Biomedical Imaging

In this project we are looking at various biological tissues under a microscope and with the laser. The laser gives us an image of the tissue, and depending on the way we manipulate the pulse of the laser we get different areas of the tissue sample to give off more light (selective fluorescence). The laser hits all of the sample, but only certain parts that we selectively choose light up. The ability to choose which parts of a tissue give off more light has possible applications in cancer research as well as helping further non-invasive research and detection. This is because the chemical makeup of cancer cells is different than the tissues around it. We can take advantage of this and use the laser to selectively excite the different chemicals.

-Bekah Martin