MetaXpress® 6 Software Guide

Custom Module Editor Overview

Date Revised 07/09/15 Version B

MOLECULAR DEVICES
UNLEASH YOUR BRILLIANCE™

Chapter Purpose

The purpose of this chapter is to provide an overview of the **Custom Module Editor** (CME) analysis plugin.

CME is an analysis plugin that enables users to go beyond the standard **Application Modules** available in MetaXpress (i.e. Cell Cycle, Count Nuclei, etc.) to build a custom analysis routine from a suite of image processing tools.

Examples of custom modules include removing image artifacts, counting cells in transmitted light, multiplexing application modules, measuring objects within objects, and many more.

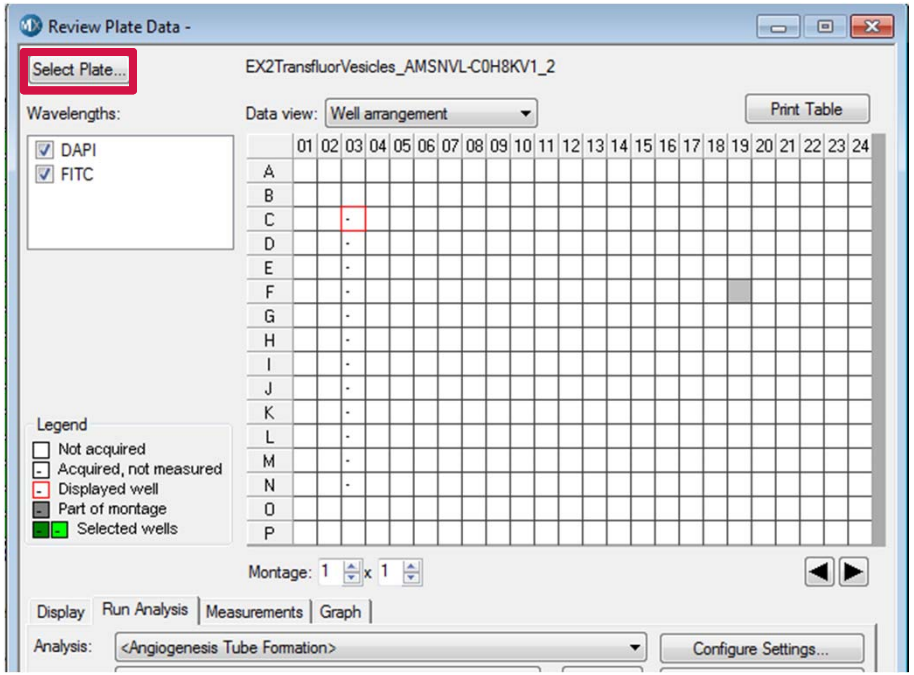
Working With CME

1. Open **Review Plata Data**

   - In the main toolbar click on

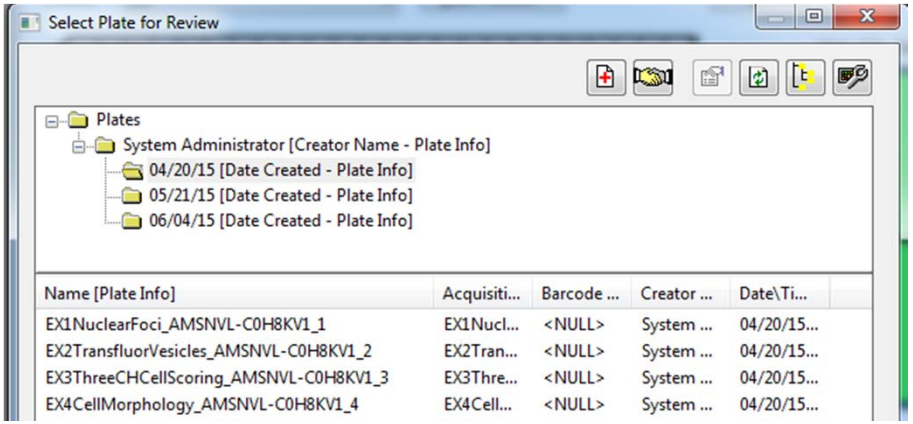
OR

   - Under the **Screening** menu, select **Review Plate Data**

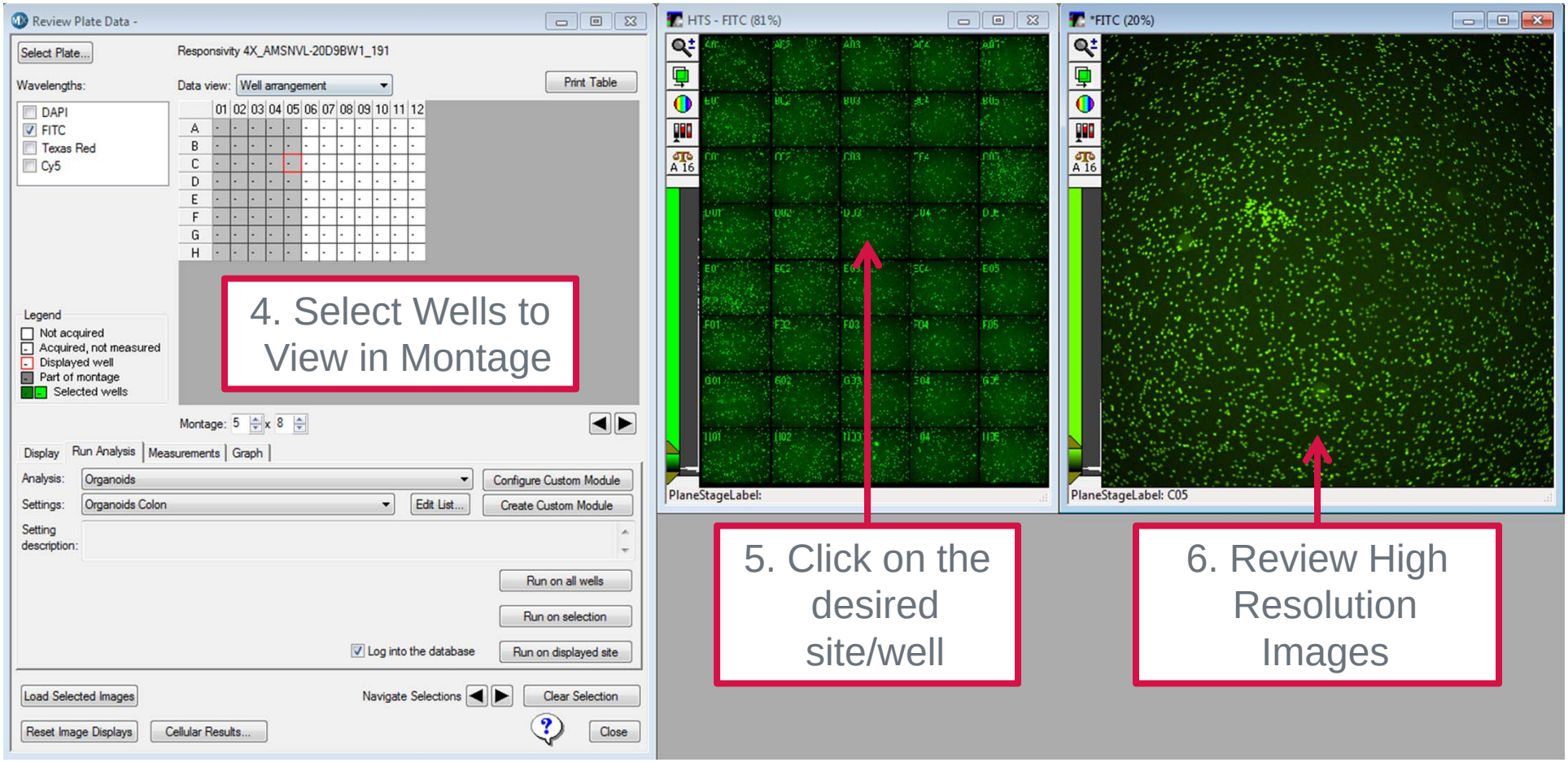


2. Click on the **Select Plate** button

3. Browse through the folders to open the plate of interest



Working With CME



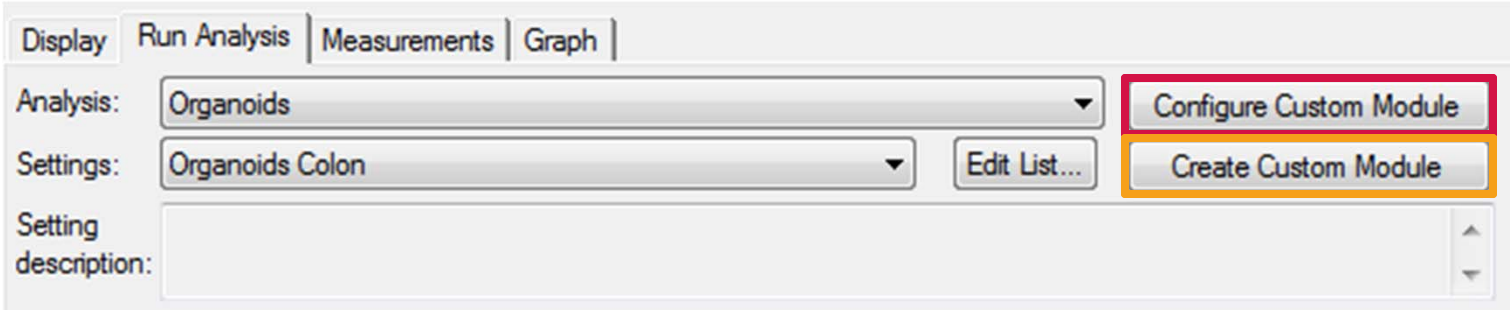
- Molecular Devices suggests when setting up a custom module for the first time to start with an image from a control well
- If modifying an existing custom module, select any appropriate image

