

CMI Pre-clinical Molecular Imaging Presentation

Your  one source for seven modalities
FLUORESCENCE LUMINESCENCE X-RAY RADIOISOTOPIC PET SPECT CT

Carestream
Molecular Imaging

Agenda

- Introductions
- Carestream Overview
- Product Presentations
- Discussion and Next Steps

Who We Are

- Carestream is an independent company with a proven track record and \$2.5 billion in revenue
- Approximately 7200 employees serve customers in more than 150 countries worldwide
- Carestream holds more than 1000 patents for technology and intellectual property
- Our imaging products are at work in 90 percent of hospitals and pre-clinical institutions worldwide



What We Do

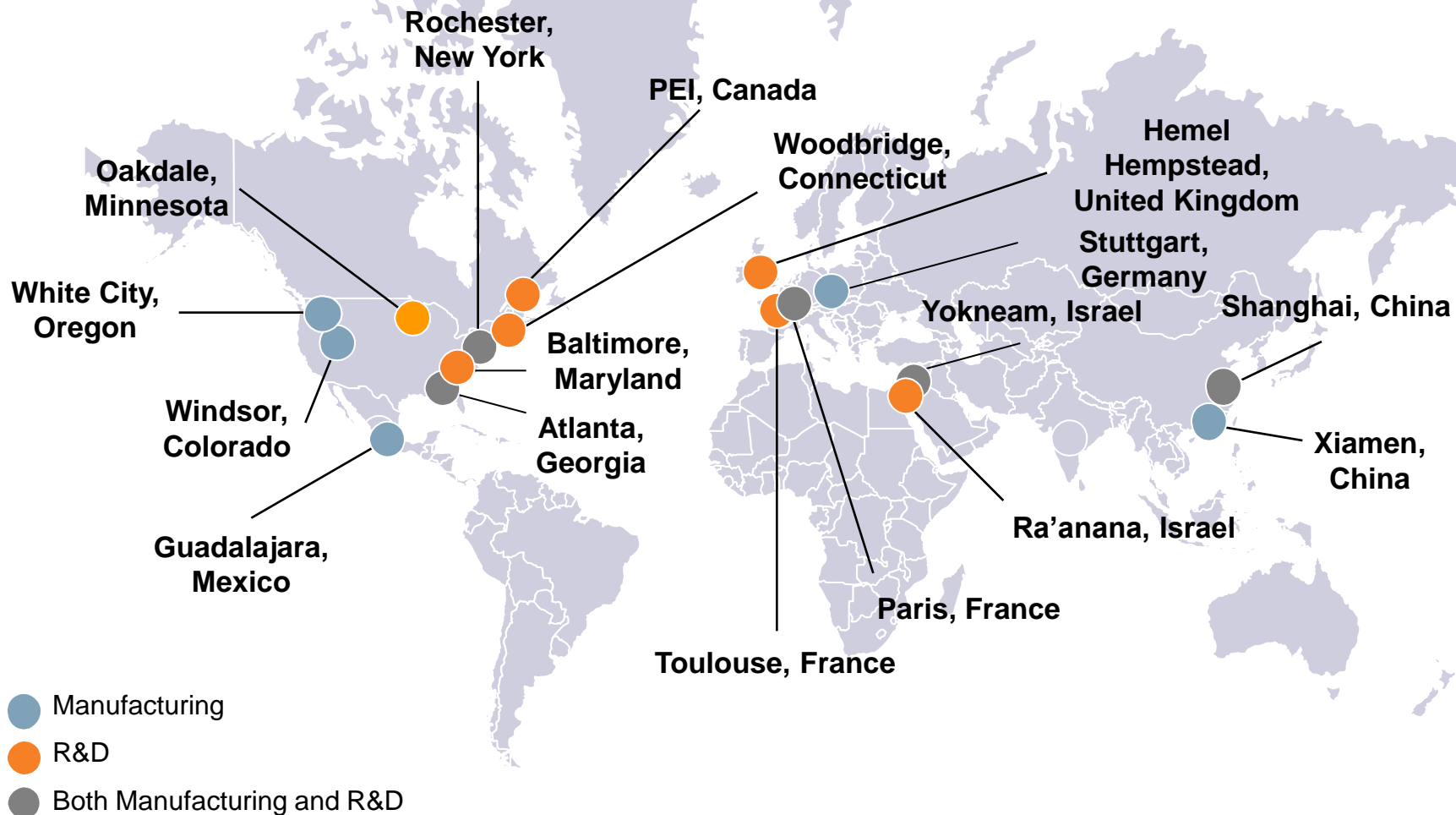
A world leader in:

