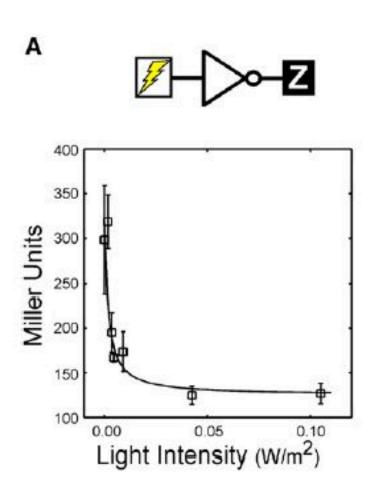
- Announcements
- Lab Quiz
- Pre-lab Lecture
  - Transfer functions
  - Sequencing
  - Today in Lab: M2D6

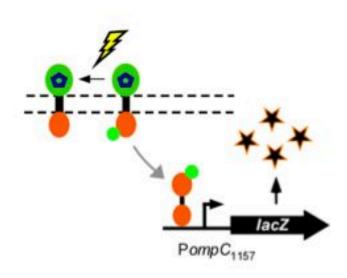
#### **Announcements**

- OH Monday 4-5 pm useful?
- General comments about HW (see also written comments please).
  - methods key words are complete and concise
  - understand full edge detector vs. transfer functions that isolate part of the system
- Long FNT
  - journal articles as models for what goes in paper

# Transfer function example



$$f_{\text{light}} = \frac{K}{K + L} (\beta_{\text{max}} - \beta_{\text{min}}) + \beta_{\text{min}}$$



JJ Tabor, et al. Cell 137:1272

### Sequencing reactions

Dideoxy method: no 3' OH → can't elongate different floorphotes
Run 4 rxns: (d)dT, dA, dG, dC and 3 others

Reactions ₩T  → TAAATTT		<b>Gel</b> ddT	ddA
AT*	A*	₩.	- 75p
ATT*	ATTTA*		$\stackrel{\sim}{\sim}$
ATTT*	ATTTAA*		
	ATTTAAA*		1b/

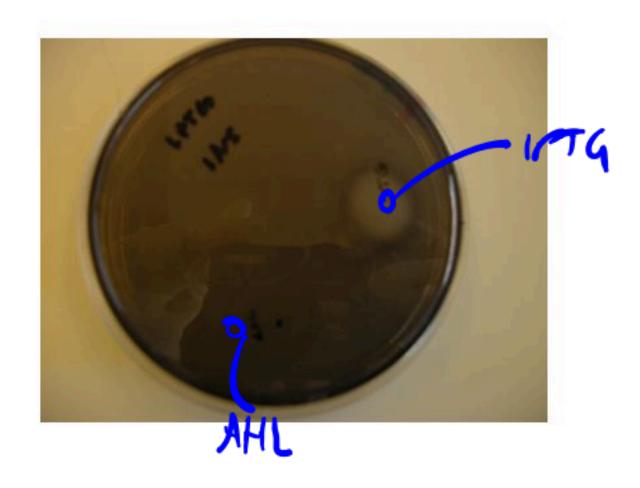
<sup>\* =</sup> radioactive or fluorescent label

# Colony counts

Group Colour	(-) control	+ control plasmid	bkb + ligase	bkb + insert + ligase
Hypothetical Data	0	100	3	30
Red	0	3000	1	75
Orange	0	384	0	0
Yellow	5	260	0	6
Green	0	153	0	2
Purple	0	2800	1	71
Red	0	400	0	o
Orange	0	1300	5	125
Yellow	0	400	0	5
Green	0	298	43	215
Blue	0	2	63	264
Pink	0	347	0	2
Purple	0	437	16	32

What is the role of the (+) control on D4 vs. D5?

# IPTG-sensitive system in solid culture



# Today in Lab (M2D6)

- EHS Biosafety lecture
  - Prepare for mammalian tissue culture in Mod 3
- Sequencing analysis → pick a clone
- Prepare liquid culture truth table assay
  - new (duplicate) and original (single or duplicate) system
- Prepare solid culture truth table assay
- Post colony counts again today