

**NO ETHIDIUM BROMIDE IS TO BE USED ON THIS IMAGER ETBR GELS SHOULD BE IMAGED IN THE DARKROOM OR WIENS LAB.**

Open cabinet and place gel on transilluminator. [Even though front transilluminator switch is on (usually 'high'), the illuminator will not come on until door is shut and controller button is pressed.]

Press camera button on the controller (left - in between computer and imager). Press 'direct' button to turn on internal lighting. While either the direct lighting or the illuminator is on, an annoying high beep will occur to tell you that they are on.

If software is not already running, start ScionImage 1.63 by double clicking the icon on the mac desktop.

Hit command(apple)+G to go to live image and adjust your gel to the desired position on the illuminator. You may focus and zoom up and down using the camera lens on the top of the imager, which works like a conventional camera.

When you are satisfied with your gel's position, close and latch the door and turn off the 'direct' button on the controller. Then press the 'trans' button, which turns on the UV transilluminator.

Go to the 'Process' menu to 'Enhance contrast'. Your gel image should appear. A much clearer gel image can be obtained by not using the enhance contrast option but using the Average Frames with Integrate options in the Special menu. We average 50-100 frames (depending on signal intensity) and get very nice images. To take an image, press command(apple)+G again and the window will show your captured image.

Turn the 'trans' button off. The beeping will stop and your MEAD labmates will stop advancing on you with their sharpened spatulas.

You can save this image as is by going to the File menu and using the Save command. You may also modify this image before saving it using various options in the ScionImage software. One popular option is to invert the image (saves on printer ink) using the LUT options in the Options menu. Note that this will modify the region in the area of interest (dotted window) if you are using that, and in the whole image, if you do not have an area of interest designated.

The ScionImage software only has a few format options to save files in. Only PICT and TIFF are available among the popular formats and there have been reports that PCs cannot read the TIFF format. We have installed Adobe Photoshop on the mac, which you can use to convert your image to any desired format (drag your file to the photoshop icon on the mac desktop).

There is no printer in the MEAD lab. You can move your file to your own lab or office by e-mailing it to your self (MS Explorer icon on desktop) or using a zip disk or USB thumb drive (USB port on back of Mac).

Please remove your gel from the imager and use a kimwipe to absorb any residual liquid on the illuminator. Turn the camera off on the controller and shut the imager door.

Each lab will have a folder of gel images on the desktop. These will be cleared out periodically, so don't depend on this computer to save your images. Please keep the desktop clear of files, other than the lab folders and software icons.