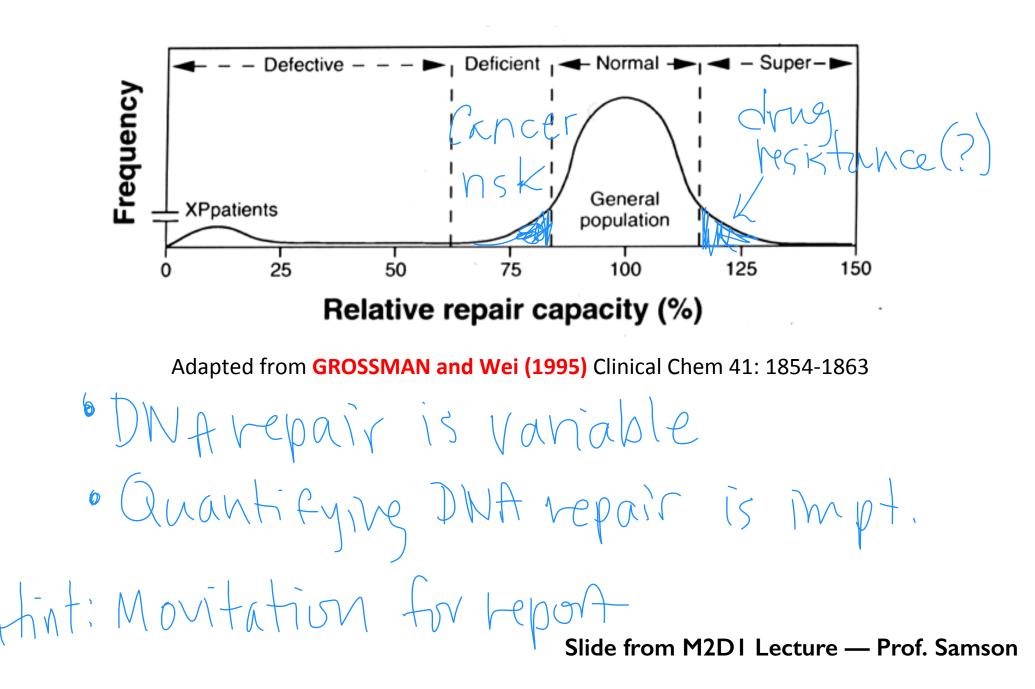
# M2D4: Cell prep for DNA repair assays

### Announcements

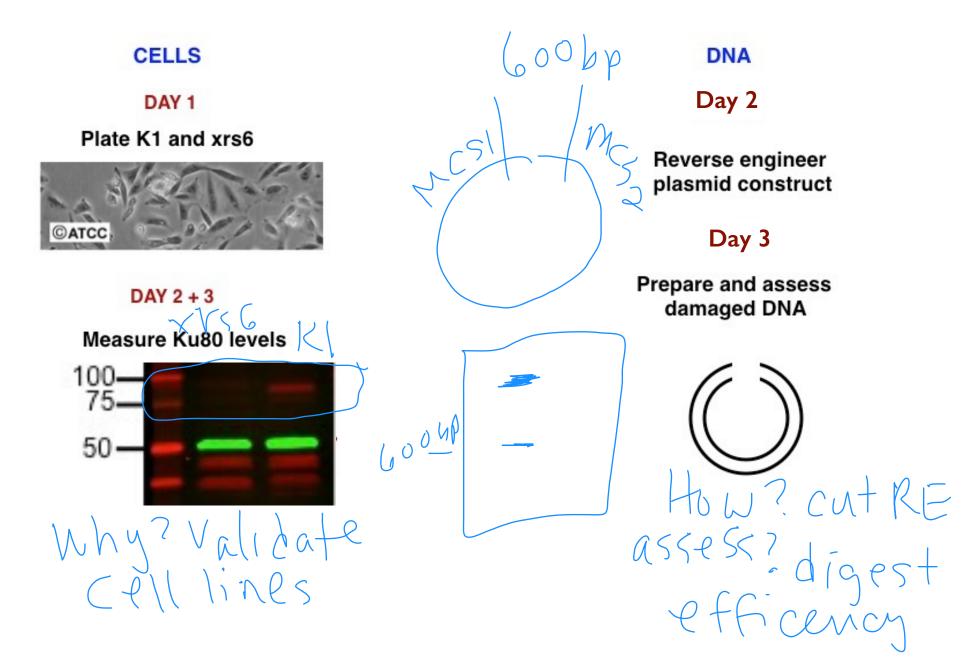
- Module I Data Summary re-write due on Saturday (4/4) at 5pm to Stellar.
- Make sure to read the section on the wiki about revisions (comments and late policy)

