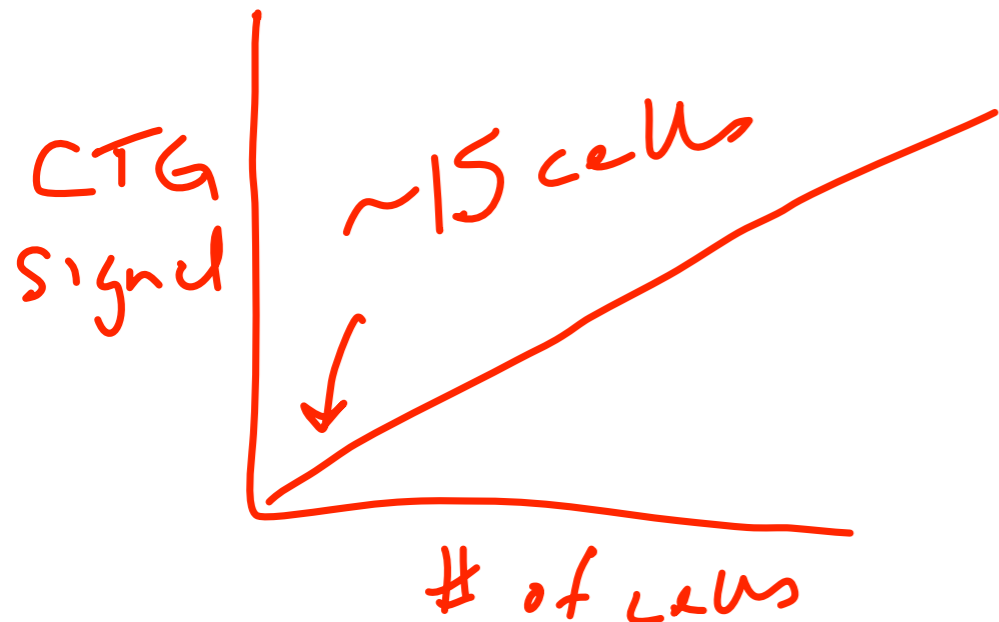


Figure 3. The luciferase reaction. Mono-oxygenation of luciferin is catalyzed by luciferase in the presence of Mg<sup>2+</sup>, ATP and molecular oxygen.



