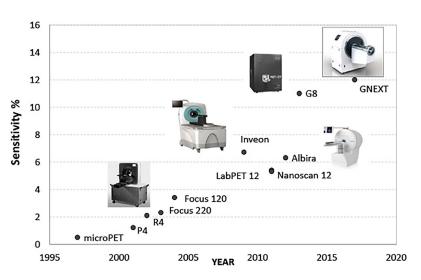


SOFEE From start to clinic

EVOLUTION OF PERFORMANCE ON SMALL ANIMAL PET SCANNERS

Sensitivity %



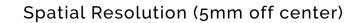
THE WORLD'S HIGHEST SENSITIVITY, **HIGHEST RESOLUTION PET SCANNER**

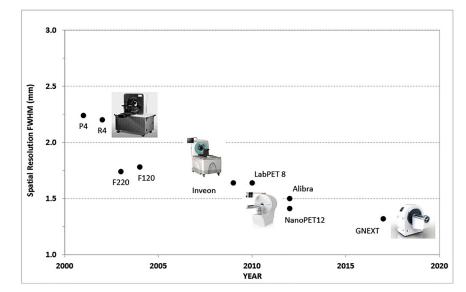
The GNEXT PET/CT is the latest generation of high performance microPET scanners. Over the past decades, preclinical PET has established its value in a wide range of applications. Today's PET/CT scanner must provide not only superior performance, but also a seamless workflow experience that holds the animal and user experience as high as the specifications. SOFIE achieves this with our newest G-Series system, GNEXT PET/CT. Utilizing a unique Depth of Interaction (DOI) method, we're able to better determine the correct line of response in PET coincidence detection, leading to more accurate positioning and better resolution across the field of view. With the GNEXT PET/CT, you'll unlock applications in imaging small spontaneous tumors, lymph nodes, brain, cell tracking, and close to hot organs.



This design allows us to combine the highest resolution crystals on the market with a high sensitivity layer for a total crystal depth of 15 mm and pixels less than 1.01 mm.

Our novel dual-layer crystal technology overcomes depth-of-interaction (DOI) limitations, common in ring PET systems.





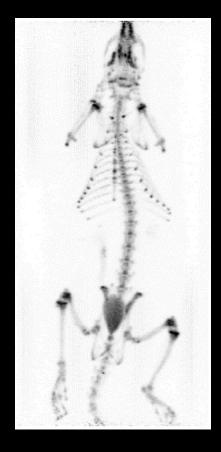


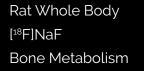
INTEGRATED ANIMAL MANAGEMENT

Today's PET/CT scanner must provide not only superior performance, but also a seamless workflow and adaptability to the current environment. We believe that animal management and shielding are just as important as sensitivity and resolution, as successful imaging outcomes correlate heavily with subject wellbeing. The GNEXT PET/CT prioritizes your model by incorporating single animal and multi-animal bed platforms with integrated heating and anesthesia systems, all adaptable to existing microPET models.

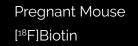
DIVERSE APPLICATIONS

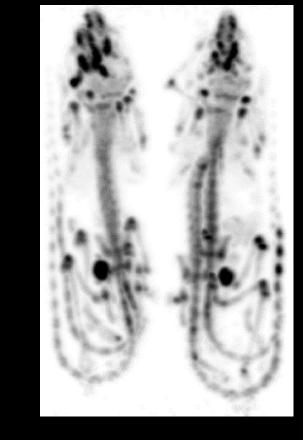
The GNEXT PET/CT is a large bore PET/CT scanner that can support single animals, multiple mice, multiple rats, rabbits, and small non-human primates. A variety of study designs and isotopes can be imaged and quantified.



