M2DI: Introduction to cell culture

-stellar

talk move

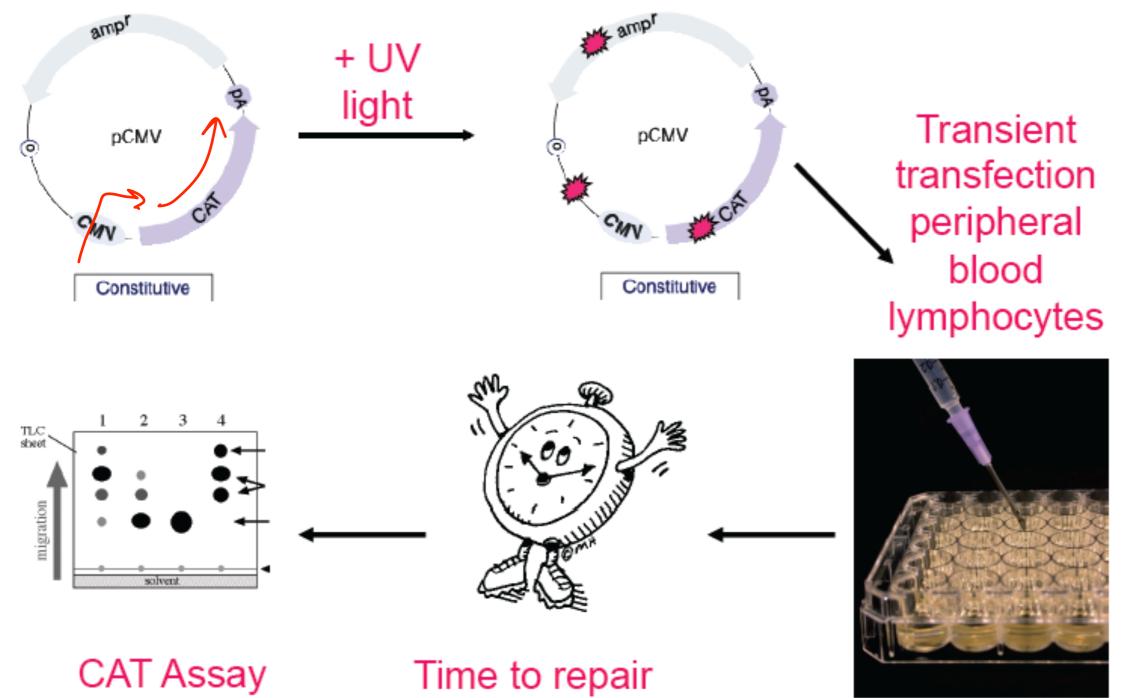
Tues da

Announcements

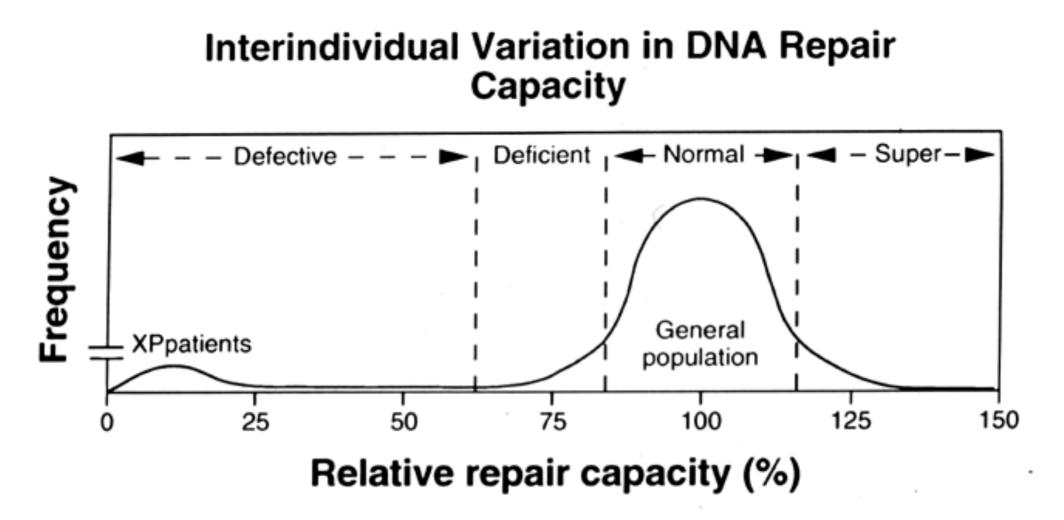
- Module I Data Summary due Monday at 5pm
 - ★ submit to Stellar
 - Blog Posts due next week. K Blog
- Primer design memos due Thursday at 10pm
 - Talk more on Tuesday
- Office Hours:

