



A desktop preclinical **3D PET** platform for fast
in vivo imaging of PET radiopharmaceuticals

 **eye**TM



From fast planar imaging to dynamic **3D PET**

The **β-eye™** system supports tomographic **3D PET** imaging, enabling enhanced spatial assessment while preserving its compact footprint and simplicity.

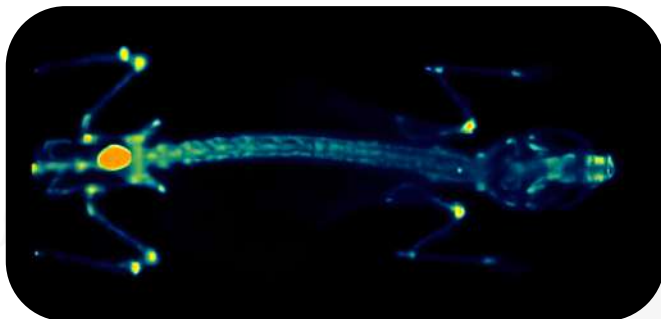


Key capabilities

- **3D PET** for whole-body spatial and longitudinal assessment
- **4D dynamic PET** for kinetic analysis
- **Fast planar imaging** for whole-body imaging down to 1 sec frames



F-18



Bone imaging using ^{18}F

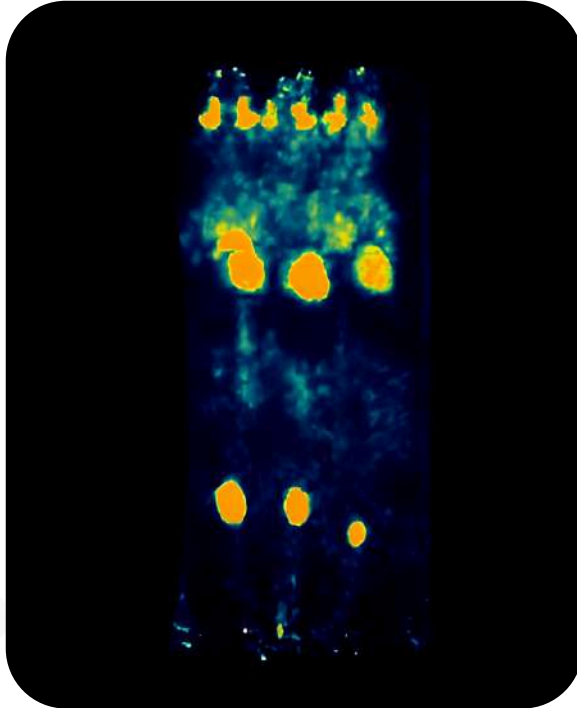
Image info: 1 h post injection – 10 min scan
injected activity 4 MBq

High-throughput 3D PET imaging of up to three mice

The β -eye™ enables simultaneous 3D PET imaging of **up to three mice** in a single acquisition, increasing experimental throughput.



F-18



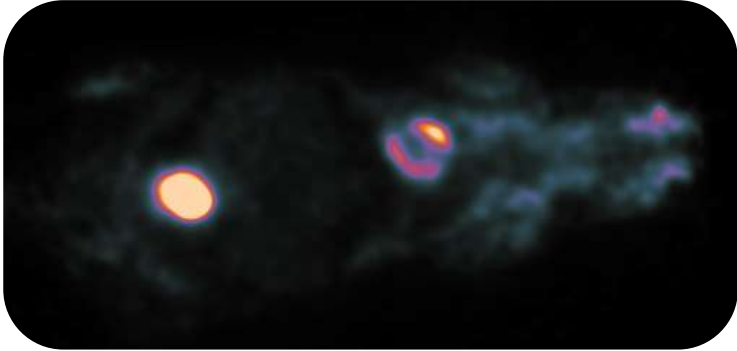
Simultaneous ^{18}F -FDG PET imaging of three mice

Image info: 60 min post injection – 6 min scan
injected activity 2.5 MBq per mouse

3D PET imaging across preclinical disease models



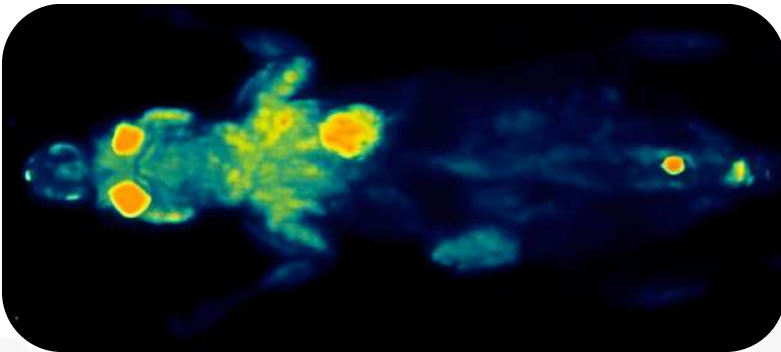
F-18



Cardiac PET imaging using ^{18}F -FDG in a model of myocardial infarction
Image info: 80 min post injection – 20 min scan – injected activity 6 MBq



