

WHAT'S NEW IN INFORM 2.6?

inForm software allows image analysis of Akoya Biosciences imagery taken with Mantra, Vectra 3, or Vectra Polaris, along with standard image formats such as .tif, .jpg, and .png images.

Below, we've highlighted the new features of inForm 2.6:

- Custom composite views
- Composite legend
- Exporting with composites
- Multiple Phenotyping Schemas per project

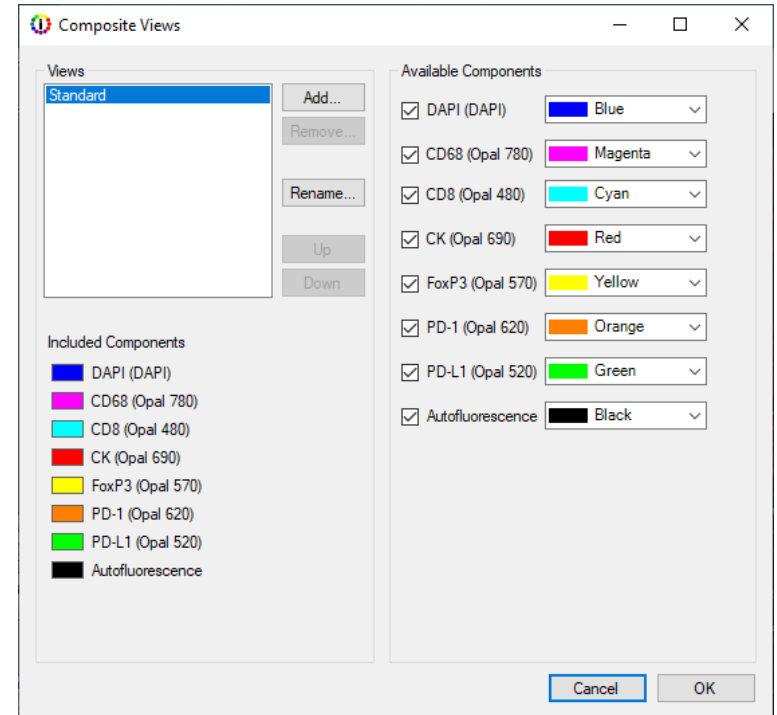
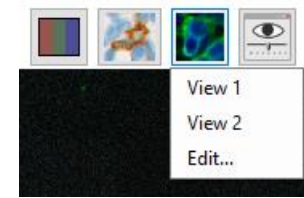


CUSTOM COMPOSITE VIEWS

Customize how your composite views look in inForm. The composite editor allows you to toggle between multiple customized composites.

