ImaJerl *by* KAX Group

What's in an Image?

ImaJerl
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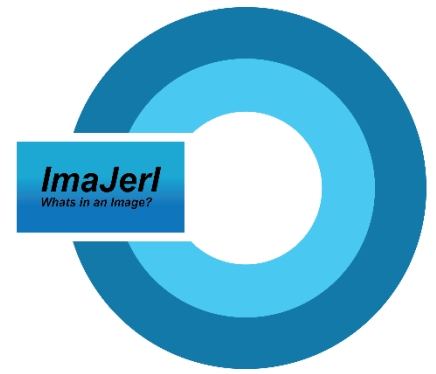
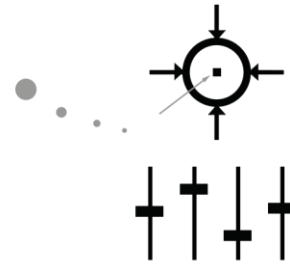## Easy User Interface Design for Hyperspectral Image Correlation

Image Plot for 782.7

Image Correlation Plot
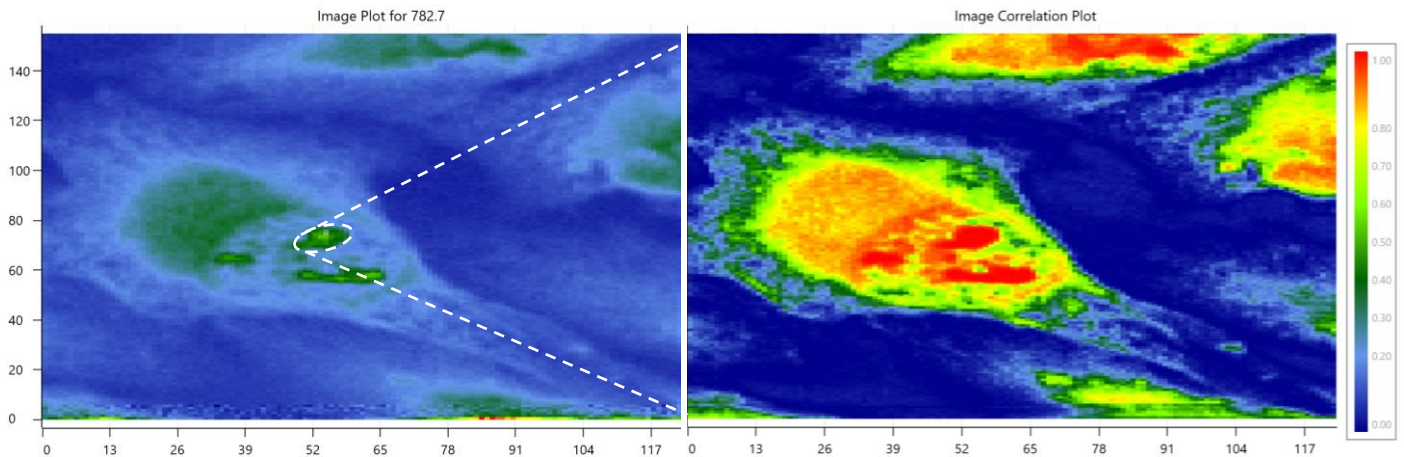
Highly Intuitive, Visual & Interactive Spectral Data Analysis Tools