Working With CME

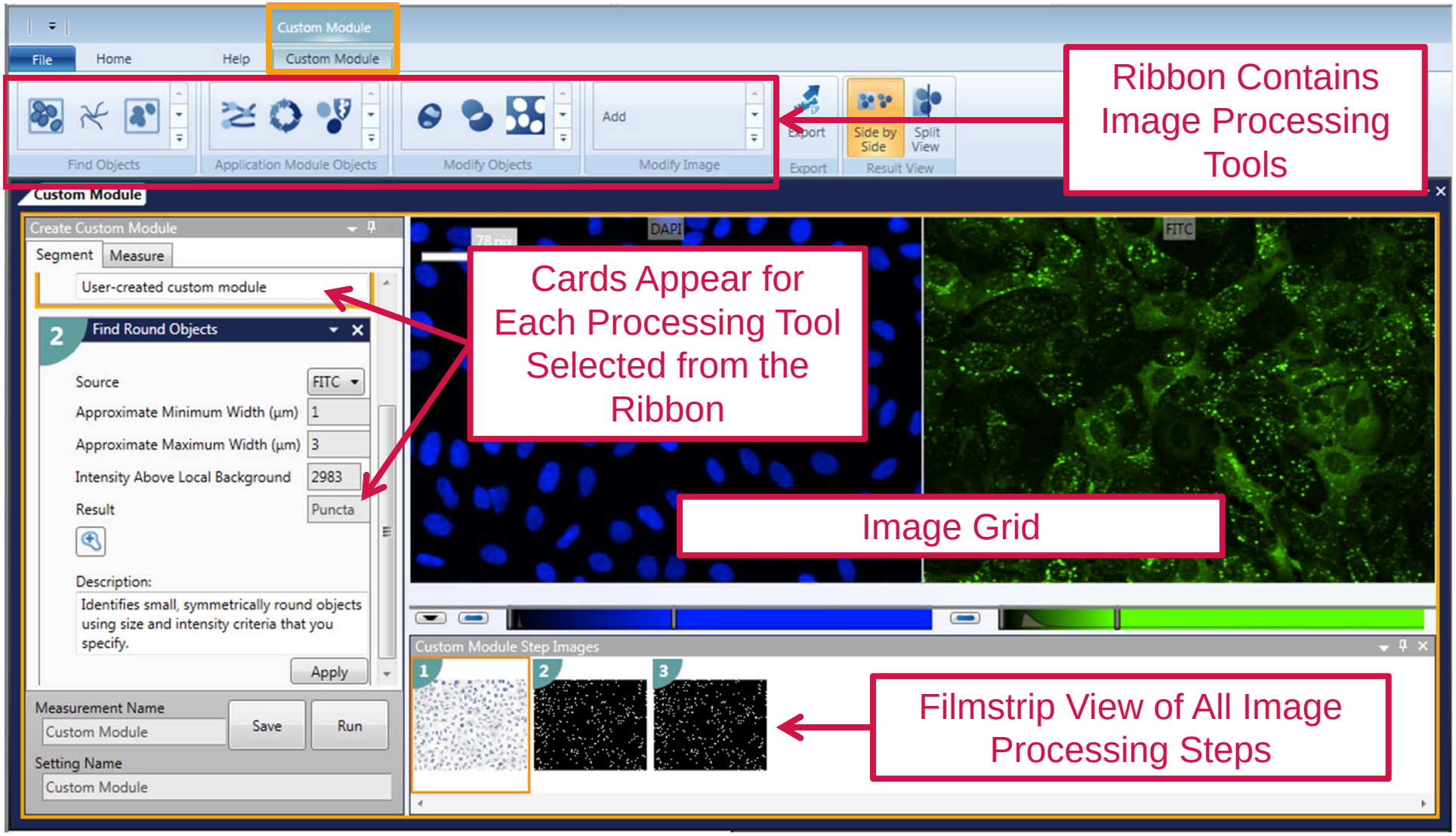
7. Select the **Run Analysis** tab

8. If creating a new module, click on **Create Custom Module**

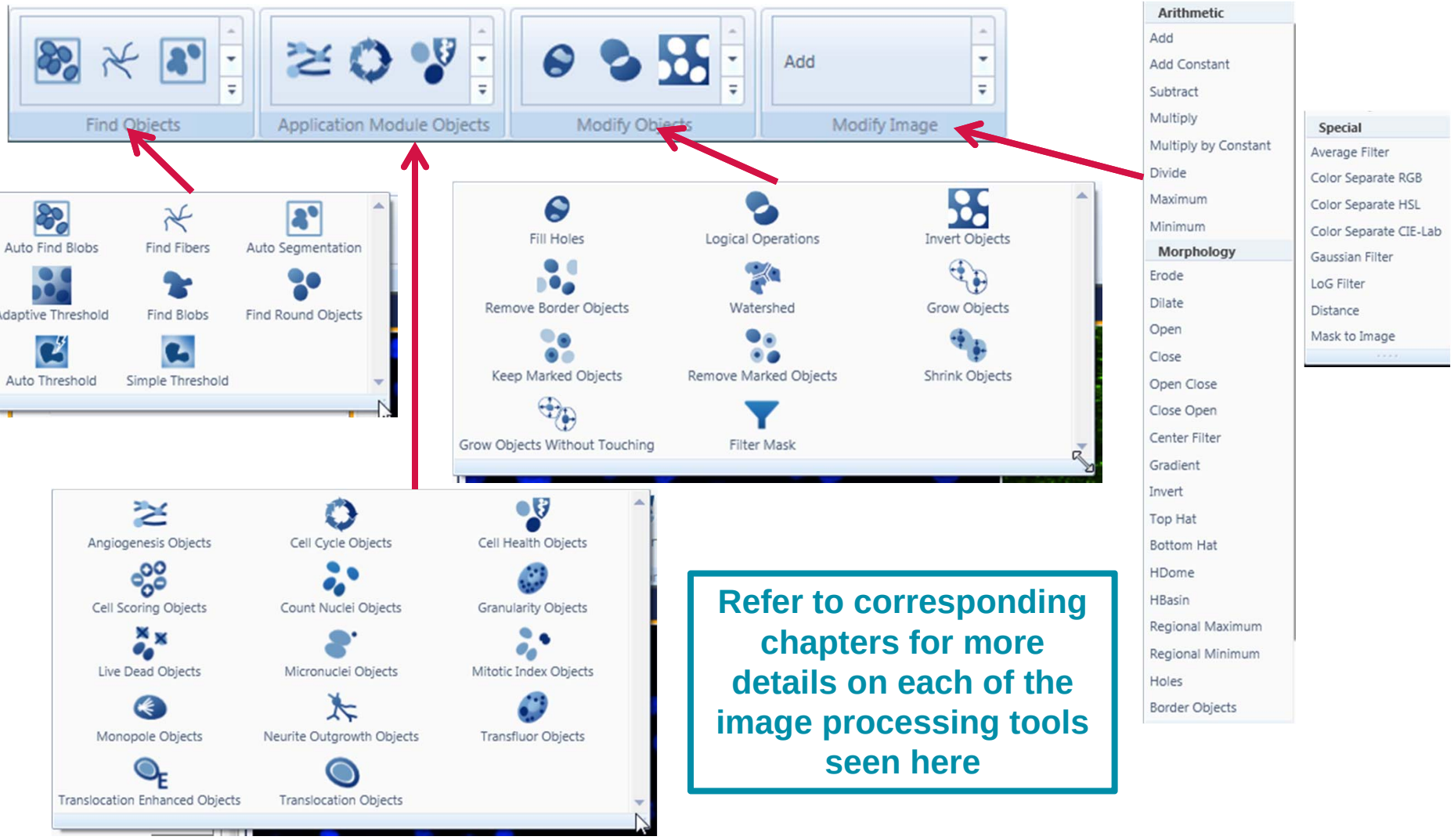
9. If modifying an existing custom module:
   - Select the desired module from the **Analysis** and **Settings** drop-down menus
     - Application modules have <> brackets
     - Custom modules and journals do not
   - Click on **Configure Custom Module**