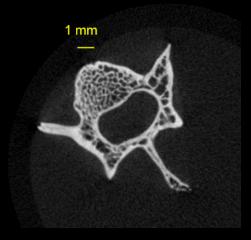




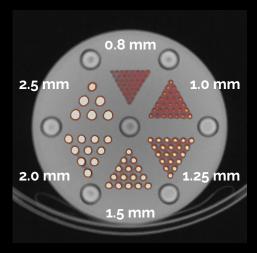




4 Mice [¹⁸F]NaF Bone Metabolism



Rat Vertebrae 2 min CT, 50 um voxel Trabecular Bone Analysis

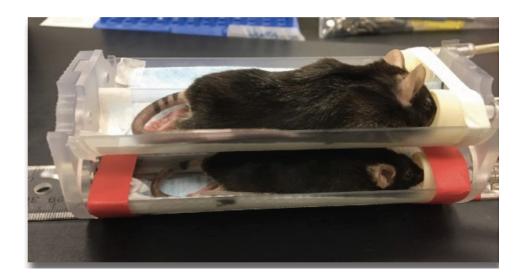


Derenzo [18F]FDG

SIMPLIFIED, ELEGANT WORKFLOWS

Like our other G-series systems, the GNEXT PET/CT software platform and acquisition engine allow you to quickly define complex protocols with just a few clicks, or use preset protocols provided with the software to eliminate the burden of repetitive data entry. All PET data is collected in list mode format and images are stored in DICOM format, allowing for easy export and analysis on your analysis software of choice, such as VivoQuantTM. Acquire and reconstruct your data simultaneously, with options for a variety of reconstruction protocols.

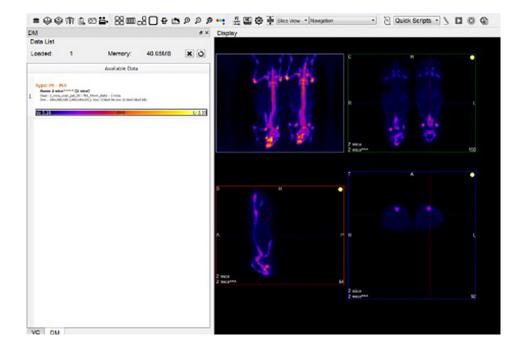
Prepare



CREATE N	IEW STUDY	
Mouse	(RE	ADY)
Study Name	Mouse	
Protocol	PET - F18_60min_dynamic	-
	CT - Standard CT	-
Compound	F18-FDG	1
		-

Acquire

Analyze



SPECIFICATIONS

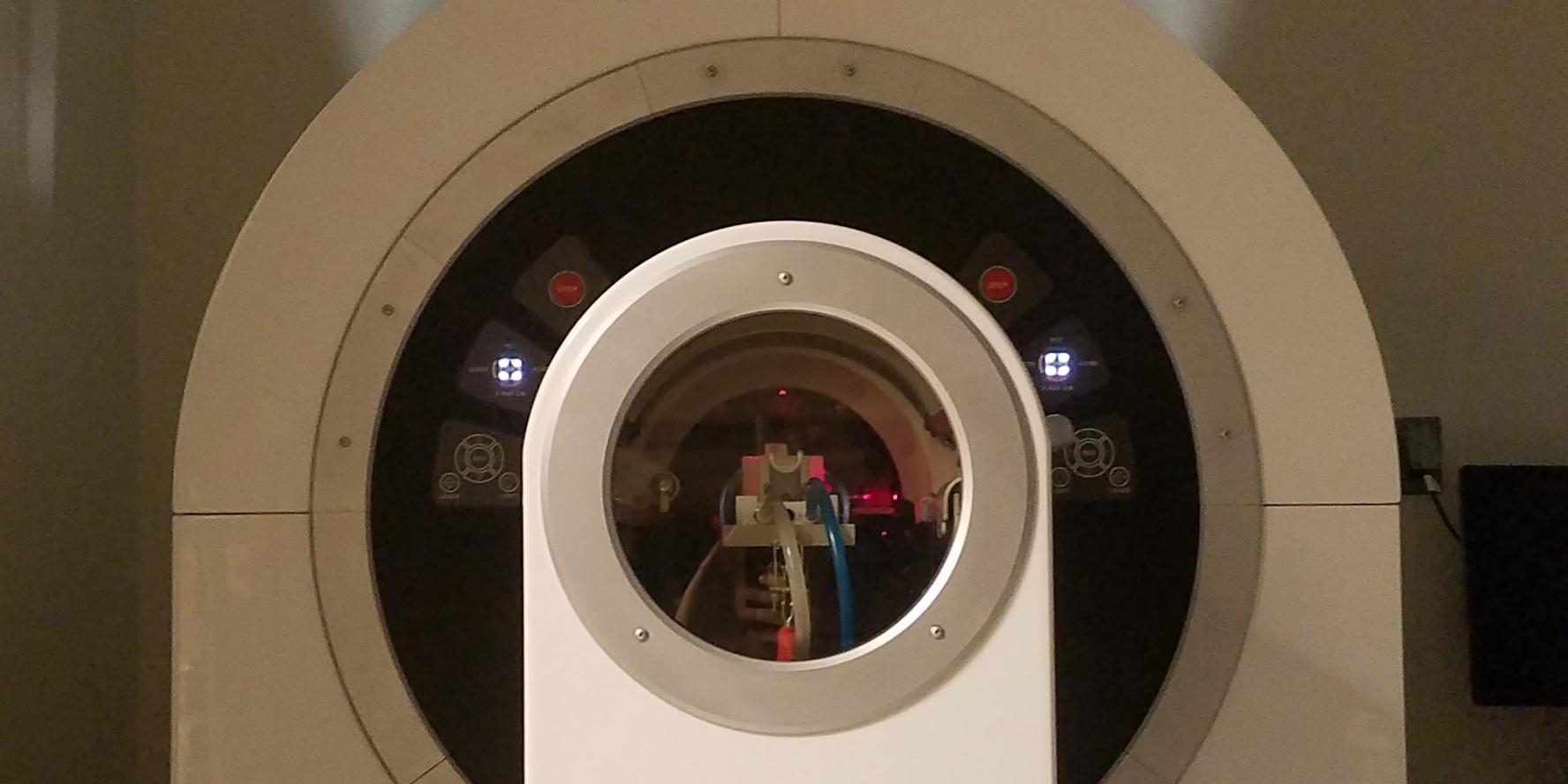
PET

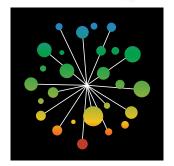
Feature	Specification		Feature
Peak absolute system sensitivity	>12%		X-ray Can
, ,			Num
Resolution at center of FOV	<1 mm		Dete
Detector diameter	16.0 cm		Max
Bore Size	13.9 cm		Mag
	12.0 cm		X-ray Sou
Transaxial FOV			Foca
Axial FOV	10.4 cm		Volta
Total number of crystal elements	66,560		Max
LYSO detector element size	1.01 mm x 1.01 mm x 6.1 mm		Max
			Fast Scan
BGO detector element size	1.55 mm x 1.55 mm x 8.9 mm		Reconstru
Reconstruction Algorithms	FBP, 3D-OSEM, MAP		X-ray Shie

СТ

amera umber of camera pixels etector element size aximum FOV agnification range ource cal spot size ltage range aximum anode current aximum power an Time truction Algorithm nielding

Specification
3072 × 1944
75 µm
12.0 cm x 10.4 cm
1.3 - 5.0
10 µm
25-80 kVp
150 µA
12 W
1 min
Modified Feldkamp Algorithm
Fully Shielded, 21 CFR 1020.40 compliant





SOFIE From start to clinic

FROM START TO CLINIC

SOFIE develops innovative PET technologies that are fun, flexible, compact, high performance, and within your budget. Together, we're creating an ever-expanding playing field for molecular imaging.

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