Image Plot for 1004

Pixel Spectra Plot
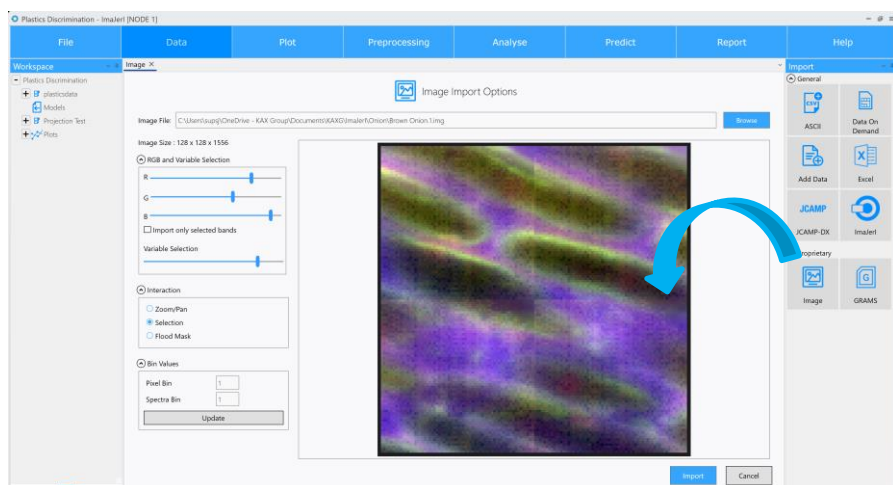
Counts

Raman Shift (cm-1)
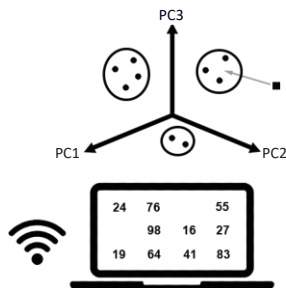