### Why do we care about DNA repair capacity?

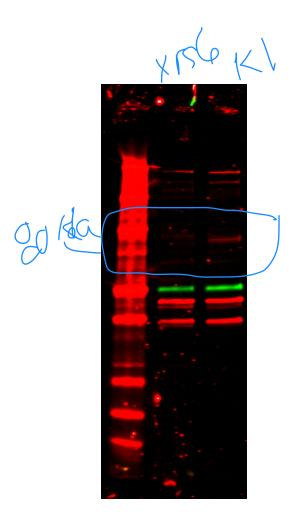


### Remember way back...

#### M2 OVERVIEW: VALIDATE SYSTEM

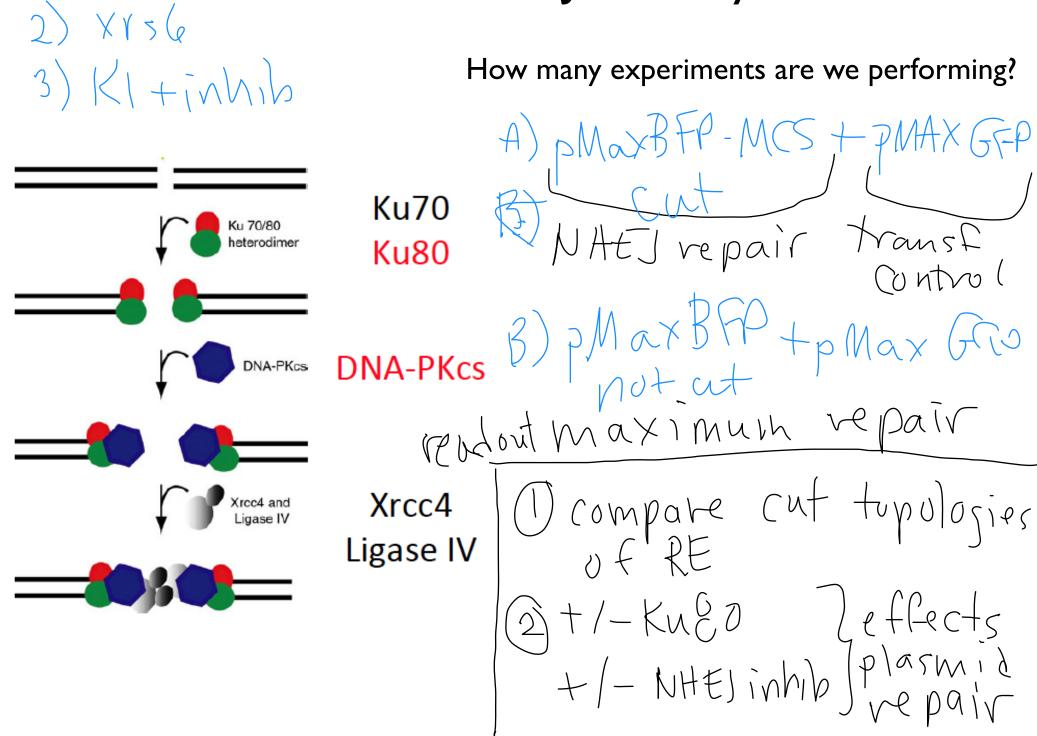


## Western blot analysis

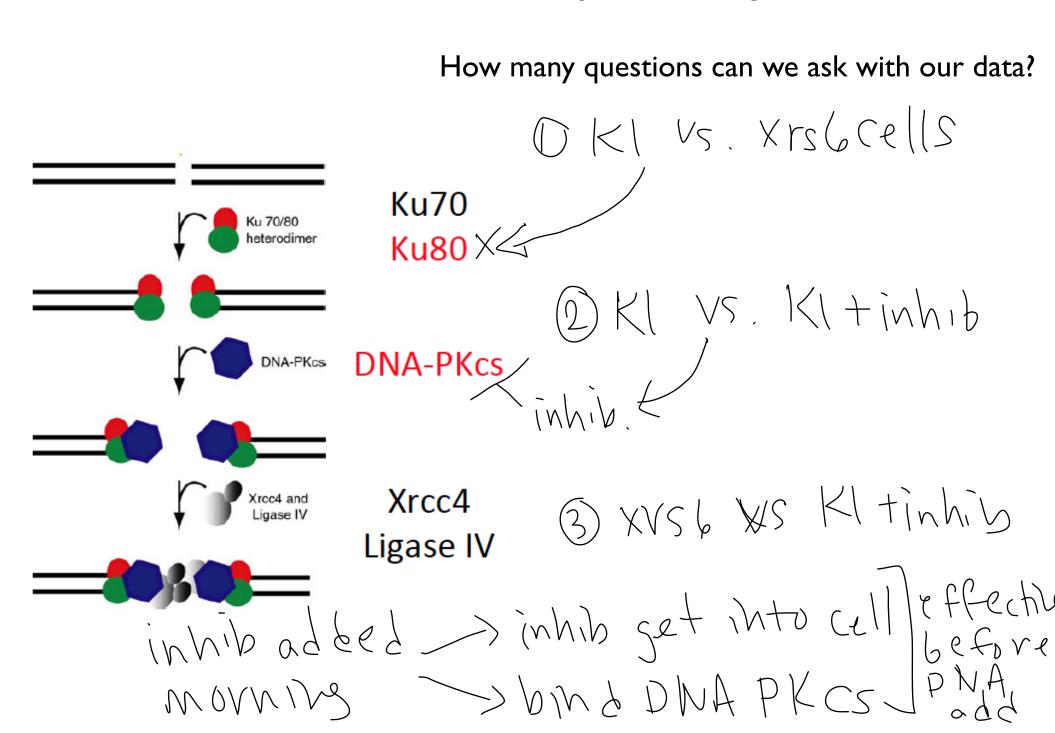


# Canonical NHEJ Pathway:

1) (H) - || ||



## Canonical NHEJ Pathway:



How will we know that the inhibitor works? Seperate, Important control expt

Seed cells @ 10 w density Addinhib dose response, expose radiation 45days colony formation USSah