Noveen IDam-NOON Sunday

Reactivation of UV damaged DNA by Host cell Reactivation (HCR) Athas & GROSSMAN Cancer Res. 1991



Slide from M2D1 Lecture — Prof. Samson



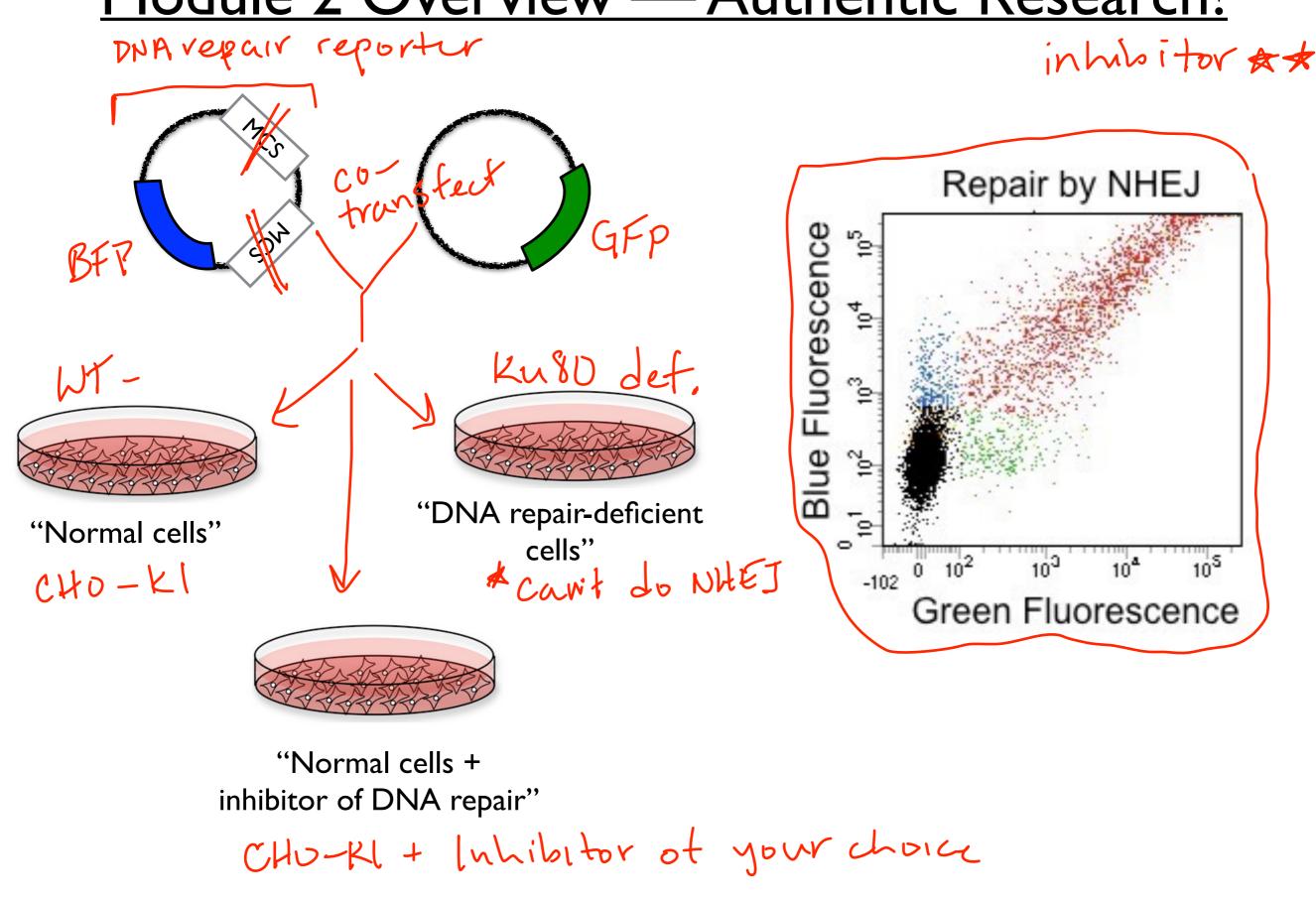
Adapted from GROSSMAN and Wei (1995) Clinical Chem 41: 1854-1863