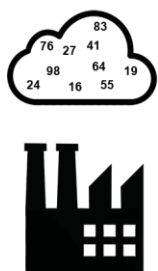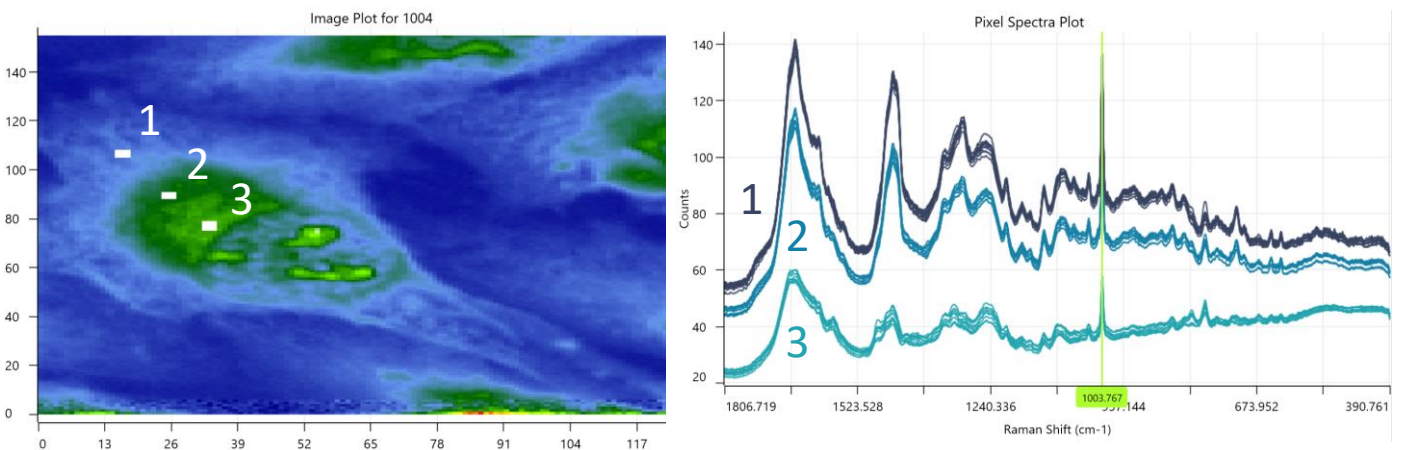
Your Data   Our Software   Your Success
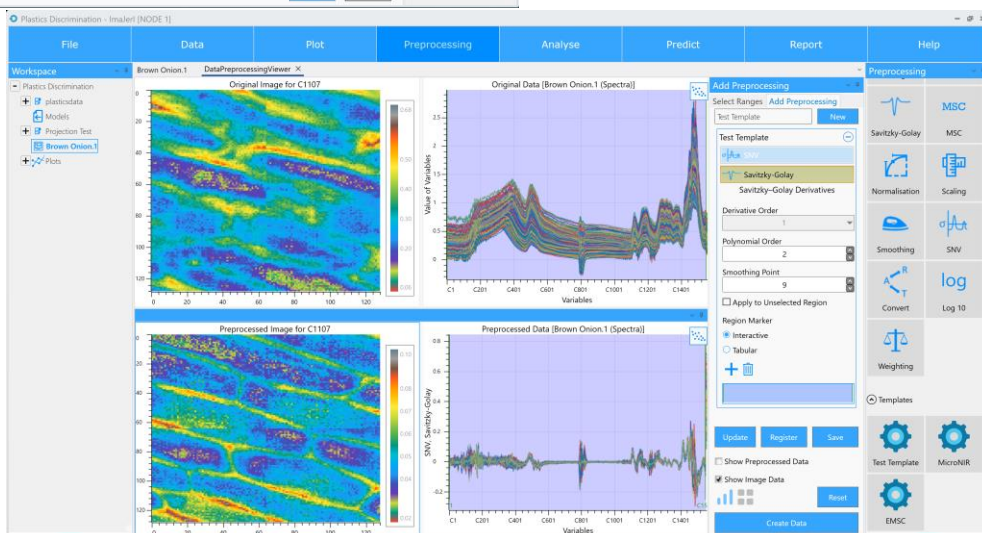
What is ImaJerI?

