<b>Biological Materials:</b>		
Strain 2-R	NB424	reference output
Strain 2-1	NB425	wk/wk
Strain 2-2	NB426	wk/med
Strain 2-3	NB427	wk/str
Strain 2-4	NB428	med/wk
Strain 2-5	NB429	med/med
Strain 2-6	NB430	med/str
Strain 2-7	NB431	str/wk
Strain 2-8	NB432	str/med
Strain 2-9	NB433	str/str
Reagents:		
ampicillin	e.g. Sigma, A0166	100 mg, use at final concentration of 100 mg/liter LB
IPTG	e.g. Sigma, I6758	24 mg, use at final concentration of 24 mg/ml H2O
ONPG	e.g. Sigma, N1127	40 mg, use at a final concentration of 4 mg/ml H2O

**Next steps (per student team):** Day 1: grow ONs in LB+A+1mM IPTG (10x2.5 ml cultures in 16x150mm test tubes with caps) Day 2: run b-gal assay Day 3: data analysis

## Teacher provides:

<u>Equipment</u>
Roller drum or shaker at 37° for growing liquid overnights
Spectrophotometer or turbidity stds*
Vortex
Pipets (5 ml) + bulbs or pipet-aids
Pipetmen (P1000, P200, P20)
Timer
Sharpie pens
Test tube rack for holding small tubes during rxn
*Turbidity stds require
1.75 ml BaCl <sub>2</sub>
80 ml 1% H <sub>2</sub> SO <sub>4</sub>