- Medical imaging
 - CR & DR systems
 - Nearly two out of every five computed radiography (CR) systems sold in the U.S. and Canada are Carestream
- Dental imaging and dental practice management software
- Molecular imaging
 - The most extensive portfolio on the market
- Healthcare information solutions (RIS & PACS)
 - More than 1,100 healthcare information management solutions currently installed worldwide (PACS, RIS, data management)
- Digital output solutions
 - More than 50,000 KODAK DRYVIEW laser imagers on the market worldwide
- All categories of Kodak film



Where We Are

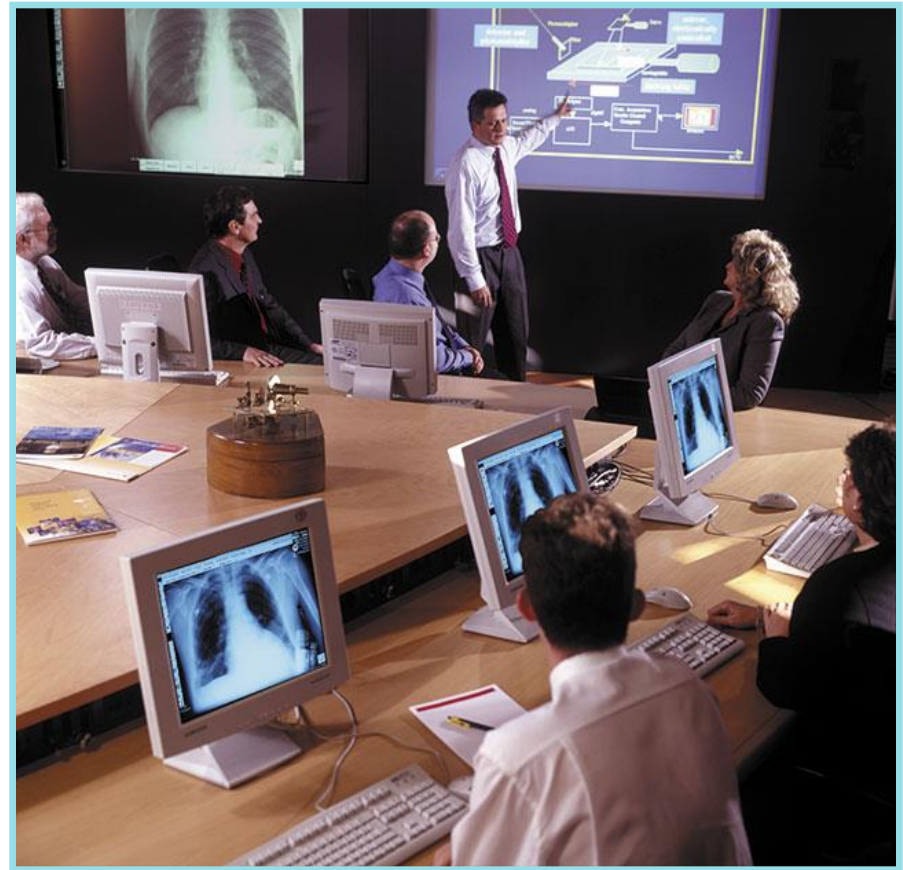
Carestream is a **global company** with sales, service, R&D, and manufacturing locations around the world



Global Services

Service and support

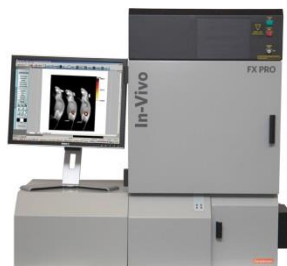
- Our global service team includes 1150 field engineers and 250 customer support agents
- Professional services guide and support implementation of healthcare and pre-clinical imaging solutions and drive improvement in customer processes & workflow
- Service personnel are trained and located for timely maintenance and quick response to keep products and customers at peak performance