#### INHIBITOR

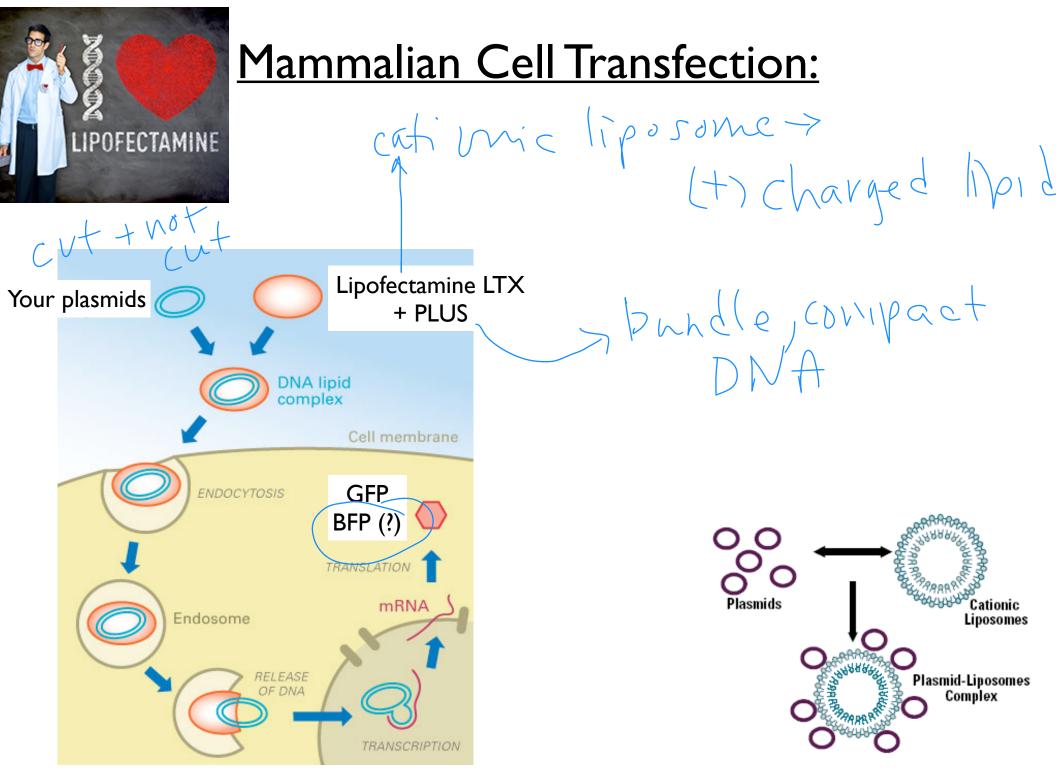
#### Day 5

Plate irradiated K1 with varying [Drug]

