Analysis of qPCR data in R
Laure Cougnaud1,*

1. OpenAnalytics BVBA
*Contact author: laure.cougnaud@openanalytics.eu

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qPCR is nowadays a standard procedure to quantify DNA copies with precision. However, as this technique is more and more used, criteria and consensus on methods to analyze qPCR data are lacking (Bustin et al., 2009). At the mean time R packages to analyze such data have flourished during the last decade.

In this presentation, we will present the main issues encountered when analyzing qPCR data, from the preprocessing (filtering, quality check of the experiment) to the statistical analysis itself. Then we will provide an overview of current R packages (SLqPCR, EasyqpcR, ddCt, NormqPCR, ReadqPCR, . . . ) to analyze qPCR data and will assess their strengths and weaknesses in dealing with these issues.

References