Complete Portfolio for In-Vitro and In-Vivo Pre-clinical Imaging



In-Vivo MS FX PRO



In-Vivo FX PRO



In-Vivo FX



In-Vivo F PRO



In-Vivo DXS PRO



Albira



Gel Logic 2200 PRO



Gel Logic 212 PRO



Gel Logic 112



Image Station 4000R



Image Station 4000R PRO

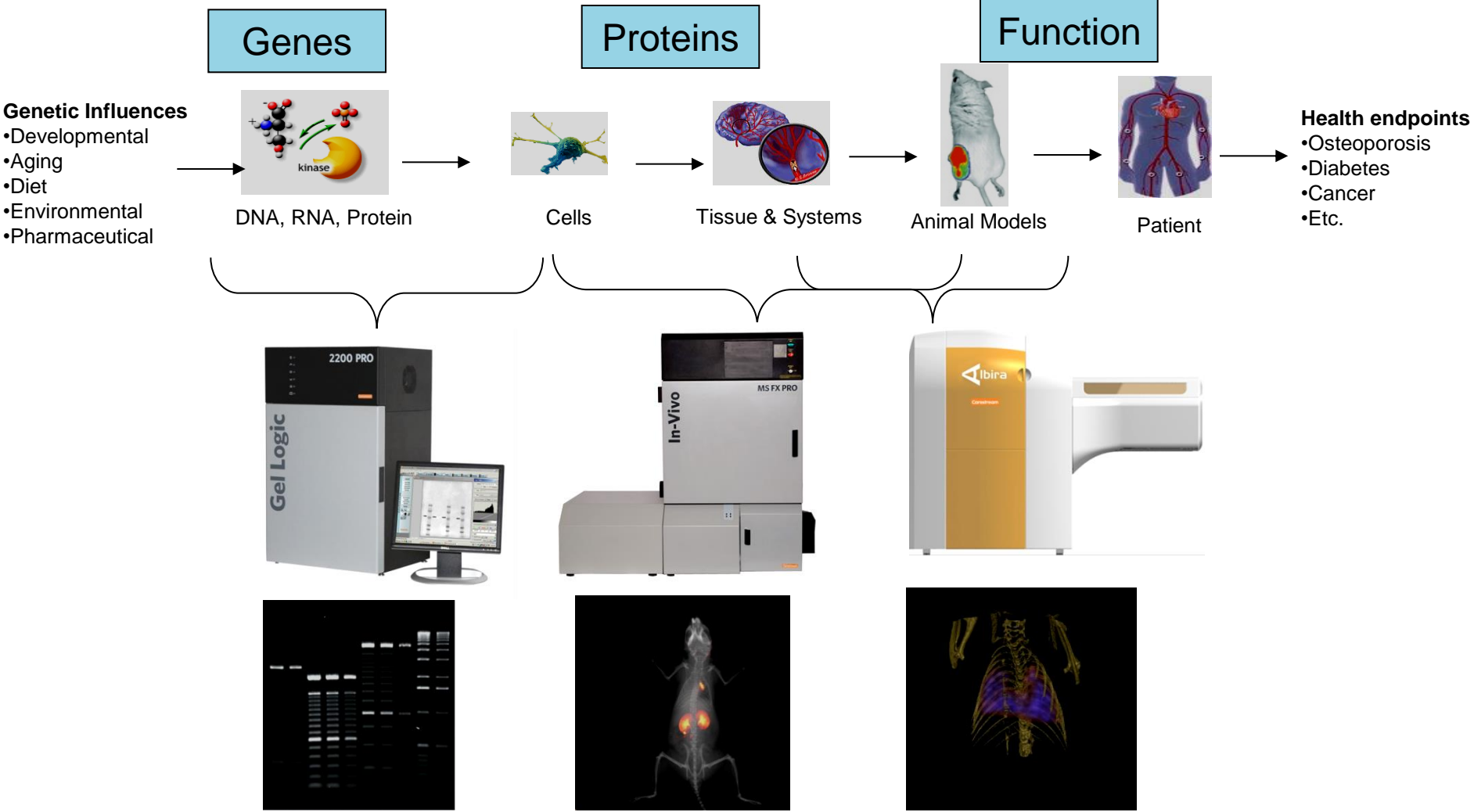


Image Station 4000MM



Image Station 4000MM PRO

How It All Ties Together



Information and Image Capture, Storage and Analysis (RIS & PACS)

