

# BioNumerics® 2D

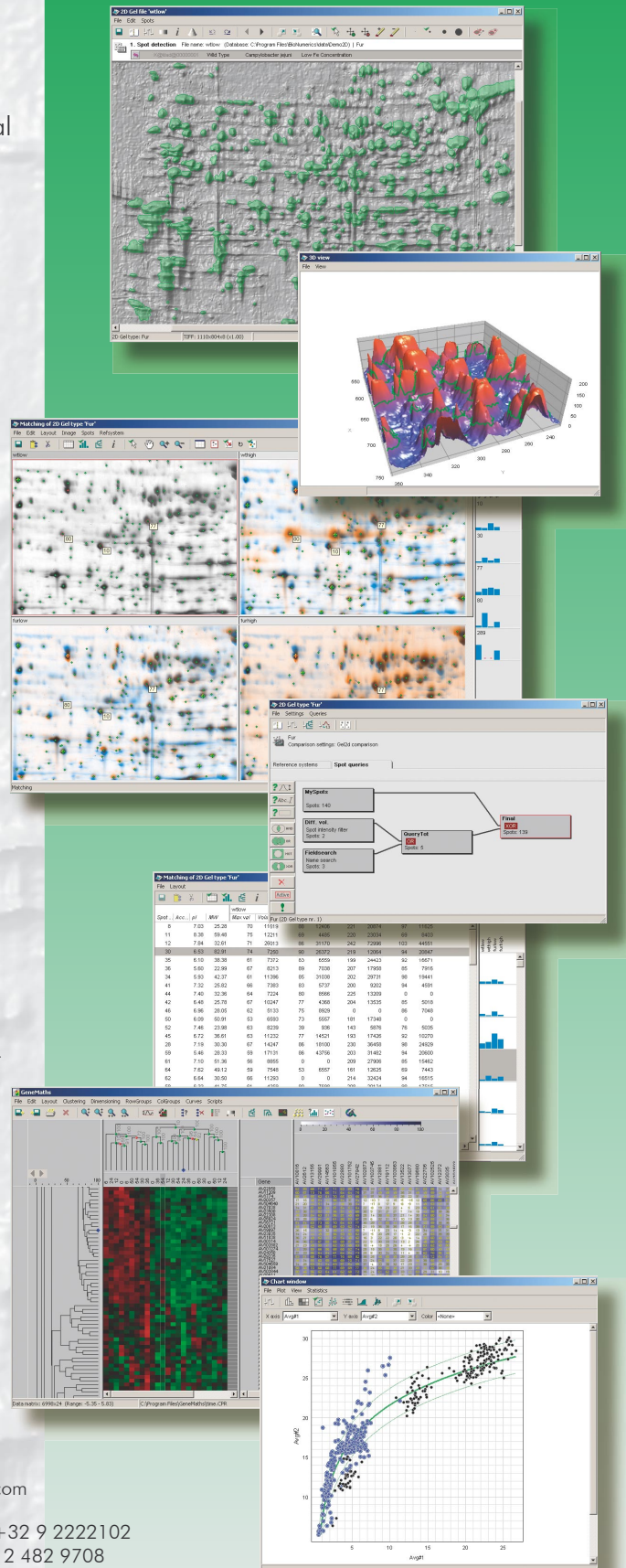
## New and innovative software for the advanced analysis of 2-D gels

BioNumerics 2D offers every feature to make it a professional 2-D gel analysis package, and distinguishes itself by its impressive databasing, querying, and statistical analysis tools.

Being part of the global **BioNumerics Platform**, BioNumerics 2D is integrated with powerful sequence and microarray databasing and analysis solutions, and offers analytical and interpretative features that no other package can offer. The entire system runs on a powerful Oracle®, SQL Server® or Access® database, driven by the software.

- Find spots automatically using adjustable parameters
- Calibrate gels for spot concentration, molecular weight, and pI metrics
- Align gels automatically using the powerful alignment algorithm and edit landmarks manually using easy drag-and-drop functions
- Create spot queries of any kind and complexity using the advanced query tool
- Merge gels with different pH ranges into a single composite analysis
- Co-analyze images of the same gel after different exposure times, and automatically detect spots with optimal intensity
- Store full information from major public protein databases
- Identify groups of spots with similar or dissimilar behaviour, using the impressive range of grouping, identification and dimensioning tools of the BioNumerics suite
- Create bar graphs, contingency tables, 2-D and 3-D scatter-plots, ANOVA plots, and perform hypothesis testing
- Analyze and compare 2-D protein gel data with microarray data in one integrated platform using GeneMaths® (\*)
- Analyze any protein or EST at nucleic acid or amino acid level using Kodon® (\*)

(\*) Kodon and GeneMaths are other software solutions from Applied Maths, for the analysis of sequence and microarray data, respectively. Both packages are integrated in the BioNumerics Platform.



**Applied Maths** [www.applied-maths.com](http://www.applied-maths.com)

Keistraat 120, B-9830 St-Martens-Latem, Belgium. Tel +32 9 2222100 Fax +32 9 2222102  
512 East 11th Str, Ste 207, Austin, TX 78701, USA. Tel 512 482 9700 Fax 512 482 9708