Analysis of Growth Trends of Maggots Using Time-Accelerated Models

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Abstract

Gray & Brookmeyer (1998) have shown a method that estimates overall treatment effects for multidimensional longitudinal data that follow a non-constant trend over time in spite of differences in scales between response variables. These estimation techniques center around the Generalized Estimating Equations developed by Liang & Zeger (1986) and extended by Prentice (1988). This method will be explained in the context of analyzing growth trends of maggots at different temperatures, and the estimating equations will be worked through for correlated, normally distributed responses.