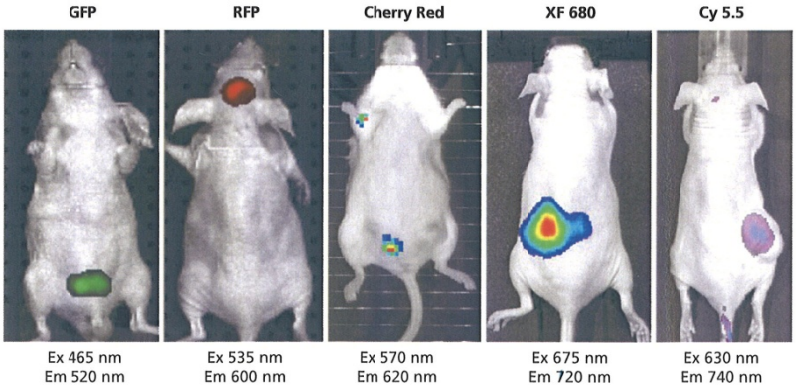
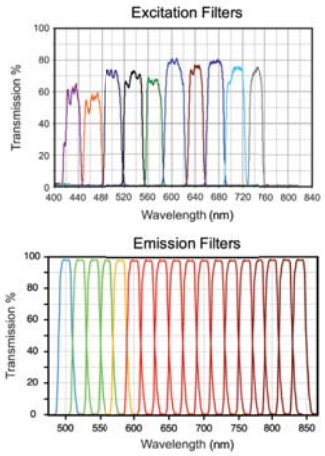
Introducing the "IVIS Spectrum" for *In Vivo* and *In Vitro* Bioluminescent and Fluorescent Imaging

A New RTSF Core Facility Located at 1117 Biomedical and Physical Sciences Building

The IVIS Spectrum is a light tight imaging chamber with integrated gas anesthesia and heated stage for quantitative bioluminescent and fluorescent (transmission and reflectance) imaging in vivo and in vitro.

- Narrow band excitation and emission filters and spectral unmixing algorithms allow spectral scanning over blue to near infra red wavelengths.
- Visualize multiple reporters in the same animal.





- A versatile field of view allows imaging of single cells to 5 whole animals
- Living Image 4.0 software allows 3D reconstruction and quantitation of optical signals for both bioluminescent and fluorescent sources

Services include:

- *In vitro* imaging of cell cultures, tissue/organ imaging
- *In vivo* bioluminescent and fluorescent imaging
- Adjoining animal room using Innovive Disposable Caging System
- Assistance with: rodent anesthesia
  substrate injection
  image acquisition
  data quantification and analysis
  experimental design and protocol planning
- Train with the XFM-2 fluorescence and XPM-2 bioluminescence mouse phantoms
- Imaging cost of $40 per hour (unassisted, does not include ULAR per diem for housing and care)

For further information or to tour the facility e-mail: ivis@cns.msu.edu