

## Using the Bio-rad Radiance 2100 System

- Log in using the log sheet provided. Don't forget to include an index #, as there is an hourly charge.
- Turn on the mercury lamp (if you need it) by turning on the switch on the power supply, then pressing the *ignition* button
- Turn on the ICU unit with the rocker switch on top of the control panel, and turn on the lasers you will need.
- Start LaserSharp.
- Click "Methods" to load an existing method, edit an existing method, or create a new method.

## Microscope:

- Before focusing manually, make sure focus motor is *off*.
- For viewing fluorescence, push beam splitter in (to *bin*o), open the shutter, and select the correct filter set.
- For viewing bright field, close the shutter, and move the filter slider to the second position indicated by an up arrow.
- For Nomarski DIC, push in the slider above the filter selection knob, and select the DIC prism on the condenser that matches the letter on the objective. *DIC L=(10x), M=(20x), H=(60x & 100x)*.
- After locating your area of interest, set the filter slider for laser scanning by moving it to the second (up arrow) position, close the shutter, and set the beam splitter to the *photo* position. Make sure DIC slider is pulled out.

## Shut down:

- Exit LaserSharp
- Check the sign-up sheet to see if anyone else is signed up immediately after you, and try to call the user to see if they need the mercury lamp and/or lasers left on. If not,
- Turn off ICU tower with the switch on top of the control panel. This switches off the lasers, and the fan will shut off automatically after a few minutes.
- Turn off the mercury lamp and transmitted light power supplies.
- Carefully wipe off any oil from the 100x objective, or water from the 60x, using lens tissue (*not a Kimwipe*).
- Leave computer on.