CME Interface: Custom Module Tab

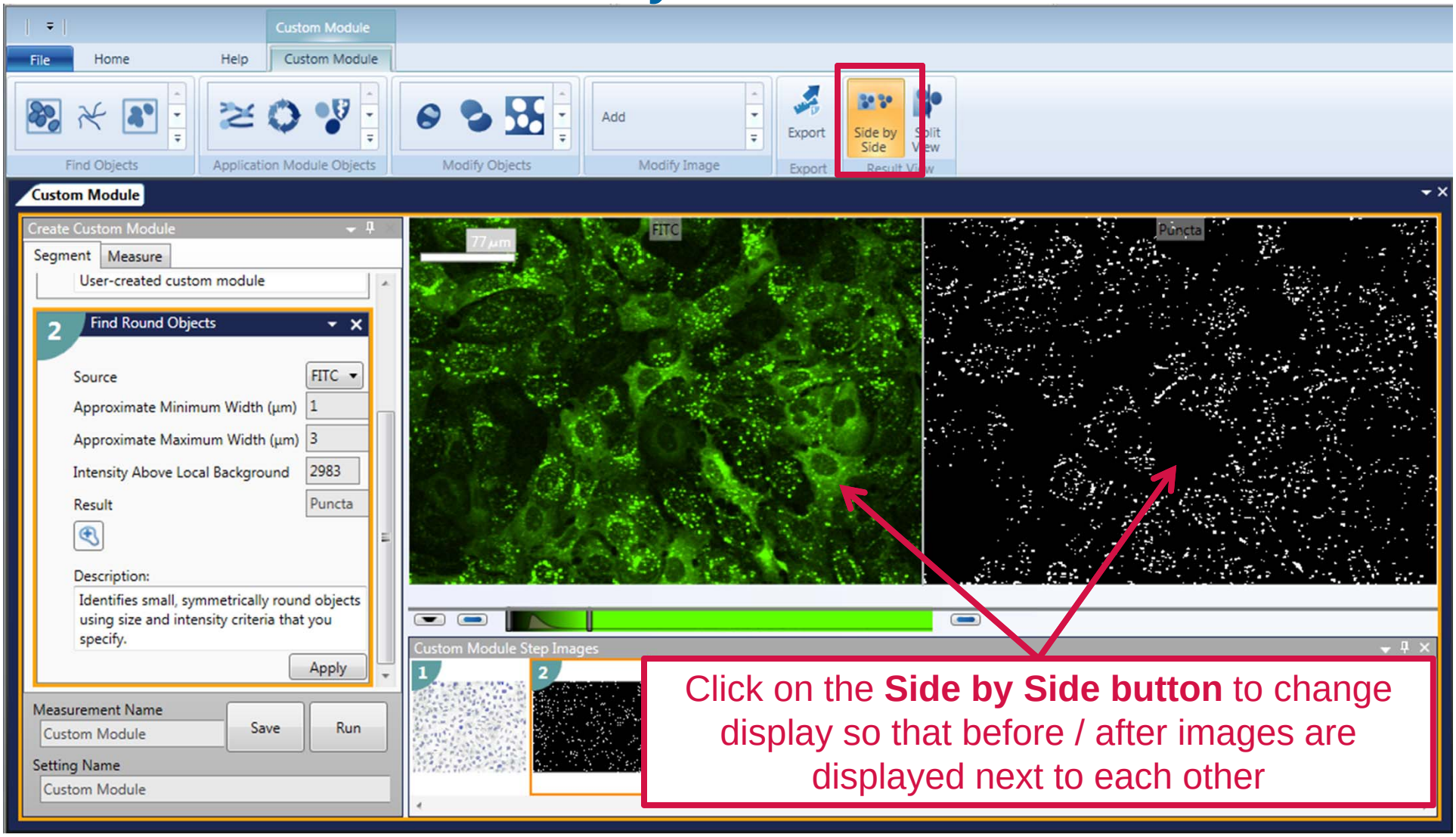


CME Interface: Image Processing Tools

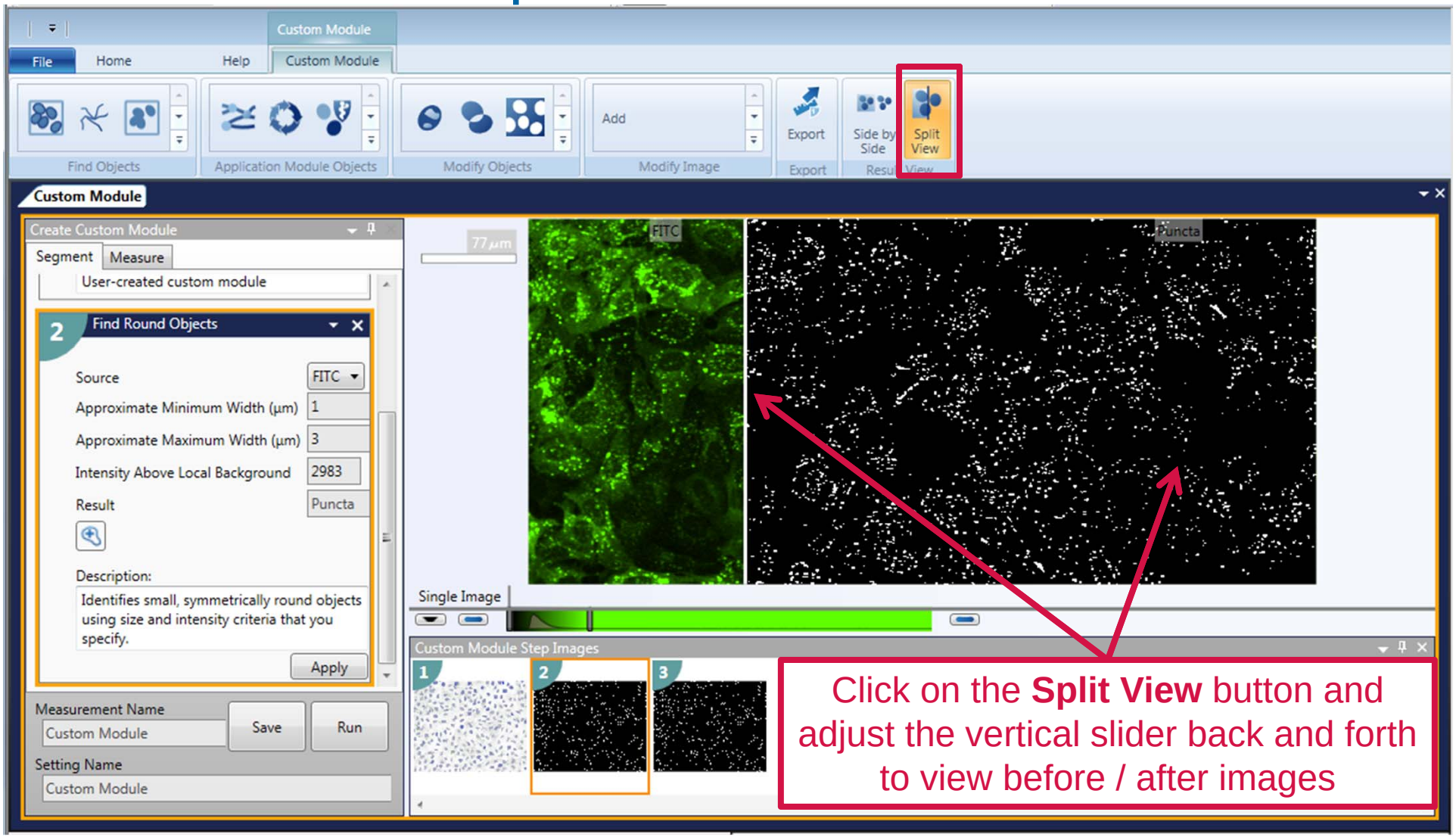


Refer to corresponding chapters for more details on each of the image processing tools seen here