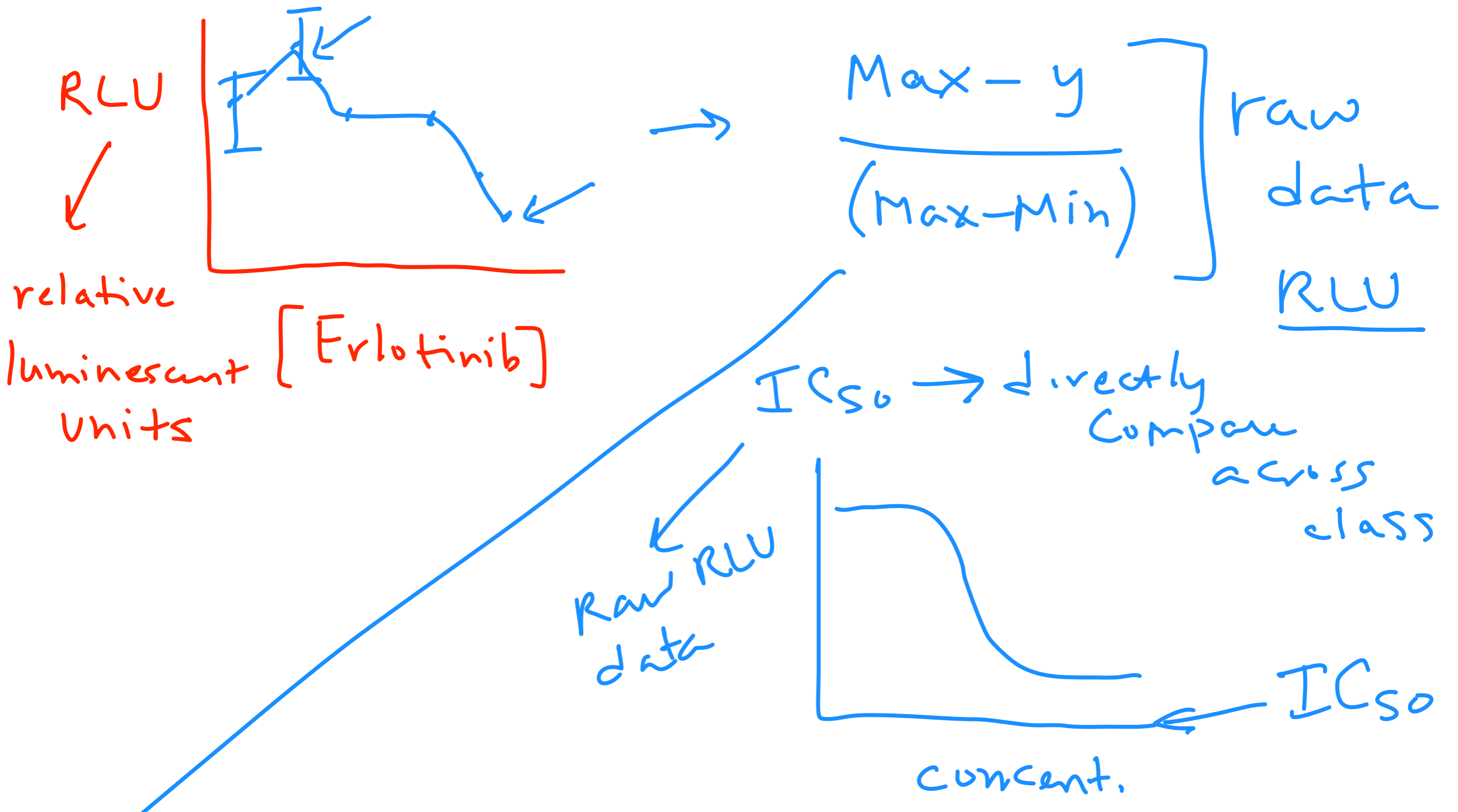
TC  
plates

# CellTiter-Glo Assay

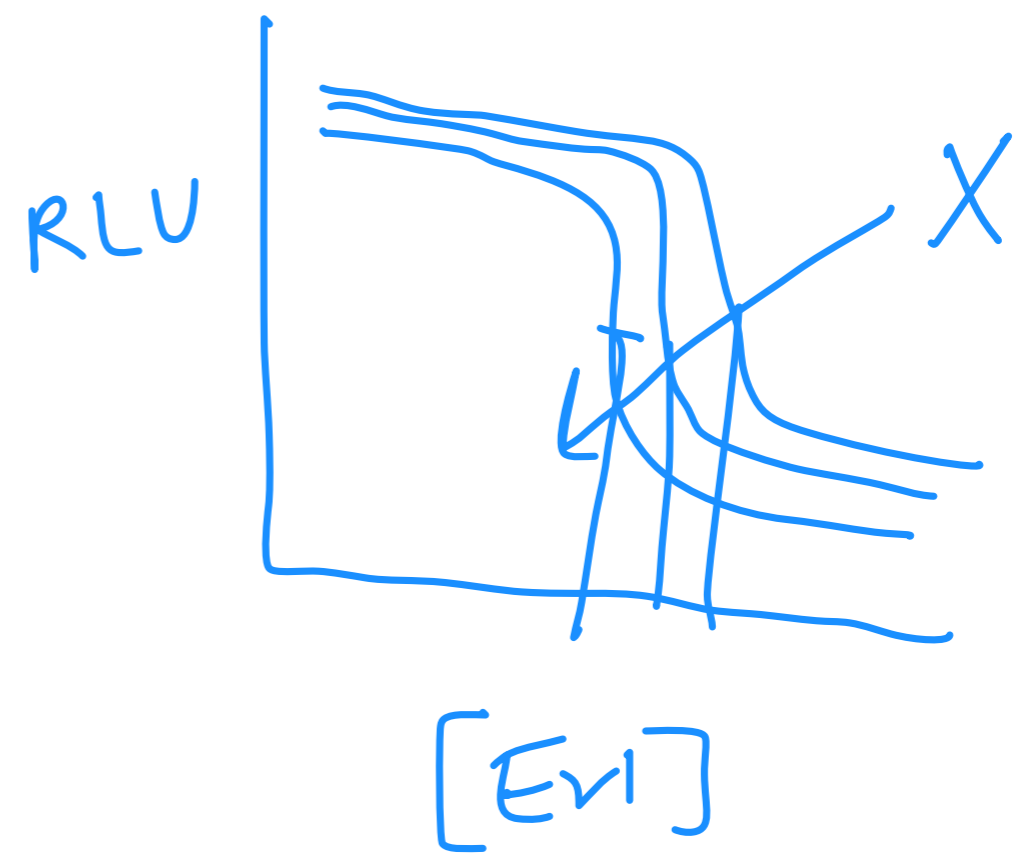
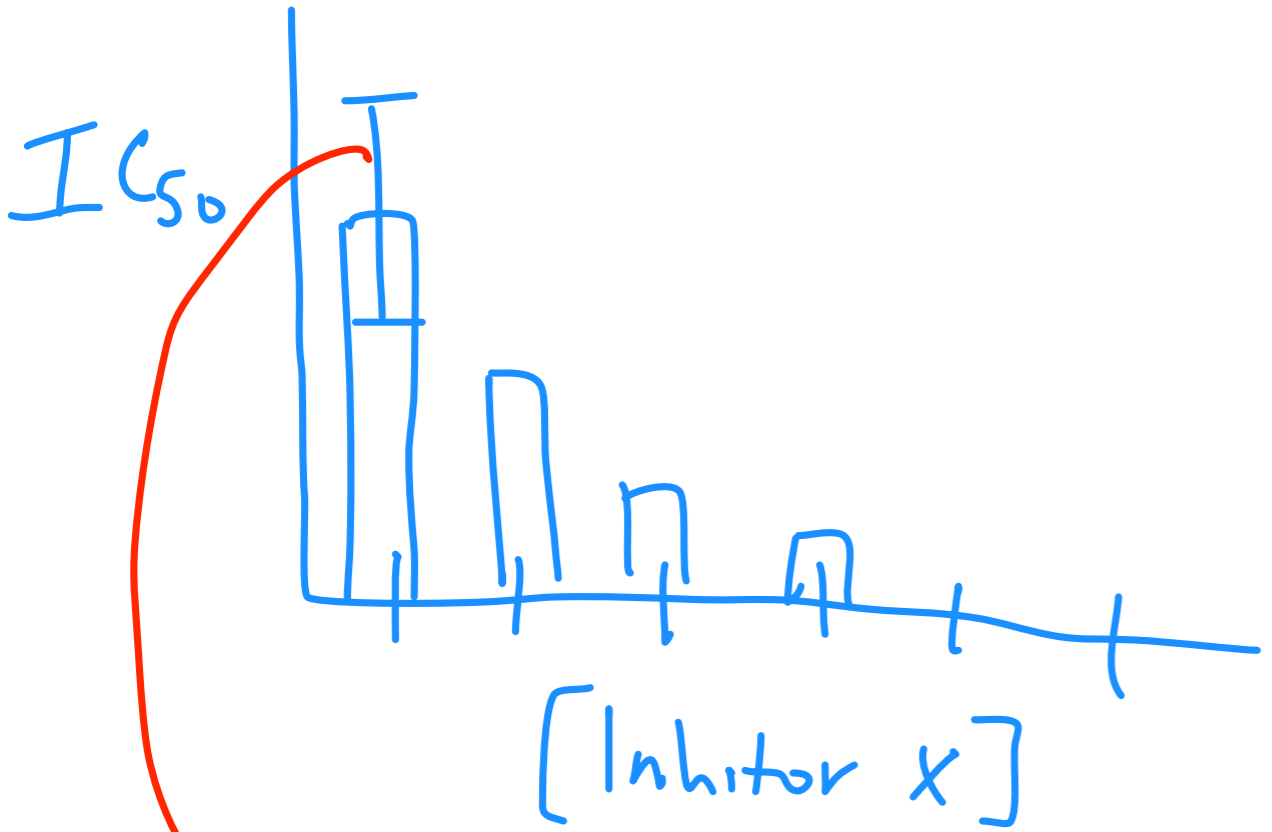


# How can you visualize the data?

Some representation of error is required (somewhere).



# What are the interesting comparisons?



→ 2 options.

(1) your own data. CI of non-linear fit

(2) your data + others. error of mean


$$AVIC_{50} = \frac{IC_{50_1} + IC_{50_2} + \dots + IC_{50_n}}{n}$$

# Schedule / Announcements

- M2D6 FNT due on Sunday, **Nov 3rd** at 5pm to Stellar
- Normal OH Monday: 2-3pm, 7-8pm. Available by email outside of OH -- the Methods and Schematics will be ready to go then (*potentially earlier*) .
- JC next Tuesday (same time/place/fun! as before)
- No lab next Thursday (11/7) -- but lab will be open from **2-5pm** to analyze data, talk about interpretation, hang out.
- Planning ahead: OH Sunday, Nov 10th with Butterstick
- Module 2 Paper due on Monday, 11/11 at 5pm to Stellar





A small, fluffy white dog, possibly a Maltese or similar breed, is sitting on a dark, possibly black, surface. The dog has long, wispy white fur and dark eyes. It is wearing a dark collar with a small tag. The background is a brick wall. A pink speech bubble is positioned to the right of the dog, containing white text.

I woof like to  
help you with  
your Mod2  
paper.