Docket #: S02-263

An Improved Method for Visualization of Multidimensional Data ("Logicle")

Applications

- Method of analyzing data using a computer, including using the scaled data to identify portions of the raw data of interest
- Methods of this invention can be implemented in a localized or distributed computing environment

Advantages

- The data scaling is specified by a mathematically well-defined function which can be readily computed
- Ability to optimize display of particular data sets
- The linear to logarithmic transition is very smooth, minimizing the likelihood that display artifacts will be created
- The method retains a rectilinear display grid (lines of equal signal level are straight and horizontal or vertical)

Publications

- Leonore A Herzenberg, James Tung, Wayne A Moore, Leonard A Herzenberg & David R Parks. Interpreting flow cytometry data: a guide for the perplexed. Nature Immunology 7, 681 - 685 (2006).
- Parks DR, Roederer M, Moore WA. A new "Logicle" display method avoids deceptive effects of logarithmic scaling for low signals and compensated data. Cytometry A. 2006 Jun;69(6):541-51.
- See below for the issued U.S. Patent.

Patents

- Published Application: 20040143423
- Published Application: 20060015291

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