

An R tools platform in Cosmetic Industry*

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In our company there are hundreds of in vitro, vivo and ex vivo studies per year. They range from efficacy to safety results on raw materials and formulae. All these studies must be analyzed, the results must be stored and we must keep track of the programs used to have a reproducible research. In this context we choose to create a statistical platform with specific tools for researchers so they can make their analysis by themselves and more general tools for statisticians so they can quickly produce accurate statistical reports.

This platform contains mainly tools that are built entirely within R (GUI's and statistical programs). In this presentation we would like to show the platform and its functionalities with some technical aspects concerning the technology we choose. We also like to show the tools we build to make exploratory analysis, mixed model analysis, an example of a 'non statistician' tool and a presentation of some packages that we build exclusively for our purpose.

The purpose of this conference is to show how we've been able to grasp the incredible potential of R to analyze our data, and to show that today R has concrete and very effective applications in the Industry.

*The name of our company will be told once we got the approval of our own scientific committee.