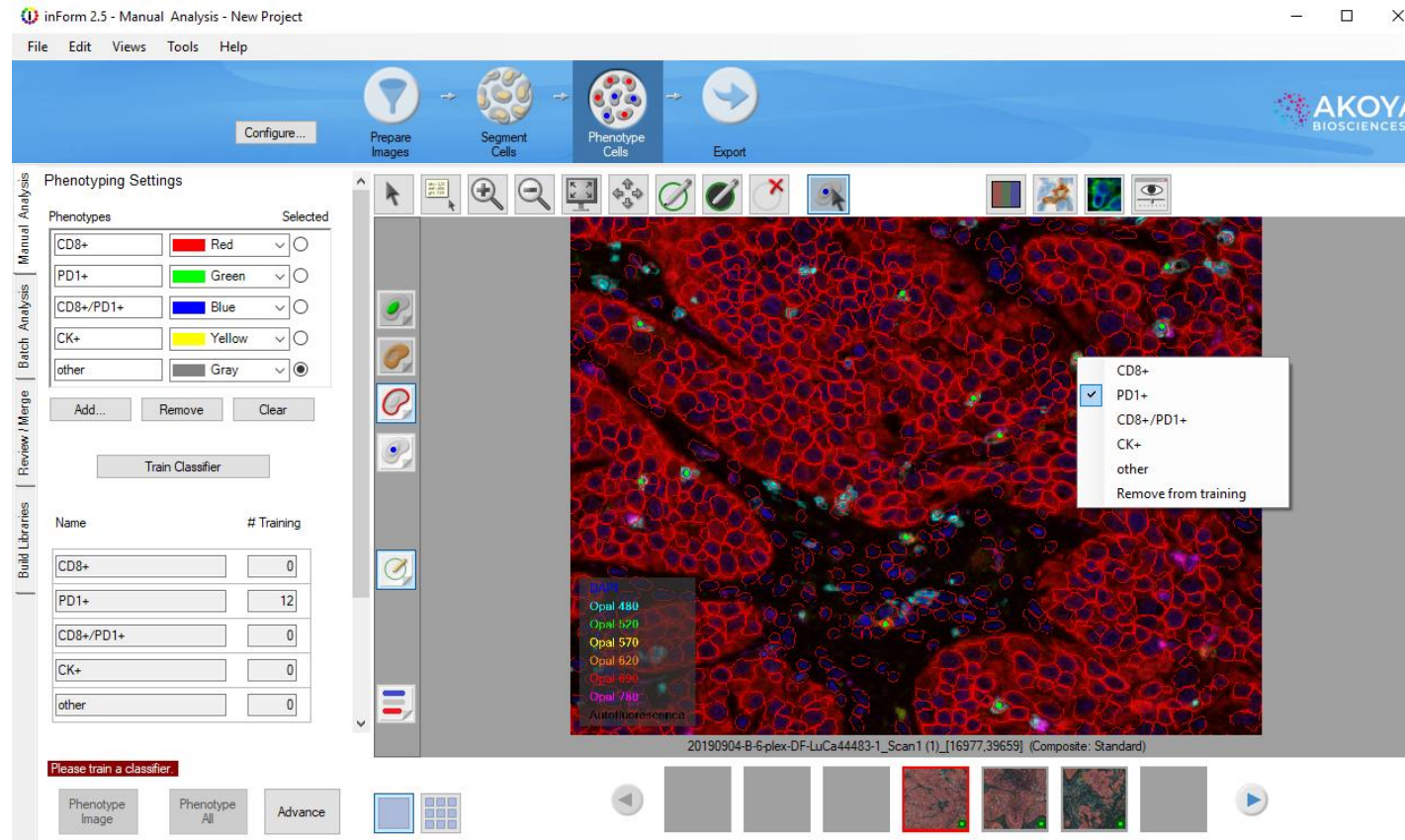
Select 'Edit...' from the composite button dropdown to bring up the Composite Views Editor.

- Add new views using the 'Add..' Button
- Select components and colors for the currently selected view.
- Prioritize where these views are listed in the dropdown using the Up and Down buttons



COMPOSITE LEGEND

Composite imagery has an optional legend to display. Use the layer toolbar to turn the legend  on and off.



The screenshot displays the inForm 2.5 Manual Analysis software interface. The main window is titled "inForm 2.5 - Manual Analysis - New Project" and features a menu bar (File, Edit, Views, Tools, Help) and a toolbar with icons for "Configure...", "Prepare Images", "Segment Cells", "Phenotype Cells", and "Export". The "Phenotyping Settings" panel is open, showing a list of phenotypes and their corresponding colors:

Phenotypes	Color	Selected
CD8+	Red	<input type="checkbox"/>
PD1+	Green	<input type="checkbox"/>
CD8+/PD1+	Blue	<input type="checkbox"/>
CK+	Yellow	<input type="checkbox"/>
other	Gray	<input checked="" type="checkbox"/>

Below the phenotype list are buttons for "Add...", "Remove", and "Clear", and a "Train Classifier" button. A table shows the training status for each phenotype:

Name	# Training
CD8+	0
PD1+	12
CD8+/PD1+	0
CK+	0
other	0

The main image area shows a composite fluorescence image of cells. A legend is overlaid on the image, listing the phenotypes and their colors: CD8+ (Red), PD1+ (Green), CD8+/PD1+ (Blue), CK+ (Yellow), and other (Gray). The legend is currently visible, as indicated by the checked box next to the legend icon in the toolbar. A red banner at the bottom of the software interface reads "Please train a classifier."