Easiest Multivariate Image Analysis Platform for Image Filetypes

- Drag'n'Drop interface
- Image preview tools before import
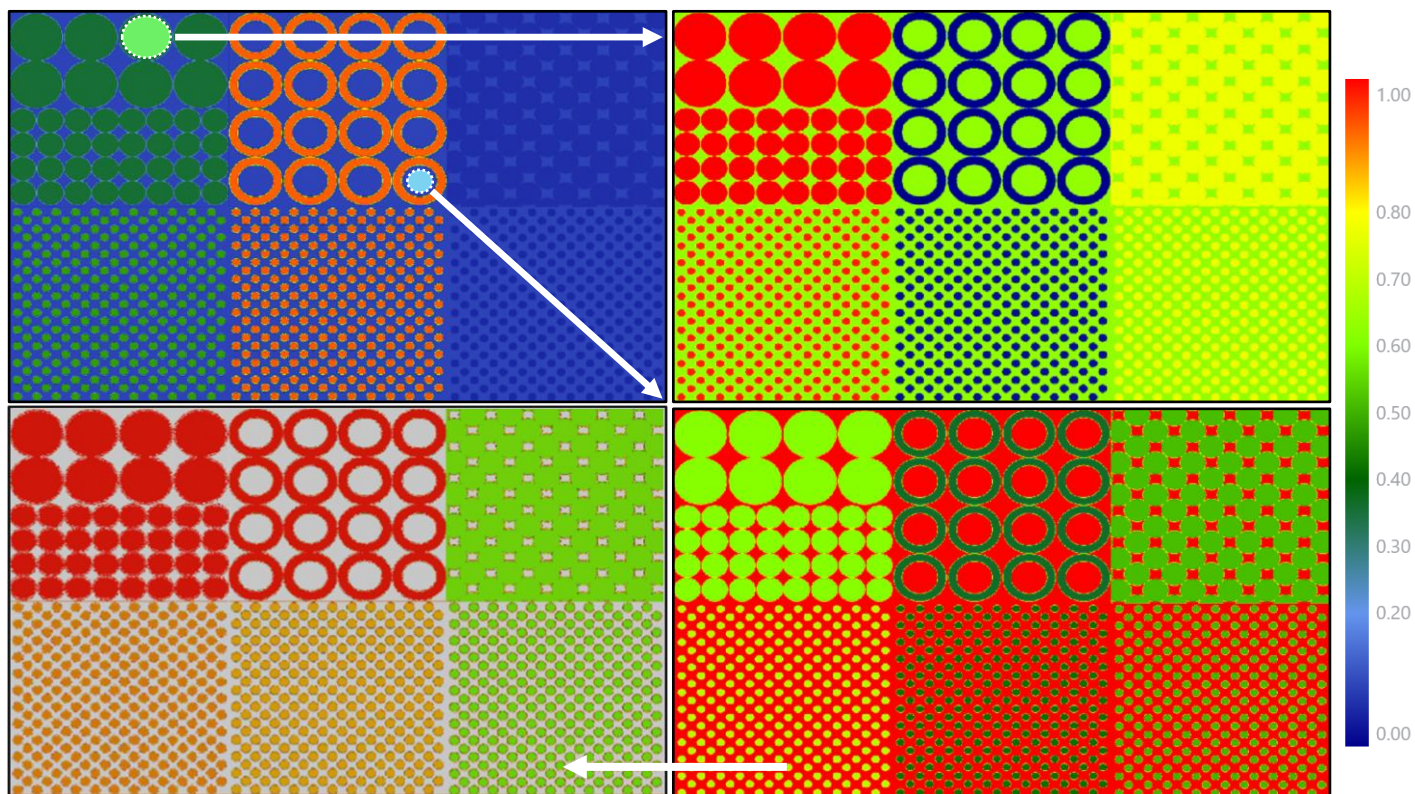- Import of Image or Standard files

