# M2D9:Complete cell viability assay 04/12/2018

- 1. Quiz
- 2. Complete cell viability assay
- 3. Complete RNA-seq analysis with R and TCGA
- Grading M2D4 lab notebook, complete by 10pm tonight Friday

## Extra Office Hours

- Leslie: Tuesday April 17<sup>th</sup> 56-322 (lab), 10:30am-1:30pm
- Josephine: Wednesday April 18<sup>th</sup> 56-322, 10:00am-1:00pm
- Noreen: Tuesday and Wednesday 56-322, 2:00-4:00pm
- Regular office hours will be offered Tuesday-Friday

# Mod2 Research Report (20% of final grade)

## Due Saturday 4/21 at 10pm

- Title, Abstract
- Introduction
- Methods
- Results (Figures and captions) –
- Discussion
- References
- Use class data in at least one figure

-Schematics (intro or Results) -PCAnalysis -heatmap/dendrogram -gene ontology table/list - comparison to cancer genome atlas - 9PCR - 9. primer comparison . RNAsey comparison - cell viability assay







# Calculate relative amounts of cDNA based on threshold cycle ( $C_T$ )



https://bitesizebio.com/24581/what-is-a-ct-value/

- C<sub>T</sub> is calculated from qPCR after all cycles complete
- Which gene has higher expression that represented by Curve 1 or Curve 2?

amplification ajoles were necessary to reach some level of fluorescence

### Representing qPCR results (include C.I. and statistical significance)



## Today in lab

- 1. Retrieve cells from TC and start Cell titer glo assay:
  - Plate #1: Blue, Pink, Purple, White, Grey
  - Plate #2 : Red, Orange, Yellow, Green
- 2. Complete any additional analysis necessary for your report!