CEI meeting

Feb 24, 2014
Woodward 338
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Integrated Genomics Education

Premise: when students own the original data they will also own the analysis process.
Bioinformatics Summer Institute

Produce Data

→ Process/Annotate

→ Data mining/Statistics

→ Pipeline programming/Visualization

Hands-on versus Scalability?
B3 Science Camp and Saturday Science

Challenges:
Usable computers
Suitable freeware
Permission to install programs
Permissions for Web site
Printing images for Notebooks
Scaling up Learning

- Scaling up learning does not necessarily mean scaling up the number of students (scale up learning per student)
- Making the lectures/labs/homework/projects dovetail requires a very large amount of prep and planning time
- Students like having longer periods of time to practice skills
- Students learn most by having opportunities to make and recover from mistakes
- Students are intrigued when we include familiar technology used in unfamiliar ways
- Online tutorials and videos are often not well enough tuned to the tasks/vocabulary we are engaged in.
- We would like to try e-notebooks, but...paper still has its place. We consider it to be the ‘rough draft’ and the record of choice.