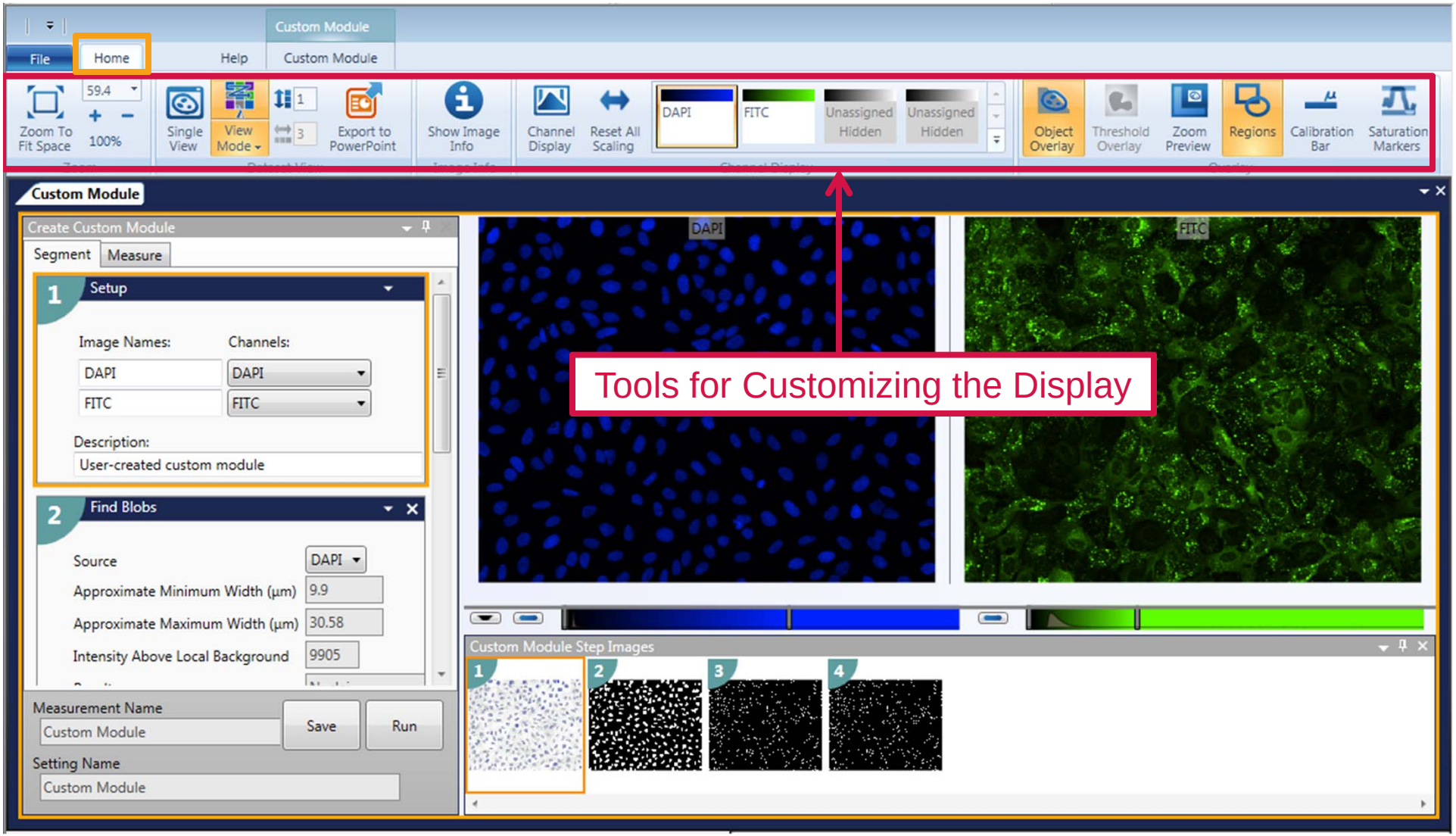
CME Interface: Side by Side View



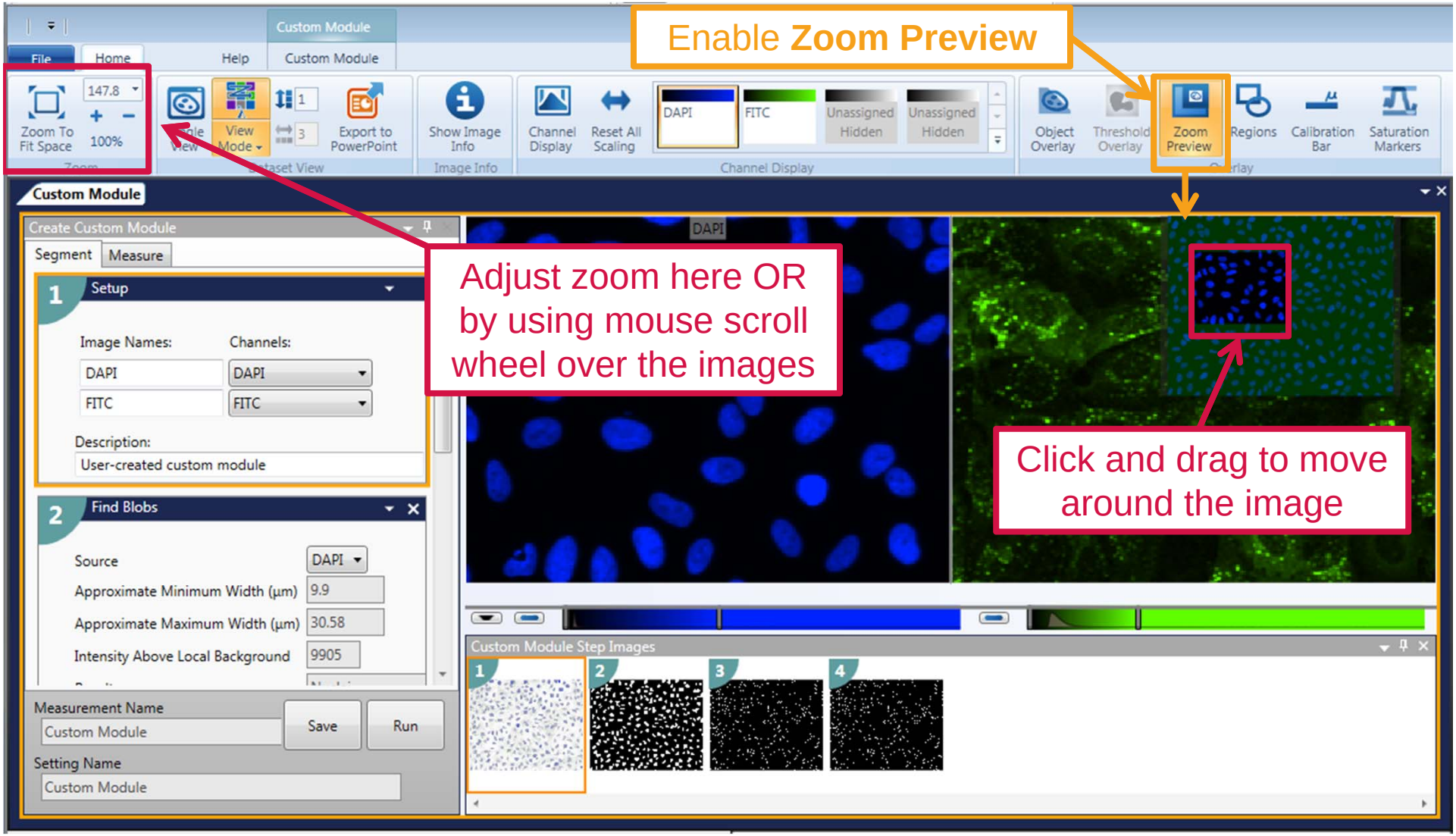
CME Interface: Split View



