# 4/1/15 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?



Hint: Motivation for report Slide from M2DI Lecture - Prof. Samson

## Remember way back...

#### M2 OVERVIEW: VALIDATE SYSTEM



### Western blot analysis



# Canonical NHEJ Pathway:



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How will we know that the inhibitor works? Seperate, Mportant Control expt

Seed cells at INHIBITOR Jow density Day 5 Plate irradiated K1 with varying [Drug]

DAY 7

Stain for colonies

cov cov

(Innib)

tinkin dose response expose to vadiation 52ayscolony formation 655 m



## 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.

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

#### Our System:



NHEJ Hypotheses:	
<u>M2D2</u>	<u>M2D4</u>
2	
3-tie	
3-tie	
4	
l-tie	
l-tie	
5	