



Version 10.0 Now Released!

New features in SigmaXL Version 10.0 include:

- **Graphical Tool Selection Guide**
- **Hypothesis Test Selection Guide**
- **Revised Control Chart Selection Guide**
- **New Data Manipulation Tools**
 - Convert Raw Data to Frequency (Tally)
 - Convert Frequency to Raw Data
- **New Graphical Tools**
 - Heatmap
 - Interval Plots and Multiple X Interval Plots
 - Empirical/Normal CDF Plots
 - XYZ Contour/Surface Plot
 - Automatic Interpolation Method Selection and XY Standardization using Cross-Validation
 - Inverse Distance, Akima's Polynomial and Biharmonic Spline Interpolation
- **New MSA Templates**
 - GLM GageRR (Crossed) Metrics with/without Interaction
 - GLM GageRR (Nested) Metrics
 - GLM GageRR (Expanded) Metrics
 - Orthogonal (Deming) Regression
- **New Statistical Tools**
 - Advanced Multiple Regression: Box-Tidwell Test and Power Transformation Recommendation for Continuous Predictors (New in Version 10.02).
 - Nonparametric Friedman and Friedman's Exact
 - Nonparametric Two Sample KS Test and KS Exact (option in Mann-Whitney)
 - General Linear Model. Extends Advanced Multiple Regression to include:
 - Fixed and Random Factors
 - Nested Factors
 - Covariates (can be Nested)
 - For Random or Mixed Random/Fixed Factors with a balanced design, the ANOVA and Variance Components (VC) report is given based on Expected Mean Squares. VC confidence intervals using Restricted Maximum Likelihood (REML) are included.



- If the design is unbalanced or model is non-hierarchical, REML is used to compute the VC values and confidence intervals. Fixed Effects Tests are based on Satterthwaite approximation degrees of freedom.
- Main Effects with Confidence Intervals and Interaction Plots of Fitted Means for Non-Nested Fixed Factors
- Tukey and Fisher Pairwise Comparison of Means for Non-Nested Fixed Factors
- Predicted Response Calculator
- Multiple Response Optimization for Nested or Non-Nested Fixed Factors