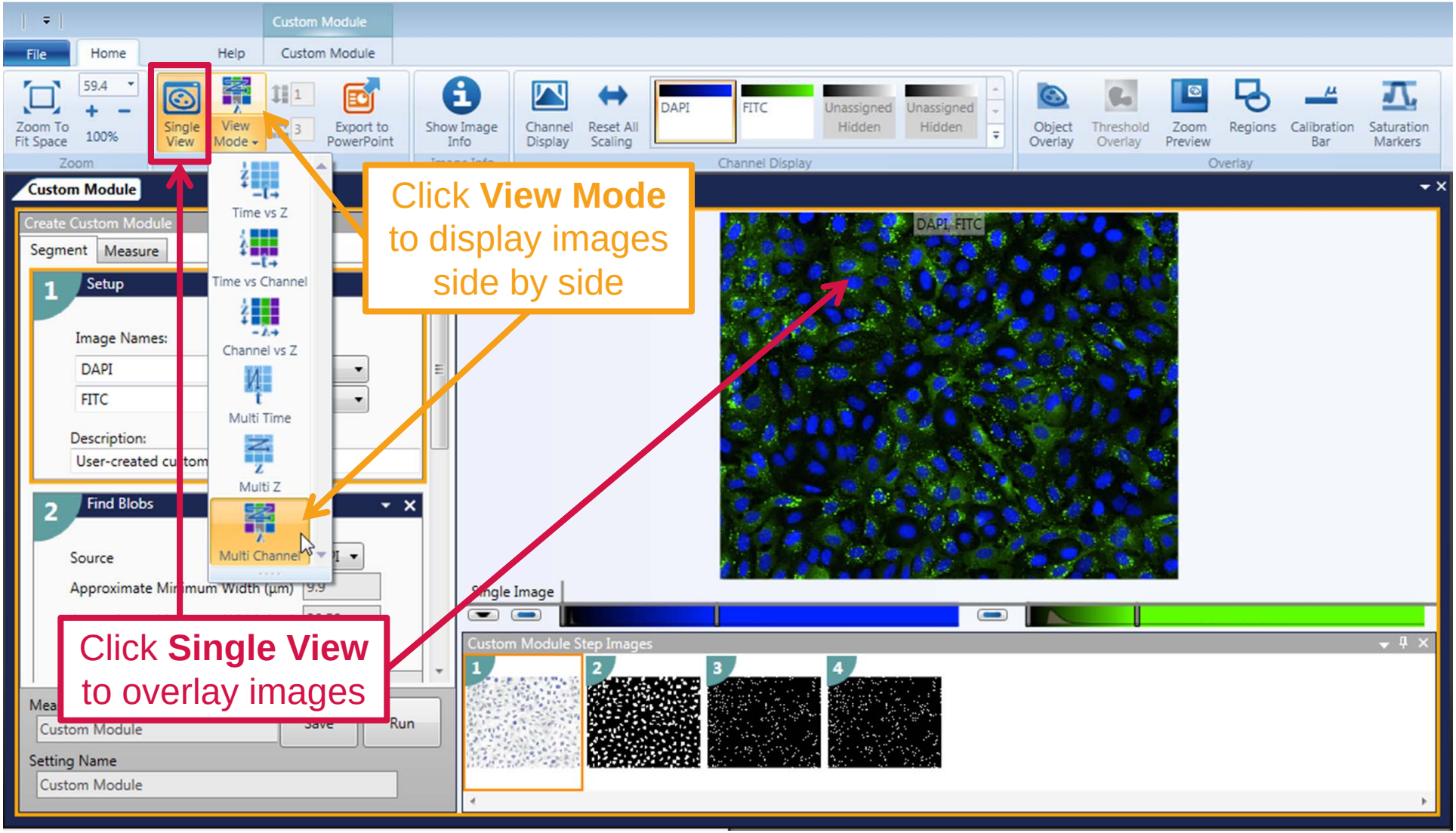
CME Interface: Home Tab



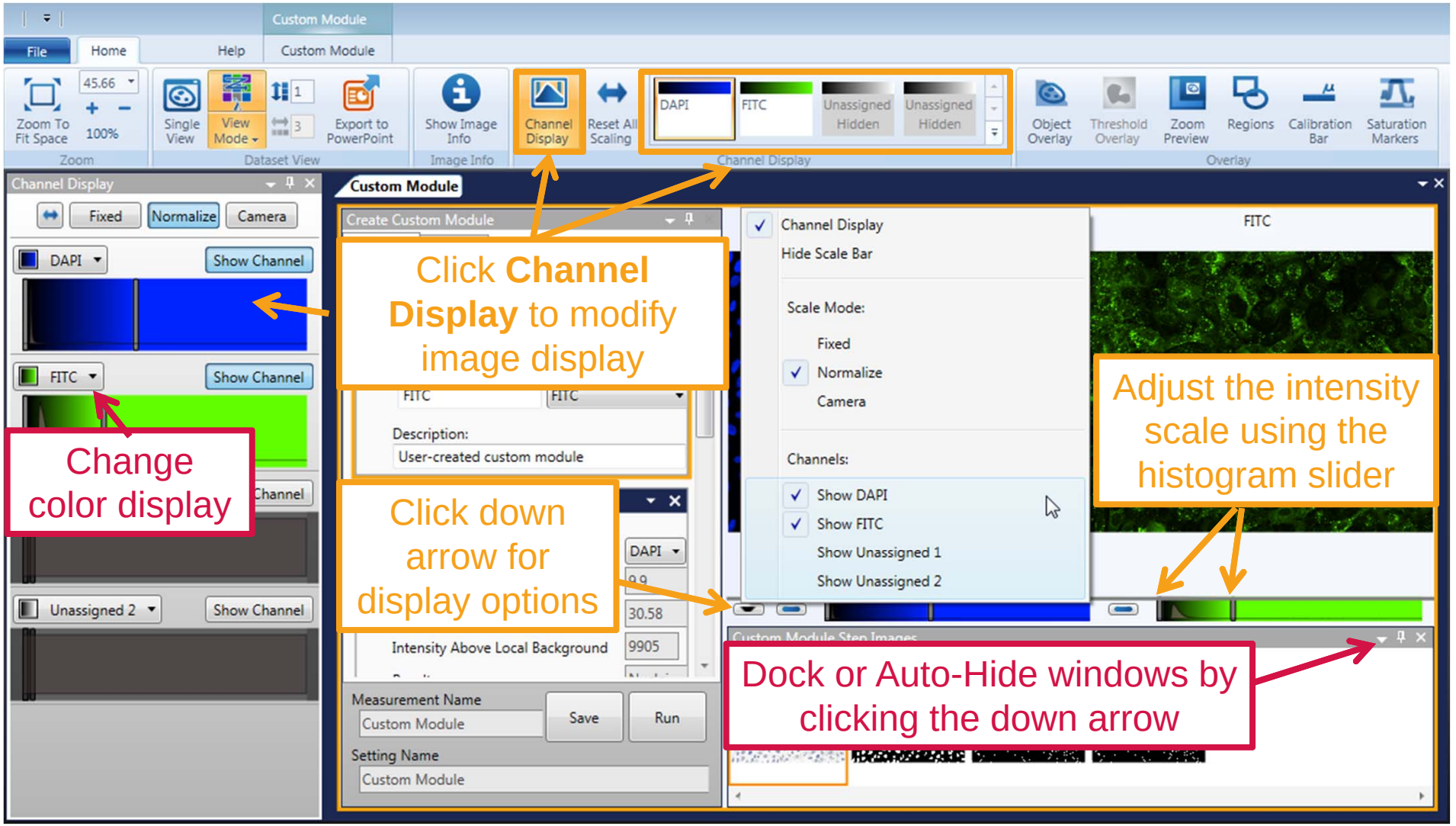
CME Home Tab: Setting and Adjusting Zoom



