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Removal of batch effects from longitudinal studies

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Biological data are very often produced in different non-comparable batches. For data with repeated measurements and for longitudinal data, the correlated nature of the samples must also be considered in the procedure for the removal of the batch effects. Current literature on the removal of batch effects, however, is mainly concerned with the analysis of experiments having an independent sampling of the subjects. We have developed a procedure based on a linear mixed model to remove the batch effects from correlated data. Our procedure provides a filtered data set that can be used for further analyses.

Biography

Marco Giordan has completed his PhD in Statistics in 2007 from Padua University and then worked as Biostatistician in different research institutes. Actually, he is a Researcher in the group of Biostatistics and Data Management at Edmund Mach Foundation, an institute promoting research in Agriculture.

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