F-18



Tumor model imaging using ^{18}F -FDG
Image info: 1 h post injection – 10 min scan – injected activity 6 MBq

Dynamic 4D PET for time-resolved imaging

The β -eye™ enables **dynamic 4D PET** imaging to track radiotracer distribution over time, providing early insight into uptake and clearance kinetics.



Ga-68

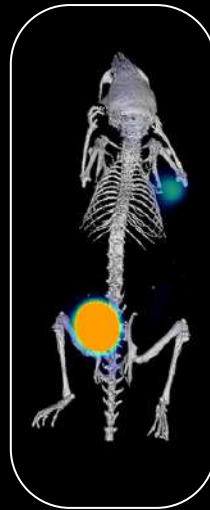
Early time point

2 min p.i.



Late time point

50 min p.i.



Selected frames from a dynamic 4D PET acquisition of ^{68}Ga -FAPI

Image info: 0-60 min post injection - down to 2 min frames
injected activity 9 MBq

Extending PET workflows with fast **planar** imaging

In addition to 3D PET, **β -eye™** enables fast planar imaging across a broad range of PET radiopharmaceuticals for rapid **whole-body screening**.



Zr-89



Image info:

24 h post administration
5 min scan
injected activity 3.7 MBq



Ga-68

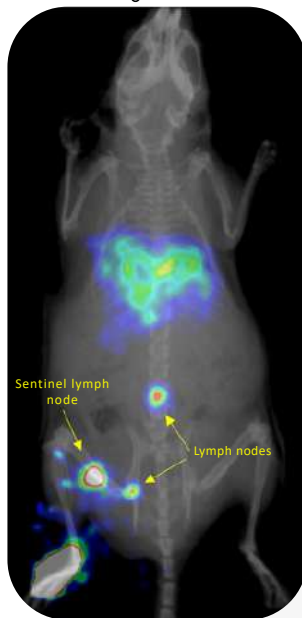


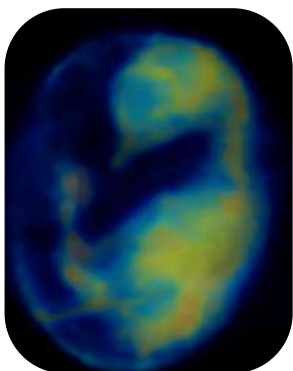
Image info:

1 h post injection
10 min scan
injected activity 3 MBq

Versatile 3D PET imaging across **special applications**



F-18

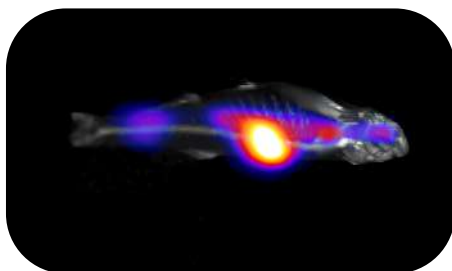


**In ovo imaging using
 ^{18}F -based tracer**

Image info: 2 h p.i.
10 min scan



F-18

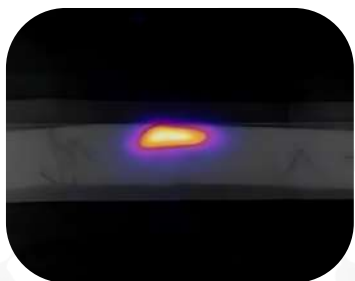


**PET imaging using ^{18}F -FDG on a
healthy zebrafish**

Image info: 5 min p.i. – 6 min scan
injected activity 0.2 MBq



Cu-64

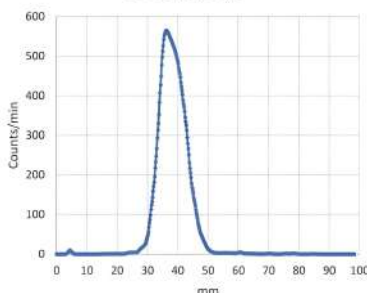


TLC – Image info: 3 min scan
total activity 0.26 MBq



Cu-64

TLC scan β -eye





BIOEMTECH's eyes™ systems are designed around real preclinical imaging needs to support more efficient research workflows

SCAN ME

