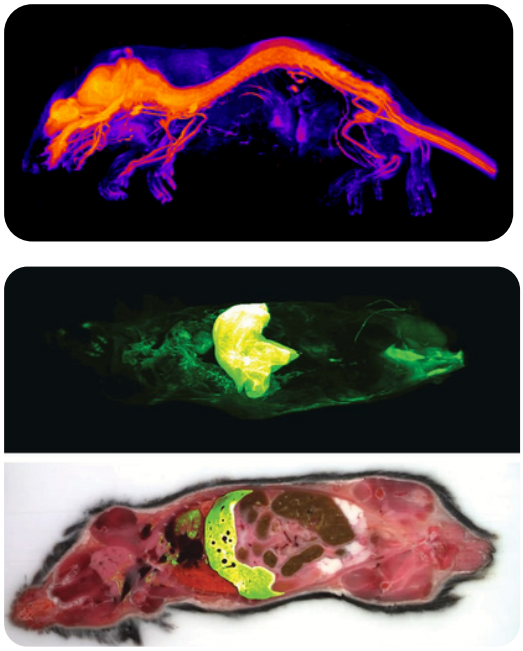
EMITImaging
DISCOVER MORE

CRYO-FLUORESCENCE TOMOGRAPHY INSTRUMENTATION & SERVICES

Transformative 3D imaging to monitor drug biodistribution, protein expression, and other biochemical processes

Cryo-Fluorescence Tomography (CFT) is a transformative 3D approach to image drug biodistribution, protein expression, and other biochemical processes in whole animals and large tissue samples. EMIT Imaging offers both instrumentation and services via our platform, Xerra™, a high-resolution and high-sensitivity automated CFT system designed to advance biological and drug research discoveries. With CFT, researchers can:

- visualize and monitor whole-body drug distribution and delivery
- screen candidate drugs and delivery systems
- investigate whole-body therapeutic protein expression
- study the multiplexed co-localization of drug with targets
- identify on-target and off-target effects



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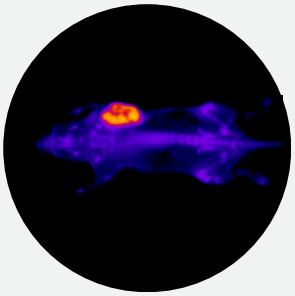
HIGH-RESOLUTION
Provides resolution down to 20 µm

HIGH-SENSITIVITY
nM sensitivity, comparable to nuclear medicine

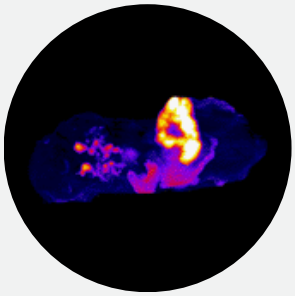
COMPREHENSIVE IMAGING
Captures Molecular + Anatomical

MULTIPLEXING
6 lasers and 7 filters for multiplexed applications

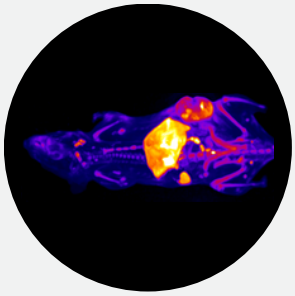
GENE THERAPY



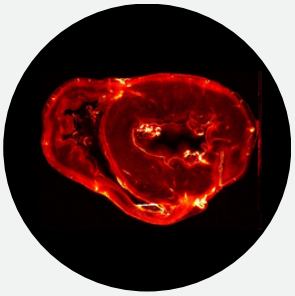
DRUG DISCOVERY



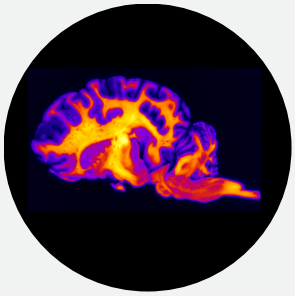
ONCOLOGY



IMMUNOTHERAPY



LARGE ANIMAL



NEUROSCIENCE

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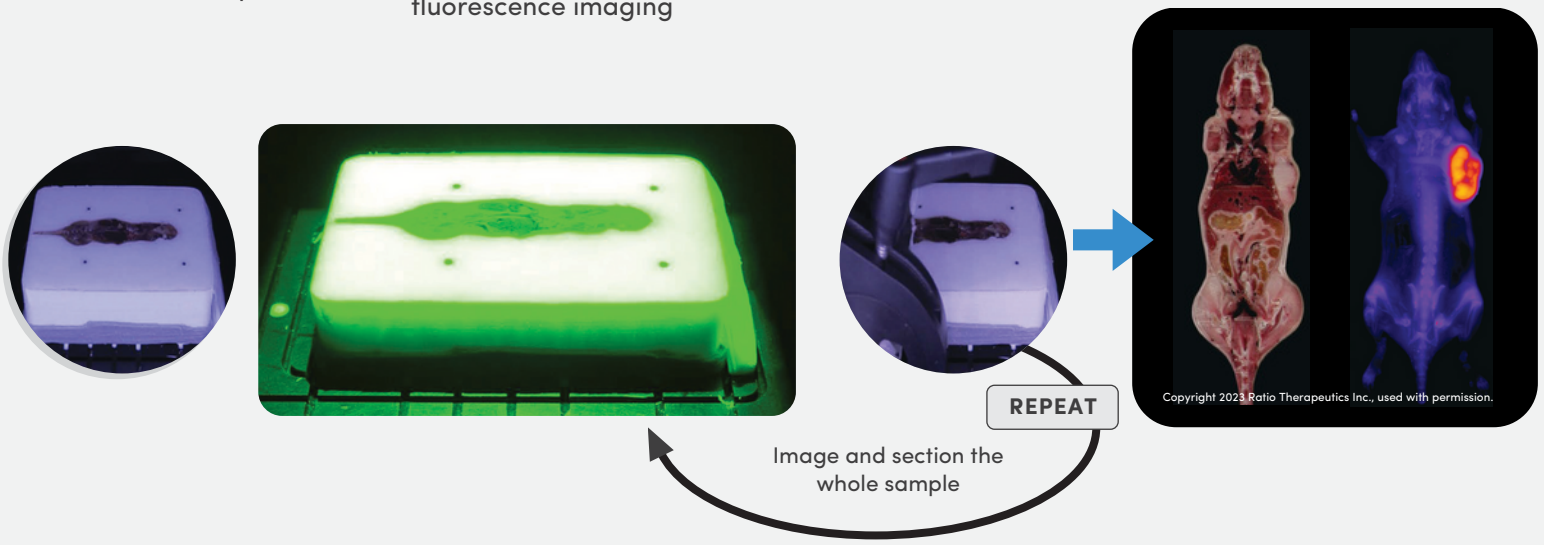
HOW CFT WORKS

1.PREP
Cryo-preserve & embed the sample

2. IMAGE
High resolution, high sensitivity anatomical & fluorescence imaging

3. SECTION
Remove 20-55 µm from the block surface

OUTPUT
3D image stacks



XERRA™ CFT IMAGING PLATFORM

- Xerra automates the CFT workflow
- Xerra sections frozen biological samples
- Anatomical and fluorescence images are coregistered
- Capable of multiplexing fluorophores
- 5 magnifications: 20-55 µm pixel resolution
- 6 excitation lasers: 470 to 780 nm
- 7 emission filters: 500 to 850 nm
- Xerra is CE marked

Learn More!