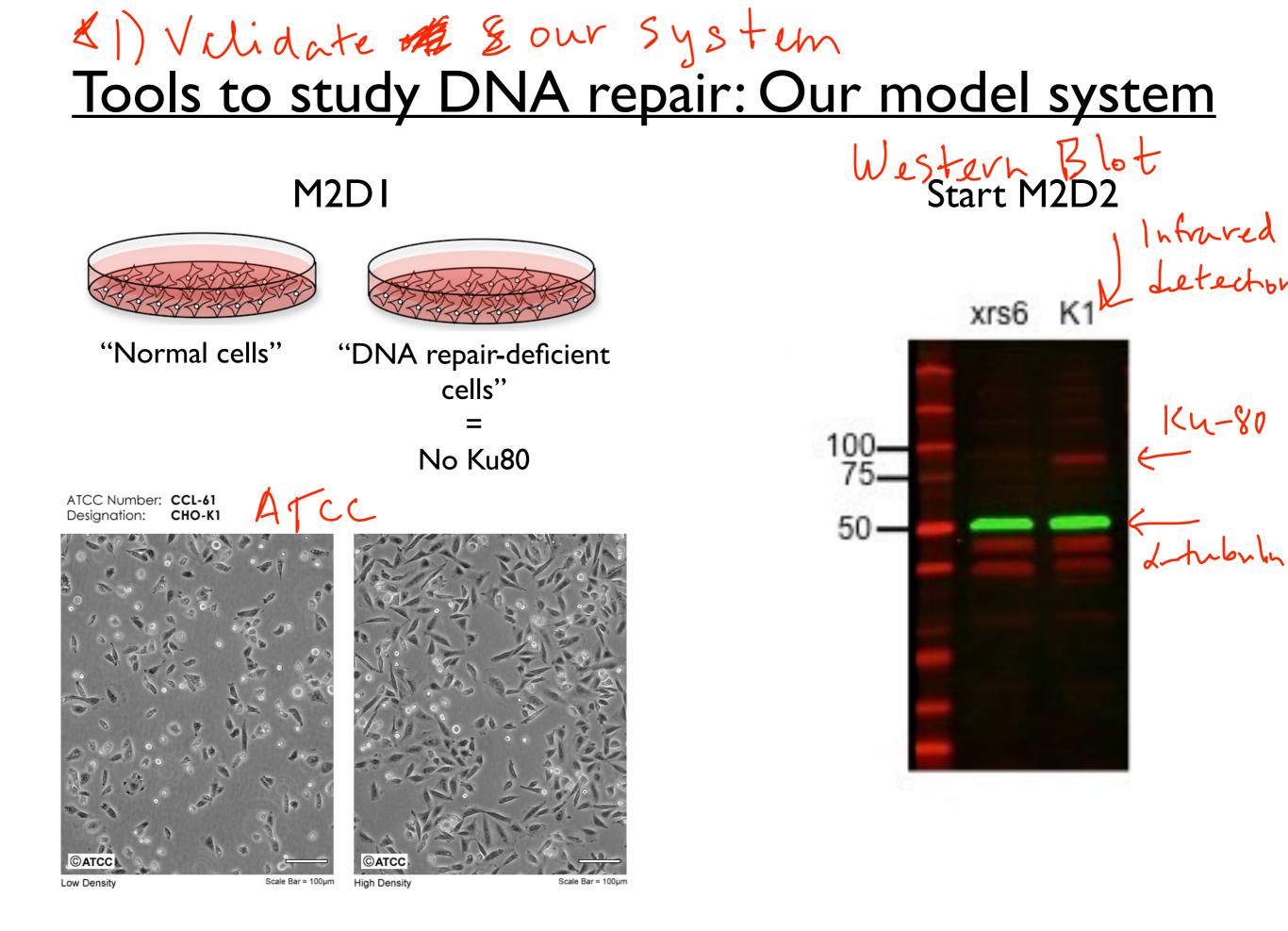
XP frequency = ~1:250,000 giving a theoretical maximum of ~28,000 cases worldwide with 2,000-fold increased risk

Even if just 1% of the population is relatively repair deficient, could have tens of millions with several-fold increased risk

Slide from M2D1 Lecture — Prof. Samson

Module 2 Overview — Authentic Research!

