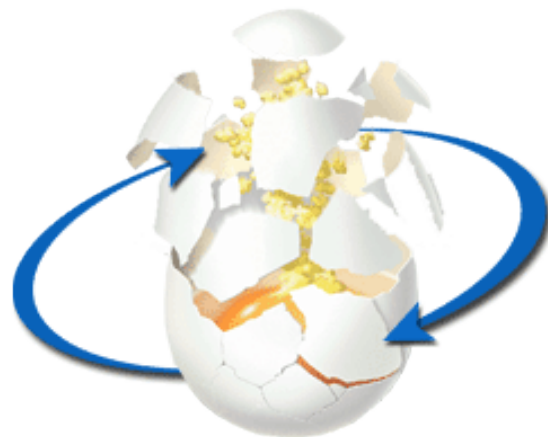


Unscrambler ONLINE



Online Prediction & Classification

A revolutionary, plug 'n' play product designed for end-users across industry verticals, the new Unscrambler Online comes with unique features that allow it to make effective on-line predictions and classifications, to monitor processes and ensure quality control with spectroscopic measurements.

The Unscrambler Online enables full utilization of PLS-R and PCR models for prediction, PLS-R, PCR and PCA for classification developed in The Unscrambler® software. The use of Unscrambler Online results in effective application of multivariate statistical approaches in process & quality control, research & development.

Product Highlights

Prediction through Polling

Select / upload PLS-R and PCR models developed in The Unscrambler®

Supports

- Extended Multiplicative Scatter Correction data (EMSC)
- Supports simultaneous online prediction on multiple The Unscrambler® models
- JCAMP-DX, GRAMS & BFF3 file formats
- "Micro model" format.

Displays and updates results in Excel format

Prediction Uncertainty, Sample Residual and Leverage

Perform from Optimal PC / other PC set by the user

Elaborate result outputs in EXCEL / XML / HTML or ASCII

Classification through Polling

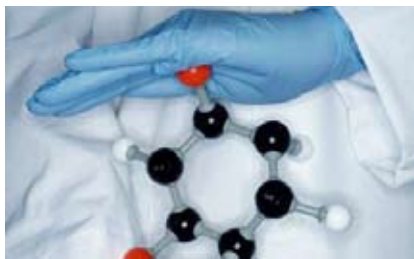
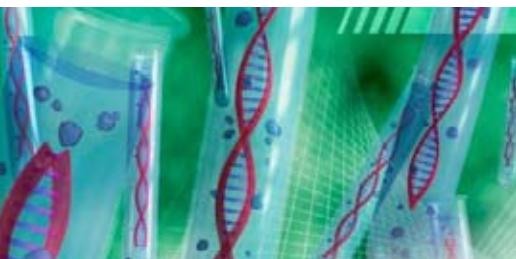
Select PCA, PLS-R and PCR models developed in The Unscrambler® using SIMCA approach and upload PCA models developed in The Unscrambler®

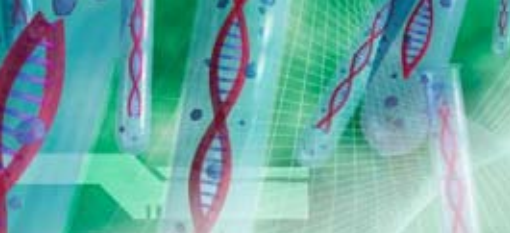
Supports simultaneous online classification on multiple The Unscrambler® models

Displays and updates results in Excel format on screen. Scores, Sample Residual and Leverage are available as part of classification results.

Elaborate result outputs in EXCEL / XML / HTML or ASCII

Supports all pretreatments and combination of pretreatments available in The Unscrambler and earlier versions.





Salient Features

Easy Configuration

Configure and create an operation service (no programing skills required)

File Polling

Predict or classify samples online at regular / user defined intervals, using pre-developed The Unscrambler® models. Utilize JCAMP-DX,GRAMS & BFF3 input data formats measured by spectroscopic instruments.

Auto Pretreatments supported

Supports auto pretreatments / transformations used in The Unscrambler® (Smoothing, Normalizations, Baseline Corrections, Derivatives, Multiplicative Scatter Correction (MSC) and Standard Normal Variate (SNV))

Multiple Calibration Model Selection

Compare prediction results using different variable range, number of optimum PC, and data pre-treatments. Configuration service allows to include different type of calibration models, PLS1, PLS2, and PCR.

Classification

SIMCA operation for online classification with The Unscrambler® PCA models. Scores, Sample Residual and Leverage available as part of classification results



Result Display and Save

Displays and updates results in Excel format on screen. Prediction Uncertainty, Sample Residual and Leverage available as part Scores, Sample Residual and Leverage available as part of classification

Security and Traceability

Authenticates Username and Password. Track operation and measurements as per the CFR Part 11 compliance.

Industry Applications

- Predict the composition of different constituents in the final mixture
- Predict contaminant values of pollutants in the product and process
- Constantly identify raw input materials and output quality
- Monitor blending, drying, dissolution and other processes

Industries

- Pharmaceuticals
- Food Manufacturing
- Environment
- Petroleum
- Biotechnology
- Chemicals
- Polymer & Petrochemicals
- Paper



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