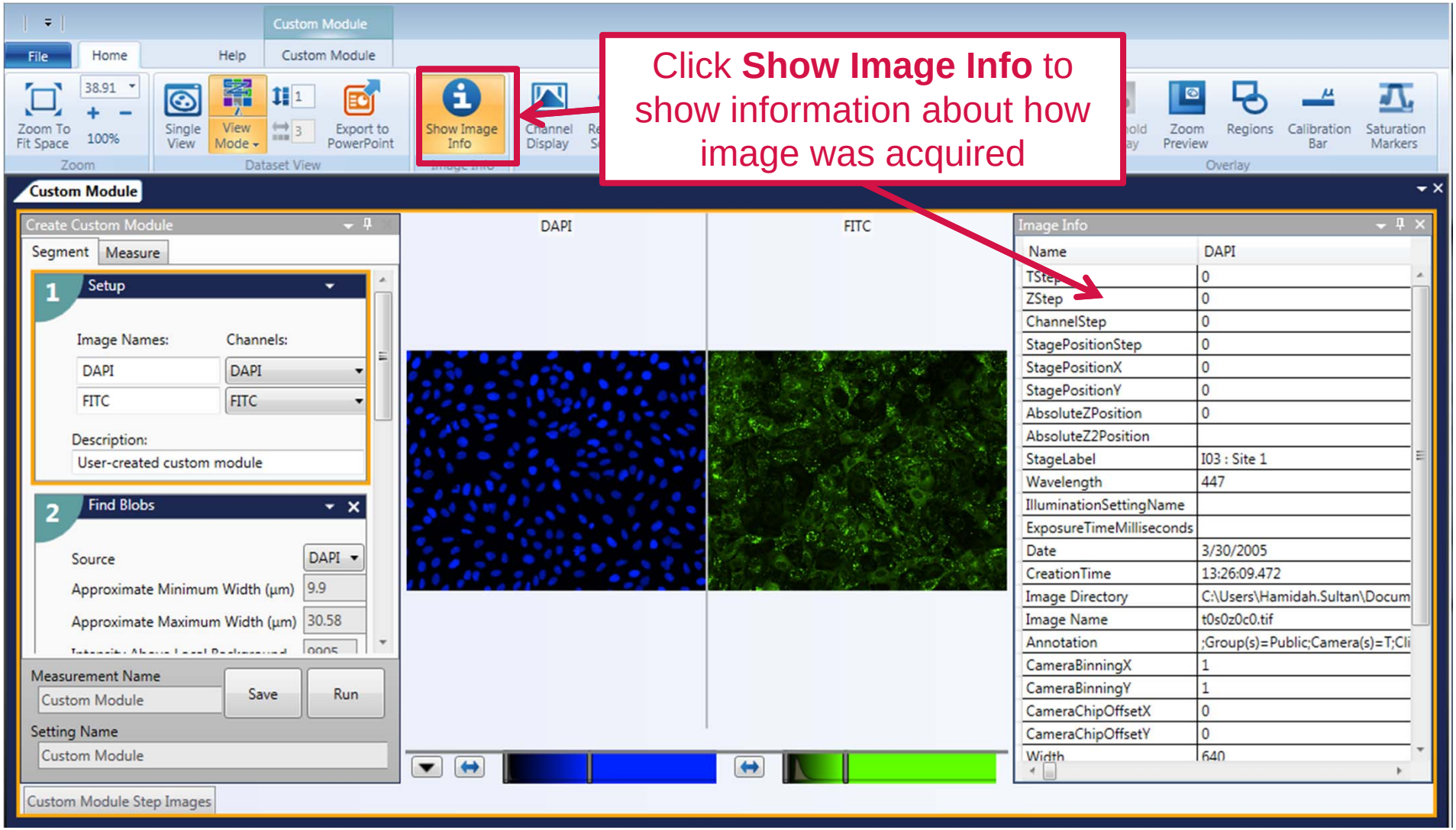
CME Home Tab: Color Overlay



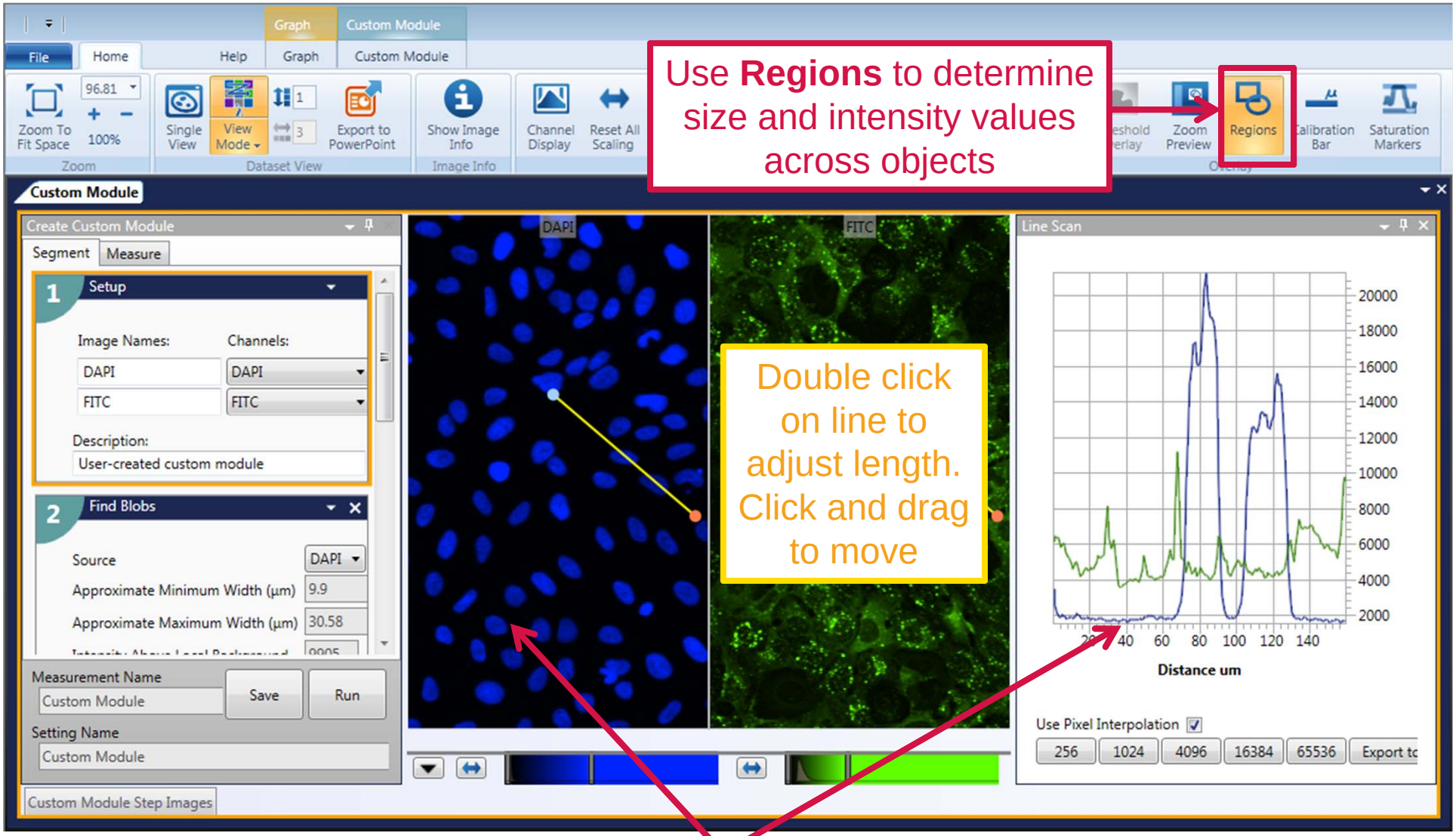
CME Home Tab: Adjusting Image Display



CME Home Tab: Show Image Info

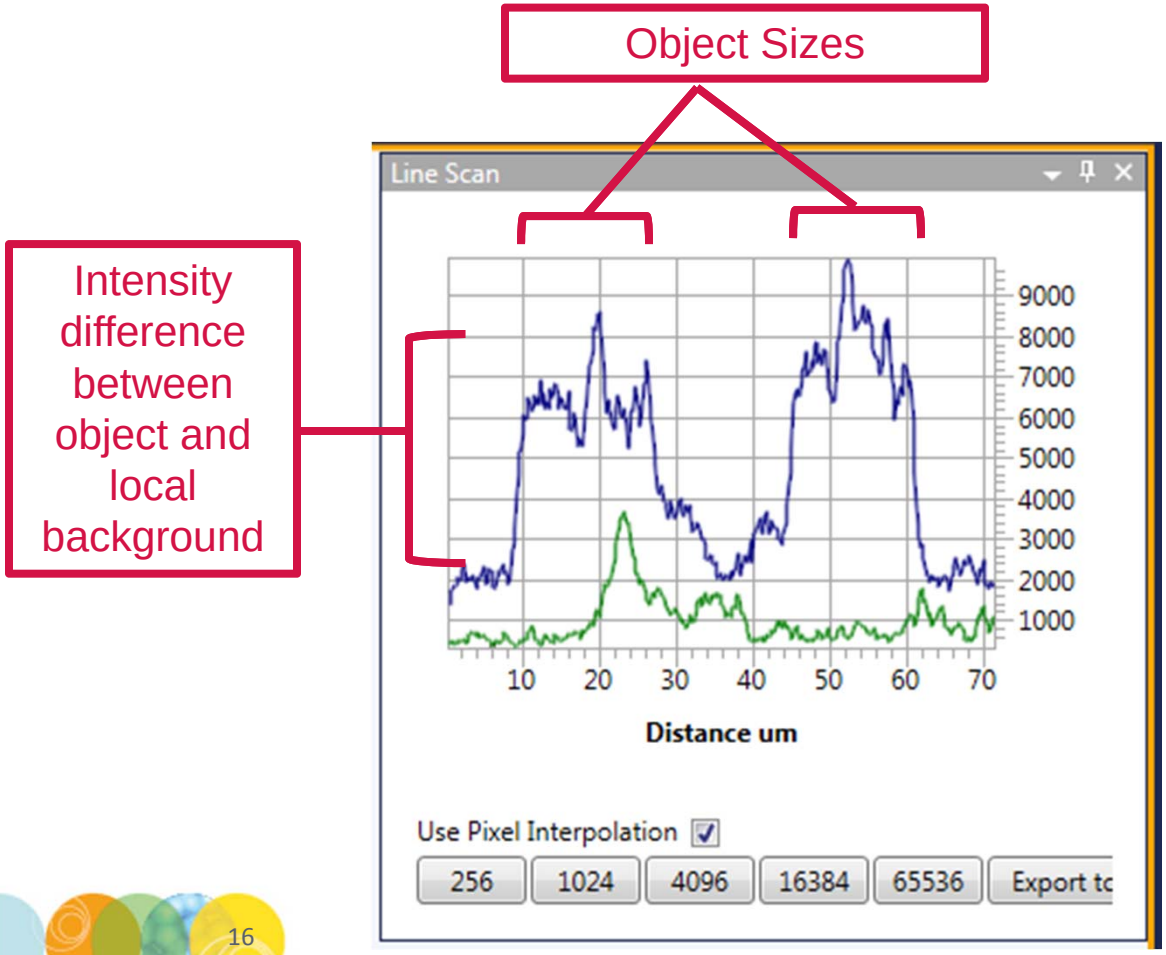


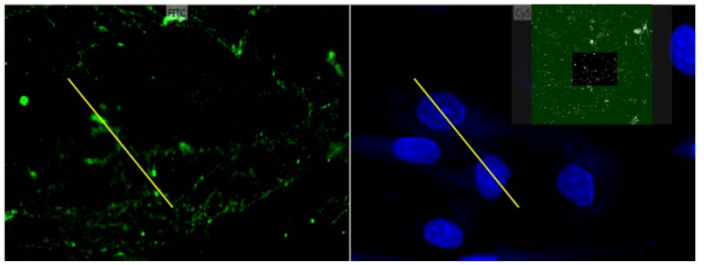
CME Home Tab: Show Line Scan



