- Announcements
- Pre-lab Lecture
 - Mod 2 overview
 - siRNA basics
 - Tissue culture
 - Today in Lab (Mod 2 Day 1)

Announcements

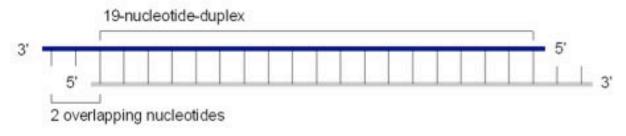
- Introducing... Steve, TA for Module 2
- Module 2 heads-up
 - Journal club presentations next week

 - No lecture on Day 3
 Day 4 lecture will be Mod 1 report feedback

 Module 1 reports
- Module 1 reports
 - Draft will be returned in ~ 1.5 weeks (M2D4)
 - Final revision due after spring break (M2D6)
 - Up to 1+1/3 letter grade improvement

Mod 2 Goals, D1-4: background

Design an siRNA



(Image from Wikimedia Commons, user Giac83)



Read and present about a specific topic in **RNAi**

Office ClipArt

Learn **cell** culture (mammalian)

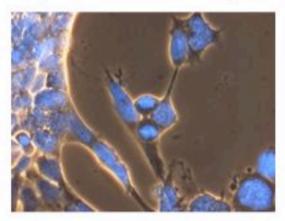


Image from http:// www.stemcellresources.org/ library_images.html

Mod 2 Goals, D5-8: experiments

siRNA against luciferase:

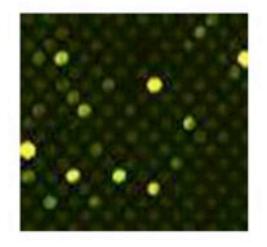
compare efficacy of designs use of a reporter plasmid basic statistics



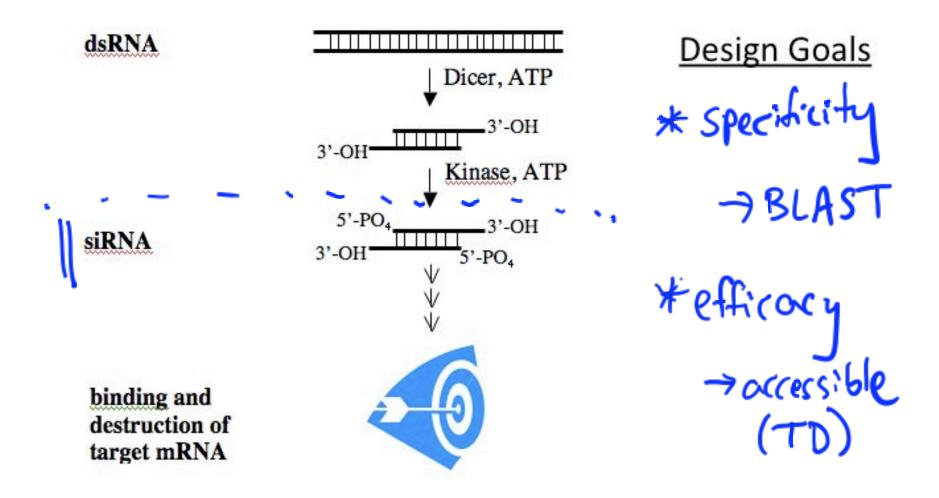
Image from flickr user jon.nelson, license: http://creativecommons.org/ licenses/by-nc-sa/2.0/deed.en

siRNAs against mouse genes:

direct, indirect, off-target effects analysis of large data sets



Intro to siRNA



Tissue Culture (TC) Environment

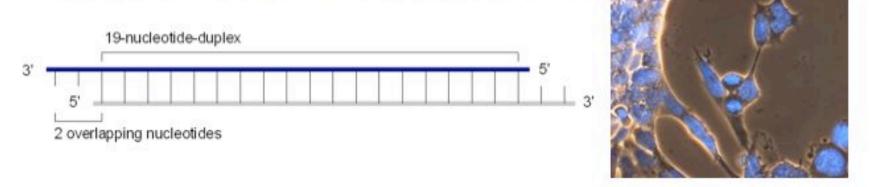
What will "feel" physiological to a cell?

Tissue Culture (TC) Medium

What do cells need to survive?

Today in Lab: Workflow

Half start with siRNA design, half with cell culture



- For next time:
 - Read journal article for group discussion 45min.
 - Start choosing article and day for solo presentation