Highly visual and interactive preprocessing to preview effects prior to analysis

Why Do You Need ImaJerI?

- Image correlation of source data with interactive plotting and data analysis.

- Full object as opposed to sparse Principal Component Analysis of your data.

- Randomised PCA for fast data approximation of very large data sets.

- Image PLS-DA for class modelling and classification.

- Two - click Data Regeneration and Image Projection.

- Direct integration into VEKTOR DIREKTOR multivariate data analysis software.

- Easiest to learn Hyperspectral Image Analysis software on the market.

- Simple and powerful feature masking tool.

- RGB image data slider controls.
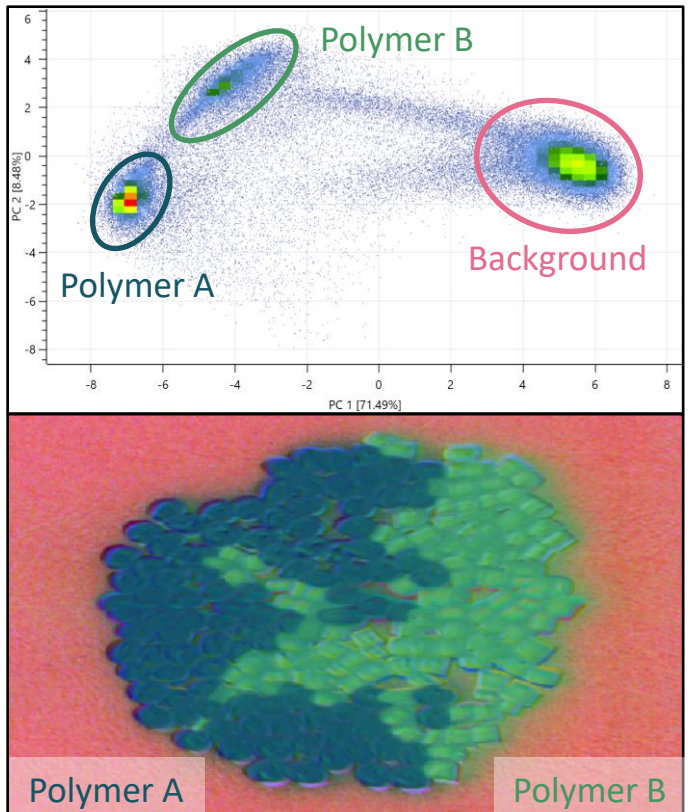
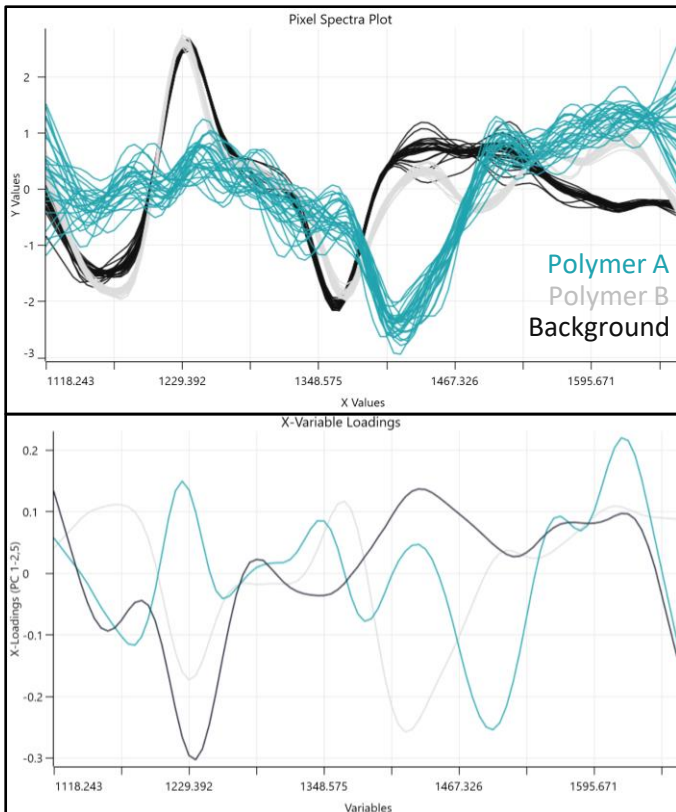- Compatible with all common image file types.