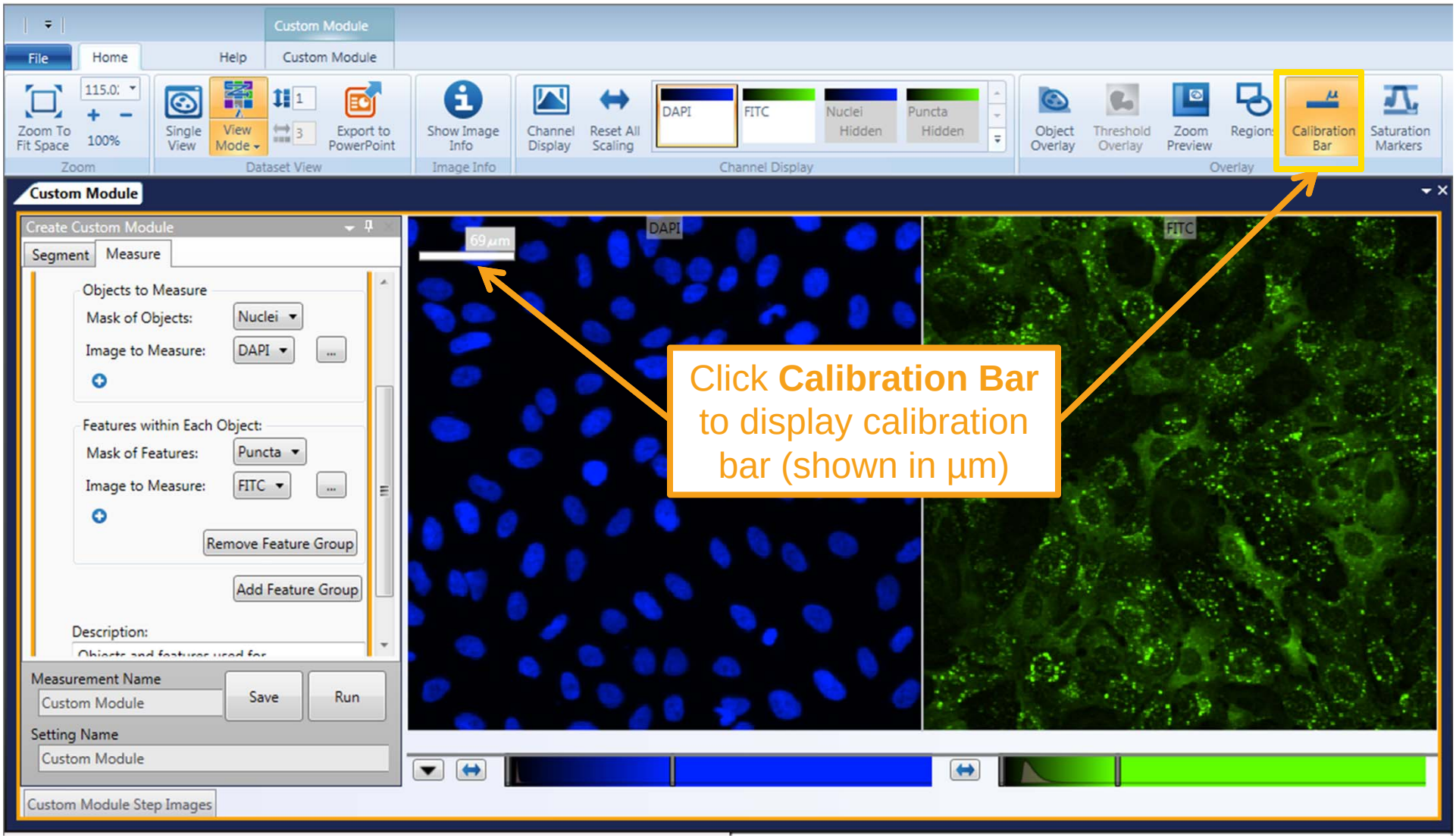
Show Line Scan

- The **Line Scan** graph can be used to determine distances across objects as well as intensity levels
- This useful when setting up step cards that require **Minimum** and **Maximum widths** as well as **Intensity above local background**

