



## The Reliability and Validity of Real-time PCR Data in Biomedical Sciences

By Yasir Khan

GRIN Verlag GmbH Feb 2015, 2015. Taschenbuch. Book Condition: Neu. 210x148x1 mm. This item is printed on demand - Print on Demand Titel. Neuware - Seminar paper from the year 2014 in the subject Statistics, grade: B, National University of Modern Languages, Islamabad (NUML), course: Statistics, language: English, comment: This is an academic project for the Statistics course in MS-Business Management, abstract: Despite a fairly broad implementation and application of real-time PCR, there still exists a vacuum in determining the correct procedures for the examination of quantitative real-time PCR; more explicitly, there is a need to determine appropriate procedures to attain the right kind of statistical treatment. In today's various methods of data analysis, the key statistical inferences are not as exclusive as required like confidence interval. This paper presents and tends to relate four statistical models and approaches on the basis of standard curve method and methods for data analysis. The first approach developed a multiple regression analysis model for the determination of  $\Delta\Delta Ct$  directly from the approximation of interface of gene and treatment paraphernalia. The second approach used the analysis of covariance i.e. ANCOVA model where the derivation of  $\Delta\Delta Ct$  could be made through the sequential evaluation and...



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