

Meeting Minutes
Bootcamp day 4
5.27.10

Modeling:

BCCS Bristol won best modeling—mostly a tools team. Modeled interactions between cells and stuff going on inside of cells. Delivery of particles, interactions, etc. also included a user manual
<http://2009.igem.org/Team:BCCS-Bristol>

atomic dipole transition: <http://www.falstad.com/qmatomrad/>

michaelis menten kinetics—models the rate of the reaction. Velocity and substrate concentration. Type of inhibition.

Henderson Hasselbach equation:

[http://en.wikipedia.org/wiki/Henderson%E2%80%93Hasselbalch equation](http://en.wikipedia.org/wiki/Henderson%E2%80%93Hasselbalch_equation)

Last year's Modeling:

Looking at the construct and gene expression/repression vs time or concentration of IPTG. Levels of mRNA, protein etc.

Matlab Simbiology

An Introduction to Systems Biology by Yuri Alon. Book to find some modeling stuff.

Bioethics:

handouts on Bioethics. Phrases, wording to use with the general public in presentations.

one concern if bioterror

Obama wrote a letter asking for six month analysis of synthetic biology.

during public outreach highlight differences between synthetic biology and genetic engineering

discussion:

book—how to defeat your own clone. By kurpinski and Johnson.

how to regulate synthetic biology

nanotech—picked up by the industry really quickly so the general public is pretty much just trusting the industry in this area. We don't really understand how it reacts with our biology.

what kind of effects, how dangerous is a synthetically created organism?

bioterror, bioerror

microcosm—by Zimmer. book on all the advances we've gained using e.coli and a few other. Also mentions iGEM.

Concerns—getting in environment, bioterror, god/religion.

Other Info:

GAMES camp. Engineering girls camp. High school week, middle school week. July 30th, (Friday) 9:45-10:30. August 13th 9:45-10:30. Talk for about a half hour, have a hands on activity, something they can take away with them.

Orpheum childrens science Museum—really need a hands on thing if we do this.

Surrounded by Science--David Leake, tv show from parkland college. Person in charge wants to make sure that there's something in it for them too. Film us doing stuff, but we would also do some kind of outreach thing at parkland. ----could we have some kind of bioethics discussion if it's a seminar of some sort?

Memorial Day—barbeque, sand volleyball, waterballoon fight? Illini grove?

ThermoFischer might get us some funding!

For the meeting tomorrow: who would be able to be the public relations team to present at GAMES camp and things like that. Anna, Amanda, Erin.