

## Review of Basics Lab 1

- I. Scientific Method (**Scientific Method.pdf**)
  - A. Types of variables
  - B. Scales of Variables
- II. 10 Step (**10 Step.pdf**)
- III. Biostatistics decision tree
- IV. Power Logon
- V. How to download from the web.
- VI. Correctly formatting a matrix and coding data.
- VII. Use Excel for input, management, and basic analysis -- do not use program specific formats
  - A. Long term storage as CSV files
- VIII. Basic Excel Skills (**Basic.xls**)
  - A. Sorting (alpha and numeric) with subsorting
  - B. Autofill (drag series)
  - C. Running values (formulas)
  - D. Average
  - E. StDev
  - F. Var (problems)
  - G. Sum
  - H. Count
  - I. CountA
  - J. CountIf (=countif(A:A, ">" & I3))
  - K. If
  - L. Relative vs. Absolute Values
  - M. Min
  - N. Max
  - O. Rand()
  - P. Paste Special Values
  - Q. Saving a file in an older format for portability (Problems with dataset sizes in Excel)
  - R. Identifying unique values
- IX. Advanced Excel Functions (**Carabid.xls**)
  - A. Transpose
  - B. Pivot Table

- X. Introduce Statistical Software
  - A. SPSS
  - B. Statview
  - C. NT-Sys
  - D. Resampling
  - E. JMP
  - F. KWwT (**KWwt.exe**)
  - G. R
  
- XI. Software version differences
  - A. Excel – very pronounced differences
  - B. SPSS – a minor problem
  - C. R – Not an issue until it is, but easily updated.