

**NUMB3R5
COUNT!**



*Quantitative reasoning
is essential for making
sense of data.*

HHMI



NIMBioS
National Institute for Mathematical
and Biological Synthesis



***Numbers Count!
Draft Workshop Schedule***

***NIMBioS
University of Tennessee- Knoxville
Knoxville. TN***

May 29 -31, 2009

http://bioquest.org/numberscount/utk_2009

Friday, May 29th

2:00	Welcome: Why do you use data?
2:30 – 4:00	Using statistics for hypothesis testing with Excel Fern population data
4:00 – 4:15	Break
4:15 – 6:30	Analyzing Chi-Square data Participants will work in small groups with their own data from a project or lab or with online data suitable for Chi Square analysis. Group posters will be presented Saturday morning. Summary discussion

Saturday, May 30th

8:30 – 9:30.	Group work and poster preparation
9:30 - 10:00	Poster Session
10:00 – 10:15	Break
10:15 – 11:45	Introduction to modeling

	Logistic growth with yeast data
11:45 - 2:15	Lunch and Local Exploration
2:15 - 3:15	Dynamic modeling
	Introducing the Von Betalanaffy function with shark data
3:15 - 3:30	Break
3:30 - 5:00	Incorporating mathematical analysis in the classroom

Sunday, May 31st

8:30	Exploring online data
10:00 – 10:15	Break
10:15 – 11:45	The Siege of Athens: An introduction to blast and pairwise sequence alignments
	Dental specimen sequence data
11:45 – 12:15	Discussion: Data and the undergraduate curriculum

Resources:

Fern data:

PosterLinks:

<http://www.hhmi.org/coolscience/resources/SPT--FullRecord.php?ResourceId=29>

<http://www.swarthmore.edu/NatSci/cpurrrin1/posteradvice.htm>

Yeast data:

Shark data:

NCBI Blast

<http://blast.ncbi.nlm.nih.gov/Blast.cgi>

Siege of Athens data

Neanderthal sequence data: