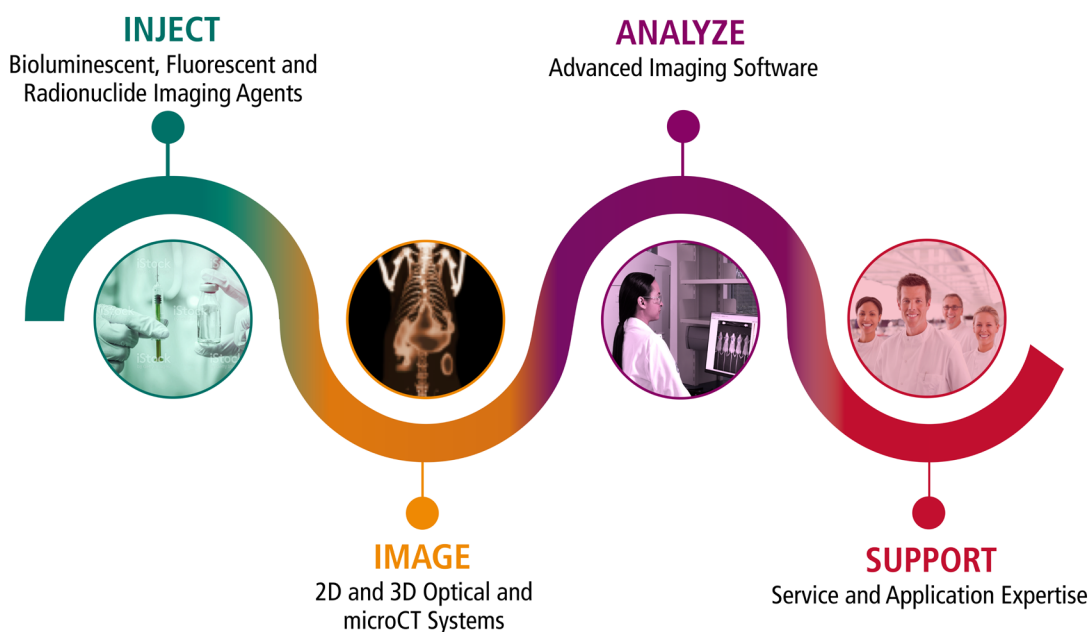


## *In Vivo* Imaging Solutions

Whether your research involves better understanding molecular pathways of disease, tracking disease progression, or evaluating therapeutic effectiveness of drug candidates, your cutting-edge research commands high-sensitivity and reliable *in vivo* imaging data.

PerkinElmer is here to help you achieve your research goals with our leading molecular imaging platforms and diverse range of bioluminescent and fluorescent reagents. From single mode 2D optical and 3D tomography to multimode integrated systems, we have the tools you need to help you get the answers you are searching for to move your research forward.

### Your Path to Discovery Starts Here

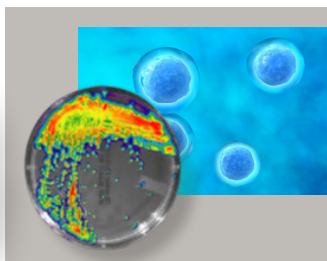


## Optical Reagents



### Bioluminescent Substrates

- Xenolight® D-Luciferin K+ Salt+
- XenoLight RediJect™ D-Luciferin
- XenoLight RediJect D-Luciferin Ultra
- XenoLight RediJect Ceolenterazine



### Bioluminescent Cells and Bacteria

- Bioware® Brite oncology cell lines with enhanced Red-Fluc vector
- Bioware Brite Dual optical oncology cell lines with Red-Fluc and Green Fluorescent Protein (GFP)
- RediFect Lentiviral Particles
- Bacteria labeled with luciferase



### Fluorescent Agents\*\*

- Imaging of a broad range of biomarkers and pathways
  - Activatable
  - Targeted
  - Vascular
- Fluorescent Panels prepackaged and targeted for your research also available



### NIR Fluorescent Labels and Nanoparticles\*

- Labeling kits and dyes
- Nanoparticles (645, 680, 750, 800 nm)

+ Volume discount on selected reagents

\*Select products available in sample sizes. Contact your sales representative for details.

## In Vivo Imaging Instrument Portfolio

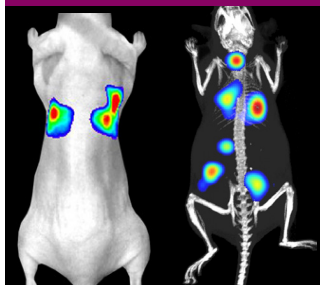
Optical			MicroCT
2D	2D and 3D	3D	
 <b>IVIS® Lumina LT</b> Entry level BLI and FLI	 <b>IVIS Lumina S5</b> High-throughput BLI and FLI	 <b>IVIS SpectrumBL</b> 2D/3D BLI Only	 <b>Quantum GX2</b> High-resolution, low-dose microCT
 <b>IVIS Lumina III</b> BLI and FLI	 <b>IVIS Lumina X5</b> High-throughput BLI and FLI with integrated x-ray	 <b>IVIS Spectrum</b> 2D/3D BLI and FLI	
 <b>IVIS Lumina III XRMS</b> BLI and FLI with integrated x-ray	 <b>IVIS SpectrumCT</b> 2D/3D BLI and FLI with integrated microCT		

## Comparison of IVIS Optical Imaging Systems

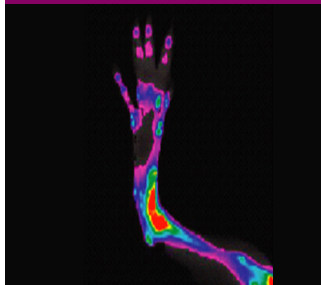
	Lumina III LT	Lumina III	Lumina III XRMS	Lumina S5	Lumina X5	SpectrumBL	Spectrum	Spectrum CT
Number of Animals	3	3	3	5	5	10	5 mice (10 mice with manifold upgrade)	
2D Bioluminescence	✓	✓	✓	✓	✓	✓	✓	✓
2D Fluorescence	✓	✓	✓	✓	✓	Upgrade	✓	✓
Near Infrared Fluorescence	✓	✓	✓	✓	✓		✓	✓
Spectral Unmixing (CPS)	Upgrade	✓	✓	✓	✓	Upgrade	✓	✓
2D X-ray Imaging			✓		✓			
2D High Resolution X-ray Imaging					✓			
3D Bioluminescence						✓	✓	✓
3D Fluorescence							✓	✓
Transillumination						Upgrade	✓	✓
microCT								✓



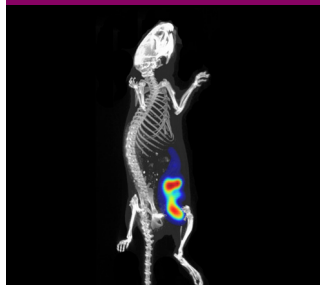
#### ONCOLOGY



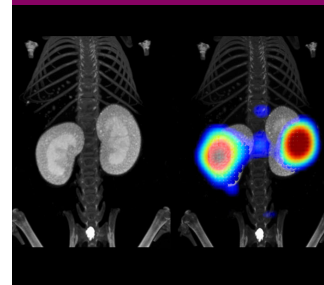
#### INFLAMMATION



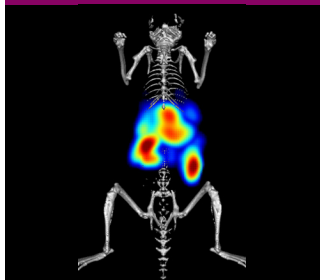
#### TUMOR METABOLISM



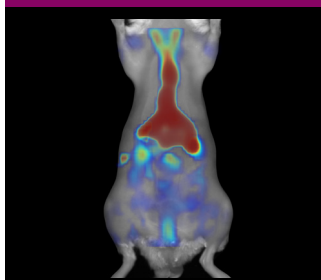
#### INFECTIOUS DISEASE



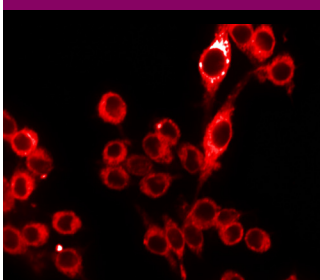
#### TOXICOLOGY



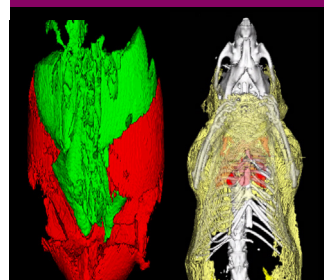
#### BIODISTRIBUTION PK/PD



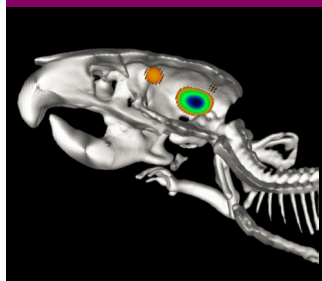
#### CELL TRACKING



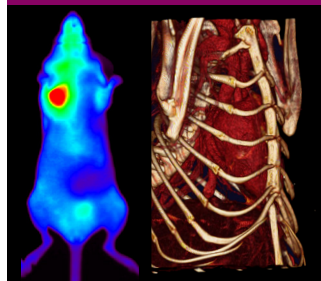
#### METABOLIC



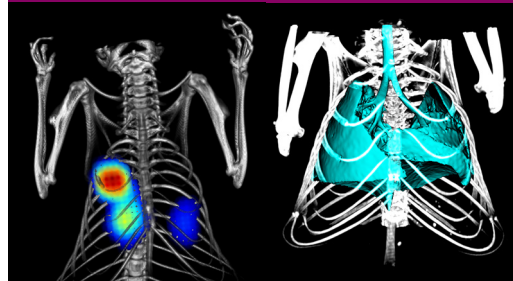
#### NEUROSCIENCE



#### CARDIOVASCULAR



#### PULMONARY



For more information on our in vivo imaging solutions visit  
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