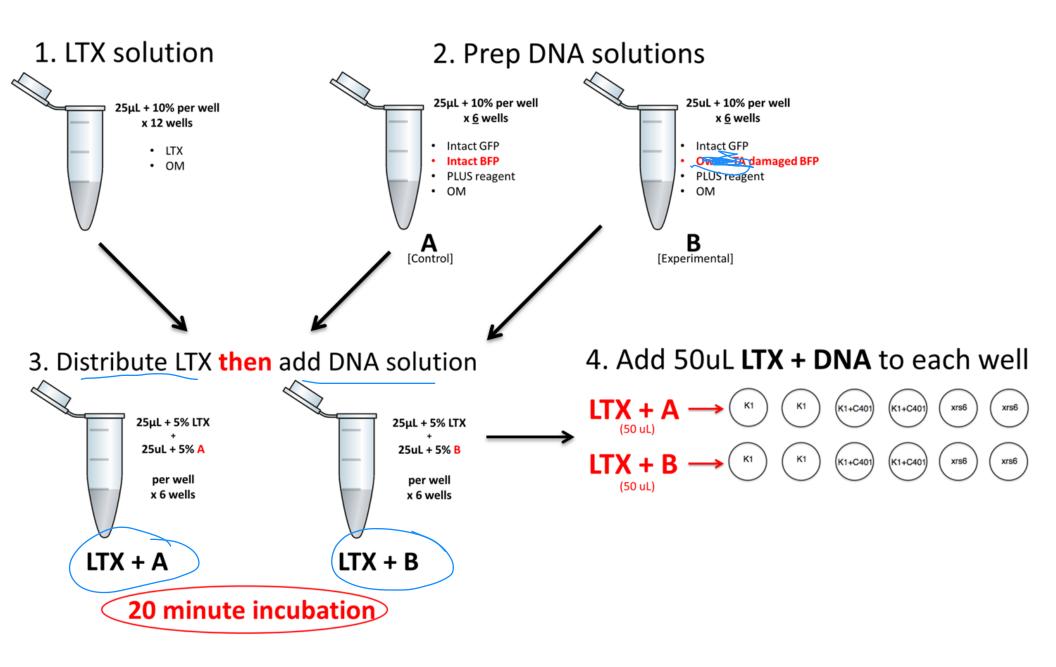
#### DAY 7

Stain for colonies

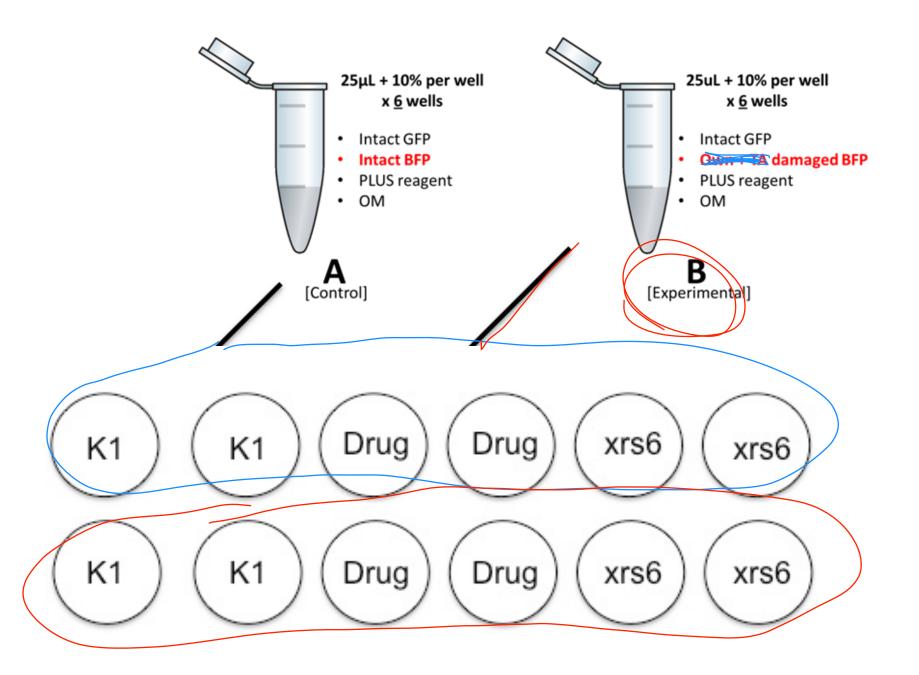
J



### Today in lab:



### Your DNA damage repair assay:



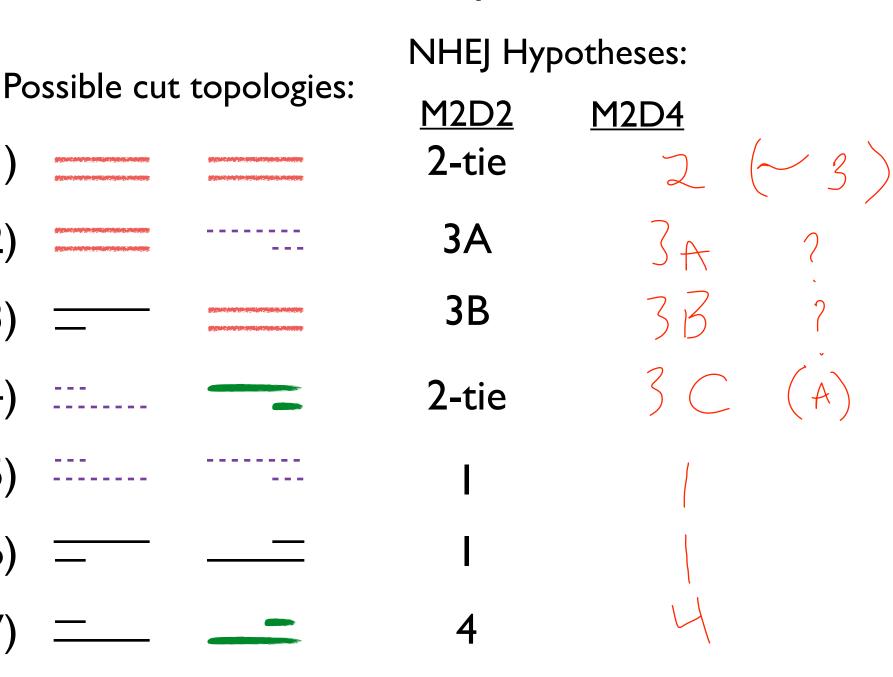
# Today in lab:

★Do your transfection calculations FIRST — three groups max in TC at one time.

★Once you check off your calculations with me or Nova, you can head into TC.

 $\bigstar$ While you wait — complete the peer Methods review.

### Our System:



(1)

(2)

(3)

(4)

(5)

(6)