

**ADJUSTMENTS FOR NON-LINEAR MODELS TO GROWTH
DATA, ADJUSTMENTS WITH AND WITHOUT AUTOCORRELATION
IN THE RESIDUALS**

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- *ABSTRACT: The objective of the present work was to study the growth of cows and rats, comparing the models of Gompertz, Richards, logistic, monomolecular and von Bertalanffy. Adjustments were made with and without autocorrelation in the residuals. The comparison between the models was done through the measures of quality adjustment AIC, BIC, mean prediction error and Akaike weight, second (Motulsky and Christopoulos, 2004). For cows, the model that best fit was the monomolecular followed by von Bertalanffy and Gompertz, now for mice, von Bertalanffy, Gompertz and Richards proved best. Settings with autocorrelation in the residuals is shown always best.*
- *KEYWORDS: Nonlinear models, autocorrelation in the residuals, growth data.*

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