An Unparalleled In-Vivo Product Offering for Small Animal Imaging

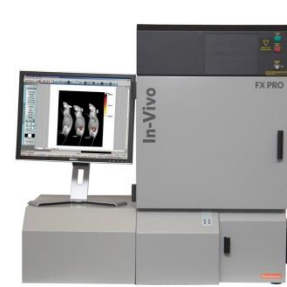
7 Powerful Imaging Modalities 2 Instruments

1. Fluorescence
2. Luminescence
3. Radioisotopic
4. Radiographic (X-Ray)
5. Single Photon Emission Computed Tomography (SPECT)
6. Positron Emission Tomography (PET)
7. Computed Tomography (CT)

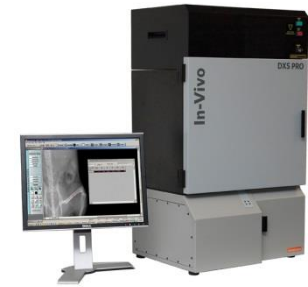


Frost & Sullivan's Prestigious 2011 Product Line Strategy Best Practice Award for In-Vivo Preclinical Imaging Systems

Awarded to Carestream Molecular Imaging!



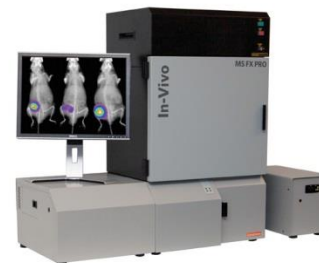
In-Vivo FX PRO



In-Vivo DXS PRO



In-Vivo F PRO

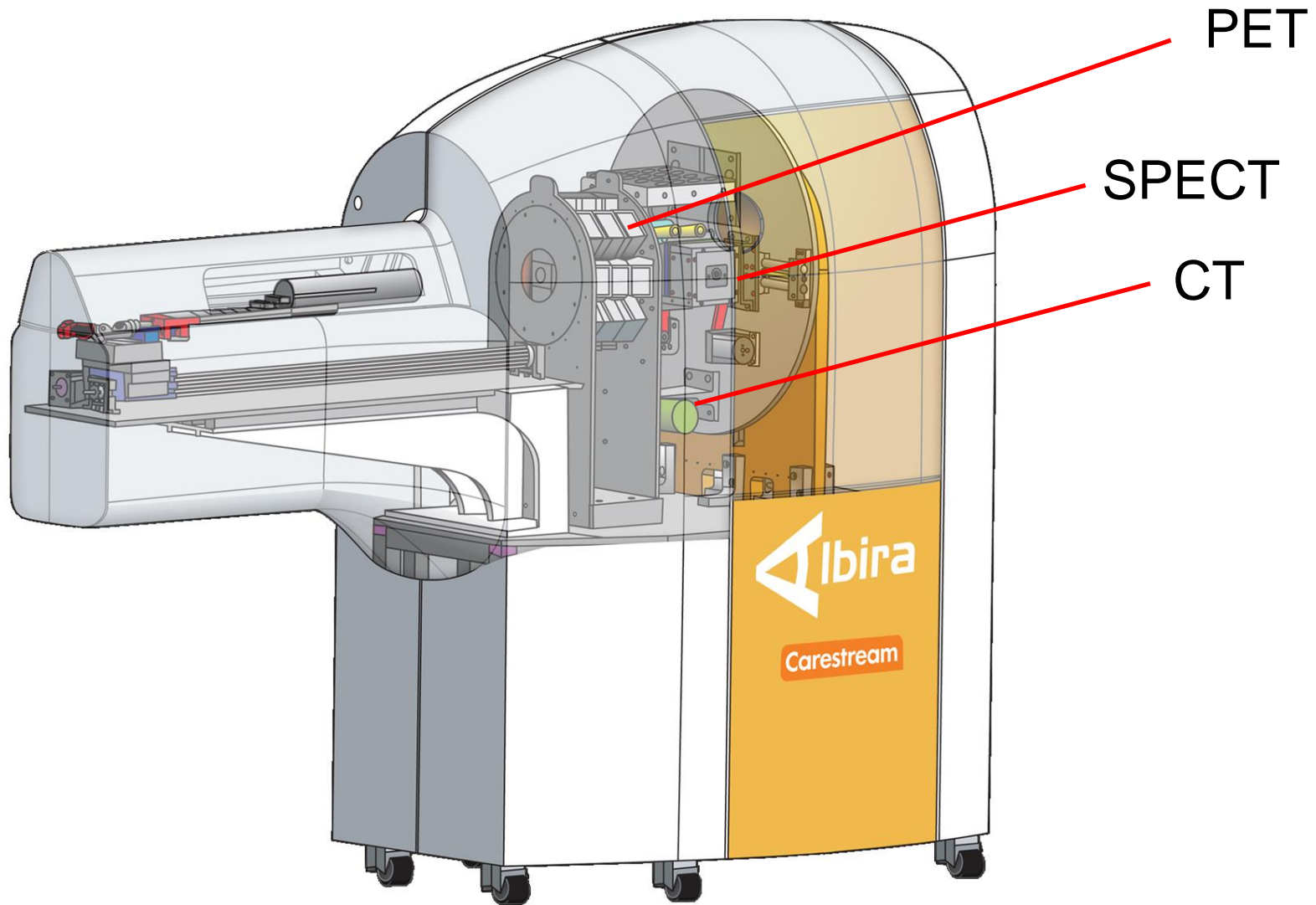


In-Vivo MS FX PRO



Albira

Albira- Fully Integrated PET/SPECT/CT



Presentation Agenda

Why PET/SPECT/CT?

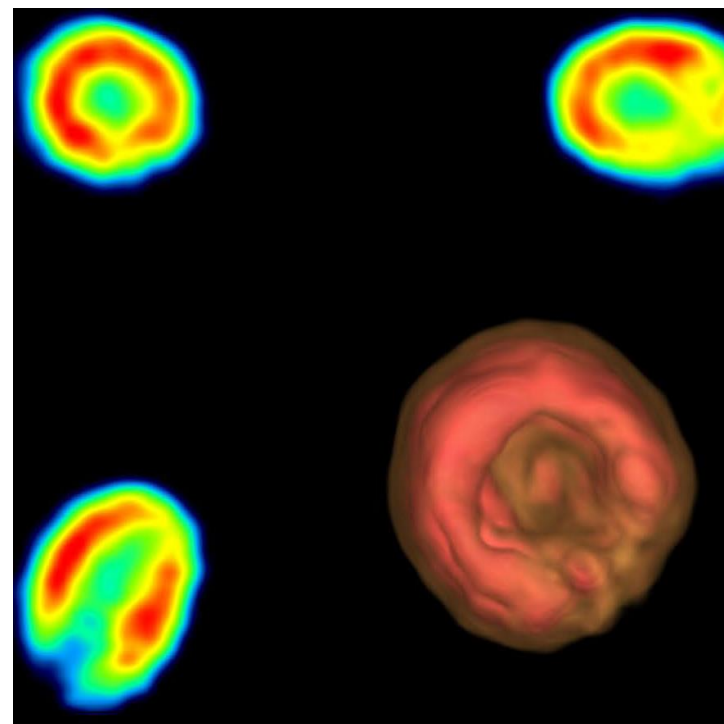
What is Albira and How Does the System Work?

How Can I Use the Albira System?

The Importance of PET/SPECT/CT in Pre-clinical Small Animal Imaging

Albira – Designed for Pre-clinical Small Animal Research

- **Bridge between pre-clinical animal models and human studies using the same tools**
 - Clinical PET, SPECT, CT and gamma cameras are routinely used through the world in clinical diagnostics
 - Discover new powerful uses for already approved PET or SPECT imaging agents in either bio-marker development or clinical pharmacodynamics studies
 - CT co-registration provides anatomical references for PET and SPECT images in both clinical and pre-clinical imaging systems
- **Discover new predictive imaging biomarkers**
- **Accelerate the pre-clinical validation of new drugs**
- **Enable selection of drug candidates for clinical translation**



