



SkinTools 2.0

Software for highly efficient data analysis of in-vivo skin composition measurements

The River Diagnostics SkinToolbox 2.0 enables the user to process experimental data according to the experimental design in a fast and efficient way. The key features are summarized below:

- Excel sheet based input of Raman spectra, sorted by the different experimental variables.
- plotting and browsing of spectral data, processing parameters and results.
- export of spectra in ASCII format.
- automatic, customizable outlier detection.
- standard River Diagnostics analysis methods for the generation of depth concentration profiles of water, free amino acids and other main components of untreated skin (stratum corneum).
- flexible calculation of various depth profiles based on user-definable integration of single Raman peaks.
- automatic and precise calculation of the skin surface location, by interpolation of the depth composition profiles. Required for accurate comparison of data.
- interpolation of depth profiles to enable comparison and averaging of profiles on different depth axes.
- graphical indicator for the statistical significance of observed analyte level.
- user definable expansion of the standard River Diagnostics analysis methods with components other than the endogenous skin constituents (e.g. topically applied products, active ingredients or vehicles, or other skin components of which the abundance is induced by some treatment (metabolism, oral ingestion)).
- difference spectrum generation with save option.
- various ASCII output formats for the depth concentration profiles, enabling easy interfacing to further data analysis software for statistical analysis and cross correlation to other skin measurements:
 - output sorted by single measurement.
 - output sorted by analyte (including an average content per analyte).
 - output sorted by analyte and grouped (pooled) according to the experimental design or according to user's choice (including average content per group).

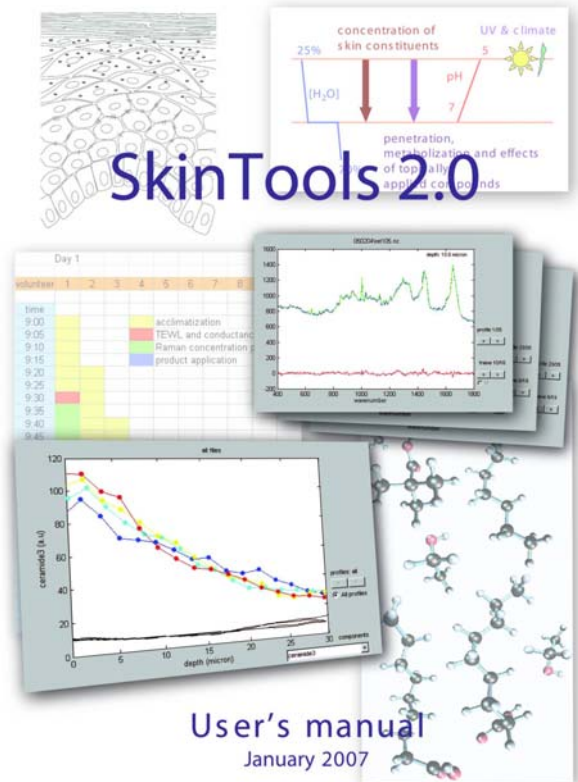


Figure 1. The title page from the detailed user's manual.

■ Instruments for Breakthrough Skin Research

■ Advancing Knowledge in Skin Science

■ Contract Research