



## Planning Your Study and Budget with the Longwood SAIF

### Bioluminescence Imaging

- ❖ Typically 3 mice can be imaged at one time; 10-15 mice/hour

### Fluorescence Imaging

- ❖ Typically 5-15 mice/hour can be imaged at one time depending on exposure time, stage heights, and animal positioning

### MicroPET Imaging

- ❖ Typically 30 minutes/mouse, so 2 mice can be imaged per hour.
- ❖ F-18 FDG 15mCi dose for 3 mice
- ❖ Typical rates include 3 mice/hour for volumetric analysis
- ❖ For standard uptake values; 20 minutes for 3 mice

### MicroSPECT Imaging

- ❖ Typically 20 minutes/mouse, so 3 mice can be imaged per hour.
- ❖ Tc-99 – 10mCi for 3 mice
- ❖ Typical rates include 3 mice/hour for image analysis

### MicroCT Imaging

- ❖ Typically is 15 minutes/mouse, so 4 mice can be imaged in an hour at standard resolution.
- ❖ Typical rates include 3 mice/hour for volumetric analysis

### Magnetic Resonance Imaging

- ❖ Typically 15 minutes/mouse for liver T1w-GRE, so 4 mice can be imaged per hour.
  - 1mL Eovist for 15-20 mice
  - Image Analysis – 4 mice/hour
- ❖ Typically 30 minutes/mouse for a SE for prostate, so 2 mice can be imaged per hour.
  - Image Analysis – 2 mice/hour

### PET/MR Imaging

- ❖ Typically 30 minutes/mouse.
- ❖ Typically 15 minutes/mouse for MRI.
- ❖ Image Analysis for both for 1 mouse - ~45 minutes