## Spinfection: Transduction

## Materials

* Complete media
* Polybrene
* 12-well plate
* 15cm dish
* Cultured cells
* Virus
* Control virus
* Antibiotic

## Preparation

Day 0

* Thaw cells and expand at least 1 day in media
  + 15cm dish

## Protocol

Day 1

1. Thaw virus on ice (this takes a while!)
2. Prep polybrene treated media (8ug/ml)
   1. Need 4ml for cell resuspension with 3.6ul polybrene
3. Spin down cells and resuspend at 200,000 cells/ml (100,000 cells/ 500ul in 8 wells)
   1. Need around 1 million cells in 4ml media
4. Aliquot 1ml (200,000 cells) into four FACS tubes
5. Add 4ml virus to each tube
   1. Add 4ml media to control tube
6. Add 2.5ml of the cell-virus mixes to each well
7. Spin at RT for 1hr at 1000xg
8. Incubate at 37°C for 3 hours
9. Remove 1ml media
10. Add 3ml media and incubate overnight

Day 2

1. Half change media (2.5ml)
2. Incubate for 2 days

Day 4:

1. Half change media (2.5ml) with antibiotic added
   1. 5ml total in well, need 5ug antibiotic