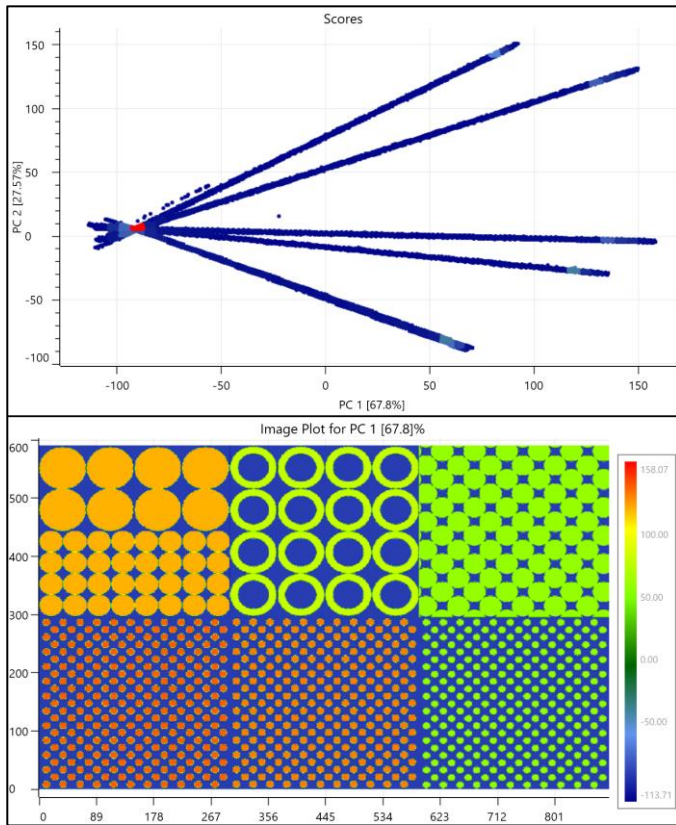# Image Correlation

Easy masking of features for targeted analyses

Polymer A   Polymer B
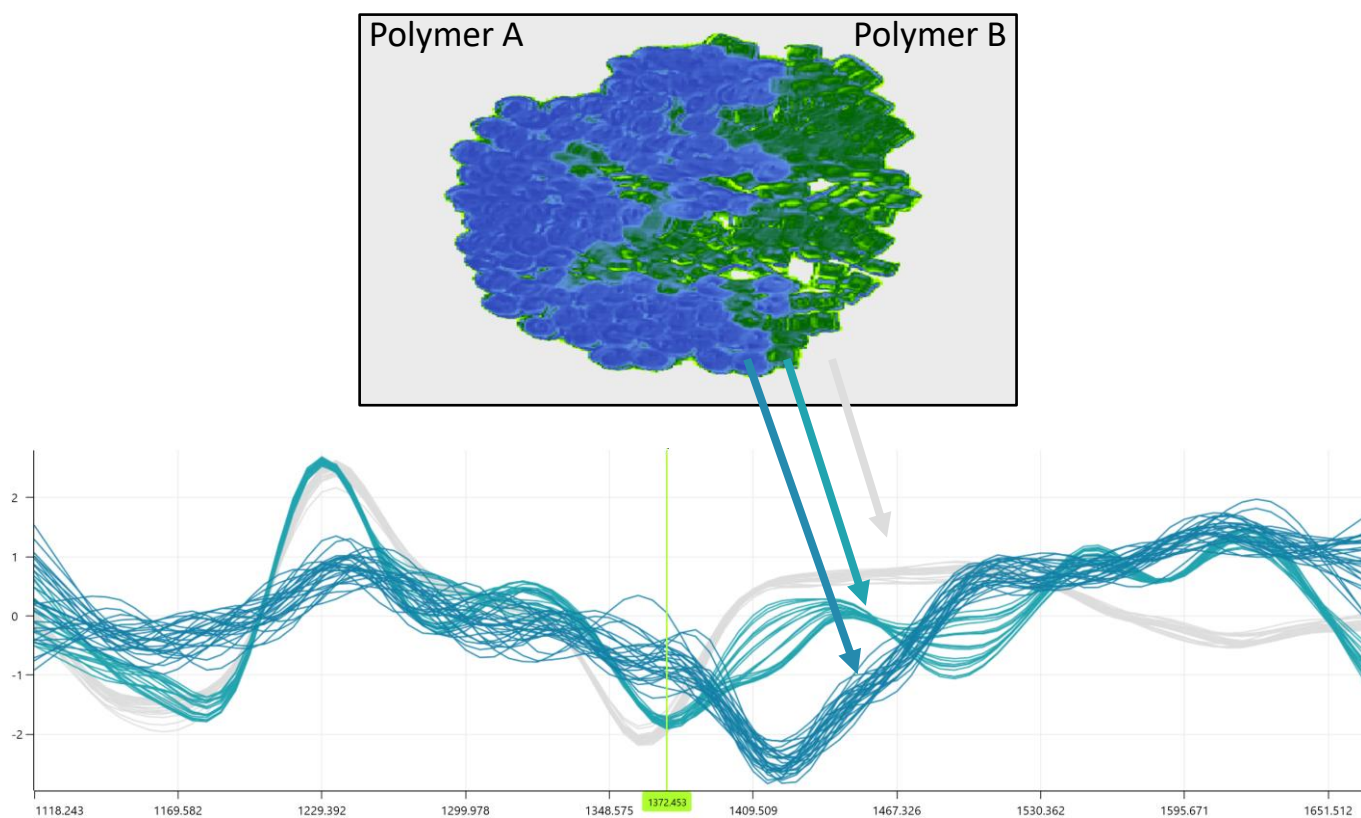
Correlate spectral regions to image features

