Things I wish I have known in Graduate School

- 1. Assign an experiment number to every single experiment performed. Nomenclature should include: Initials, year, and experiment number. For example JAL2003-001. This would allows identification of each experiment, so that one can always specifically refer to it without causing confusion.
- 2. Maintain an experimental log in a table format that includes:
 - Experiment Number
 - Date
 - Notebook Reference
 - Title
 - Purpose
 - Summary of results
 - Cross reference to other experiments

The experiment log can obviously be kept as a computer file.

- 3. In addition to the experiment log, an experiment(s) summary slide, which includes picture of gels or data tables/graphs and the conclusions, is also very useful. This allows immediate access to the data, when one needs to be refreshed a set of experiments without having to go back and browse through the notebooks.
- 4. Cross-reference each notebook page by including a continued from and continued on reference.
- 5. Establish assay or experiment variability by determining its intra- and inter-day variabilities in completely independent experiments.
- 6. Establish assay robustness by using different set of reagents.
- 7. Always have your important results and calculations double, or even triple, checked by colleagues. The easiest person to fool is yourself.