6-18-13

Plasmid Prep of JO4450, K299009, KI76012, KH12005, and JO4450(unknown 6)

*Used 70% ethanol to precipitate the DNA instead of 100% ethanol.

- Put in Freezer for 30 minutes, and spun in ~~microcen~~ microcenterfuge for 5 minutes.

NB, CL, GE

6-18-13

Finishing the Cadmium tests from pzgem 12.
- Spin down tubes
- Pour off liquid into bleach.
- Add 1 mL of 1x PBS to each tube and resuspend pellet.
- Transfer liquid to cuvettes.

	Sample M[Cd]	OD600	Emission 509 Flourescence 405	Emission 380.1 Flourescence 405 (Dilution)
1	0	1.088	0.049	0.689 (1 to 10)
2	.001	1.199	0.054	0.781 (1 to 10)
3	.005	0.397	0.031	0.243 (1 to 10)
4	.01	0.585	0.037	0.400 (1 to 10)
5	.05	1.095	0.069	0.092 (1 to 100)
6	.1	1.051	0.038	0.150 (1 to 100)

	fluor/OD
1	6.333
2	6.514
3	6.121
4	6.838
5	8.402
6	14.272

6-18-13

Started Cadmium Experiment with liquid culture from 6/16.
- Added 4 ml of LB + chlor to both positives and negatives (4 λ of chlor)
- Added 100 λ of Cadmium Detector cells.
- Added Cadmium according to Chart.

Tubes	1	2	3	4	5	6
Molarity	0	.001	.005	.01	.05	.1
Cadmium (μl)	0	4	20	40	200	400

- Incubate

* Started = new culture

	Sample M(L)	OD600	Emission 360/40 Florescence 405	Amax/OD
1	0	~~.774~~ .700	0.980 (1 to 10)	2.5
2	.001	.780	0.226 (1 to 10)	3.013333333333
3	.005	.067	0.175	2.611940298511
4	.01	.256	0.187 (1 to 10)	7.3046875
5	.05	1.420	0.074 (1 to 100)	5.211267605633
6	.1	1.611	0.151 (1 to 100)	9.373060211105