*PET Cardiac Imaging -
Translatable from rodents to
humans*

Precise Quantification of Biological Processes

Quantitative gene expression studies

- In Vivo receptor/ligand binding assays
- In Vivo enzyme kinetics

Precise metabolic studies

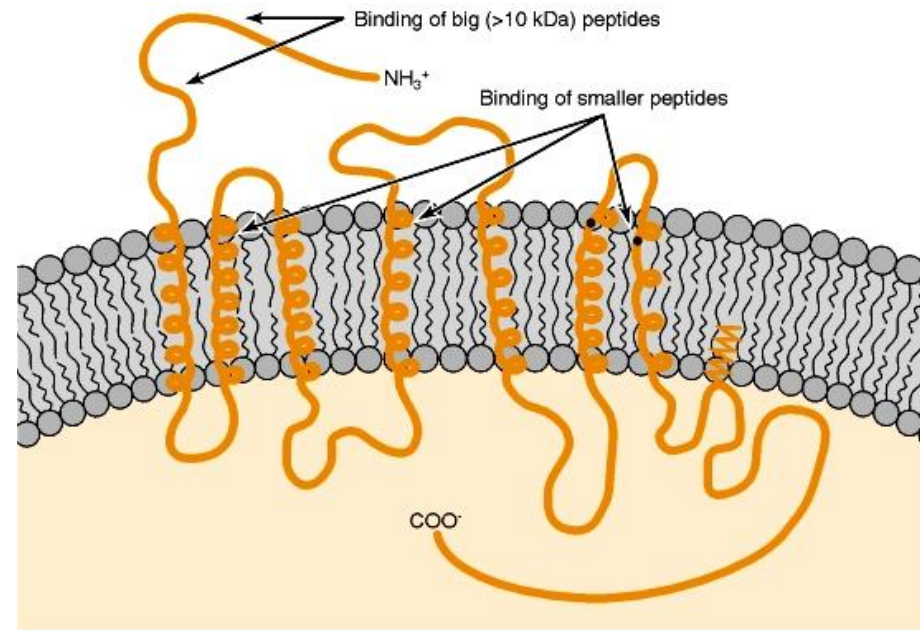
- Uptake and distribution of sugar analogues
- Uptake and distribution of acetate
- Blood flow and perfusion imaging

Cell tracking

- Pre-label cells with radiotracer
- Label cells with a genetically encoded reporter