Image PCA

Mask out unwanted noise to perform PCA on the most important objects
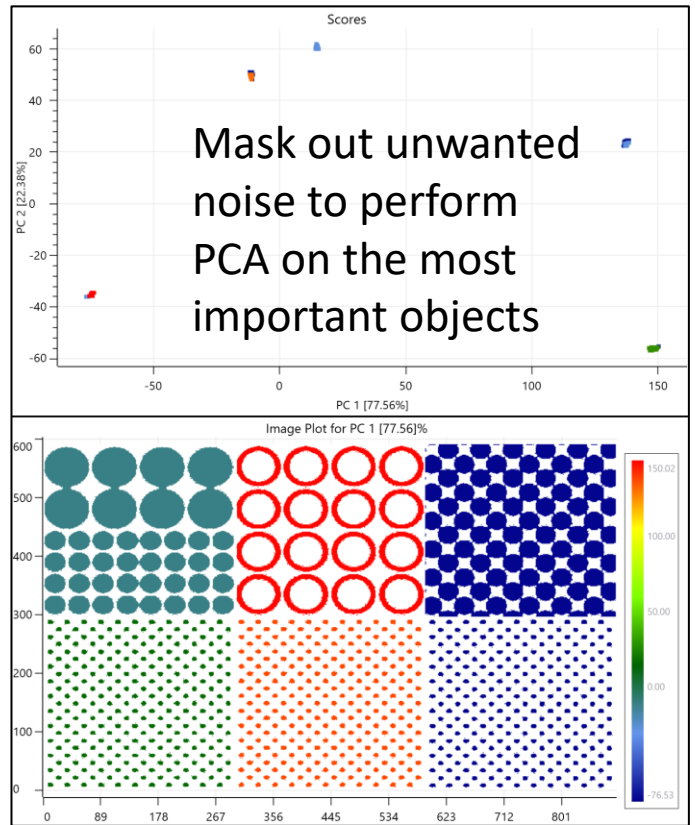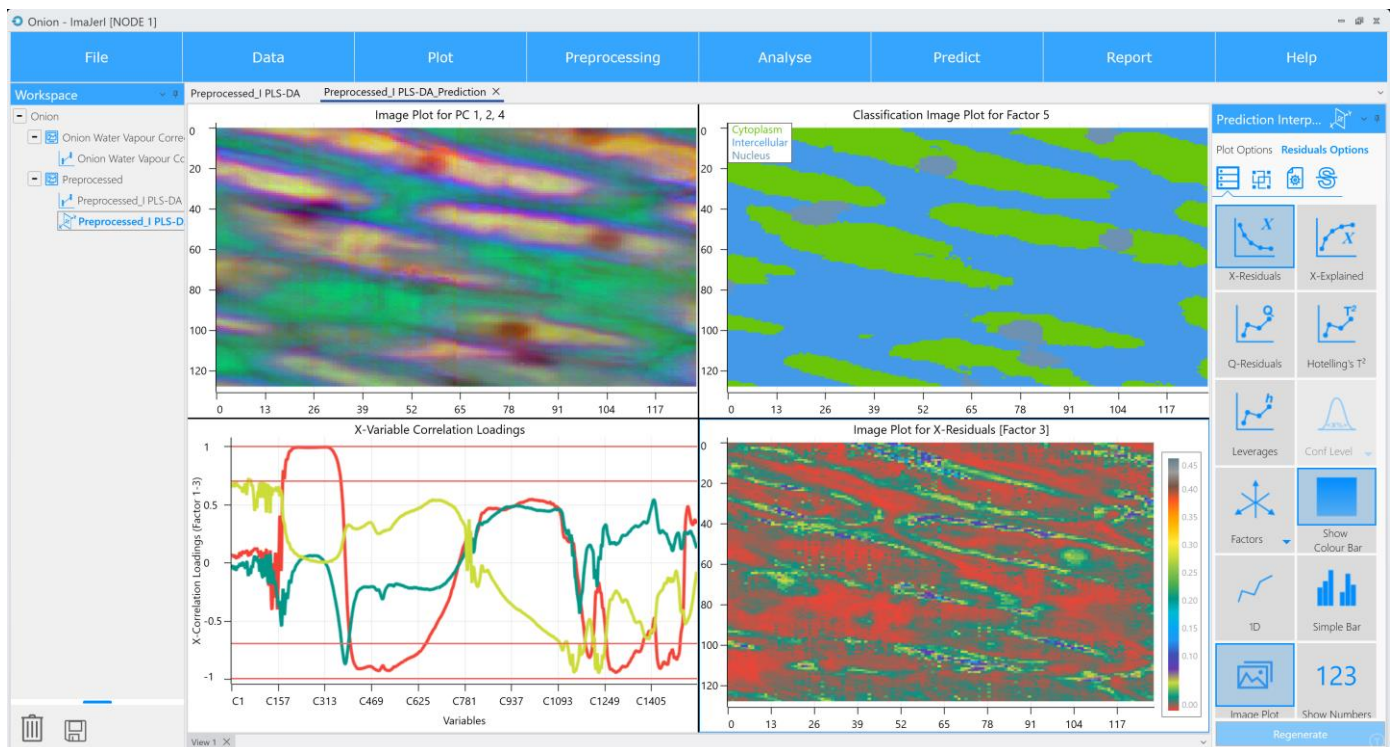

