**Image Deconvolution, 3D Rendering & Analysis Workstation**

The back bench houses our image analysis workstation with licensed software, **Huygens Essential** for image deconvolution and 3D visualization, **Imaris for Core Facilities** for image processing and analysis, and **Image** [**Pro Analyzer 6**](http://bible.logos.com/passage/ESV/Pro%206)**.2**. Free software includes **Leica LAS X**, **Olyvia**, and Fiji.

**Huygens Essential** Quality Control, Image Restoration, & Deconvolution

* Quality Control (QC) Option detects and corrects to most pitfalls.
* Restores Confocal images back to original objects through mathematical de-blurring and de-noising automatically.
* It enhances image resolution and signal/noise ratio, and removes noise background for both stacked and/or time-lapse images.
* Deconvolution Express providing four auto deconvolution without setting up parameters in Deconvolution Wizards for each channel.
* Batch Express watches every image file just saved in a preset file folder, does automatic Deconvolution Express and exporting to another preset file folder.
* Three options of 3D rendering for easy, efficient and realistic 3D visualization by Surface Rendering, Max Intensity Projection, and Simulated Fluorescence Projection.
* GPU acceleration speeds up most processing.