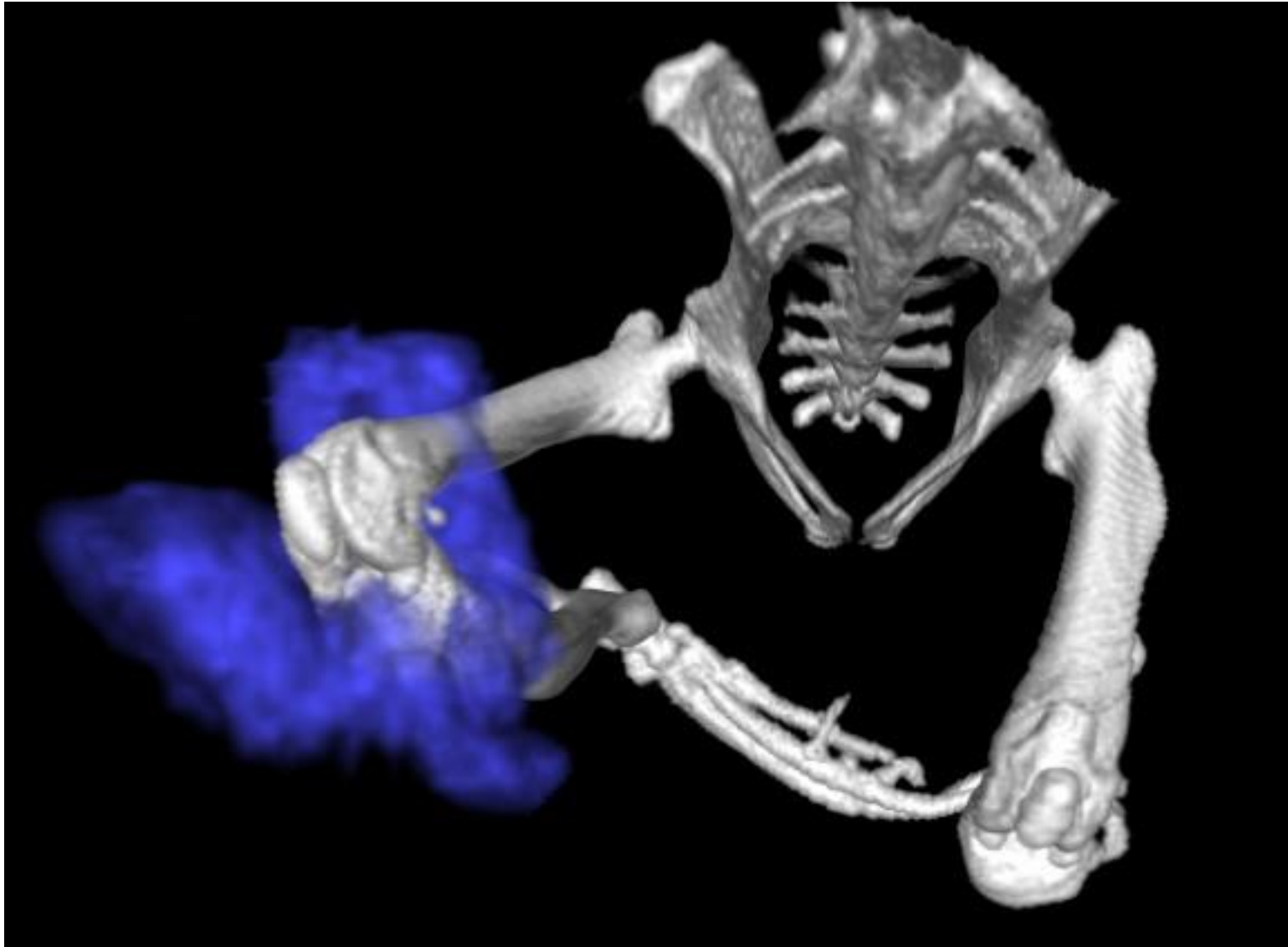
Pharmacokinetics/Pharmacodynamics

- Image bio-distribution of lead compounds
- Quantify the effects of compounds on target and non-target tissues



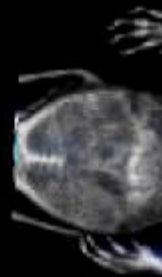
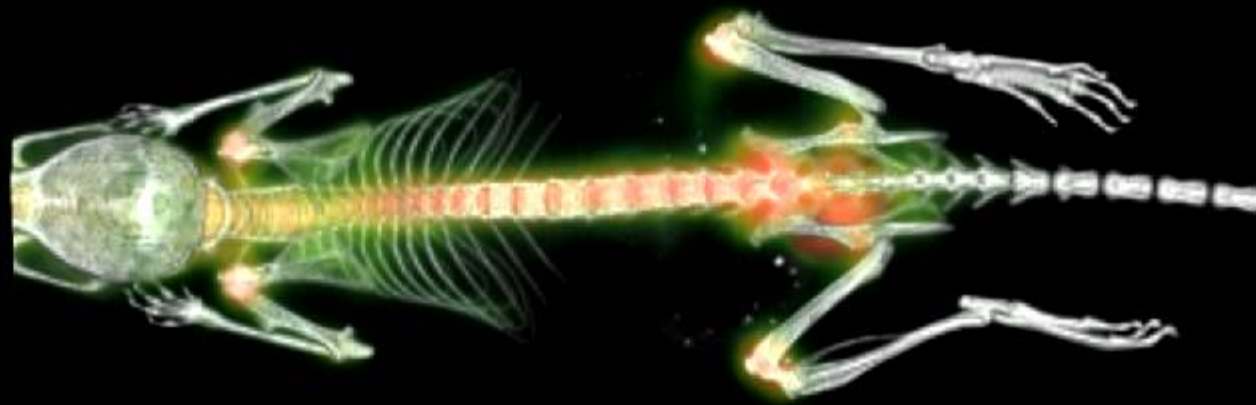
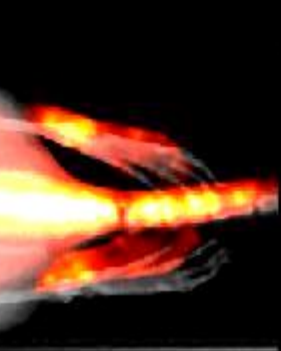
Monitor Ligand/Receptor Interactions
In Vivo

Imaging of Tumor Metabolism in 3D



SPECT/CT





Thank you!