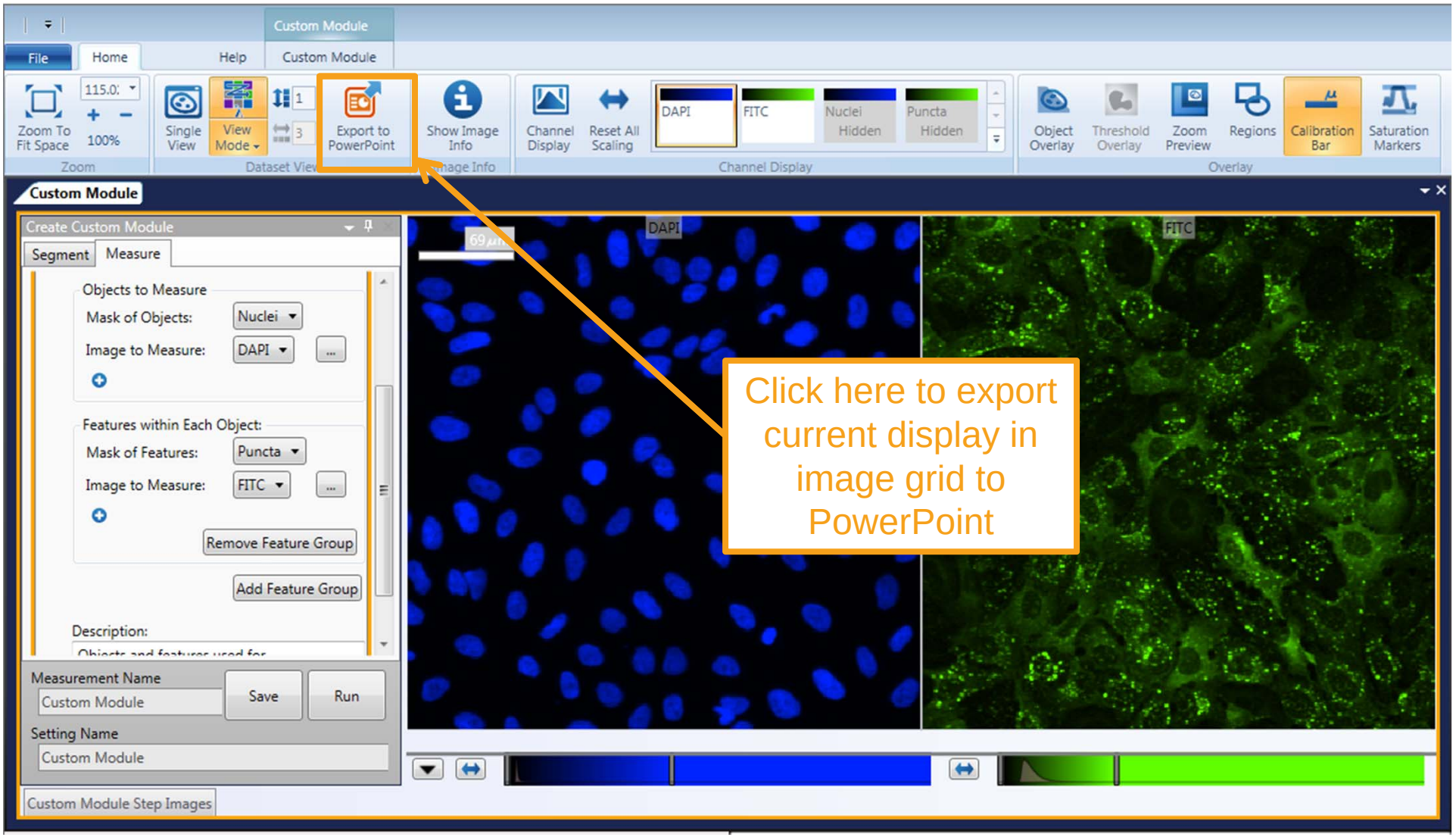




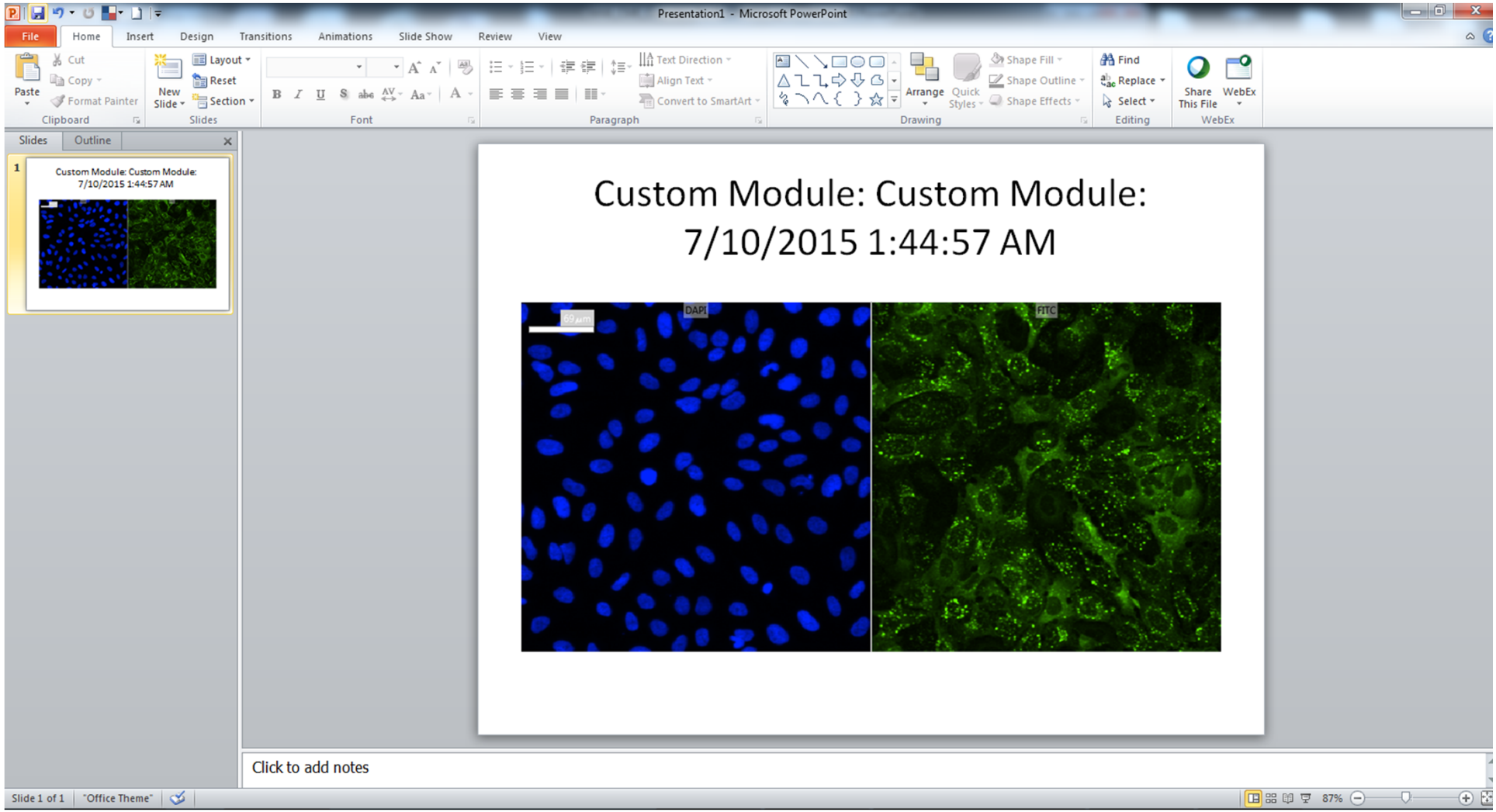
CME Home Tab: Show Calibration Bar



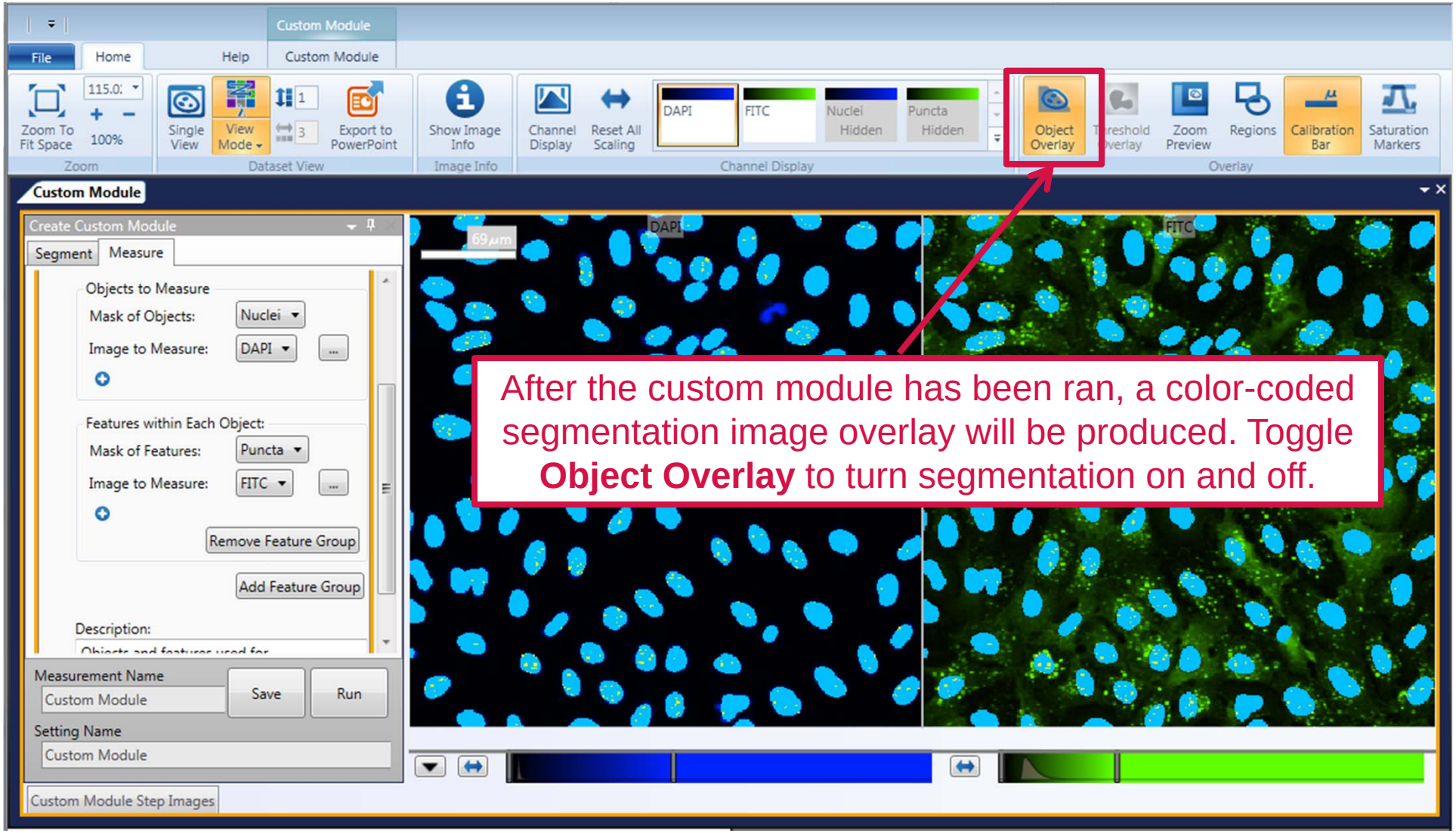
CME Home Tab: Export to PowerPoint



CME Home Tab: Export to PowerPoint



CME Home Tab: Object Overlay



Support Resources

- F1 / HELP within MetaXpress® Software
- Support and Knowledge Base: http://mdc.custhelp.com/
- User Forum: http://metamorph.moleculardevices.com/forum/
- Request Support: http://mdc.custhelp.com/app/ask
- Technical Support can also be reached by telephone:
  - 1 (800) 635-5577
  - Select options for Tech Support → Cellular Imaging Products → ImageXpress Instruments