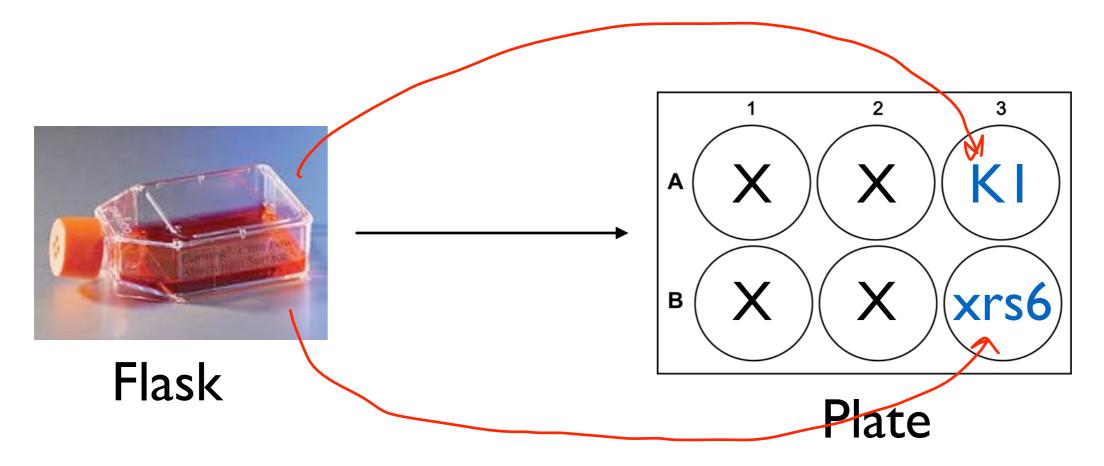




37°C -> 95'l, R.H. Cell <u>Mammalian cell culture — Tissue culture medium</u> SAA ruitamins phenol Pred DMEM sminerals What do cells need to survive? (NON essential a.a.) +glucose Food(s): NEAA - Marow ipids typowth factors typoknes Bovine typoknes feta Glutamine flipids Sodian Ryruvate (ghrose -72 pymate) Servin Non-food(s): Fetal Bovine Antibiotics -> prevent Serum IS-Sourced contamination Antimycotic -> prevents tungus

<u>Mammalian cell culture — 'Splitting' cells</u>

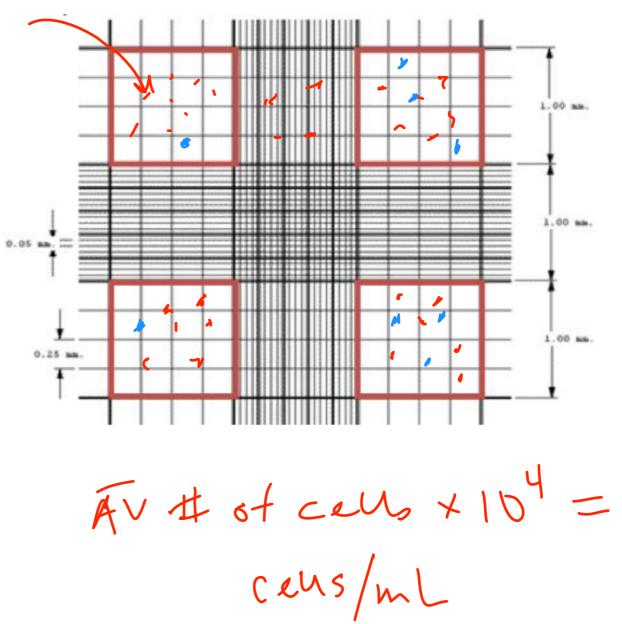
- I. Rinse with PBS why? FBS contains d-typsin agents
- Detach cells why? move then b-well prate
 Gount cells why?-equilize cell mucher
- 4. Add to new culture vessel why?



<u>Mammalian cell culture — 'Plating' cells</u> Mon man blue

hemocytometer

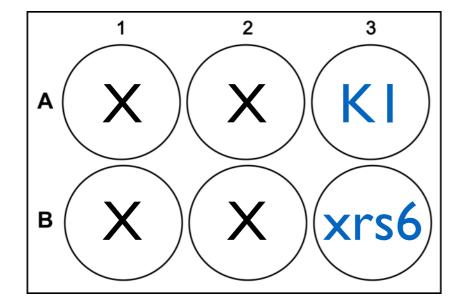




http://www.cellsignet.com/media/templ.html

https://www.youtube.com/watch?v=pP0xERLUhyc

http://www.allcells.com/blog/how-to-count-fresh-primary-cells/



Today in lab:

★Seed cells for Western blot analysis of Ku80 expression:

Orange/Yellow/Green — in TC first

★Leslie here to talk about abstracts

 \bigstar Learn about our system:

I.Read paper from Jeggo lab

- Answer questions on wiki in your EN notebook
- This is a preview of what we'll be talking about don't stress
- Speaking of share your notebook with Nova!