STATISTICAL ANALYSIS OF RESEARCH DATA

in Natcher Conference Center is sponsored by the NCI Center for Cancer Research Office of Training and Education.

The lecturer is Paul Thurman of Columbia University (Paul.Thurman@Columbia.edu).

AGENDA

<u>Feb.</u> <u>5,</u> <u>2009</u>	<u>Univariate</u> <u>Data</u> <u>Analysis</u>
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9:00 a.m. • Introduction and case overview (including review of first assignment)

• Descriptive Statistics

• Data/probability distributions (with focus on Normal)

• Sampling distributions (mean and variance)

10:30 a.m. Break

10:45 a.m. • Sampling distributions (mean and variance, continued)

12:00 noon Lunch Break

1:00 p.m. • Small vs. large samples

• One-sample inferential statistics: means, variances, confidence intervals

3:00 p.m. Break

3:15 p.m. • Two-sample inferential stats: two-sample t-tests (paired vs.

independent; means and proportions)

Tutorials: Excel tutorials on descriptive statistics, histograms, two-sample tests of

means

5:00 p.m. Close

Feb. 6, 2009 Bivariate Data Analysis

9:00 a.m. • Review of univariate analysis

• Bivariate statistics (covariance, correlation, etc.)

10:30 a.m. Break

10:45 a.m. • Simple linear regression

12:00 noon Lunch Break

1:00 p.m. • Multiple linear regression

3:00 p.m. Break

3:15 p.m. • Non-parametric tools: Chi-squared, Wilcoxon, Mann-Whitney goodness

of fit tests (as time permits)

Tutorials: Regression, Chi-Squared, and ANOVA tests (as time permits)

4:45 p.m. Close

For additional information contact the Course Coordinator, Dr. Terry Moody (moodyt@mail.nih.gov). Phone 301-451-9451 or FAX 301-480-4323. Dr. Moody's office is in Bldg. 31, Rm. 3A34.