Full object PCA to model and understand spectral image features
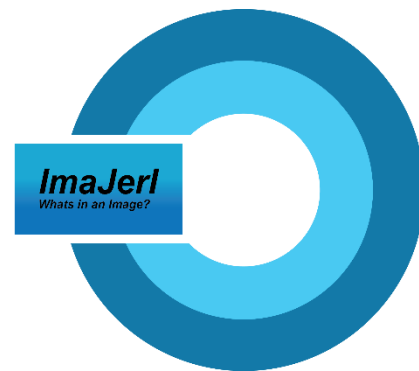
Image PLS-DA
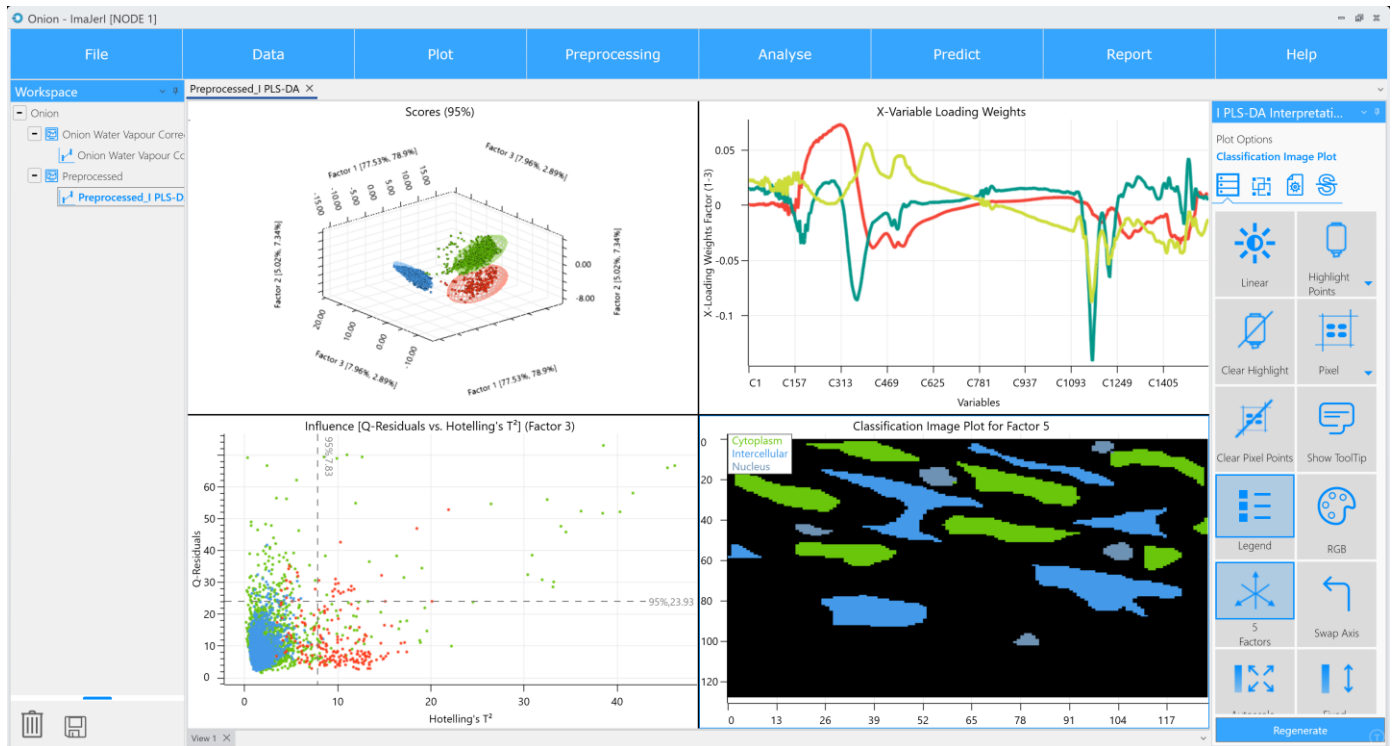
Generate Partial Least Squares-Discriminant Analysis models of
your Image data based on Classes you select.

Classify new data using your model and visualise the results along
with the interpretation tools of PLS-DA.

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What's in an Image?

System Requirements and Features

Supported Operating Systems	Windows 10 and 11 preferred (64 bit operating systems).
Memory	16 GB minimum
Processor Specification	Intel i7. i9 and Xeon minimum
Hard Disk Space	1 GB minimum
Security	Windows Authentication, VEKTOR VAULT (optional)
Data Imports	.envi, .jpg, .jpeg, .png, .btm, .gif, .tif, .spc (grams), .ascii, .xlsx, .mat
Security	Windows Authentication with Administrator, Developer and Opera- tor levels of access.
Data Visualisation	Bubble, Column, Heat map, Histogram, Image, Line, 2D and 3D scatter, 3D Surface, RGB, Selector, Masking, Pixel plot and Residual Imaging
Analysis	Image Correlation Image Principal Component Analysis (I-PCA) with projection Image Partial least Squares-Discriminant Analysis with classification

KAX Group

Multivariate Analysis with Direction and Purpose

www.kax.group

info@kaxgrp.com