EXPORTING WITH COMPOSITES

Segmentation, Phenotyping, and Scoring Maps all export on the currently active composite image.

Composites are exported as a multi-image TIFF.

When exporting the composite image, you can include or omit the legend using the Legend drop down.

Export Settings

Export Directory
C:\

Image export options

Image Output Format:

Images to export:

- RGB
- Composite with Tissue Segmentation Map
- Composite with Cell Segmentation Map
- Composite with Phenotype Map *
- Composite with Scoring Map
- Composite with All Segmentation Maps
- Composite Image *

Legend:

- Pathology Views
- Component Images *

Maps to export:


- Segmentation Maps *
- Phenotype Map *

* multi-image TIFF file

Tables To Export

- Tissue Segmentation Data
- Cell Segmentation Data
- Score Data

Table Fields To Export

Export all fields Use view settings 

File name options

In case of file name conflict:

- Overwrite existing files
- Rename new files

Directory Structure:

Copy level(s) of directory structure from source image

MULTIPLE PHENOTYPING SCHEMAS

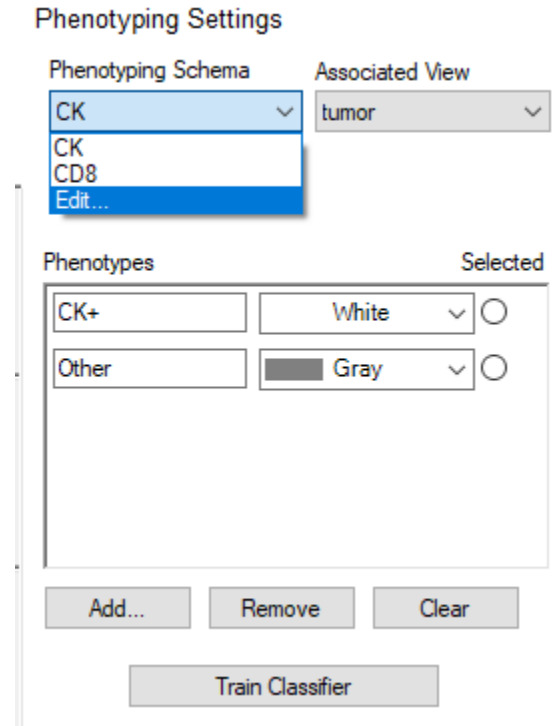
You can train multiple classifiers in the Phenotyping step. This is helpful when phenotyping cells as “double positive” or “triple positive” to improve phenotyping accuracy.

Each classifier is described by a phenotyping schema and an associated composite view.

Select Edit... in the Phenotyping Schema drop-down to create, update or delete schemas.

Select a Schema to associate a composite view, add and remove phenotypes, and train a classifier.

Phenotyping maps are exported as a multi-image tiff, one image per schema.



The screenshot shows the 'Phenotyping Settings' window. It features two dropdown menus at the top: 'Phenotyping Schema' (currently set to 'CK') and 'Associated View' (currently set to 'tumor'). Below these is a table with two columns: 'Phenotypes' and 'Selected'. The table contains two rows: 'CK+' with a 'White' color swatch and an unselected radio button, and 'Other' with a 'Gray' color swatch and an unselected radio button. At the bottom of the window are three buttons: 'Add...', 'Remove', and 'Clear', followed by a larger 'Train Classifier' button.

Phenotypes	Selected
CK+	White <input type="radio"/>
Other	Gray <input type="radio"/>